

Interior Fixture Schedule

Label	Description	Lamps	Manufacturer	Voltage	Wattage	Ballast
A1	Enspire Pendant mount fixture, louvered enclosure on the bottom, diffuse enclosure on top	(1) T5HO - T5ho-A	Energie	277	49W	Dimming
A2	Perimeter recessed trough system, direct down light w/ louvered enclosure	(1) T8 - T8-A	Lightolier	277	25W	Dimming
A3	Wall mounted wall wash, continuous mounting for even wash	(1) T8 - T8-A	Alkco	277	25W	Electronic
A4	3" wide continuous run fixture, louvered downlight	(1) T8 - T8-B	Se'lux	277	32W	Electronic
A5	Continuous run, pendant fixture, all indirect lighting	(1) T5ho - T5ho-A	Metalumen	277	49W	Dimming
A5a	Continuous run, pendant fixture, all indirect lighting	(3) T8 - T8-A	Metalumen	277	75W	Dimming
A6	Pendant fixture with direct and indirect aspects, louvered down light	(1) T5ho - T5ho-A	Axis	277	49W	Dimming
A6a	Pendant fixture with direct and indirect aspects, louvered down light	(2) T8 - T8-B	Axis	277	64W	Dimming
A7	Narrow assymetric wall light, open reflector and dry wal mounting	(1) T5 - T5-A	Focal Point	277	28W	Electronic
A8	Continuous run, recessed perimeter light, open aperature wall wash	(1) T8 - T8-B	Focal Point	277	32	Electronic
A9	Cove light, continuous run option, painted white housing	(1) T5 - T5-A	Lightolier	277	28W	Electronic
A10	4' long continuous run up light, lensed portion for optional downlight	(1) T8 - T8-B	Mark Lighting	277	35W	Electronic
A11	Pendant fixture with square shape, up and down light, louvered down light	(2) T8 - T8-B	Axis	277	64W	Electronic
A12	Square shaped pendant fixture, direct indirect with louvered down light	(1) T5- T5ho-A	Alight	277	49W	Electronic
A13	Interior Pendant fixture with uplight and louvered down light, used in all classrooms	(3) T8 - T8B	Axis	277	96 W	Dimming
A14	2x2 interior recessed downlight, louvered shielding with silver frame	(2) T8 - U	Prudential	277	64 W	Electronic
B1	7-3/8" circular recessed downlight, lensing optional	(1) Triple tube - TT-C	Portfolio	277	45W	Dimming
B2	8.5" circular recessed downlight, horizontal mounted lamp	(1) Triple tube - TTB	Erco	277	32W	Electronic
B3	Narrow 7x12 inch square recessed wall washer, lensed in silver finish	(1) Triple tube - TT-C	Eliptipar	277	45W	Electronic
B4	Square wall decorative wall sconce, ADA compliant fixture	(1) Triple tube - TT-A	Visa	277	26W	Electronic
B5	4x9 recessed downlight with open aperature, specular white finish	(1) Triple tube - TT-A	Lightolier	277	26W	Electronic
B6	4" small recessed circular downlight, open aperature	(1) Triple tube - TT-D	Portfolio	277	18W	Electronic
B7	4x4" square recessed downlight, lensed with comfort clear finish	(1) triple tube - TT-B	Lightolier	277	35 W	Electronic
B8	Poulsin interior 3 tiered pendant, circular, 2' mounting height	(2) TT - TT-c	Louis Polsen	277	90W	Electronic
C1	Low voltage parascan spot light, tight beam angle, w/ cross baffle	(1) Halogen LV - Halo-A	Erco	120	50W	-
D1	Pendant hung decorative downlight, white housing open aperature	(1) MH - MH-1	Erco	277	70 W	-

Exterior Fixture Schedule

W1	Exterior pole fixture, cylinder with diffusing section going 360 degrees	(4) T8 - T8-B	Se'lux	277	114W	Electronic
W2	Exterior wall mounted fixture with lensed apperture, used to wash ceiling	(1) t5 ho	Insight Lighting	277	49w	Electronic
X1	Exterior Wall mounted fixture, diamond shaped with cylinder diffusing section	(1) TT - TT-B	Teka	277	35W	Electronic
X2	Trianglular wall mounted fixture, decorative sconce	(1) TT- TT-B	Bega	277	35W	Electronic
X3	Exterior wall wash, recessed, aluminum housing	(1) TT - TT-C	Eliptipar	277	35W	Electronic
X4	Exterior recessed fixture, circular with 6 inch fixture size	(1) TT - TT-D	Erco	277	18W	Electronic
Y1	Parascoop fixture, wall mounted with uplight distribution	(1) TH - TH-1	Erco	277	300W	-
Z1	Exterior wall mounted fixture, wide spread down and narrow beam up	(1) MH - MH-3	Erco	277	70W	-
Z2	Recessed wall fixture, lensed with shielded top to prevent uplight	(1) MH - MH-2	Erco	277	35W	-
Z3	In ground wall washing fixture, narrow distribution of up light	(1) MH - MH-2	erco	277	35W	-
LED1	Strip LED fixture, set up for continue run by attaching portions of LEDS	LED	Color Kinetic	24VDC	28.8W/4'	-

ENSPIRE 1 SURFACE



Catalog Number

- **FIXTURE**
EP1S – Enspire 1 surface-mount
- **OVERALL ROW LENGTH**
– # must be specified in 4' increments
- **LENGTH**
4 – 4' fixture
8 – 8' fixture
12 – 12' fixture
- **SHIELDING**
RPX – Specular louver
RSX – Matte louver
- **TOP COVER**
PRF – Perforated top cover
SLD – Solid top cover
- **LAMPING** (in cross section)
1T528 – (1) 28W T5
2T528 – (2) 28W T5
1T554 – (1) 54W T5 high output
2T554 – (2) 54W T5 high output
1T832 – (1) 32W T8
- **VOLTAGE**
120 – 120 Volt
277 – 277 Volt
- **OPTIONS**
DIM – Electronic dimming
EM – Emergency battery pack
FUS – Fusing
SC – Separate Switching (2 lamp only)

Specifications

CONSTRUCTION
Fixture body constructed of steel. Endcaps constructed of injection molded polycarbonate. Fixtures join with internal fasteners.

FINISH
Fixture finished in white polyester powdercoat, RAL 9016.

SHIELDING
Lamps are shielded by Trilux patented MIRO louver technology, available in specular (>95%

surface reflectance) and matte versions (>94% surface reflectance). Louver is optically continuous across fixture length and joints.. Top cover may be specified as solid or perforated (see reverse for detail).

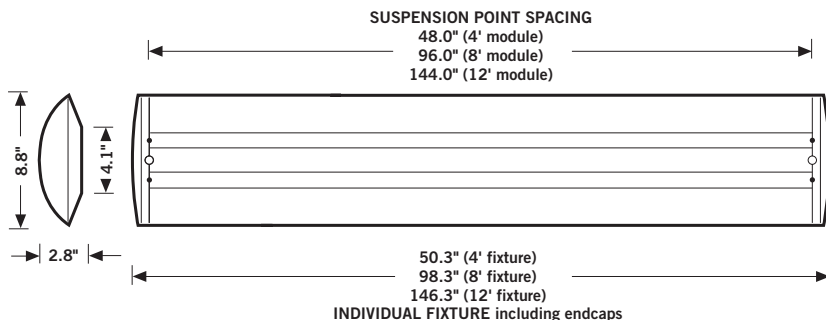
ELECTRICAL
Specify 120 or 277 volt. Fixture and all electrical components are U.L./C.U.L. damp location listed. Supplied with internal electronic ballast. Dimming, emergency battery pack,

fusing and separate switching may be specified.

LAMPING
Choice of (1) or (2) 28 watt T5 or 54 watt T5 high output fluorescent lamps or (1) 32 watt T8 lamp. Lamp(s) not included.

MOUNTING
Fixture surface-mounts to hard or grid ceilings.

Dimensions



When forming linear runs, ceiling surface must be level to ensure correct alignment of fixtures.

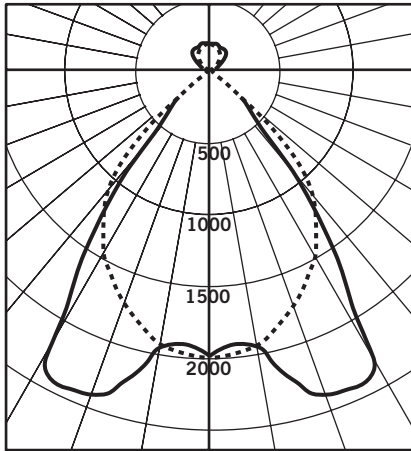
NOTE: When specifying individual fixtures, "overall row length" must equal "maximum section length" in catalog number.



ENSPIRE 1 SURFACE



Photometrics - (1) 54W high output T5 lamp



CANDELA DISTRIBUTION

	0	45	90
0	1697	1697	1697
5	1645	1663	1688
15	1909	1612	1586
25	2072	1828	1388
35	1277	1604	1119
45	411	717	756
55	10	163	95
65	1	2	0
75	1	1	0
85	1	0	0
95	3	4	3
105	21	20	20
115	50	59	47
125	101	105	74
135	153	126	100
145	161	135	122
155	157	155	139
165	165	160	151
175	160	158	157
180	158	158	158

LUMINAIRE

Description: Enspire 1 Surface with (1) 54 watt T5 high output lamp, specular louver and perforated top.

Catalog Number: EP1S-4-4-RSX-PRF-1T554-120

Efficiency: 77.3%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	1436.6	32.3	41.8
0 - 40	2303.1	51.8	67.0
0 - 60	2952.1	66.3	85.9
60 - 90	6.9	0.2	0.2
0 - 90	2959.0	66.5	86.1
90 - 180	479.4	10.8	13.9
0 - 180	3738.4	77.3	100

LUMINANCE (Candela / sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	5370	9359	9868
55	165	2621	1527
65	32	49	11
75	52	19	11
85	57	52	9

COEFFICIENTS OF UTILIZATION

PCC	80				70				50			10		0	
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	10
RCR															
0	.89	.89	.89	.89	.86	.86	.86	.86	.80	.80	.80	.69	.69	.69	.66
1	.84	.82	.79	.77	.81	.79	.77	.75	.74	.72	.71	.65	.64	.63	.61
2	.79	.74	.71	.68	.76	.72	.69	.66	.68	.65	.63	.60	.59	.57	.55
3	.74	.68	.63	.60	.71	.66	.62	.58	.62	.59	.56	.56	.54	.52	.50
4	.69	.62	.57	.53	.66	.60	.56	.52	.57	.53	.50	.52	.49	.47	.45
5	.64	.57	.51	.47	.62	.55	.50	.47	.53	.48	.45	.48	.45	.42	.41
6	.60	.52	.46	.43	.58	.51	.46	.42	.48	.44	.41	.44	.41	.39	.37
7	.56	.48	.42	.38	.54	.47	.42	.38	.45	.40	.37	.41	.38	.35	.34
8	.53	.44	.39	.35	.51	.43	.38	.35	.41	.37	.34	.38	.35	.32	.31
9	.49	.41	.35	.32	.48	.40	.35	.32	.38	.34	.31	.35	.32	.30	.28

Luminaire exceeds ANSI / IESNA RP-1-04 maximum luminaire luminous intensity requirements.

Details



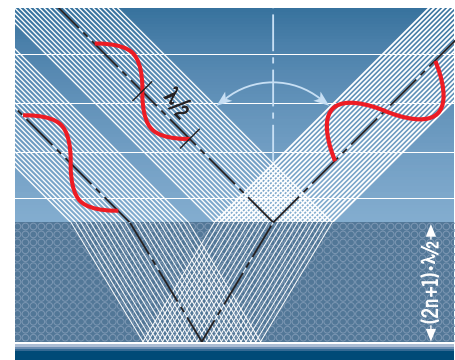
PERFORATED TOP

Enspire 1 Surface fixtures feature an optional perforated top that provides a soft glow above the fixture.



SPRING TENSIONED LOUVER

The spring-tensioned louver allows the louver to remain in place while installing lamps or relamping the fixture.

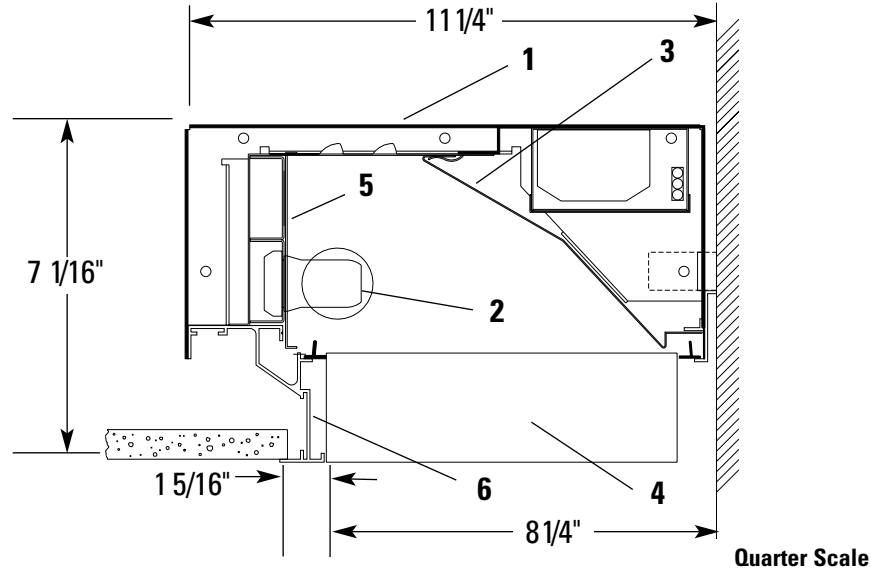


MIRO LOUVER

Enform products utilize ultra-high reflectance MIRO louver material, enabling precise control of light output and fixture brightness while maintaining maximum efficiency.

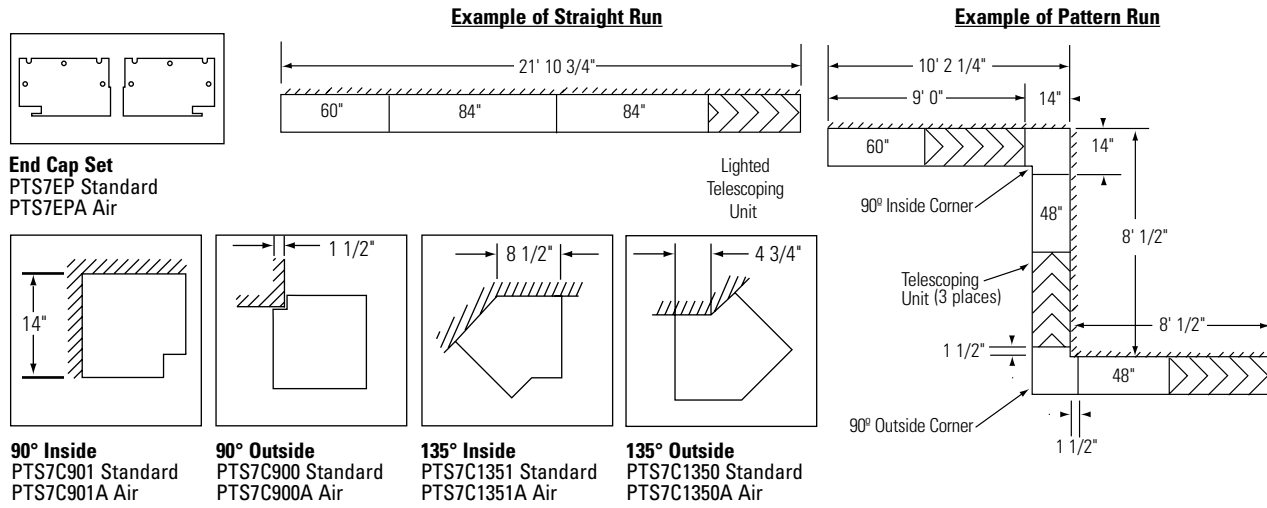
Installation instructions and ies files may be found at www.energielighting.com.





Complete ordering instructions on back.

Sample Run, End Plate and Corner Block Accessories



End Cap Set
 PTS7EP Standard
 PTS7EPA Air

90° Inside
 PTS7C901 Standard
 PTS7C901A Air

90° Outside
 PTS7C900 Standard
 PTS7C900A Air

135° Inside
 PTS7C1351 Standard
 PTS7C1351A Air

135° Outside
 PTS7C1350 Standard
 PTS7C1350A Air

Features

- Housing:** Die-formed steel, slotted for air return. Integral flanges at each end strengthen the housing and permit housings to be bolted together in continuous runs and facilitate suspension of fixture. Concealed openings for heat extraction and air return.
- Lamping:** One T8 or T12 fluorescent lamp, as specified. Provided by others.
- Reflector:** Die-formed semi-specular aluminum.
- Louver:** Semi-specular anodized aluminum, 40 degrees lengthwise by 30 degrees minimum crosswise shielding. Supported along both edges by concealed frame of extruded aluminum. Bold baffle, prismatic lens, gold anodized louver, open or egg crate louver available, consult factory.
- Socket Channels:** Die-formed, pre-painted steel held by support brackets and allows for up to 6" lamp overlap.
- Ceiling Trim:** Extruded aluminum with integral aligner splines.

Electrical

Specify 120 volt or 277 volt. 3 conductor, 18 gauge wire. Color-coded quick connectors allow ease of connection for joiner modules. For special circuiting, consult factory. Rapid start, HPF, class "P" thermally protected. PowerSpec® HDF dimming ballast is available.

Mountings

Wall Adjustment Bracket - Allows for inconsistencies in wall straightness. Die-formed steel used to mount system to the wall.

Finish

Ceiling trim painted baked enamel semi-gloss white.

Options and Accessories

90 degree inside, 90 degree outside, 135 degree inside, and 135 outside corners available.

Labels

UL, cUL and I.B.E.W.

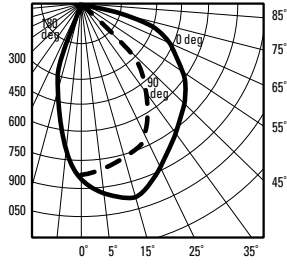
Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

Lightolier a Genlyte Thomas Company www.lightolier.com
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
 © 2002 Genlyte Thomas Group LLC (Lightolier Division) • A0902

LIGHTOLIER®

Performance & Quick Calculators

CANDLEPOWER CURVE



REPORT NO: LRL 499-5D
 LAMPS: 1-F032T8
 EFFICIENCY: 46.7%

CANDLEPOWER SUMMARY

ZONE	0	45	90	135	180
Deg	0	45	90	135	180
180	0	0	0	0	0
175	0	0	0	0	0
165	0	0	0	0	0
155	0	0	0	0	0
145	0	0	0	0	0
135	0	0	0	0	0
125	0	0	0	0	0
115	0	0	0	0	0
105	0	0	0	0	0
95	0	0	0	0	0
90	0	0	0	0	0
85	39	15	2	2	2
75	153	90	5	3	3
65	440	120	13	8	9
55	560	338	79	34	14
45	669	532	288	64	32
35	754	705	512	103	55
25	885	833	677	225	104
15	969	949	778	386	285
5	950	920	837	704	620
0	833	833	833	833	833

COEFFICIENTS OF UTILIZATION

		% EFFECTIVE CEILING CAVITY REFLECTANCE								
		80			70			50		
		% WALL REFLECTANCE								
		50			30			10		
ROOM CAVITY RATIO	0	56	56	56	54	54	54	52	52	52
	1	50	49	47	49	48	46	47	46	45
	2	45	43	41	44	42	40	43	41	39
	3	41	38	35	40	37	35	39	36	34
	4	37	34	31	36	33	31	35	33	30
	5	33	30	27	33	30	27	32	29	27
	6	30	27	24	30	27	24	29	26	24
	7	28	24	21	27	24	21	27	24	21
	8	25	21	19	25	21	19	24	21	19
	9	23	19	17	22	19	17	22	19	17
	10	21	17	15	21	17	15	20	17	15

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% BARELAMP	% LUMINAIRE
0-90	1354	46.7	100.0
90-180	0	0.0	0.0
0-180	1354	46.7	100.0

Quick Calculators

**ONE SIDE MOUNTING
NO OPPOSITE WALL**

Distance from Ceiling, FT	0	2	4	6	8	10	12
1.5	63						
2.5	33						
3.5	22						
4.5	18	76	51	33	23	18	15
5.5	16						
6.5	15						
7.5	14	51	45	35	28	23	19
8.5	12						
9.5	12	40	38	33	27	23	20

**ONE SIDE MOUNTING
6 FT BETWEEN WALLS**

Distance from Ceiling, FT	0	2	4	6
1.5	72			39
2.5	43			45
3.5	33			45
4.5	28	85	68	43
5.5	26			40
6.5	24			37
7.5	22	60	55	33
8.5	21			30
9.5	19	49	48	28

**TWO SIDE MOUNTING
12 FT BETWEEN WALLS**

Distance from Ceiling, FEET	0	2	4	6	8	10	12
1.5	76						76
2.5	50						50
3.5	41						41
4.5	38	92	73	65	73	92	38
5.5	37						37
6.5	35						35
7.5	34	72	71	69	71	72	34
8.5	33						33
9.5	32	63	66	65	66	63	32

Ordering Information

ONE LIGHT

Cat No.	PTS7T148	PTS7184	PTS7160	PTS7148	PTS7136	PTS7124
Size	27" to 48"	84"	60"	48"	36"	24"
Lamps	1-4 Foot	2-4 Foot	2-3 Foot	1-4 Foot	1-3 Foot	1-2 Foot
Type	Tele	Module	Module	Module	Module	Module
4'3"-6'0"	1					1
5'3"-7'0"	1				1	
6'3"-8'0"	1			1		
7'3"-9'0"	1		1			
8'3"-10'0"	1			1		1
9'3"-11'0"	1	1				
10'3"-12'0"	1		1		1	
11'3"-13'0"	1	1				1
12'3"-14'0"	1	1			1	
13'3"-15'0"	1	1		1		
14'3"-16'0"	1	1	1			
15'3"-17'0"	1	1		1		1
16'3"-18'0"	1	2				
17'3"-19'0"	1	1	1		1	
18'3"-20'0"	1	2				1
19'3"-21'0"	1	2			1	
20'3"-22'0"	1	2		1		
21'3"-23'0"	1	2	1			
22'3"-24'0"	1	2		1		1
23'3"-25'0"	1	3				
24'3"-26'0"	1	2	1		1	
25'3"-27'0"	1	3				1
26'3"-28'0"	1	3			1	
27'3"-29'0"	1	3		1		
28'3"-30'0"	1	3	1			

ONE LIGHT

Cat No.	PTS7T148	PTS7184	PTS7160	PTS7148	PTS7136	PTS7124
Size	27" to 48"	84"	60"	48"	36"	24"
Lamps	1-4 Foot	2-4 Foot	2-3 Foot	1-4 Foot	1-3 Foot	1-2 Foot
Type	Tele	Module	Module	Module	Module	Module
29'3"-31'0"	1	3				1
30'3"-32'0"	1	4				
31'3"-33'0"	1	3	1		1	
32'3"-34'0"	1	4				1
33'3"-35'0"	1	4			1	
34'3"-36'0"	1	4		1		
35'3"-37'0"	1	4	1			
36'3"-38'0"	1	4		1		1
37'3"-39'0"	1	5				
38'3"-40'0"	1	4	1		1	
39'3"-41'0"	1	5				1
40'3"-42'0"	1	5				1
41'3"-43'0"	1	5		1		
42'3"-44'0"	1	5	1			
43'3"-45'0"	1	5		1		1
44'3"-46'0"	1	6				
45'3"-47'0"	1	5	1		1	
46'3"-48'0"	1	6				1
47'3"-49'0"	1	6			1	
48'3"-50'0"	1	6		1		
49'3"-51'0"	1	6	1			
50'3"-52'0"	1	6		1		1
51'3"-53'0"	1	7				
52'3"-54'0"	1	6	1		1	

Ordering Instructions

Individual Fixtures:

- Order number of FIXTURES.
- Order one END PLATE SET per fixture.

Continuous Rows:

- Determine run length.
- Use chart above to find catalog numbers. Each run ends with a telescoping unit.
- Order END PLATE SET for each open run.

Square/Rectangle Patterns:

- Consult plans and mark locations for corners.
- Calculate net footage of each run.
- Deduct corner dimension from each corner.
- Determine catalog numbers the same way as a straight run.

NOTE: Add to end of catalog number for desired ballast.

- Blank** = T12 Magnetic 120v
- 2** = T12 Magnetic 277v
- E1** = T12 Electronic 120v
- E2** = T12 Electronic 227v
- E81** = T8 Electronic 120v
- E82** = T8 Electronic 227v
- M71** = T8 Electronic Dimming Ballast 120v
- M72** = T8 Electronic Dimming Ballast 277v
- HD1** = T8 PowerSpec® HDF Dimming 120v
- HD2** = T8 PowerSpec® HDF Dimming 277v

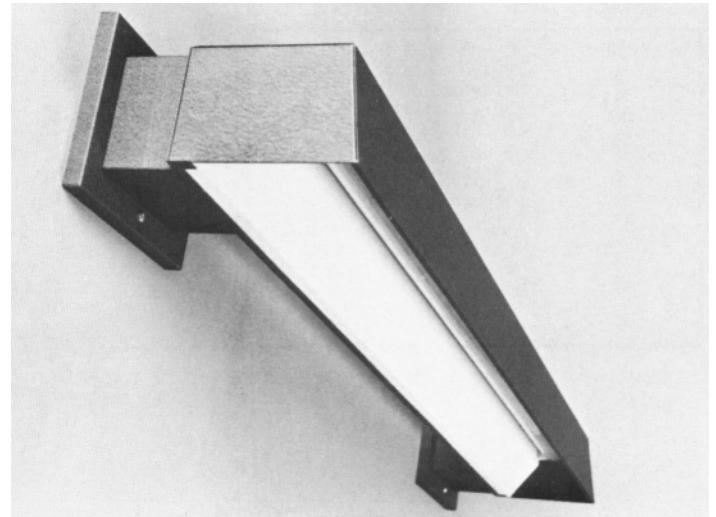
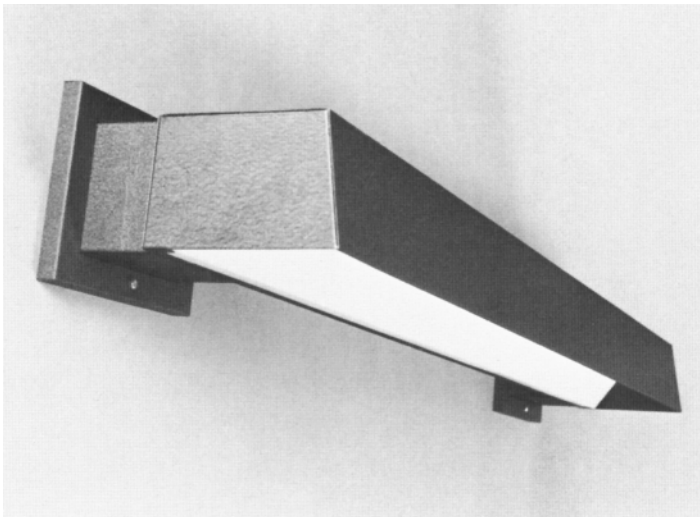
Job Information **Type:**

Lightolier a Genlyte Thomas Company www.lightolier.com
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
 © 2002 Genlyte Thomas Group LLC (Lightolier Division) • A0902

LIGHTOLIER®

WALL WASHER

**WALL MOUNT FLUORESCENT
7500 SERIES**



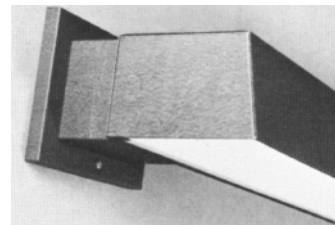
Assymetrical specular parabolic reflector evenly illuminates vertical surfaces.

Can be row mounted for continuous illumination.

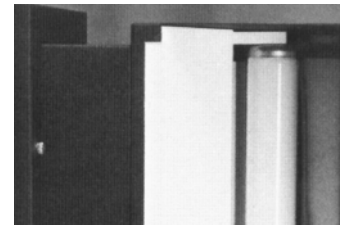
Universal mounting bracket for quick installation and even alignment.

Premium ballast for economical operation and long life.

Originally designed and specified for schools and classrooms as a chalkboard light. Controlled optics evenly illuminates any vertical surface. Excellent visual lamp cut-off shields brightness from normal viewing angles. Ideal for lighting chalkboards, directories, bulletin boards, signage, or evenly washing plain vertical surfaces.



Universal mounting bracket.



Assymetrical specular parabolic reflector.

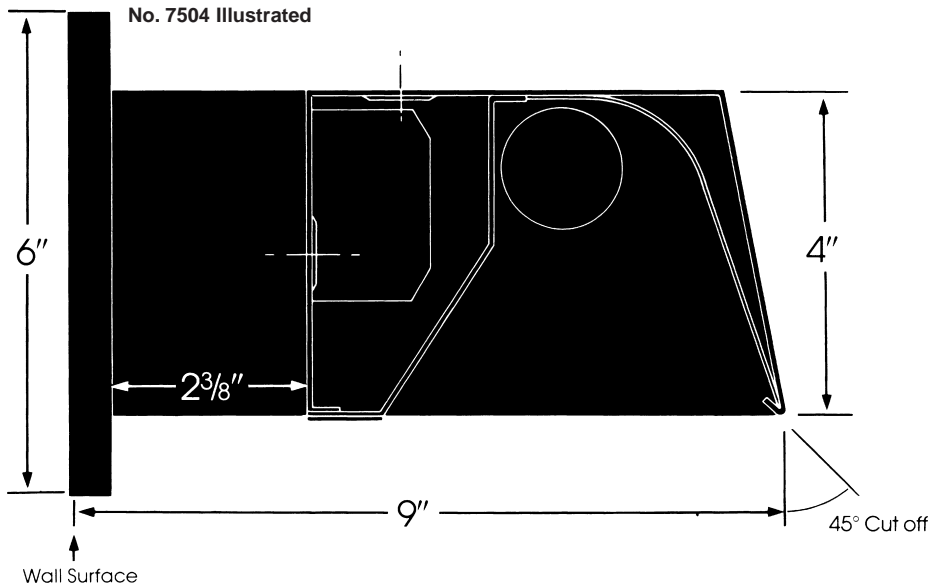
WALL WASHER

WALL MOUNT FLUORESCENT

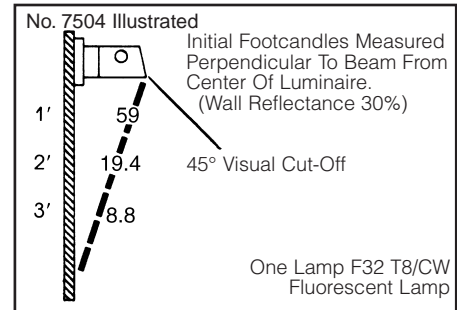
7500 SERIES

TYPE

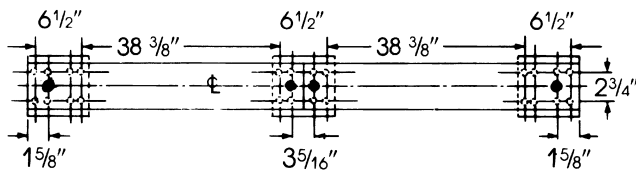
CROSS SECTION



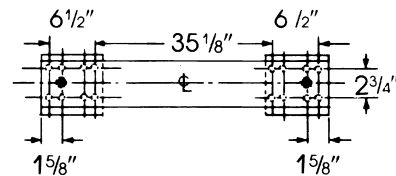
ILLUMINATION DATA



KNOCKOUTS AND MOUNTING HOLES
7508



KNOCKOUTS AND MOUNTING HOLES
7504



Universal Bracket For Joining Single and Continuous Rows

SPECIFICATIONS

CONSTRUCTION

20 gauge cold rolled steel.

ELECTRICAL

One lamp high power factor rapid start class "P" high frequency electronic ballast standard.

REFLECTOR

Parabolic specular aluminum.

FINISH

Bonderized matte black wrinkled baked enamel standard. Other finishes may be specified.

INSTALLATION

Universal mounting brackets adapt to individual or continuous row mounting per above diagram. (6) 7.8" diameter knockouts.

LABELS

U.L. & IBEW.

LAMPS

One 32 watt T8 3500K fluorescent lamp included. 3000K or 4100K lamps may be specified.

ORDERING INFORMATION

Cat. No.	Description	L	W	D
7504	1-32W HPF, Rapid Start	49 1/8"	9"	4"
7508*	2-32W HPF, Rapid Start (2-4' units)	97 1/4"	9"	4"

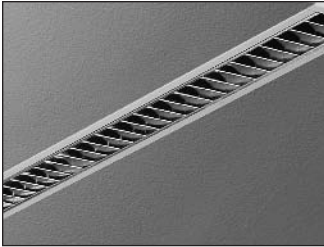
*Note: 7508 Shipped in 2-4' Lengths

Note: Specify lamp if other than standard 3500K.

OPTIONAL EQUIPMENT

/277V	277 Volt Ballast
/PCS	Pull Chain Switch (120 volt only)
/RSP	Radio Suppressor (one per circuit)
/Slo-Blo	GMF Slow-Blow Fuse and Fuseholder

M60 Linear Fluorescent Recessed



Project: _____ **Type:** _____ **Qty:** _____

Fixture Series	Lamp Type	Shielding	Mounting	Linear Footage	Finish	Voltage

Options (refer to separate data sheets for ordering codes and details)

Fixture Series	Lamp Type	Shielding	Mounting	Linear Footage	Finish	Voltage	Options
M6R1 M60 Recessed Continuous Flange (Flanged Extrusion/ Flanged Endcaps)	1T5 F28T5	MP Silky Specular Parabolic Louver SD Satine Lens OD Extra Diffuse Lens	SH Suspension Clips	004 4 foot	WH White	120	TB Lengths to Fit 2' Grid T-Bar Ceiling System (M6R1 only) (qty.)EM Stand-by Battery Pack ¹ (prefix quantity, i.e. - 5EM) FS Single Fusing DM Dimming ¹ (specify system) DMA Digital Addressable Dimming ¹ SI Satine Acrylic Inlay ² FW Flex Whip (standard) FW1 Flex Whip (dimming) Track Eutrac Standard ⁹ DL Suitable for Damp Locations CCEA Chicago Plenum Downlights (See MR11 spec sheet, pp.98)
	1T5HO F54T5HO		RC Rotating Crossbars	008 8 foot	BK Black	277	
M6R2 M60 Recessed Flush End (Flanged Extrusion/ Flangeless Endcaps)			PM Perimeter Mount	012 12 foot	SV Silver	347	
			TS 1" Studs (factory installed)	For actual lengths see layout dimensions. For other lengths, configurations indicate nominal length rounded to the next highest foot. Factory will supply layout drawings. Individual fixtures cannot be field joined.		SP Specify RAL#	

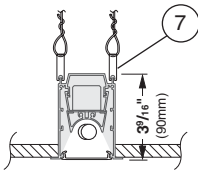
¹Must be low profile ballasts (1⁹/₁₆" wide x 1³/₁₆" high); consult factory for details.

²Available for MP Louver only.

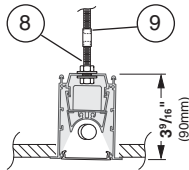
³Consult factory for details.

Mounting Diagrams

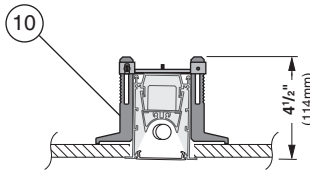
Suspension Clips (SH)



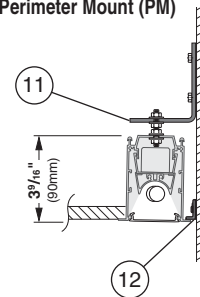
Pre-installed Rod (TS)



Rotating Crossbars (RC)

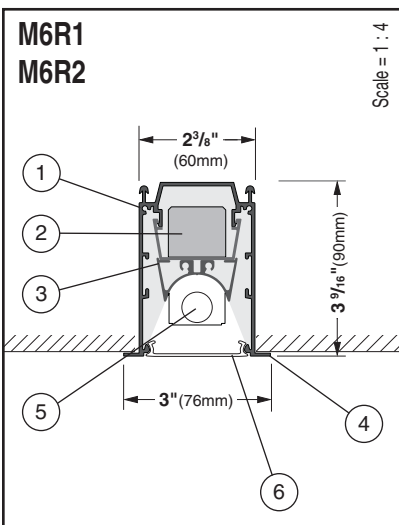
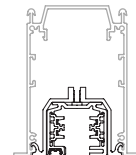


Perimeter Mount (PM)



Track

Track insert including track available for all configurations, consult factory for details.



1. Housing - Continuous, 6063-T5 extruded aluminum profile up to 16 feet long.

2. Ballast - Electronic, high power factor, class "P", type "A" sound rating. Specify 120v, 277v, or 347v. Ballast is factory pre-wired with leads to one end of fixture. Consult factory for ballast options.

3. Gear Tray - Die formed tray with specular aluminum reflector. Gear tray installs as complete electrical unit and is held in place with 1/4 turn latches. It is fully accessible from below ceiling.

4. Flange - 5/16" (8mm) wide flange is part of the main extruded body. Specify continuous flange (M6R1) or flush end (M6R2).

5. Lamps - As noted (by others). Other lamp lengths or wattages available, consult factory.

6. Shielding - Louvers offer excellent glare control in longitudinal, lateral, and all diagonal planes. High quality aluminum louvers and acrylic shielding allow true freedom of layout for today's modern spaces.

7. Spring steel suspension clips - Supplied two places, located nominally every 4 ft. Support wires Supplied and installed by others.

8. Pre-installed 1" 1/4-20 Stud - Attached to fixture every nominal 4 feet.

9. Coupling and Threaded Rod to Structure - Supplied and installed by others.

10 Rotating Crossbar - For inaccessible ceilings, adjustable for ceiling thicknesses from 1/4" to 2". Support required nominally every 4'.

11. Steel Wall Bracket and 1/4-20 Rod - Supplied nominally every 4 ft. (Fasteners to wall and wall anchors by others.)

12. Aluminum Wall Bracket - Secured to wall (fasteners and wall anchors by others) and runs entire length of fixture. Also supplied for width of M6R1 continuous flange fixtures. Allows for 1/8" gap between flange and wall to create shadow line.

Interior Luminaire Finish - Standard interior colors are White (WH), Black (BK) and Silver (SV). RAL Classic colors (SP) are available, please specify RAL#.

SELUX Corp. © 2006
TEL: (845) 691-7723
FAX: (845) 691-6749
www.selux.com/usa
M6R-01 (v5.0)



Union Made Affiliated
with IBEW Local 363

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.com/usa are the most recent versions and supercede all other printed or electronic versions.

M60 Recessed Linear Fluorescent Flanged Extrusion

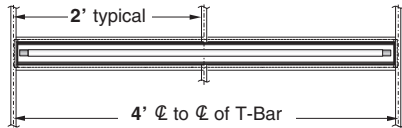


M6R1 and M6R2 Standard Layout Dimensions

M6R1 Recessed - nominal 4 foot individual



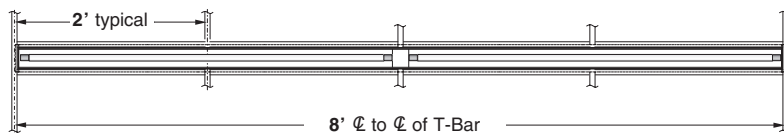
M6R1 Recessed - T-Bar Length - nominal 4 foot individual



M6R1 Recessed - nominal 8 foot individual



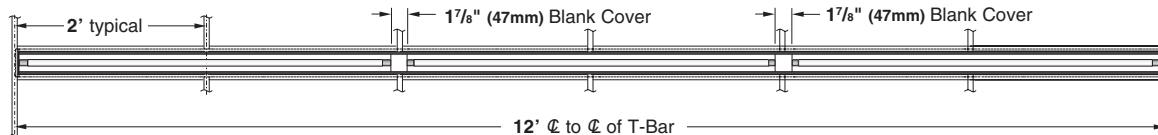
M6R1 Recessed - T-Bar Length - nominal 8 foot individual



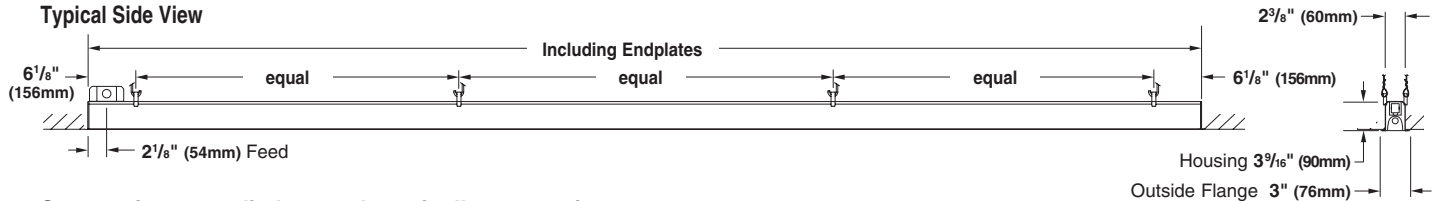
M6R1 Recessed - nominal 12 foot individual



M6R1 Recessed - T-Bar Length - nominal 12 foot individual



Typical Side View



Suspensions supplied spaced nominally every 4 feet.
Fixture supplied with 7/8 knockout located 2 1/8" from end in top of fixture.

	T5 (1 or 2 lamp)			
	M6R1/M6R2 Including Endplates	M6R1 Outside Flange	M6R1/M6R2 - TB Including Endplates	M6R1 - TB Outside Flange
4 foot individual	47.28" (1201mm)	46.63" (1184mm)	47.03" (1195mm)	47.91" (1216mm)
8 foot individual	93.72" (2380mm)	93.03" (2362mm)	95.21" (2418mm)	95.88" (2435mm)
12 foot individual	140.13" (3559mm)	139.43" (3541mm)	143.25" (3638mm)	143.22" (3638mm)

For other lengths, lampping, continuous runs or configurations please specify overall length (in feet), accessories desired and sketch/drawing of configuration. SELUX will detail project drawings upon order and supply submittal drawings for approval. Individual fixtures cannot be field joined. If you have any questions please contact SELUX customer service or applications engineering for assistance (1-800-SELUX-CS).

SELUX Corp. © 2006
PO Box 1060, 5 Lumen Lane / Highland, NY 12528
TEL: (845) 691-7723 / FAX: (845) 691-6749
E-mail: seluxus@selux.com / Web Site: www.selux.com/usa
M6R1-02 (02/06)

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.com/usa are the most recent versions and supersede all other printed or electronic versions.

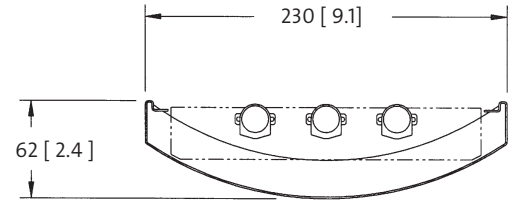
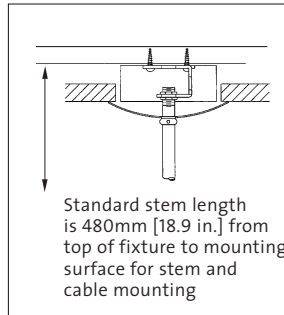
Ordering Guide

Finesse c7s Series 9 Pendant

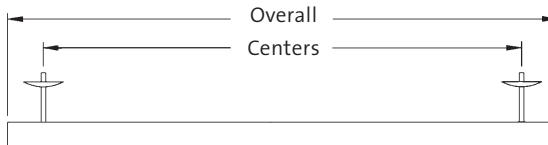
Mounting Information

Nominal Length	Overall mm [in]	Centers mm [in]
4'T8	1489 [58.6]	1253 [49.3]
6'T8	2125 [83.7]	1889 [74.4]
8'T8	2735 [107.7]	2499 [98.4]
12'T8	3980 [156.7]	3744 [147.4]
4'T5	1438 [56.6]	1202 [47.3]
6'T5	2031 [80.0]	1795 [70.7]
8'T5	2631 [103.6]	2395 [94.3]
12'T5	3825 [150.6]	3589 [141.3]

Mounting dimensions indicated above are for individual units only. For continuous row mounting dimensions consult factory.



**Model Shown:
Solid body-100% uplight**



Photometrics on reverse

Series	Model	Length	Control Up	Control Down	Mounting	Finish	Source	Voltage
<input type="checkbox"/> C7S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A 1 - T5 lamp 1 - T8 lamp	4 4' long	Control Up U open top C clear dust cover			Mounting 1 solid stem 4 aircraft cable <input type="checkbox"/> standard 480mm [18.9"] <input type="checkbox"/> or indicate length		Source 4 T8 5 T5 6 T5 HO	
B 2 - T5 lamps 2 - T8 lamps	8 8' long	Control Down			Finish W white S special finish: indicate paint # and manufacturer		Voltage A 120 Volt B 277 Volt C 347 Volt	
C 3 - T5 lamps 3 - T8 lamps	C 12' long R continuous rows	A* unperforated band at center socket locations B* unperforated band at center socket locations with opal inlay I angled slotted bottom and opal inlay N solid body - 100% uplight P perforated body R perforated body and opal inlay * consult factory for availability						

METALUMEN

Distinguished Design ↔ Engineered Excellence

METALUMEN MANUFACTURING INC.

570 Southgate Drive, Guelph, Ontario N1G 4P6

Mailing Address: P.O. Box 1779, Guelph, Ontario N1H 6Z9

toll free 1-800-621-6785 t 519-822-4381 f 519-822-4589

www.metalumen.com

Approvals

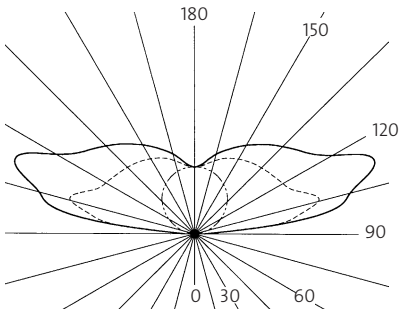
R1-06-02

Signature _____

Date _____

Photometrics

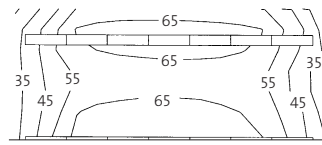
Distribution Curve



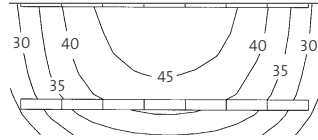
Candlepower Summary

Angle	0.0	22.5	45	67.5	90	Output Lumens
90	9	102	86	79	75	0
95	33	344	684	739	718	542
105	101	398	1067	1170	1205	877
115	191	447	818	1304	1536	850
125	277	489	771	1015	1097	666
135	360	529	738	908	972	549
145	426	554	701	815	857	426
155	474	549	657	726	752	295
165	509	529	595	639	652	167
175	528	524	529	534	535	51
180	523	523	523	523	523	0

Room Layout



Ceiling luminance



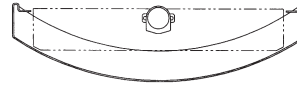
Horizontal footcandles

10.7(L) x 9.1(W) x 3.0(H)m [35 x 30 x 10 ft]
 Reflectances: 80/50/20
 Maintenance factor: 0.70
 Fixture spacing: 3.0m [10'-0"]
 Pendant length: 457mm [18"]

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-90	0	0.0	0.0
90-120	2268	45.4	51.3
90-130	2935	58.7	66.3
90-150	3910	78.2	88.4
90-180	4423	88.5	100.0
0-180	4423	88.5	100.0

T5 HO 1 Lamp



Photometric report - file # C7SAUN-6-LT
 Efficiency 88.5%
 100% indirect
 Model shown 1-FP54 T5 HO Lamp
 Solid body - 100% uplight

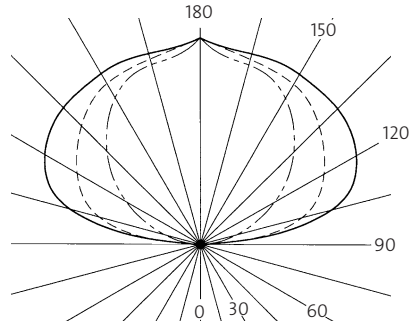
Coefficients of Utilization
Zonal Cavity Method

Effective Floor Cavity Reflectance = .20

RC	80				70				50			
RW	70	50	30	10	70	50	30	10	50	30	10	
RCR												
0	84	84	84	84	72	72	72	72	49	49	49	
1	77	73	70	67	65	62	60	58	43	41	40	
2	70	64	59	55	59	55	51	47	37	35	33	
3	63	56	50	45	54	48	43	39	33	30	28	
4	58	49	43	38	49	42	37	33	29	26	23	
5	53	44	37	32	45	37	32	28	26	22	20	
6	49	39	32	28	41	33	28	24	23	20	17	
7	45	35	28	24	38	30	25	21	21	17	15	
8	41	31	25	21	35	27	22	18	19	15	13	
9	38	28	22	18	32	24	19	16	17	14	11	
10	35	26	20	16	30	22	17	14	15	12	10	

Laboratory results may not be representative of field performance.
 Ballast factors have not been applied.

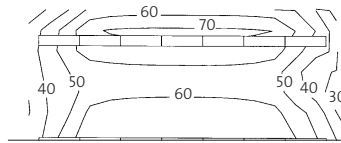
Distribution Curve



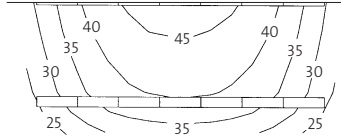
Candlepower Summary

Angle	0.0	22.5	45	67.5	90	Output Lumens
0	5.55	5.55	5.55	5.55	5.55	0.03
5	2.97	0.81	2.21	3.09	0.65	0.19
15	0.86	2.20	2.87	2.21	1.94	0.65
25	1.69	2.53	4.57	4.74	5.47	1.61
35	3.58	2.36	3.31	3.88	3.68	2.25
45	3.05	2.82	3.69	4.23	6.11	2.94
55	2.51	2.80	5.22	17.0	22.8	8.38
65	2.46	2.95	15.8	36.2	47.5	19.57
75	1.67	1.96	6.44	16.5	16.9	9.43
85	1.06	0.93	2.10	1.7	1.17	1.18
90	9.34	21.0	19.0	14.1	12.8	9.14
95	92.2	218	339	382	399	241.45
105	213	361	575	720	761	566.62
115	373	493	685	825	882	653.17
125	537	631	773	905	954	685.07
135	682	739	858	950	991	654.21
145	818	839	938	989	995	576.17
155	924	943	962	1020	1021	449.93
165	961	950	980	1013	1010	279.52
175	964	1024	1017	1017	1014	90.73
180	1054	1054	1054	1054	1054	6.31

Room Layout



Ceiling luminance



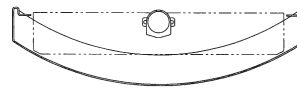
Horizontal footcandles

10.7(L) x 9.1(W) x 3.0(H)m [35 x 30 x 10 ft]
 Reflectances: 80/50/20
 Maintenance factor: 0.70
 Fixture spacing: 3.0m [10'-0"]
 Pendant length: 457mm [18"]

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	2	0.0	0.1
0-40	5	0.1	0.1
0-60	16	0.3	0.4
0-90	51	1.0	1.2
90-120	1466	29.3	34.4
90-130	2151	43.0	50.5
90-150	3381	67.6	79.4
90-180	4208	84.2	98.8
0-180	4259	85.2	100.0

T5 HO 1 Lamp



Photometric report - file # C7SAUP-6-PT
 Efficiency 85.2%
 99% indirect/1% direct
 Model shown 1-FP54 T5 HO Lamp
 Perforated body

Coefficients of Utilization
Zonal Cavity Method

Effective Floor Cavity Reflectance = .20

RC	80				70				50			
RW	70	50	30	10	70	50	30	10	50	30	10	
RCR												
0	82	82	82	82	70	70	70	70	48	48	48	
1	75	71	68	65	64	61	58	56	42	40	39	
2	68	62	57	53	58	53	49	46	36	34	32	
3	62	54	48	44	52	46	42	38	32	29	27	
4	56	48	41	37	48	41	36	32	28	25	22	
5	51	42	36	31	44	36	31	27	25	21	19	
6	47	37	31	26	40	32	27	23	22	19	16	
7	43	33	27	23	37	29	23	20	20	16	14	
8	40	30	24	20	34	26	21	17	18	14	12	
9	37	27	21	17	31	23	18	15	16	13	10	
10	34	25	19	15	29	21	16	13	15	11	9	

Laboratory results may not be representative of field performance.
 Ballast factors have not been applied.

PRODUCT ORDERING CODES

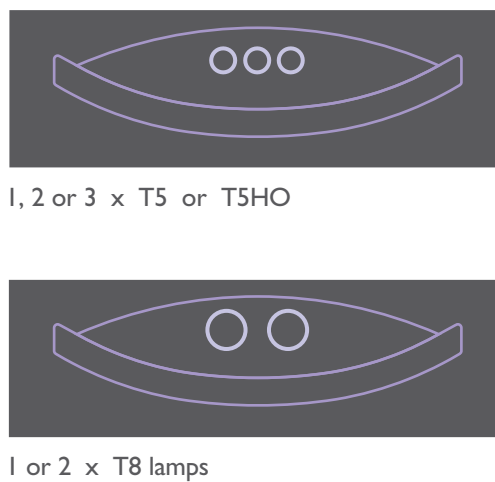
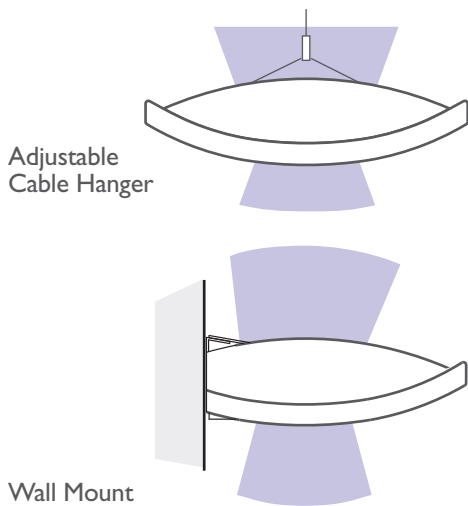
product id	center optics	length / ft	lamp	lamp config	finish	up light	down light	ballast	voltage	circuits	suspension	hanger	other	custom
LT	PL	4	T8	2	A	0*	0*	E	120	I	CA36	C	F	C
LT +W +S	pendant wall surface	4 8 12 S# system	1 one lamp 2 two lamps 3 three lamps (T5/T5HO only)		A aluminum W white C custom	0 1 2		E electronic ERS rapid start D dimming (specify details)	120 277 347	I one circuit 2 two circuits +E em. circuit	CA# cable (36" std) CT# cable / t-bar SA# stem (18" std) (length / inch)	C cable +SM seismic	B# batt. pack (quan. / lumens) F fuse (one per ballast)	C custom description
SB PL P S B F	white solid baffle spec. para. louver perf slotted blank frosted diffuser	T8 32w T5 28w T5HO 54w				0 1 2 HP FP BK								

sample
ordering options

*Please refer to Light Distribution Guide for up / down light reflectors specifications. For use with SB or PL center optics only.

FIXTURE CONFIGURATIONS

LAMP CONFIGURATIONS



PHOTOMETRICS

Site specific lighting calculations and electronic photometric data are available at www.axislighting.com

LT Candlepower Distribution

Illuminance (Footcandles)

Photopia Electronic Simulation

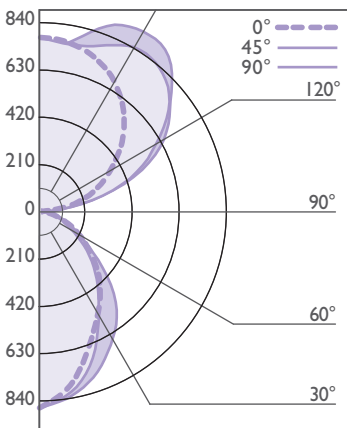
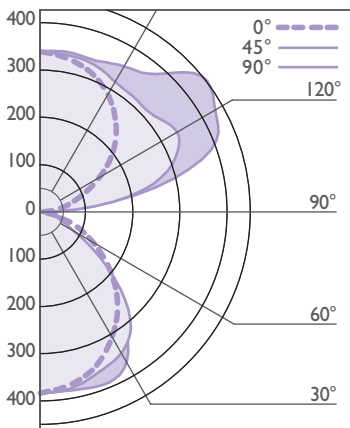
Test Lamps: 1 x F32T8 Fluorescent
LT -PL-4-T8-1 direct / indirect
w/ MIRO Interior Reflectors Efficiency : 89%

Photopia Electronic Simulation

Test Lamps: 2 x F32T8 Fluorescent
LT -PL-4-T8-2 indirect/direct
Efficiency : 85%

Sample Typicals

Code: 2 x LT -PB-24-T8-2 Reflectances:
(2x 24' curved w/ perf. baffles) Ceiling 80%
Test Lamps: 2 x F32T8 Walls 50%
Light Loss Factor: 0.8 Floor: 20%



Sample Room Layout

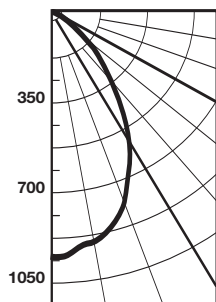
30' x 30' x 9' with work plane @ 2.5' AFF

20	21	26	32	35	34	31	28	31	34	35	32	26	21	20
20	23	31	42	50	45	37	32	37	45	50	42	31	23	20
22	26	38	55	67	58	45	38	45	58	67	55	38	26	22
23	28	43	62	76	66	51	43	51	66	76	62	43	28	23
24	30	45	66	81	70	54	46	54	70	81	66	45	30	24
25	31	47	68	83	72	56	48	56	72	83	68	47	31	25
26	32	48	70	85	74	58	50	58	74	85	70	48	32	26
25	32	48	69	84	74	58	49	58	74	84	69	48	32	25
26	32	48	70	85	74	58	50	58	74	85	70	48	32	26
25	31	47	68	83	72	56	48	56	72	83	68	47	31	25
24	30	45	66	81	70	54	46	54	70	81	66	45	30	24
23	28	43	62	76	66	51	43	51	66	76	62	43	28	23
22	26	38	55	67	58	45	38	45	58	67	55	38	26	22
20	23	31	42	50	45	37	32	37	45	50	42	31	23	20
20	21	26	32	35	33	30	28	30	33	35	32	26	21	20



PHOTOMETRICS

Candlepower Distribution



Test No. H23404
C7042 7080L14G

Lamp=42W TTT
Lumens=3200
Spacing
Criterion=1.0
Efficiency=41.6%

Candlepower

Deg.	CD
0	932
5	924
15	867
25	706
35	481
45	293
55	135
65	12
75	4
85	2
90	0

Average Luminance

Deg.	CD/SQ M
45	15019
55	8524
65	987
75	603
85	707

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
6'0"	26	6.0'
7'0"	19	7.0'
8'0"	15	7.5'
10'0"	9	10.0'
12'5"	6	12.0'
15'0"	4	14.5'

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Reflector Multiplier: Haze=.95 Straw=.9 Wheat=.9
EM Multiplier (in emergency mode) EM=.27

Zonal Lumen Summary

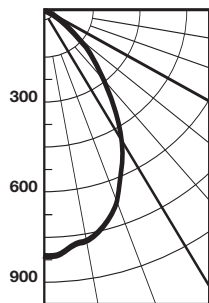
Zone	Lumens	%Lamp	%Luminaire
0-30	655	20.5	49.1
0-40	955	29.9	71.7
0-60	1304	40.8	97.9
0-90	1333	41.6	100.0
90-180	0	0.0	0.0
0-180	1333	41.6	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	44	50	50	50	48	48	48	46	46	44	44	43	43	42
1	41	45	44	43	44	44	42	43	41	41	40	40	39	38
2	41	41	39	38	41	41	37	39	36	38	36	37	35	34
3	41	38	35	33	37	37	33	36	32	35	32	34	31	31
4	38	34	32	30	34	34	29	33	29	32	29	31	28	28
5	36	32	29	27	31	31	26	30	26	30	26	29	26	25
6	34	29	26	24	29	29	24	28	24	27	24	27	23	23
7	31	27	24	22	27	27	22	26	22	25	21	25	21	21
8	30	25	22	20	25	25	20	24	20	24	20	23	20	19
9	28	23	20	18	23	23	18	23	18	22	18	22	18	17
10	26	22	19	17	21	21	17	21	17	21	17	20	17	16

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution



Test No. H23391
C7042-7080L14G

Lamp=32W TTT
Lumens=2400
Spacing
Criterion=1.0
Efficiency=45.9%

Candlepower

Deg.	CD
0	794
5	797
15	766
25	610
35	393
45	226
55	100
65	8
75	3
85	1
90	0

Average Luminance

Deg.	CD/SQ M
45	11577
55	6349
65	721
75	434
85	458

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
6'0"	22	5.0'
7'0"	16	6.0'
8'0"	12	7.0'
10'0"	8	9.0'
12'5"	5	11.0'
15'0"	4	13.5'

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Reflector Multiplier: Haze=.95 Straw=.9 Wheat=.9
EM Multiplier (in emergency mode) EM=.27

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	570	23.7	51.7
0-40	816	34.0	74.1
0-60	1081	45.0	98.1
0-90	1101	45.9	100.0
90-180	0	0.0	0.0
0-180	1101	45.9	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	55	55	55	55	53	53	53	51	51	49	49	47	47	46
1	52	50	49	48	49	48	47	47	45	46	44	44	43	42
2	48	46	44	42	45	43	41	43	40	42	39	41	39	38
3	45	42	39	37	41	39	37	40	36	39	36	38	35	34
4	42	38	35	33	38	35	33	37	32	36	32	35	32	31
5	40	35	32	30	35	32	30	34	29	33	29	32	29	28
6	37	33	29	27	32	29	27	31	27	31	27	30	26	26
7	35	30	27	25	30	27	25	29	24	29	24	28	24	23
8	33	28	25	23	28	25	23	27	22	27	22	26	22	22
9	31	26	23	21	26	23	21	25	21	25	21	25	21	20
10	30	24	21	19	24	21	19	24	19	23	19	23	19	18

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
CU Data Based on 20% Effective Floor Cavity Reflectance.

Note: Specifications and Dimensions subject to change without notice.

Visit our website at www.cooperlighting.com

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770 468.4801
Cooper Lighting 5925 McLaughlin Rd. Mississauga, Ontario, Canada L5R 1B8 905.507.4000 FAX 905.568.7049
ADP040649



avenue® a



FEATURES

Narrow aperture high performance T5/T5HO asymmetric wall wash.

Precision micro-optic delivers shadow free illumination from the ceiling to the floor.

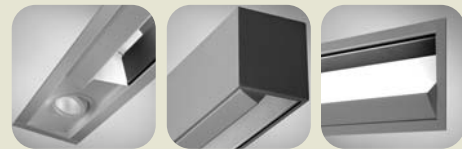
Features 2" narrow aperture for clean unobtrusive aesthetic.

Universal mounting allows compatibility for multiple grid types.

Drywall installation is available, which allows for both individual or continuous row mount capability.

Great solution for conference rooms, highlighting artwork, corridors, white board or any application that requires high levels of vertical illumination.

companion luminaire



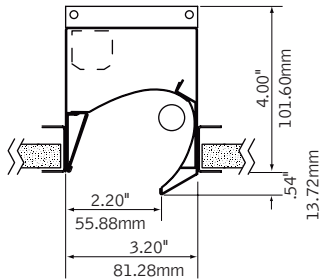
mr16

linear

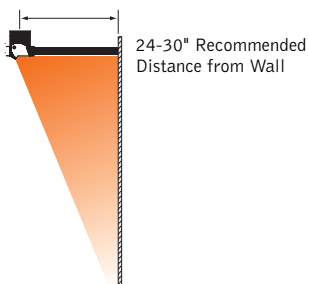
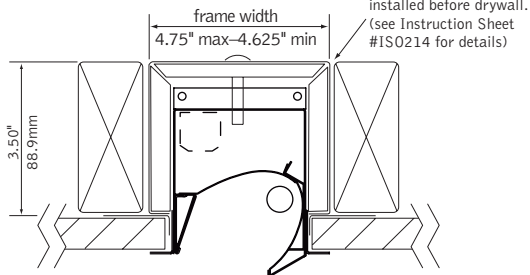
recessed wall mount

DIMENSIONAL DATA

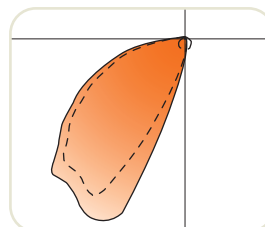
Grid Mount



Drywall Flange



PERFORMANCE



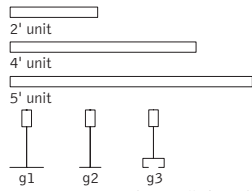
1-Lamp T5HO
57% Efficiency
1933 cd @ 25°

See **Photometric** section for additional performance data.

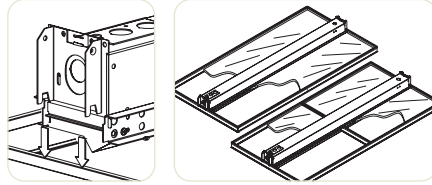
fixture type:
project name:

DETAILS

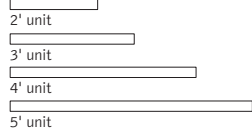
grid



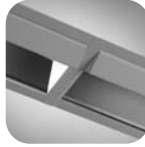
Luminaires cannot be installed in T-bar ceiling systems over 1.5".



drywall



Drywall flange version provided with mounting yoke.



row mount detail

SPECIFICATIONS

construction

One-piece 20 Ga. steel housing
Grid fixtures include 20 Ga. steel, .5" wide universal flange rail finished in matte satin white.
Drywall flange option is provided with 20 Ga. steel, .5" wide flange kit and 20 Ga. galvanized steel mounting yoke.

- 2' unit weight: 5 lbs.
- 3' unit weight: 6 lbs.
- 4' unit weight: 7 lbs.
- 5' unit weight: 8 lbs.

optic

.020" specular aluminum upper reflector and .020" semi-specular lower reflector.
24 Ga. perforated matte black diffuser with 24% opening.

electrical

Luminaires are individually wired for specified circuits.
Thru-wiring not available.
Electronic ballasts are thermally protected and have a Class "P" rating.
Optional DALI and other dimming ballasts available.
Consult factory for dimming specifications and availability.
UL and cUL listed.

emergency

Emergency battery packs provide 90 minutes of illumination.
Initial lumen output for lamp types are as follows:

- T5 Lamp: Up to 550 lumens
- T5HO Lamps: Up to 825 lumens

Battery pack requires unswitched hot from same branch circuit as AC ballast.

finish

Polyester powder coat applied over a 5-stage pre-treatment.
Standard luminaire housing finished in Matte Satin White or Matte Black.
Perforated diffuser finished in Matte Black as standard.

ORDERING

luminaire series FAVA
Avenue A FAVA

shielding _____
No Shielding, Open Optic NS

lamping _____
One Lamp T5 1T5
One Lamp T5HO 1T5HO

circuits 1C
Single Circuit 1C

voltage _____
120 Volt 120
277 Volt 277
347 Volt 347
(Consult factory for availability)

ballast _____
Electronic Program Start <10% THD S
Electronic Dimming Ballast D
(Consult factory for dimming availability)

mounting _____
15/16" Grid G1
9/16" Grid G2
9/16" Slot Tee G3
Drywall Flange F
Cut out dimensions:
2': 3.5" x 23.6"
3': 3.5" x 35.6"
4': 3.5" x 47.6"
5': 3.5" x 59.6"

factory options _____
Chicago Plenum CP
Emergency Circuit EC
Emergency Battery Pack EM
(3' & 4' Fixtures Only)
Seismic Brackets EQ
HLR/GLR Fuse FU
Include 3000K Lamp L830
Include 3500K Lamp L835
Include 4100K Lamp L841

finish _____
Matte White Housing WH
Matte Black Housing BK
(Perforated diffuser always painted black)

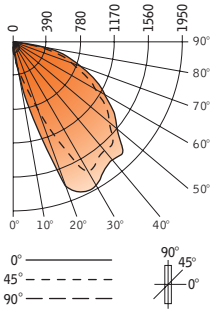
luminaire length _____
2' Nominal Housing 2'
3' Nominal Housing 3'
4' Nominal Housing 4'
5' Nominal Housing 5'
(For continuous row mount in drywall ceiling, specify luminaire run length, ie 24')

avenue® a



Filename: FAVANS1T5H.IES
 Catalog #: FAVA-NS-1T5H0-1C-120-S-G-WH-4'
 Efficiency: 57%
 Test #: 12355.0

CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	108	108	108	108	108
5°	276	256	214	154	101
15°	919	771	499	291	102
25°	1933	1873	1300	415	101
35°	1832	1799	1695	707	96
45°	1806	1775	1647	1296	88
55°	1434	1416	1329	1108	74
65°	1072	1052	962	811	56
75°	655	631	568	458	39
85°	317	294	224	129	14
90°	183	165	112	40	2
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt	
0°-30°	376	7.5	13.2	
0°-40°	784	15.7	27.4	
0°-60°	1975	39.5	69.0	
0°-90°	2861	57.2	100.0	
Total Luminaire	0°-180°	2861	57.2	100.0

focus™ 3



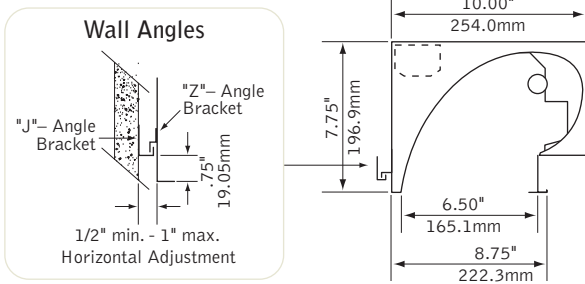
FEATURES

High performance perimeter open wall washing system.

Luminaire alignment is maintained with continuous angle and splice brackets.

Focus™ 3 offers excellent vertical illumination without shielding.

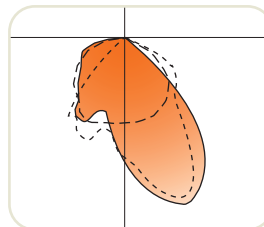
DIMENSIONAL DATA



lamping options



PERFORMANCE



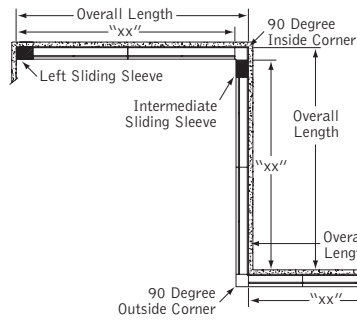
1-Lamp T8
81% Efficiency
1437cd @ 15°

See **Photometric** section for additional performance data.

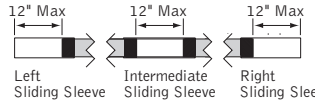
fixture type:
project name:

DETAILS

typical run layout



sliding sleeves



Fractional Dimensions up to 12" are taken up by the use of a sliding sleeve.

"J" and "Z" angle brackets must be cut to length in field.

Luminaires must be installed prior to ceiling.
Start run from corner with any standard luminaire.
Corner to corner runs end with an intermediate sleeve.

SPECIFICATIONS

construction

- 20 Ga. steel housing.
- 20 Ga. steel T-rail mates with ceiling.
- 18 Ga. internal bulkheads join fixtures.
- 18 Ga. galvanized steel splice brackets are provided to ensure precise luminaire alignment.
- 20 Ga. steel continuous wall angles are provided to ensure horizontal alignment at wall.
- Luminaires are available up to 8' nominal lengths.

4' unit weight: 36 lbs
8' unit weight: 49 lbs

optic

CNC roll-formed semi-specular .024" aluminum front reflector with specular .024" aluminum back reflector.

electrical

Electronic ballasts are thermally protected and have a Class "P" rating.
Optional DALI and other dimming ballasts available.
Consult factory for dimming specifications and availability.
UL and cUL listed.

emergency

Emergency battery packs provide 90 minutes of one lamp illumination.
Initial lumen output for lamp types are as follows:

T8 Lamps: Up to 475 lumens

Battery pack requires unswitched hot from same branch circuit as AC ballast.

finish

Polyester powder coat applied over a 5-stage pre-treatment.
Standard luminaire housing finished in High Reflectance White.

ORDERING

luminaire series FW3
Focus 3 FW3

shielding NS
No Shielding, Open Optic NS

lamping _____
One Lamp T8 1T8
Two Lamp T8 2T8

circuit _____
Single Circuit 1C
Dual Circuit (Two lamps only) 2C

voltage _____
120 Volt 120
277 Volt 277
347 Volt 347
(Consult factory for availability)

ballast _____
Electronic Instant Start <20% THD E
Electronic Program Start <10% THD S
Electronic Dimming Ballast D
(Consult factory for dimming availability)

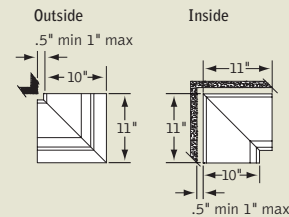
mounting RC
Recessed RC

factory options _____
Air Return AR
Emergency Circuit EC
Emergency Battery Pack EM
HLR/GLR Fuse FU
Include 3000K Lamp L830
Include 3500K Lamp L835
Include 4100K Lamp L841
Sliding Sleeve SS

finish HW
High Reflectance White HW

luminaire length _____
Designate length in feet XX'
(Nominal lengths: 2', 3', 4', 5', 6', 7', 8')
(All end caps are flat with no flange unless otherwise specified)

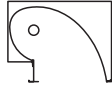
corner options _____
90-degree Inside Corner FW3-IC90
90-degree Outside Corner FW3-OC90



PERIMETER

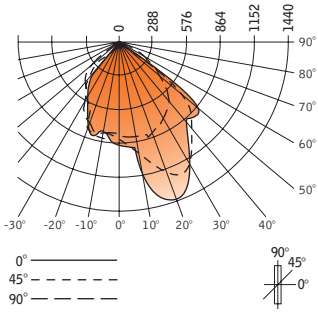
Focal Point L.L.C. 4201 South Pulaski Rd, Chicago, Illinois 60632 | T: 773.247.9494 | F: 773.247.8484 | info@focalpointlights.com | www.focalpointlights.com
Focal Point L.L.C. reserves the right to change specifications for product improvement without notification.

focus™ 3



Filename: FW3NS1T8.IES
 Catalog #: FW3-1T8-1C-120-E-RC-HW
 Efficiency: 81%
 Test #: 8761.0

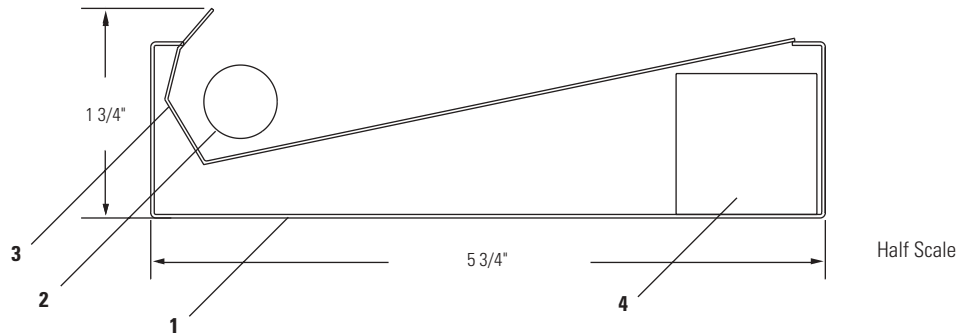
CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	22.5°	45°	67.5°	90°	
0°	1029	1029	1029	1029	1029	
5°	1106	1100	1089	1074	1020	94
15°	1437	1393	1244	1087	996	292
25°	1334	1382	1399	1131	915	471
35°	775	883	1101	1125	772	536
45°	665	622	631	948	613	440
55°	344	417	497	584	420	315
65°	22	55	223	265	252	110
75°	7	12	16	94	97	37
85°	3	3	4	7	19	6
90°	0	0	0	0	0	
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	858	30.1	37.3
0°-40°	1394	48.9	60.5
0°-60°	2149	75.4	93.3
0°-90°	2303	80.8	100.0
Total Luminaire	2303	81	100.0



Ordering Information

Style	Lamps	Length	Ballast	Voltage
CL	1			
	1 = Lamp T5	2 = 2 Foot Nominal 3 = 3 Foot Nominal 4 = 4 Foot Nominal 6 = 6 Foot Nominal 8 = 8 Foot Nominal	T5 = T5 Standard Output HO = T5 High Output	1 = 120v 2 = 277v

Features

- Housing:** Die-formed 20 gauge pre-painted white finish steel. Low profile 1 3/4" height and 5 3/4" wide.

Fixture	O.A. Length
2' nominal	22"
3' nominal	34"
4' nominal	46"
6' nominal	68"
8' nominal	92"
- Lamping:** One T5 fluorescent lamp (by others):

Fixture	T5	T5HO
2' nominal	1-FP14	1-FP24/HO
3' nominal	1-FP21	1-FP39/HO
4' nominal	1-FP28	1-FP54/HO
6' nominal	2-FP21	2-FP39/HO
8' nominal	2-FP28	2-FP54/HO
- Reflector:** Constructed of precision die-formed semi-specular aluminum. Reflector is covered with a scratch resistant protective coating to prevent damage during installation.
- Ballast:** Specify 120V or 277V. Electronic .98 ballast factor, rapid start, HPF, class "P" thermally protected.

Electrical

3 conductor, 12 gauge wire. Color-coded quick connectors allow ease of connection for joiner modules. For special circuiting, consult factory.

Options & Accessories

Dimming available, consult factory.

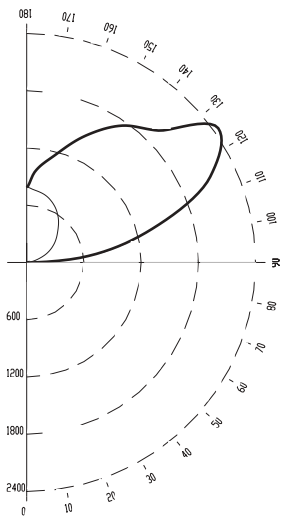
Labels

ULcUL and IBEW.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

Performance

CANDLEPOWER CURVE



REPORT NO: LRL 400-5B
 LAMPS: 1 F54T5
 LUMENS: 5000
 EFFICIENCY = 80.0%

CANDLEPOWER

Zone	>0	22	45	67	90	112	135	157	180
Deg.									
180	789	789	789	789	789	789	789	789	789
175	950	952	864	971	768	743	658	646	630
165	1169	1167	1083	983	734	589	416	380	361
155	1467	1407	1164	1013	670	435	284	275	220
145	1751	1693	1340	983	576	301	160	104	79
135	1955	1784	1412	937	460	187	53	16	15
125	2453	2390	1551	987	357	98	13	14	14
115	2124	2075	1871	815	241	17	7	7	8
105	1364	1322	1295	922	106	8	7	10	10
95	561	533	514	362	22	6	8	10	10
90	64	37	64	13	13	5	11	8	10
85	8	8	11	4	10	6	10	10	11

COEFFICIENTS OF UTILIZATION

% EFFECTIVE CEILING CAVITY REFLECTANCE

	80			70			50		
	WALL REFLECTANCE								
	70	50	30	70	50	30	50	30	10
0	76	76	76	65	65	65	44	44	44
1	69	66	63	59	57	54	39	37	36
2	63	58	53	54	49	46	34	32	30
3	57	51	45	49	43	39	30	27	25
4	52	45	39	45	38	34	26	23	21
5	48	39	33	41	34	29	23	20	18
6	44	35	29	37	30	25	21	18	15
7	40	31	25	34	27	22	19	15	13
8	37	28	22	32	24	19	17	14	11
9	34	25	20	29	22	17	15	12	10
10	32	23	18	27	20	16	14	11	9

20% FLOOR CAVITY REFLECTANCE

Distribution Summary

Zone	Lumens	% Barelamp	Luminaire
0-90	0	0	0
90-180	4002	80.0	100.00
0-180	4002	80.0	100.00

Quick Calculators & Ceiling Brightness

Readings are rounded off based on initial footcandles at center of 20' run of luminaries. Room reflectance are 80% ceiling, 50% wall and 20% floor.

T5 54W, 2 Fixtures, 2 Walls, 14" from Ceiling

Distance From Ceiling	Distance from wall						
	1'	3'	5'	7'	9'	11'	13'
14"	268	119	47	36	47	119	268
8'6"	76	81	82	82	82	81	76
9'6"	73	77	79	79	79	77	73
10'6"	70	74	76	76	76	74	70
11'6"	67	71	73	73	73	71	67
12'6"	62	66	68	68	68	66	62

T5 54W, 2 Fixtures, 2 Walls, 18" from Ceiling

Distance From Ceiling	Distance from wall						
	1'	3'	5'	7'	9'	11'	13'
18"	271	120	48	36	48	120	271
8'6"	78	83	84	84	84	83	78
9'6"	74	79	80	81	80	79	74
10'6"	71	75	77	78	77	75	71
11'6"	68	72	74	75	74	72	68
12'6"	62	65	67	68	67	65	62

T5 54W, 1 Fixture, 1 Wall, 14" from Ceiling

Distance From Ceiling	Distance from wall						
	1'	3'	5'	7'	9'	11'	13'
14"	316	86	27	15	11	9	8
8'6"	56	56	50	41	33	27	22
9'6"	52	51	47	40	33	28	23
10'6"	48	48	44	39	33	28	24
11'6"	44	44	42	37	33	28	24
12'6"	38	38	37	33	29	26	23

T5 54W, 1 Fixtures, 1 Wall, 18" from Ceiling

Distance From Ceiling	Distance from wall						
	1'	3'	5'	7'	9'	11'	13'
18"	261	109	35	18	12	10	9
8'6"	54	54	49	41	34	27	23
9'6"	49	50	46	40	34	28	24
10'6"	46	46	44	39	33	28	24
11'6"	43	43	41	37	33	28	25
12'6"	38	39	37	34	30	27	24

Maximum Candle Power: 2453 CD at 125°

Data is based on bare lamp photometrics. Dashed lines in beam spreads indicate narrow axes of oval shaped beams.

FC is initial footcandles at center of beam.

L and W are to the point that the candlepower drops 50% of maximum.

Job Information **Type:**

Lightolier a Genlyte Thomas Company www.lightolier.com
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
 We reserve the right to change details of design, materials and finish.
 © 2002 Genlyte Thomas Group LLC (Lightolier Division) • A0902

LIGHTOLIER

The Eclipse Wall Series

Indirect / Direct, Ambient Luminaire



Wall Mounted Luminaire

- Eclipse wall is the perfect complement to the Eclipse I pendant-mounted luminaire.
- Die-cast ends are regressed to maintain a shallow, floating appearance.
- 4 ft. and 8 ft. housings are available for either T8 or T5 lamps.



The Eclipse Wall Series

Specification Data

Housing

Nominal 4 ft. and 8 ft. housings fabricated from 20 gauge perforated cold-rolled steel.

Suspension

Wall mounted. Units may be continuously rowed.

Shielding

Integral perforated panel(s) with soft white acrylic overlay(s).

Ends and Connectors

Die-cast aluminum ends. Steel connectors.

Reflector

Die formed cold-rolled steel with 89% reflectance white finish.

Finish

Standard finish: matte white. Please specify other finishes.

Lamps

(1) or (2) FO32T8: (1) or (2) F28T5: (1) or (2) F54T5HO. lamps provided by others.

Ballast

Electronic. Please specify voltage.

Certification

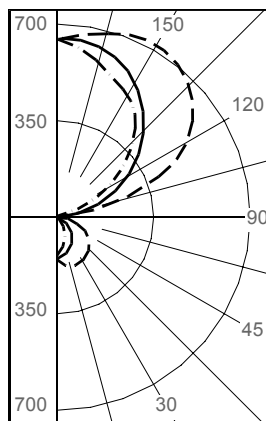
U.L. listed, I.B.E.W. (Local 3) Union made in the U.S.A.

Ordering Information

<input type="text"/>	Product Family EC = Eclipse
<input type="text"/>	Mounting W = Wall
<input type="text"/>	Wattage (consult factory for other lamps) 1-FO32WT8 1-54WT5HO 2-FO32WT8 2-54WT5HO 1-28WT5 2-28WT5
<input type="text"/>	Ballast EB = Electronic
<input type="text"/>	Voltage 120 or 277
<input type="text"/>	Lengths 4 FT. (nom.) 8 FT. (nom.)
<input type="text"/>	Designation IND = Individual BOR = Beginning of Row INT = Intermediate EOR = End of Row
<input type="text"/>	Options RFI = Radio Interference Filter GLS = GLR Fuse & HLR Holder

Photometrics

Floor	20%											
	80%				70%				50%			
Ceiling												
Walls	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	
0	.86	.86	.86	.86	.75	.75	.75	.75	.55	.55	.55	
1	.78	.74	.71	.68	.68	.65	.63	.60	.48	.46	.45	
2	.71	.65	.60	.56	.62	.57	.53	.49	.42	.39	.37	
3	.65	.57	.51	.46	.56	.50	.45	.41	.37	.34	.31	
4	.59	.50	.44	.39	.51	.44	.39	.35	.33	.29	.26	
5	.54	.45	.38	.33	.47	.39	.34	.30	.29	.25	.23	
6	.50	.40	.33	.28	.43	.35	.29	.25	.26	.22	.20	
7	.46	.36	.29	.25	.40	.32	.26	.22	.24	.20	.17	
8	.42	.32	.26	.22	.37	.28	.23	.19	.21	.18	.15	
9	.39	.29	.23	.19	.34	.26	.21	.17	.19	.16	.14	
10	.36	.27	.21	.17	.32	.24	.19	.15	.18	.14	.12	



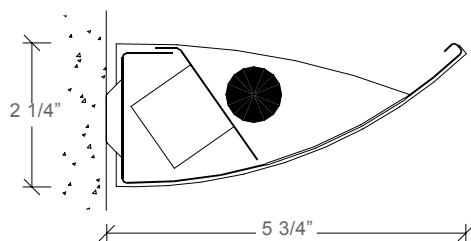
Catalog Number
ECW-1FO32WT8-120-4

Report Number
ITL47452

Lamps
(1) F32T8/SPX35 each rated 2950 lumens

Total Efficiency
86.6%

Fixture Details (schematic)



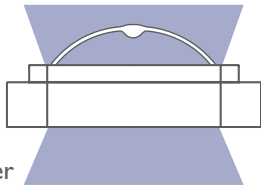
PRODUCT ORDERING CODES

product id	center optics	length / ft	lamp	lamp config	finish	up light	down light	ballast	voltage	circuits	suspension	hanger	other	custom
CU	PL	4	T8	3	A	0*	0*	E	120	I	CA36	C	F	C
CU wide CUB narrow +W wall +S surface		4 8 12 S# system	1 one lamp 2 two lamps 3 three lamps (CU only)		A aluminum W white C custom	0 1 2 3		E electronic ERS rapid start D dimming (specify details)	120 277 347	I one circuit 2 two circuits +E em. circuit	CA# cable (36" std) CT# cable / c-bar SA# stem (18" std) (length / inch)	C cable D diecast (CU only) +SM seismic	F fuse (one per ballast)	C custom description
	SB white solid baffle PL spec. para. louver P perf S slotted B blank F frosted diffuser		T8 32w T5 28w T5HO 54w				0 1 2 3 4 HP FP BK							

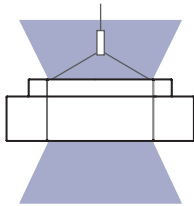
sample
ordering options

*Please refer to Light Distribution Guide for up / down light reflectors specifications. For use with **SB** or **PL** center optics only.

FIXTURE CONFIGURATIONS

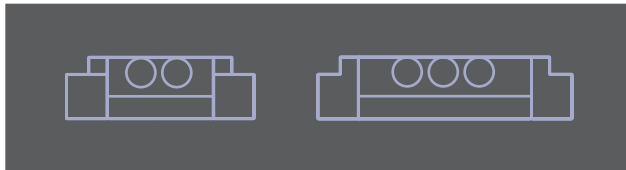


CUBIC / CU
Die-Cast Hanger
or Cable Hanger

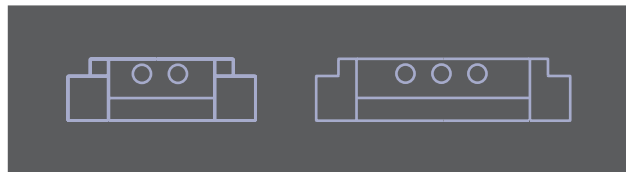


CUBIC / CUB
Cable Hanger
ONLY

LAMP CONFIGURATIONS



1, 2 or 3 (**CU** only) x T8



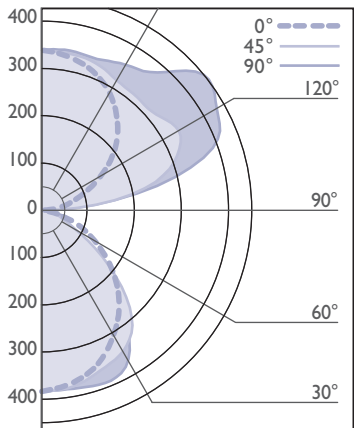
1, 2 or 3 (**CU** only) x T5 or T5HO

PHOTOMETRICS

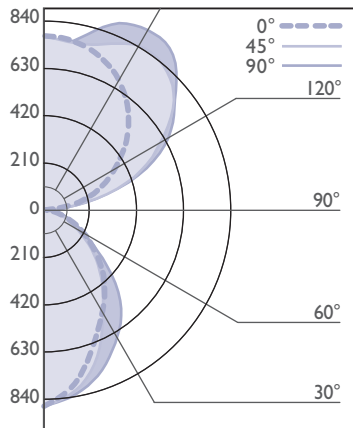
Site specific lighting calculations and electronic photometric data are available at www.axislighting.com

CUBIC™ Candlepower Distribution

Photopia Electronic Simulation
Test Lamps: 1 x F32T8 Fluorescent
CUB-PB-4-T8-1 direct / indirect
w/ MIRO Interior Reflectors **Efficiency : 89%**



Photopia Electronic Simulation
Test Lamps: 2 x F32T8 Fluorescent
CUB-PB-4-T8-2 indirect/direct
Efficiency : 85%



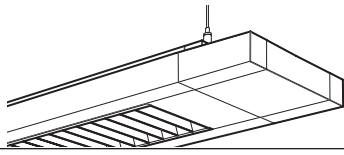
Illuminance (Footcandles)

Sample Typical
Code: 2 x CUB-PB-24-T8-2 Reflectances:
(2x 24' w/ perf. baffles) Ceiling 80%
Test Lamps: 2 x F32T8 Walls 50%
Light Loss Factor: 0.8 Floor: 20%

Sample Room Layout
30' x 30' x 9' with work plane @ 2.5' AFF

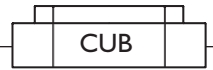
20	21	26	32	35	34	31	28	31	34	35	32	26	21	20
20	23	31	42	50	45	37	32	37	45	50	42	31	23	20
22	26	38	55	67	58	45	38	45	58	67	55	38	26	22
23	28	43	62	76	66	51	43	51	66	76	62	43	28	23
24	30	45	66	81	70	54	46	54	70	81	66	45	30	24
25	31	47	68	83	72	56	48	56	72	83	68	47	31	25
26	32	48	70	85	74	58	50	58	74	85	70	48	32	26
25	32	48	69	84	74	58	49	58	74	84	69	48	32	25
26	32	48	70	85	74	58	50	58	74	85	70	48	32	26
25	31	47	68	83	72	56	48	56	72	83	68	47	31	25
24	30	45	66	81	70	54	46	54	70	81	66	45	30	24
23	28	43	62	76	66	51	43	51	66	76	62	43	28	23
22	26	38	55	67	58	45	38	45	58	67	55	38	26	22
20	23	31	42	50	45	37	32	37	45	50	42	31	23	20
20	21	26	32	35	33	30	28	30	33	35	32	26	21	20





Fixture A11 Page 24
CUB SAMPLE ROOM LAYOUT
2 x F54T5HO

CUBIC



FIXTURE CODE CUB-SB-T5HO-2-0-0-CA18

SAMPLE TYPICALS Test Lamps: **2 x F54T5HO** Reflectances: Ceiling **80%** Suspension Length: **3'**
 Infill Pattern: **Solid Baffles** Walls **50%** Ceiling Heights: **12'**
 Light Loss Factor: **0.8** Floor **20%**

ROOM SIZE: 10' x 10' x 12'

FIXTURE LAYOUT: 1 x 4' FIXTURE PLAN VIEW

23	24	25	27	28	28	27	25	24	23
24	26	28	30	32	32	30	28	26	24
26	28	31	34	36	36	34	31	28	26
28	31	34	38	40	40	38	34	31	28
29	32	36	40	43	43	40	36	32	29
29	32	35	40	42	42	40	35	32	29
28	30	33	37	39	39	37	33	30	28
26	27	30	33	34	34	32	30	27	26
24	25	27	29	30	30	29	27	25	24
22	23	25	26	27	27	26	25	23	22

Ave.: 30.5
Max.: 42.9
Min.: 22.3
Std.Dev.: 5.4

EAST VIEW

22	27	32	37	39	39	35	31	26	21
21	25	29	33	36	35	32	28	24	20
15	18	20	22	23	23	21	19	17	15
13	16	17	18	19	19	18	16	15	13
14	16	17	19	19	19	18	17	15	13
14	16	18	19	20	20	19	17	15	14
14	16	17	19	20	20	19	17	15	14
14	16	17	19	20	19	18	17	15	13
13	15	16	18	19	18	17	16	14	13
12	14	15	16	16	16	16	14	13	12
12	12	13	14	15	15	14	13	12	11
10	11	12	13	13	13	12	12	11	10

Ave.: 18.1
Max.: 39.2
Min.: 18.1
Std.Dev.: 6.3

ROOM SIZE: 30' x 20' x 12'

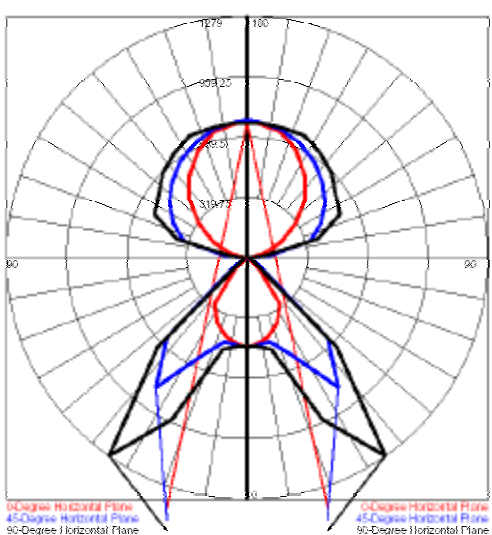
FIXTURE LAYOUT: 2 x 20' FIXTURES PLAN VIEW

23	24	26	28	30	33	35	37	39	40	41	42	44	44	43	43	43	43	41	40	39	37	35	33	30	28	26	24	23		
24	25	26	28	31	34	36	38	40	42	43	44	45	45	45	45	44	43	42	40	38	36	34	31	28	26	25	24			
24	25	26	29	31	35	37	39	42	43	45	46	47	47	47	47	46	45	43	42	39	37	35	32	29	27	25	24			
24	25	27	29	32	36	38	41	43	45	46	47	49	49	49	49	48	47	45	43	41	38	36	33	30	27	25	24			
25	26	28	30	33	37	39	42	44	46	48	49	50	50	50	50	49	48	46	44	42	39	37	34	30	28	26	25			
25	26	28	30	33	37	39	42	45	47	48	49	51	51	51	51	49	48	47	45	42	40	37	34	30	28	26	25			
25	26	28	30	33	37	39	42	45	47	48	49	51	51	51	51	50	48	47	45	42	40	37	34	31	28	26	25			
25	26	28	31	34	37	40	43	45	47	49	50	51	52	52	52	51	50	49	47	45	43	40	37	34	31	28	26	25		
25	26	28	31	34	37	39	42	45	47	48	50	51	51	51	51	50	49	47	45	42	40	37	34	31	28	26	25			
25	27	29	31	34	37	40	43	45	47	49	50	52	52	52	52	51	50	49	47	45	43	40	37	34	31	29	27	25		
25	27	29	31	34	37	40	43	45	47	49	50	52	52	52	52	50	49	47	45	43	40	37	34	31	29	27	25			
25	27	28	31	34	37	40	43	45	47	49	50	51	52	52	52	51	50	49	47	45	43	40	37	34	31	29	27	25		
25	26	28	31	34	37	40	42	45	47	48	50	51	51	51	51	50	49	47	45	43	40	37	34	31	28	26	25			
25	26	28	30	33	37	39	42	45	47	48	49	51	51	51	51	49	48	47	45	42	40	37	34	30	28	26	25			
24	26	28	30	33	37	39	42	44	46	48	49	50	50	50	50	49	48	46	44	42	39	36	34	30	28	26	24			
24	25	27	30	33	36	38	41	43	45	47	48	49	49	49	49	48	47	45	43	41	39	36	33	30	27	25	24			
24	25	27	29	32	35	37	40	42	44	45	46	47	47	47	47	46	45	44	42	40	37	35	32	29	27	25	24			
23	24	26	28	31	33	35	38	40	42	43	44	45	45	45	45	44	43	42	40	38	36	33	31	28	26	24	23			
23	24	26	28	30	33	35	37	39	40	41	42	44	44	43	43	43	43	41	40	39	37	35	33	30	28	26	24	24		

Ave.: 37.9
Max.: 51.8
Min.: 23.2
Std.Dev.: 9.1

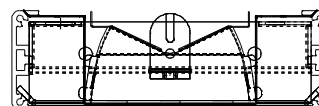
A1 Series

Type



arcature¹

Direct/Indirect Suspended Luminaire



A1AHUPODT

Construction - Aluminum extrusion and milled aluminum end plates.

Mounting - Suspended.

Shielding Down/Up - a · parabola™ parabolic louver / Open Aperture

Ballast - 120-227V universal, low profile electronic, high power factor, sound rating A, inherent thermal protection, UL listed Class P, <10% THD. Dimming by specification.

UL Approved - Certified Test 8025B.IES

F54T5HO 1 Lamp 5000 Lumens

CANDELA TABULATION

	0	22.5	45	67.5	90
0	475	475	475	475	475
5	470	473	474	472	471
15	437	441	465	493	504
25	380	405	572	844	945
35	305	402	841	1182	1279
45	89	226	601	695	673
55	8	17	72	47	34
65	7	12	12	12	13
75	7	9	9	8	8
85	6	7	8	6	7
90	7	7	8	7	7
95	27	76	111	94	85
105	94	185	349	376	386
115	201	271	429	503	546
125	314	374	504	554	573
135	433	468	563	613	637
145	533	552	623	666	676
155	622	633	665	701	714
165	689	695	705	713	713
175	714	720	722	721	718
180	717	725	727	720	717

LUMINANCE DATA (cd/m)

Angle in Degrees	Average 0-Degree	Average 45-Degree	Average 90-Degree
45	535	3801	5130
55	54	516	314
65	55	103	159
75	69	100	150
85	83	131	305

ZONAL LUMEN SUMMARY

Zone°	Lumens	% Lamp	% Fixture
0-30	475.0	9.5	11.9
0-40	939.36	18.8	23.6
0-60	1373.77	27.5	34.5
0-90	1405.24	28.1	35.3
90-120	776.34	15.5	19.5
90-130	1196.7	23.9	30.1
90-150	1999.76	40.0	50.3
90-180	2573.71	51.5	64.7
0-180	3978.95	79.6	100.0

Total Luminaire Efficiency = 79.6%
VCP = 99-100

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.2

RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	82	82	82	82	75	75	75	75	60	60	60	46	46	46	34	34	34	28	28	28	28
1	76	73	70	68	69	66	64	62	54	52	51	42	41	40	31	31	30	25	25	25	25
2	70	65	60	57	63	59	55	52	48	45	43	38	36	35	28	27	27	22	22	22	22
3	64	57	52	48	58	52	48	44	43	40	37	34	32	30	26	25	23	20	20	20	20
4	59	51	45	41	53	47	42	38	38	35	32	31	28	26	23	22	21	18	18	18	18
5	54	46	40	35	49	42	37	33	35	31	28	28	25	23	21	20	18	16	16	16	16
6	50	41	35	31	45	38	32	29	31	27	24	25	22	20	19	18	16	14	14	14	14
7	46	37	31	27	42	34	29	25	28	24	22	23	20	18	18	16	15	12	12	12	12
8	43	34	28	24	39	31	26	22	26	22	19	21	18	16	16	14	13	11	11	11	11
9	40	31	25	21	36	28	23	20	23	20	17	19	16	14	15	13	12	10	10	10	10
10	37	28	22	19	34	26	21	18	22	18	15	18	15	13	14	12	11	9	9	9	9

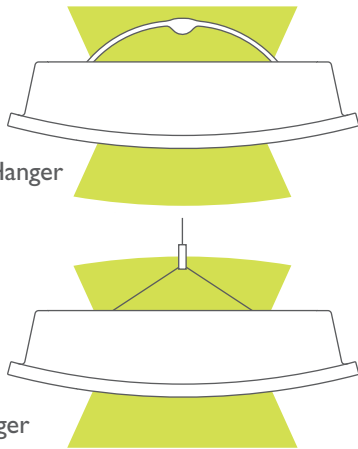
PRODUCT ORDERING CODES

product id	center optics	length / ft	lamp	lamp config.	finish	up light	down light	ballast	voltage	circuits	suspension	hanger	other	custom
L2	PL	4	T8	2	A	0*	0*	E	120	I	CA36	C	F	C
L2 +W +S	pendant wall surface	4 8 12 S# system	1 one lamp 2 two lamps 3 three lamps 4 four lamps (T5 / TSHO only)		A aluminum W white C custom	0 1 2 3		E electronic ERS rapid start D dimming (specify details)	120 277 347	I one circuit 2 two circuits +E em. circuit	CA# cable (36" std) CT# cable / t-bar SA# stem (18" std) (length / inch)	C cable D diecast +SM seismic	F fuse (one per ballast)	C custom description
SB PL E P S B F	white solid baffle spec. para. louver ellipse perf slotted blank frosted diffuser		T8 32w T5 28w TSHO 54w			0 1 2 3 4 HP FP BK								

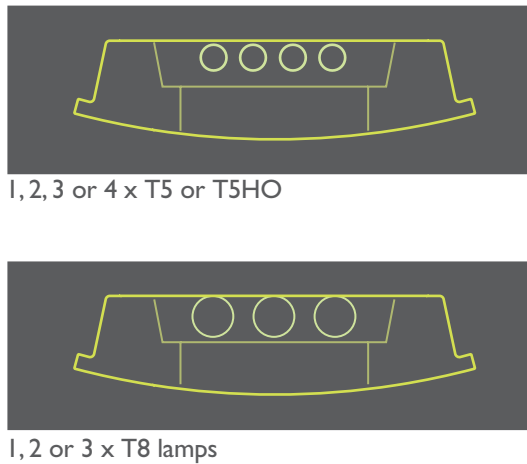
sample ordering options

*Please refer to Light Distribution Guide for up / down light reflectors specifications. For use with SB or PL center optics only.

FIXTURE CONFIGURATIONS



LAMP CONFIGURATIONS



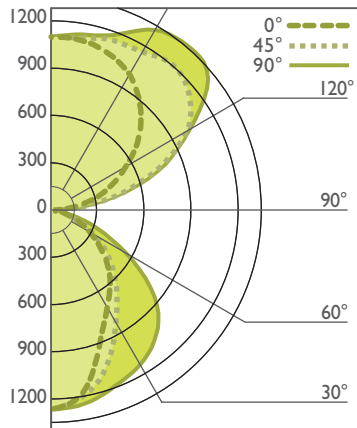
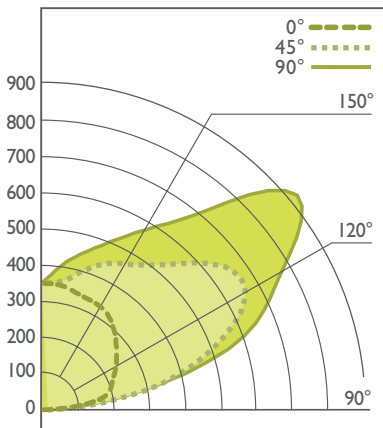
PHOTOMETRICS

Site specific lighting calculations and electronic photometric data are available at www.axislighting.com

LINEA L2™ Candlepower Distribution

Photopia Electronic Simulation
Test Lamps: 1 x F32T8 Fluorescent
L2-B-4-T8-1 completely indirect
w/ MIRO Interior Reflectors Efficiency : 91.5%

Photopia Electronic Simulation
Test Lamps: 3 x F32T8 Fluorescent
L2-PB-4-T8-3 indirect/direct
Efficiency : 87.5%



Illuminance (Footcandles)

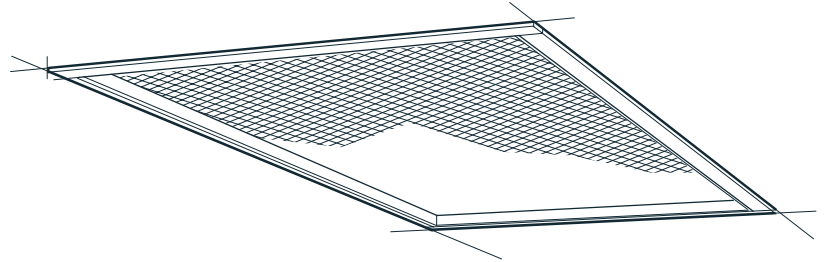
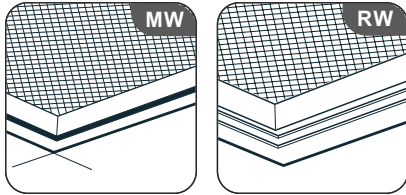
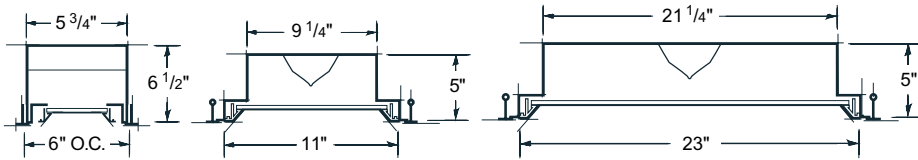
Sample Typicals
Code: 2 x L2-PB-24-T8-3 Reflectances:
(2 x 24' curved w/ perf. baffles) Ceiling 80%
Test Lamps: 3 x F32T8 Walls 50%
Light Loss Factor: 0.8 Floor: 20%

Sample Room Layout

30' x 30' x 9' w/ work plane @ 2.5' AFF

31	34	42	49	54	52	48	45	48	52	54	49	42	34	31
32	37	50	65	74	69	59	53	59	69	74	65	50	37	32
36	43	61	84	98	89	73	64	73	89	98	84	61	43	36
38	47	68	95	112	101	82	72	82	101	112	95	68	47	38
40	50	72	100	118	107	88	77	88	107	118	100	72	50	40
41	51	75	104	122	111	91	80	91	111	122	104	75	51	41
42	53	77	106	125	114	94	83	94	114	125	106	77	53	42
41	51	75	104	122	111	91	80	91	111	122	104	75	51	41
40	50	72	100	118	107	88	77	88	107	118	100	72	50	40
38	47	68	95	112	101	82	72	82	101	112	95	68	47	38
36	43	61	84	98	89	73	64	73	89	98	84	61	43	36
32	37	50	65	74	69	59	53	59	69	74	65	50	37	32
31	34	41	49	54	52	48	45	48	52	54	49	41	34	31





ordering

series	lamp rows	shielding	frame style/color	reflector system	circuiting	voltage	ceiling system	options
P-8604 6" x 4'	1T8 2T8	PRA* prismatic acrylic lens	DW flush frame (steel) white <u>or</u>	W* white S† specular	SC single circuit	120 277	X1* T-bar (exposed)	AL 20G
P-8614 1' x 4'	2T8 3T8 4T8	P19A prismatic acrylic lens, pattern 19	DB black SW flush frame (aluminum) white <u>or</u>	*standard †available on series P-8614, P8622 & P-8625, 2- or 3-lamp only	DC* dual circuit	347	X3A† hard ceiling (swing arm)	PAF CR
P-8622 2' x 2'	2T8 2T8U6 2BX_w*	PWS minicube louver-silver (1/2" x 1/2" x 1/2")	SB black		*2-lamp minimum		X3B hard ceiling (overhead mounting brackets)	EML* EMH*
P-8624* 2' x 4'	2T8 3T8 4T8 6T8	PW2S minicube louver-silver (1 1/2" x 1 1/2" x 1")	RW 1/2"-deep regressed frame (aluminum) white <u>or</u>				X4B hard ceiling ("C" channel)	DM RSE
P-8633 3' x 3'	4T8 6T8	WA white acrylic diffuser *standard	RB black				X5A T-bar (concealed)	B__ SC
P-8644 4' x 4'	4T8 6T8 8T8		MW regressed frame (aluminum) with black reveal					2SC TRS MR FH 1PL†

*see options to specify master-remote wiring
*biax, specify 39w, 40w, 50w or 55w

Note: Fixture body flange finished in white enamel on mounting styles x3A, x3B & x4B.

*consult factory for fixture lengths < 4'
†P-8644 only

Applications Corridors, offices, retail, healthcare, schools.

Features A premium-quality lensed troffer with 5"- deep body. This versatile fixture is available in various lamp types and can be used in most grid styles or ceiling types. A .110 prismatic acrylic lens is standard, but numerous lenses can be accommodated. It features mitered door corners, spring-loaded latches and reversible hinges. The heavy-duty doorframe is available in four styles: 1/2" regressed aluminum, flat aluminum, flat steel or floating 1/2" regressed aluminum. It can also be fitted with stainless steel flanges and doorframes.

Construction The body, available in 6" x 4', 1' x 4', 2' x 2', 2' x 4', 3' x 3' and 4' x 4', is constructed of die-formed, 22-gauge steel.

Finish The standard housing color is white enamel (BWE). Specify painted after fabrication (PAF) in "options" for gloss white (YGW) polyester powder paint. The standard doorframe color is gloss white (YGW) or matte black (YBB) as specified in ordering matrix.

Electrical T8 fixtures have instant-start electronic ballasts with less than 20% THD. Fixtures are U.L. Damp labeled (non-emergency) and I.B.E.W. manufactured. Maximum ballast size available: 2 3/8" width x 1 1/2" height.

Mounting Fixture is to be recess-mounted into exposed T-bar, concealed T-bar or hard ceiling application(s).

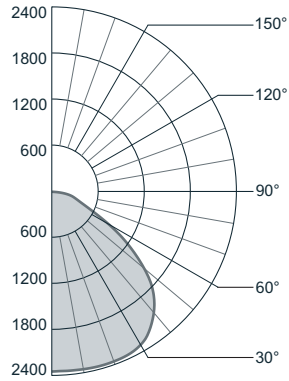
Options **AL**: aluminum body; **20G**: 20-gauge housing; **PAF**: painted after fabrication; **CR**: continuous-row installation; **EML**: emergency battery (T8=600 lumens; BX=600-700 lumens); **EMH**: emergency battery (T8=1200 lumens; BX=900-1100 lumens); **DM**: dimming (consult factory); **RSE**: rapid-start electronic; **10THD**: ballast with < 10% total harmonic distortion; **B__**: specific ballast, specify manufacturer and catalog number (consult factory); **SC**: side-mounted ballast; **2SC**: double side-mounted ballast; **TRS**: tamper-resistant screws; **MR**: master remote with 11' whip; **FH**: fixture fusing (slow blow); **1PL**: one-piece lens (P-8644 only).

P-8600 Recessed

photometric data

P-8624-3T8-PRA-RW-W

Report # LSI15389 D=100.0% I=0.0%
Spacing Criteria: Along 1.3; Across 1.4
Lamp Lumens: 2950 Input Watts: 90



Candlepower Summary

Vertical Angle	Horizontal Angle					Output Lumens
	0°	22.5°	45°	67.5°	90°	
0	2355	2355	2355	2355	2355	228
5	2352	2351	2350	2355	2355	
10	2324	2329	2340	2355	2362	656
15	2277	2290	2322	2352	2368	
20	2210	2233	2292	2345	2367	1033
25	2123	2161	2249	2325	2358	
30	2015	2067	2188	2280	2319	1288
35	1874	1949	2096	2188	2224	
40	1694	1786	1940	2029	2076	1297
45	1476	1560	1731	1824	1881	
50	1219	1274	1441	1528	1590	994
55	945	1011	1142	1189	1236	
60	719	774	848	886	873	570
65	534	547	561	594	566	
70	382	374	348	395	398	291
75	269	264	247	279	308	
80	195	181	195	193	225	102
85	97	94	91	99	97	
90	0	0	0	0	0	

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	72.97	100.00
90-180	0.00	0.00

Efficiency = 73.0%

Luminance Summary (cd/m²)

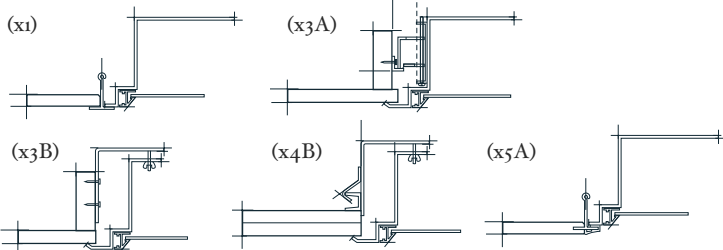
Angle	0°	45°	90°
45	3051	3591	3902
55	2407	2921	3162
65	1848	1946	1964
75	1521	1396	1747
85	1634	1536	1638

Coefficients of Utilization (%)

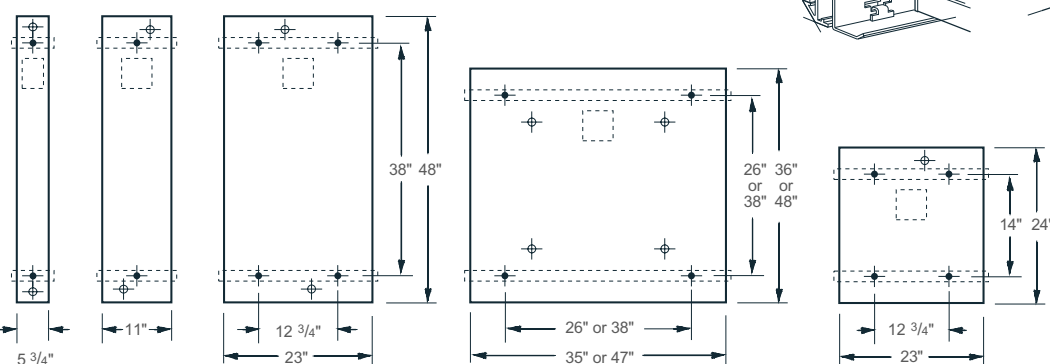
Floor Ceiling Wall	effective floor cavity reflectance = .20											
	80	70	50	30	10	70	50	30	10	50	30	10
RCR 0	87	87	87	87	85	85	85	85	81	81	81	81
1	80	77	75	72	79	76	73	71	73	71	69	69
2	74	69	65	61	72	68	64	60	65	62	59	59
3	68	61	56	52	67	60	56	52	58	54	51	51
4	63	55	49	45	61	54	49	45	52	48	44	44
5	58	49	43	38	56	48	42	38	47	42	38	38
6	53	44	38	34	52	43	38	33	42	37	33	33
7	49	40	34	29	48	39	33	29	38	33	29	29
8	45	35	30	25	44	35	29	25	34	29	25	25
9	42	32	26	22	41	31	26	22	31	25	22	22
10	38	29	23	19	38	28	23	19	28	23	19	19




installation

Ceiling Systems



Mounting Locations



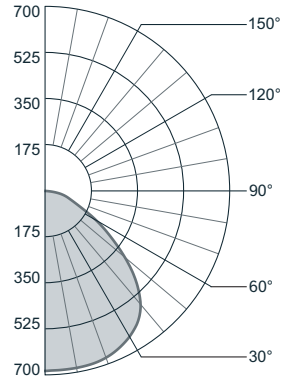
-  Mounting Hole
-  7/8" Wiring K.O.
-  J-Box Access

Framing Dimensions X3A, X3B & X4B
Add 1/2" in fixture length
Add 1/8" in fixture width
For rows add 1" in total fixture lengths

photometric data

P-8622-2T8-PRA-DW-W

Report # LSI16356 D=100.0% I=0.0%
Spacing Criteria: Along 1.2; Across 1.4
Lamp Lumens: 1325 Input Watts: 36



Candlepower Summary

Vertical Angle	Horizontal Angle					Output Lumens
	0°	22.5°	45°	67.5°	90°	
0	682	682	682	682	682	66
5	682	680	680	682	681	
10	672	672	676	681	681	188
15	656	658	667	677	680	
20	632	637	653	669	674	290
25	602	610	633	653	661	
30	561	573	603	629	641	349
35	512	525	561	595	614	
40	451	464	503	542	568	333
45	378	392	435	472	496	
50	305	321	366	395	406	252
55	244	253	289	310	313	
60	188	188	204	227	234	143
65	140	131	129	151	163	
70	104	93	80	103	117	75
75	75	68	58	74	90	
80	51	45	46	52	62	25
85	21	21	21	25	26	
90	0	0	0	0	0	

Zonal Lumen Summary

Zone	% Lamp	% Luminaire
0-90	64.99	100.00
90-180	0.00	0.00

Efficiency = 65.0%

Luminance Summary (cd/m²)

Angle	0°	45°	90°
45	1671	1932	2205
55	1331	1582	1717
65	1035	960	1210
75	912	708	1091
85	754	749	945

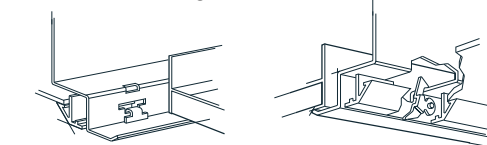
Coefficients of Utilization (%)

Floor Ceiling Wall	effective floor cavity reflectance = .20											
	80	70	50	30	10	70	50	30	10	50	30	10
RCR 0	77	77	77	77	76	76	76	76	72	72	72	72
1	72	69	67	65	70	68	66	64	65	63	62	62
2	66	62	58	55	65	60	57	54	58	55	53	53
3	61	55	51	47	60	54	50	47	52	49	46	46
4	56	50	44	41	55	49	44	40	47	43	40	40
5	52	44	39	35	51	44	38	35	42	38	34	34
6	48	40	35	31	47	39	34	30	38	34	30	30
7	44	36	31	27	43	35	30	27	34	30	27	27
8	41	32	27	23	40	32	27	23	31	26	23	23
9	38	29	24	20	37	29	24	20	28	23	20	20
10	35	26	21	18	34	26	21	18	25	21	18	18

Frame Styles



Doorframe Latching



In an effort to continually provide the highest quality products, Prudential reserves the right to change design specifications and/or materials, without notice.

DESCRIPTION

Low brightness 7 3/8" aperture reflector for use with 26W, 32W or 42W Triple tube 4-pin lamps. The deeply regressed lens provides superb shielding in comparison to shallow lenses. Reflector trim eliminates brightness at higher angles. Choice of lens types for various aesthetics. Standard features include low iridescent finish on all reflector colors (to eliminate "rainbowing") and one electronic ballast. Venting ensures maximum lamp life and lumen output. Optics offer unparalleled performance in glare free lighting with a smooth beam devoid of hot spots; its performance rivals that of larger aperture twin tube and quad tube units. Medium beam, wide beam and open wall wash trims are interchangeable within the same housing.

SPECIFICATION FEATURES

A...Reflector

Low iridescent Alzak® finishes in specular clear, warm haze, straw, warm haze, wheat or painted gloss white, .050" thick aluminum, in a one piece spun macrofocal parabolic contour. Positive reflector mounting pulls trim tight to ceiling. Other finish options available upon request.

B...Lens

Choice of tempered fresnel, prismatic, diffuse, or clear glass lenses or molded prismatic acrylic, opal diffuser or clear UV stabilized acrylic. Lens is fixed to lower reflector.

C...Socket Cap

One piece vented and finned die cast aluminum cap for maximum thermal performance.

D...Housing Mounting Frame

One piece precision die cast aluminum 1 1/2" deep collar accommodates varying dimensions of ceiling materials.

E...Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, T bar fasteners, and bar hangers. Adjusts 5" vertically from above or below ceiling.

F...Conduit Fittings

Die cast screw tight connectors.

G...Junction Box

Listed for eight #12AWG (four in, four out) 90°C conductors feed through branch wiring. 1/2" and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing reflector.

H...Socket

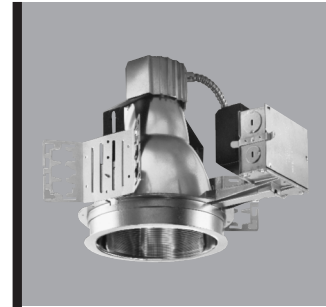
4 pin GX24q-3/4 base with fatigue free stainless steel lamp spring ensures positive lamp retention.

I...Electronic Ballast

Thermally protected, fused, electronic ballast provides full light output and rated lamp life. Provides flicker free and noise free operation and starting. End of lamp life protection is standard.

Labels

U.L. and cUL listed, standard wet label



**C7042
7080**

**26W, 32W, 42W Triple
Compact Fluorescent**

7-3/8" VERTICAL LENSED REFLECTOR

26W Triple 4-pin

Ballast: Electronic
120V Input Watts: 29
Line Amps: 0.25
277V Input Watts: 29
Line Amps: 0.10
Power Factor: >.99 THD: <10%
Min Starting Temp.: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin

Ballast: Electronic
120V Input Watts: 36
Line Amps: 0.32
277V Input Watts: 36
Line Amps: 0.16
Power Factor: >.99 THD: <10%
Min Starting Temp.: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin

Ballast: Dimming
120V Input Watts: 38
Line Amps: 0.31
277V Input Watts: 37
Line Amps: 0.13
Power Factor: >.95 THD: <20%
Min Starting Temp.: 10°C (50°F)
Sound Rating: A

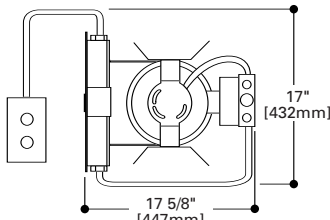
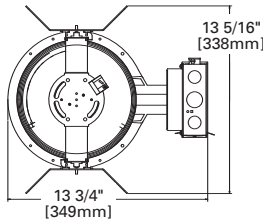
42W Triple 4-pin

Ballast: Electronic
120V Input Watts: 48
Line Amps: 0.32
277 Input Watts: 48
Line Amps: 0.18
Power Factor: >.99 THD: <10%
Min. Starting Temp: -10°C (15°F)
Sound Rating: A

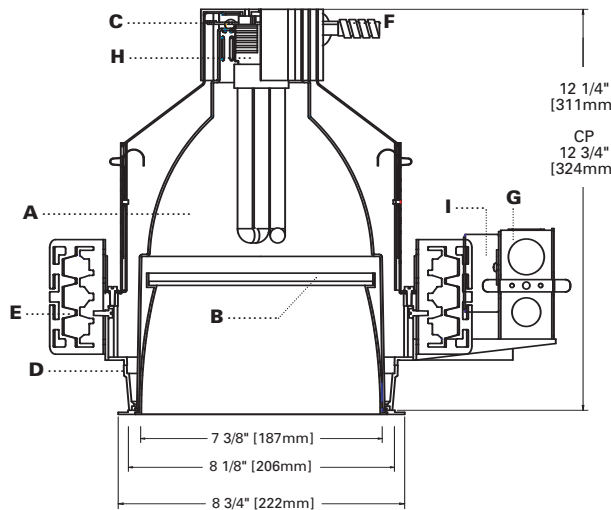
NOTES:

Accessories should be ordered separately. For additional options please consult your Cooper Lighting Representative. Alzak is a registered trademark of Aluminum Company of America. Hi-Lume is a registered trademark of Lutron Co. Inc.

TOP VIEW



(with EM Option)

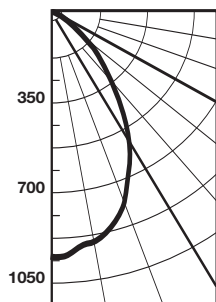


ORDERING INFORMATION: Complete unit consists of housing, ballast and trim.

Housing	Ballast	Options	Trims	Finish	Lens	Options	Accessories
C7042							
<p>C7042= (1) 26W Vertical DTT Lamp</p> <p>(1) 26W Vertical TTT Lamp</p> <p>(1) 32W Vertical TTT Lamp</p> <p>(1) 42W Vertical TTT Lamp</p>	<p>E=120V - 277V 50/60 Hz Electronic 3E=347V 50/60 Hz Electronic 1D26=26W 120V Dimming, Lutron® Compact SE 1D32=32W 120V Dimming, Lutron® Compact SE 1D42=42W 120V Dimming, Lutron® Compact SE 2D26=26W 277V Dimming, Lutron® Compact SE 2D32=32W 277V Dimming, Lutron® Compact SE 2D42=42W 277V Dimming, Lutron® Compact SE EDR26=DeRated Wattage Label, 26W EDR32=DeRated Wattage Label, 32W</p>	<p>CP=Chicago Plenum option EM=Emergency module with remote test switch</p>	<p>7080=Reflector, Polymer Trim Ring, White 7081=Reflector, Self Flanged</p>	<p>LI=Low Iridescent Clear H=Haze S=Straw WH=Wheat WMH=Warm Haze W=White BB=Black Baffle WB=White Baffle (7080 only)</p>	<p>1=Prismatic Acrylic 2=Diffuse Acrylic 3=Clear Polycarbonate 1G=Prismatic Glass 2G=Diffuse Glass 3G=Clear Glass 4G=Fresnel Glass</p>	<p>WF=White Painted Flange (Self Flanged only)</p>	<p>HB26=C Channel Bar Hanger, 26" Long, Pair HB50=C Channel Bar Hanger, 50" Long, Pair RMB22=Wood Joist Bar Hanger, 22" Long, Pair HSA7=Slope Adapter for 7" Aperture Housings, Specify Slope FK5=Field Installed Fuse Kit, 5 Amp</p>

PHOTOMETRICS

Candlepower Distribution



Test No. H23404
C7042 7080L14G

Lamp=42W TTT
Lumens=3200
Spacing
Criterion=1.0
Efficiency=41.6%

Candlepower

Deg.	CD
0	932
5	924
15	867
25	706
35	481
45	293
55	135
65	12
75	4
85	2
90	0

Average Luminance

Deg.	CD/SQ M
45	15019
55	8524
65	987
75	603
85	707

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
6'0"	26	6.0'
7'0"	19	7.0'
8'0"	15	7.5'
10'0"	9	10.0'
12'5"	6	12.0'
15'0"	4	14.5'

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Reflector Multiplier: Haze=.95 Straw=.9 Wheat=.9
EM Multiplier (in emergency mode) EM=.27

Zonal Lumen Summary

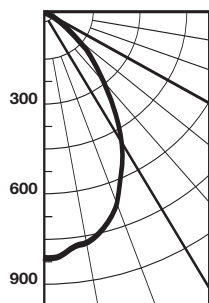
Zone	Lumens	%Lamp	%Luminaire
0-30	655	20.5	49.1
0-40	955	29.9	71.7
0-60	1304	40.8	97.9
0-90	1333	41.6	100.0
90-180	0	0.0	0.0
0-180	1333	41.6	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	44	50	50	50	48	48	48	46	46	44	44	43	43	42
1	41	45	44	43	44	44	42	43	41	41	40	40	39	38
2	41	41	39	38	41	41	37	39	36	38	36	37	35	34
3	41	38	35	33	37	37	33	36	32	35	32	34	31	31
4	38	34	32	30	34	34	29	33	29	32	29	31	28	28
5	36	32	29	27	31	31	26	30	26	30	26	29	26	25
6	34	29	26	24	29	29	24	28	24	27	24	27	23	23
7	31	27	24	22	27	27	22	26	22	25	21	25	21	21
8	30	25	22	20	25	25	20	24	20	24	20	23	20	19
9	28	23	20	18	23	23	18	23	18	22	18	22	18	17
10	26	22	19	17	21	21	17	21	17	21	17	20	17	16

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution



Test No. H23391
C7042-7080L14G

Lamp=32W TTT
Lumens=2400
Spacing
Criterion=1.0
Efficiency=45.9%

Candlepower

Deg.	CD
0	794
5	797
15	766
25	610
35	393
45	226
55	100
65	8
75	3
85	1
90	0

Average Luminance

Deg.	CD/SQ M
45	11577
55	6349
65	721
75	434
85	458

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
6'0"	22	5.0'
7'0"	16	6.0'
8'0"	12	7.0'
10'0"	8	9.0'
12'5"	5	11.0'
15'0"	4	13.5'

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriate light loss factors where necessary.

Reflector Multiplier: Haze=.95 Straw=.9 Wheat=.9
EM Multiplier (in emergency mode) EM=.27

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	570	23.7	51.7
0-40	816	34.0	74.1
0-60	1081	45.0	98.1
0-90	1101	45.9	100.0
90-180	0	0.0	0.0
0-180	1101	45.9	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	55	55	55	55	53	53	53	51	51	49	49	47	47	46
1	52	50	49	48	49	48	47	47	45	46	44	44	43	42
2	48	46	44	42	45	43	41	43	40	42	39	41	39	38
3	45	42	39	37	41	39	37	40	36	39	36	38	35	34
4	42	38	35	33	38	35	33	37	32	36	32	35	32	31
5	40	35	32	30	35	32	30	34	29	33	29	32	29	28
6	37	33	29	27	32	29	27	31	27	31	27	30	26	26
7	35	30	27	25	30	27	25	29	24	29	24	28	24	23
8	33	28	25	23	28	25	23	27	22	27	22	26	22	22
9	31	26	23	21	26	23	21	25	21	25	21	25	21	20
10	30	24	21	19	24	21	19	24	19	23	19	23	19	18

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
CU Data Based on 20% Effective Floor Cavity Reflectance.

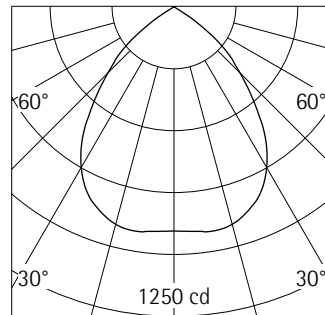
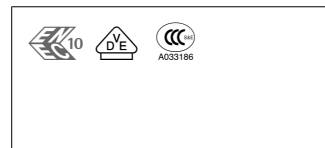
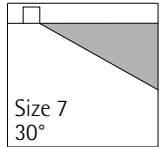
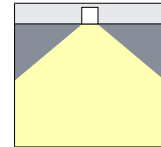
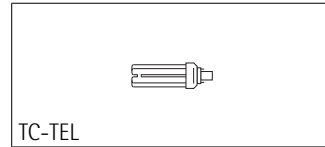
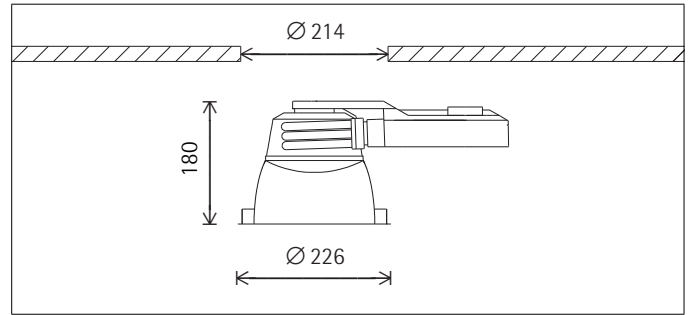
Note: Specifications and Dimensions subject to change without notice.

Visit our website at www.cooperlighting.com

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770 468.4801
Cooper Lighting 5925 McLaughlin Rd. Mississauga, Ontario, Canada L5R 1B8 905.507.4000 FAX 905.568.7049
ADP040649



for TC-T lamps



TC-TEL 32W GX24q-3 2400lm

LOR 0.64
 UGR 19.5
 65° < 200 cd/m²

22224.000 Reflector silver
 TC-TEL 32W GX24q-3 2400lm
 ECG

Product description

Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Tools not required for mounting with 4-point support and screw fixing.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

Diffuser as lamp cover: plastic, translucent, can be removed for lamp replacement without tools.

Weight 1.90kg

Planning data

22224.000 TC-TEL 32W GX24q-3 2400lm
 Connected load P: 35 W
 Connected load per 100lx P*: 2.2 W/m²
 Number of luminaires per 100lx n*: 6.4 1/100m²

22224.000 TC-TEL 32W GX24q-3 2400lm
 Number of luminaires per 100m² for
 100lx 200lx 300lx 500lx
 7 13 20 33

22224.000 TC-TEL 32W GX24q-3 2400lm
 Module (m) 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4
 Illuminance E_n (lx) 721 481 361 270

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.94	0.89	0.81	0.72	0.88	0.80	0.69	0.59	0.84	0.74	0.61	0.52
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000	4000	6000	8000	10000
LLMF	0.97	0.92	0.88	0.85	0.83	0.83
LSF	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintenance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

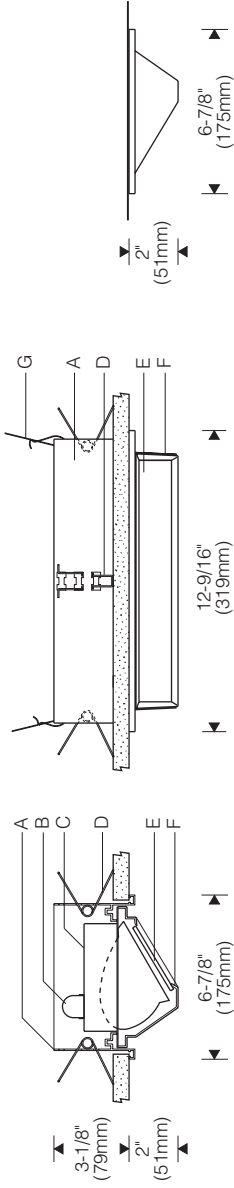
Correction table

Ceiling	0.70	0.70	0.70	0.50	0
Wall	0.70	0.50	0.20	0.20	0
Floor	0.50	0.20	0.20	0.10	0

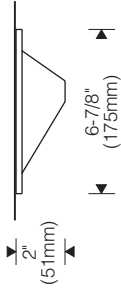
k	0.6	79	60	51	50	47
k	1.0	101	78	70	68	64
k	1.5	117	91	84	81	77
k	2.5	129	100	95	90	86
k	3.0	133	103	99	93	89



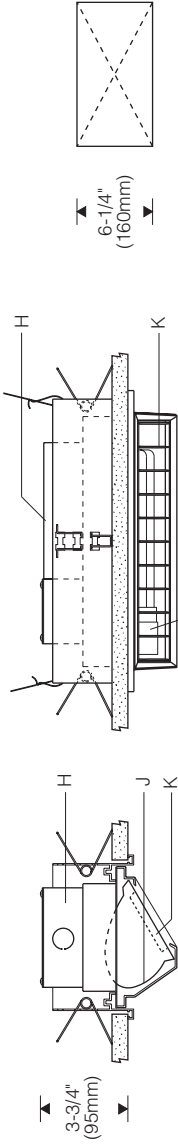
Style 201 1:8 Scale (Tungsten halogen, metal halide remote)



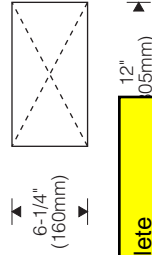
Profile (below ceiling)



Style 205 1:8 Scale (Quad tube fluorescent, metal halide integral)*



Ceiling Cutout



* Diagram shows Style 205 for quad tube fluorescent. Snap-in baffle provided for quad tube Style 205 for metal halide is provided with lens as shown in upper Style 201 diagram.

Specifications

- A** Extruded aluminum mounting/trim frame
- B** Conduit connector (Style 201)
- C** Aluminum back box
- D** Spring clips (4 incl.)
- E** Micro-prismatic tempered glass lens (tungsten halogen and metal halide units)
- F** Die-cast aluminum hood
- G** Supplemental support (by tungsten halogen)
- H** Integral ballast compartment (Style 205)
- J** Specular extruded aluminum reflector
- L** Twist and lock lampholder (quad tube)

For complete photometrics, visit www.elliptipar.com.
elliptipar
Specifications Features Performance

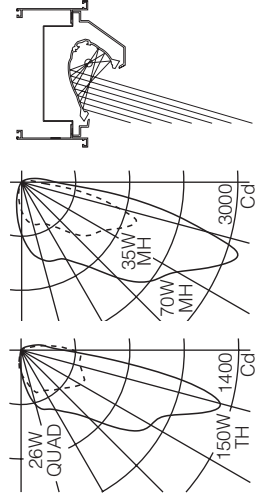


Features

- Low profile - minimal silhouette focuses attention on the luminous wall, not the luminaire
- Evenly lights entire wall - reflector aperture is shielded
- Shallow recessed depth - fits under ducts at core walls
- Durable construction - extruded reflector and trim frame; die-cast hood, aluminum back box

Performance

Two parabolic reflector sections drive light to the bottom of the wall. An elliptical section shields the lamp from normal viewing angles and redirects its light to a parabola. Glare is minimized and asymmetry of the beam is maximized resulting in high beam efficiency and superior surface uniformity.



For complete photometrics, visit www.elliptipar.com.

elliptipar

Finish:

Semi-gloss white hood and ceiling trim. Black back box. Painted surfaces - 6 stage pretreatment and electrostatically applied thermoset powder coat. Reflector - extruded high purity aluminum with clear anodized specular finish. All luminaire hardware - stainless steel.

Mounting:

Mounting/trim frame installs from below finished ceiling. Retrofit into existing non-accessible ceilings. Spring clips provided for rigid ceilings (drywall, plaster) up to 1-3/4" (44mm) thick.

Supplemental support wires, bar hangers, etc. (by others) required for accessible ceilings. Where wire suspension is prohibited, order accessory universal mounting brackets for use with 1/2" EMT, 1-1/2" lathing or C channel (by others).

Standard:

UL listed or CSA certified for damp locations. (TH and MH units with lens recommended for damp location use.)

Minimum spacings for 200W/250W Style 201, all Style 205:

- 2' (0.6m) on center, 1' (0.3m) fixture center to side wall,
- 3' (76mm) to overhead building member.



To Order

To form a Catalog Number

1	2	3	4	5	6	7	8
-	-	-	-	-	-	-	-
			T	0	2		

1 Source

- F** = Quad tube compact fluorescent
M = Metal halide
T = Tungsten halogen

2 Style

- 201** = Small semi-recessed with hood, **remote** ballast and metal halide only.
Note: Available for tungsten halogen (no ballast)
205 = Small semi-recessed with hood, **integral** ballast
Note: Available for quad tube compact fluorescent and 35W & 70W metal halide electronic only.

3 Lamp

Lamp Code	Wattage	Lamp Number	Voltage(s)	Ballast**	Distance+
Quad Tube Fluorescent					
P126	26 (4-pin)	CFQ26W/G24q	1, 2, 3 T, V	Electr. Dimming	Integral
Ceramic Metal Halide*					
035G	35	CMH35/T6/G12	A, B 1, 2	HX-HPF Electr.	10' (3m) Integral
070G	70	CMH70/T6/G12	A, B, H 1, 2	HX-HPF Electr.	20' (6m) Integral
150G	150	CMH150/T6/G12	A, B, H 1, 2	HX-HPF Electr.	10' (3m) 15' (4.5m)

Tungsten Halogen			
0100	100	Q100DC	A
0150	150	Q150DC	A
0200	200	Q200T3	A
0250	250	Q250DC	A

For complete lamp and ballast information, see Accessories Section. Standard quad tube lamp color is 3000K / 80+ CRI.

* Metal halide lamps using ceramic arc tubes yield higher light output than lamps with quartz arc tubes. They offer improved lamp-to-lamp color consistency and a more stable color temperature over their life (+200K). Standard lamp color is 3000K / 80+ CRI.

** Metal halide - magnetic (HX-HPF) ballast available in Style M201 remote only. Electronic ballast for 35 and 70W available in Style M205 integral only; for 150W in Style M201 remote only.

+ Distance applies only to Style M201 remote magnetic ballasts (and remote electronic ballast for 150W).

Project:

4 Mounting

- T** = Overlapping trim

5 Finish

- 02** = Semi-gloss white

6 Voltage/Ballast

Tungsten Halogen (Style 201)
A = 120V

Metal Halide Magnetic (Style 201)
A = 120V
B = 277V
H = 347V (Canada)†

Compact Fluorescent Dimming (Style 205)
1 = 120V
2 = 277V
3 = 347V (Canada)**

Compact Fluorescent Dimming (Style 205)
T = 120V
V = 277V

* Electronic ballast for 35 and 70W available in Style M205 integral only; for 150W in Style M201 remote only.

** Electronic 347V available for quad tube compact fluorescent only.

† Not available for 35W metal halide.

7 Option (See Accessories Section for specifications)

- 00** = No options
0C = Style 201 modified to comply with Chicago plenum code. Not available for Style 205 integral units.
0E = Style 205 remote emergency battery pack for quad tube fluorescent. Maximum distance from battery pack to fixture is 5' (1.5m). For use with non-dimming ballasts only.
0H = Style 201 long distance remote metal halide ballast (encapsulated HX-HPF magnetic ballast only).
 35W: 15' min. up to 50' max. (15m).
 70W: up to 50' max. (15m).
 150W: up to 50' max. (15m).
0Y = Style 201 modified to comply with New York City code. (Style 205 integral complies as is without modification.)
XX = For modification not listed, include detailed description. Consult factory prior to specification.

8 Standard

- 0** = UL, Underwriters Laboratories
J = CSA, Canadian Standards Association

Example

M205 - 035G - T - 02 - 1 - 000

Small semi-recessed with hood for use with 35W metal halide lamp. Overlapping ceiling trim. Semi-gloss white. Integral 120V electronic ballast. UL.

elliptipar

114 Boston Post Road, West Haven, Connecticut 06516, USA
 Voice 203-931-4455 • Fax 203-931-4464 • www.elliptipar.com

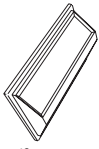
Style 201 / 205

Type:

Accessories

Order separately. See Accessories Section for specifications.

AUV00030 = **Ultraviolet** (UV) filter glass lens (tungsten halogen and metal halide units only)



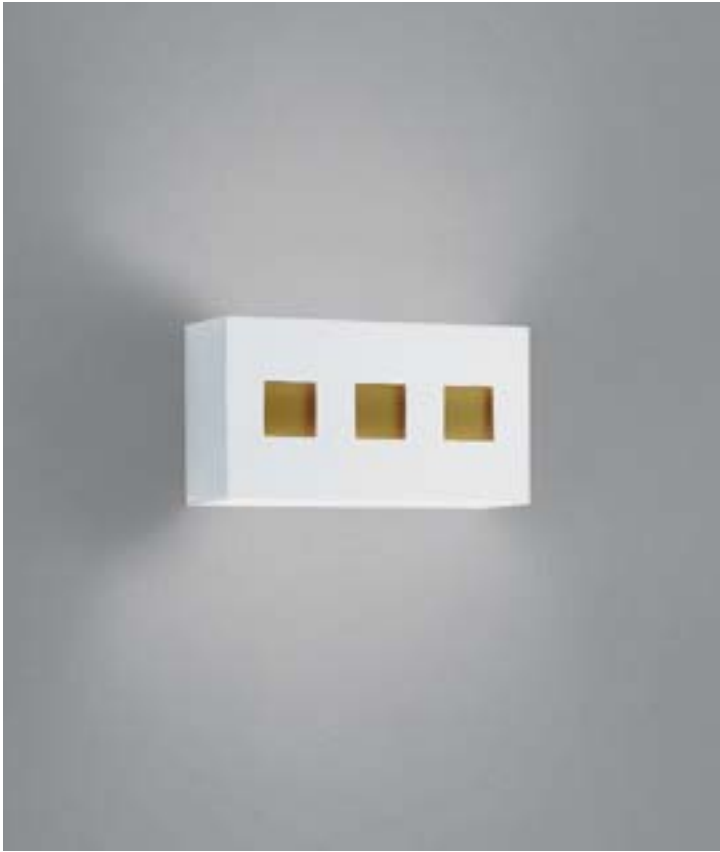
ASRBKT00 = Universal **mounting brackets** (set of two), accepts 1/2" EMT, 1-1/2" jathing, C channel or bar hangers (by others)



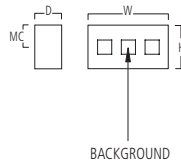
AFK000X = Ballast **fuse kit**

0 = UL
J = CSA

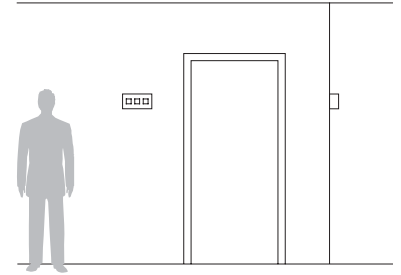




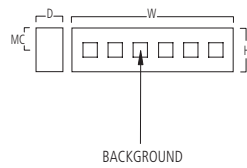
CB3140



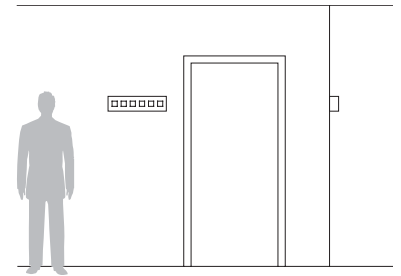
W	H	D	MC
12"	6-1/2"	4"	3-1/4"
305mm	165mm	102mm	83mm



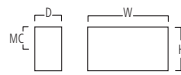
CB3142



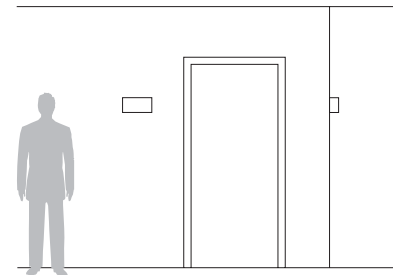
W	H	D	MC
24"	6-1/2"	4"	3-1/4"
610mm	165mm	102mm	83mm



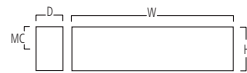
CB3144



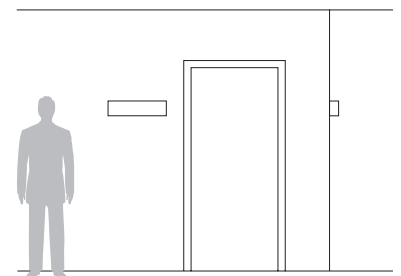
W	H	D	MC
12"	6-1/2"	4"	3-1/4"
305mm	165mm	102mm	83mm



CB3146





W	H	D	MC
24"	6-1/2"	4"	3-1/4"
610mm	165mm	102mm	83mm

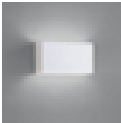



Sample Catalog Number

CB3140 - **1QF26(277V)** - **PRL** - **SBR** - **XEM**
 Model Lamp (Voltage) Housing Finish Background Finish Option

Model	Lamp (Voltage)	Housing Finish	Background Finish	Options
CB3140 	1QF26 26w quad, 4-pin G24q-3 base	PTD Painted - specify color code, see page 519 (ex. WHT for White)	PTD Painted - specify color code, see page 519 (ex. WHT for White)	<ul style="list-style-type: none"> • BL Bottom lens, tempered prismatic glass • TL Top lens, tempered prismatic glass, down watt 2N75 to 2N40 • ULD UL damp location label (painted only) • XEM Emergency battery pack mounted in provided recessed box for fluorescent lamping (replaces standard junction box) Express 10 day shipment
	2QF26 26w quad, 4-pin G24q-3 base			
	2N75 75w A-19, medium base			
	(Voltage)			
	120V			
	277V			

Model	Lamp (Voltage)	Housing Finish	Background Finish	Options
CB3142 	1F40 40w long twin tube, 2G11 base	PTD Painted - specify color code, see page 519 (ex. WHT for White)	PTD Painted - specify color code, see page 519 (ex. WHT for White)	<ul style="list-style-type: none"> • BL Bottom lens, tempered prismatic glass • TL Top lens, tempered prismatic glass, down watt 2N75 to 2N40 • ULD UL damp location label (painted only) • XEM Emergency battery pack mounted in provided recessed box for fluorescent lamping (replaces standard junction box) Express 10 day shipment
	1F50 50w long twin tube, 2G11 base			
	2F40 40w long twin tube, 2G11 base			
	2F50 50w long twin tube, 2G11 base			
	3N75 75w A-19, medium base			
	(Voltage)			
	120V			
	277V			

Model	Lamp (Voltage)	Housing Finish	Options
CB3144 	1QF26 26w quad, 4-pin G24q-3 base	PTD Painted - specify color code, see page 519 (ex. WHT for White)	<ul style="list-style-type: none"> • BL Bottom lens, tempered prismatic glass • TL Top lens, tempered prismatic glass, down watt 2N75 to 2N40 • ULD UL damp location label (painted only) • XEM Emergency battery pack mounted in provided recessed box for fluorescent lamping (replaces standard junction box) Express 10 day shipment
	2QF26 26w quad, 4-pin G24q-3 base		
	2N75 75w A-19, medium base		
	(Voltage)		
	120V		
	277V		

Model	Lamp (Voltage)	Housing Finish	Options
CB3146 	1F40 40w long twin tube, 2G11 base	PTD Painted - specify color code, see page 519 (ex. WHT for White)	<ul style="list-style-type: none"> • BL Bottom lens, tempered prismatic glass • TL Top lens, tempered prismatic glass • ULD UL damp location label (painted only) • XEM Emergency battery pack mounted in provided recessed box for fluorescent lamping (replaces standard junction box) Express 10 day shipment
	1F50 50w long twin tube, 2G11 base		
	2F40 40w long twin tube, 2G11 base		
	2F50 50w long twin tube, 2G11 base		
	3N75 75w A-19, medium base		
	(Voltage)		
	120V		
	277V		

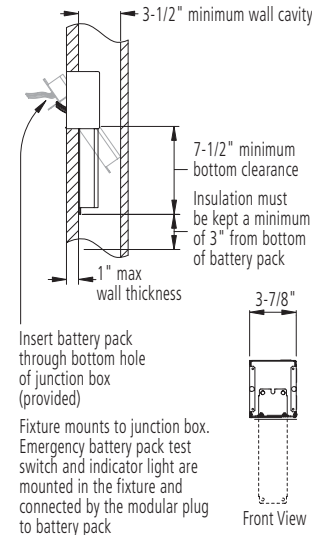
Features

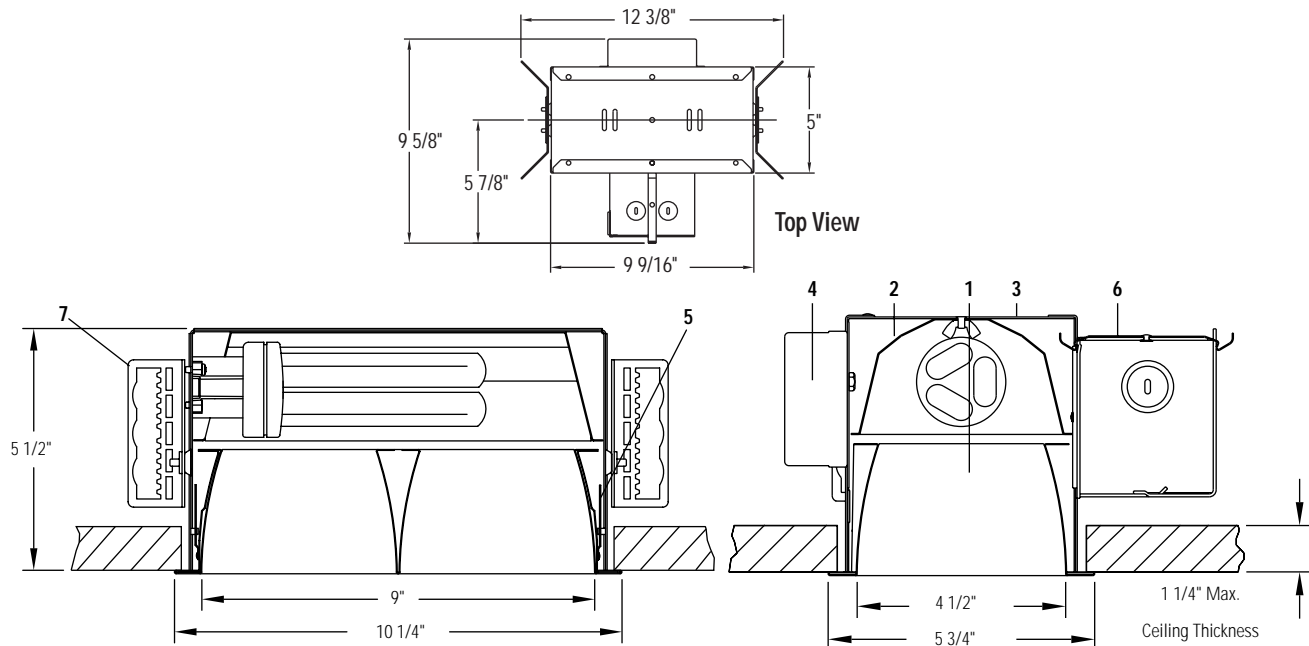
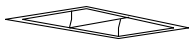
- ▼ ADA compliant
- ▼ Heavy gauge fabricated metal housing
- ▼ Specular aluminum reflectors to enhance fluorescent optical performance
- ▼ Oven cured low VOC lacquer paint
- ▼ Easy tool-less relamping
- ▼ Fluorescent or incandescent lamping
- ▼ High power factor electronic ballast (fluorescent lamping)
- ▼ Mounts to all standard electrical junction boxes (by others) with hardware provided (except XEM option)
- ▼ XEM recessed electrical box in stock and available for rough-in installation
- ▼ 5 year product warranty

Variations

- ▼ Specialty finishes to match architectural detail
- ▼ Increase/decrease housing height and/or width
- ▼ Glass insert with etched or silk screened artwork
- ▼ Custom window cutout in housing
- ▼ Hand painted alabaster alternative or other specialty diffuser material
- ▼ Specialty background to match architectural detail
- ▼ Fluorescent lamping T-5 HO with increased housing width
- ▼ Constructed of non-ferrous materials for use in magnetic resonance imaging (MRI) rooms

XEM Emergency Battery Pack





Ceiling Cutout: 5 1/8" L X 9 5/8" W

Reflector Trims	Finish / Flange	Frame-In Kits	Lamps
4X9CLW	Specular Clear / White	4X9142HU Electronic 120V-277V	(1) 26W Quad Tube or
4X9CLP	Specular Clear / Polished		(1) 32 / 42W Triple Tube
4X9CCLW	Comfort Clear / White	4X9157HU Electronic 120V-277V	4-pin
4X9CCLP	Comfort Clear / Polished		
4X9CCDW	Comfort Clear Diff. / White		(1) 57W Triple Tube
4X9CCDP	Comfort Clear Diff. / Polished		4-pin
4X9CCGP	Clear Corrugated / Self Flange		
4X9VHW	White / White		

Features

- Reflector Trim:** Pre-finished aluminum with low iridescence clear finish. 55° visual and reflected cutoff. Overlap flange accommodates different ceiling types. Precision mitered flange corners.
- Upper Reflector:** High efficiency, 97%, Specular Clear.
- Housing:** 20 Ga. galvanized formed steel. Centerline notches and holes for consistent alignment of multiple fixtures. Accommodates ceilings up to 1 1/4" thick.
- Ballast Assembly:** Door-mounted for easy service, allows replacement from inside of fixture.
- Torsionite Springs:** Precision-tooled steel springs secure reflector trim to housing for quick tool-less installation. Positive tension holds flange tight against ceiling.
- J-Box:** 14 Ga. galvanized steel. Accessible from inside and outside of the fixture. Outside J-box door is hinged for easy access.
- Mounting Brackets:** 16 Ga. steel. Adjustable from inside fixture. Utilize 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.

Options & Accessories

Chicago Plenum with Fuse (slow blow): add LCF suffix to frame-in kit, consult factory for specifications.

Emergency: add EM suffix to frame-in kit, consult factory for specifications. Option not available in the 57W version.

Mounting Bars / T-Bar Anchor Clips: See specification sheet "MBA".

Electrical

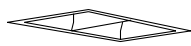
UL Listed for through circuit wiring with max of (8) No. 12 AWG, 90° C supply conductors.

Note: For complete ballast data and lamp/ballast compatibility refer to "Ballast" specification sheet.

General

UL listed for damp locations. I.B.E.W. Union Made.
Specular Clear finish (CL) reflector trims meet IES RP-1 practice.

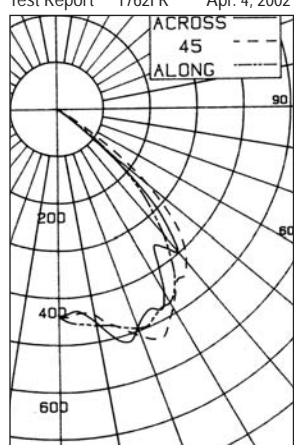
Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	



26W Quad Tube, Specular Clear Reflector Trim

One Sylvania lamp, 1800 lumens

Test Report 1762FR Apr. 4, 2002



CANDLEPOWER SUMMARY

Table with columns: Angle, Along, 22.5, 45, 67.5, Across, Lumens. Rows 0-90.

ZONAL LUMENS AND PERCENTAGES

Table with columns: Zone, Lumens, % Lamp, % Luminaire. Rows 0-30, 30-40, 40-60, 60-90.

EFFICIENCY = 55.5% Spacing Criterion: Along = 1.5 Across = 1.3

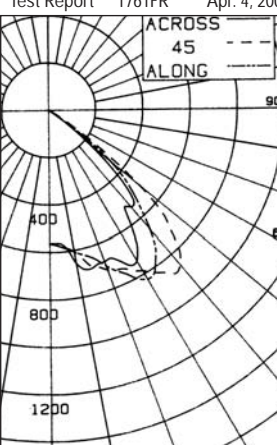
CU table for 26W Quad Tube with columns for Room Cavity Ratio and % Effective Ceiling Cavity Reflectance.

20% Floor Cavity Reflectance

32W Triple Tube, Specular Clear Reflector Trim

One Philips lamp, 2400 lumens

Test Report 1761FR Apr. 4, 2002



CANDLEPOWER SUMMARY

Table with columns: Angle, Along, 22.5, 45, 67.5, Across, Lumens. Rows 0-90.

ZONAL LUMENS AND PERCENTAGES

Table with columns: Zone, Lumens, % Lamp, % Luminaire. Rows 0-30, 30-40, 40-60, 60-90.

EFFICIENCY = 69.3% Spacing Criterion: Along = 1.7 Across = 1.5

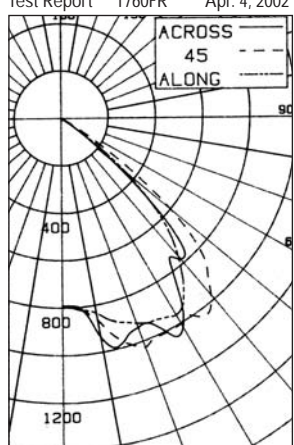
CU table for 32W Triple Tube with columns for Room Cavity Ratio and % Effective Ceiling Cavity Reflectance.

20% Floor Cavity Reflectance

42W Triple Tube, Specular Clear Reflector Trim

One Philips lamp, 3200 lumens

Test Report 1760FR Apr. 4, 2002



CANDLEPOWER SUMMARY

Table with columns: Angle, Along, 22.5, 45, 67.5, Across, Lumens. Rows 0-90.

ZONAL LUMENS AND PERCENTAGES

Table with columns: Zone, Lumens, % Lamp, % Luminaire. Rows 0-30, 30-40, 40-60, 60-90.

EFFICIENCY = 66.1% Spacing Criterion: Along = 1.6 Across = 1.5

CU table for 42W Triple Tube with columns for Room Cavity Ratio and % Effective Ceiling Cavity Reflectance.

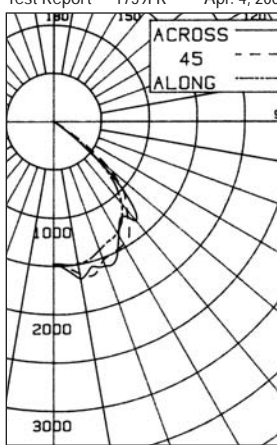
20% Floor Cavity Reflectance

20% Floor Cavity Reflectance

57W Triple Tube, Specular Clear Reflector Trim

One Sylvania lamp, 4300 lumens

Test Report 1759FR Apr. 4, 2002



CANDLEPOWER SUMMARY

Table with columns: Angle, Along, 22.5, 45, 67.5, Across, Lumens. Rows 0-90.

ZONAL LUMENS AND PERCENTAGES

Table with columns: Zone, Lumens, % Lamp, % Luminaire. Rows 0-30, 30-40, 40-60, 60-90.

EFFICIENCY = 72.4% Spacing Criterion: Along = 1.3 Across = 1.3

CU table for 57W Triple Tube with columns for Room Cavity Ratio and % Effective Ceiling Cavity Reflectance.

Job Information Type:

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2002 Genlyte Thomas Group LLC (Lightolier Division) • A0902

LIGHTOLIER®

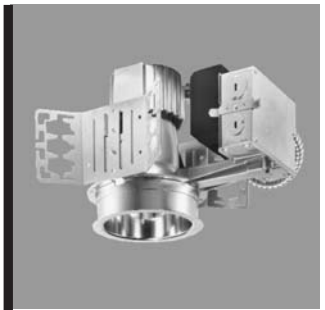
DESCRIPTION

Low brightness 4 1/2" aperture reflector for use with 18W Triple Tube compact fluorescent lamps. The precisely formed non-imaging reflector ensures 55° cutoff to lamp and lamp image and the one piece design eliminates light leaks at the ceiling. Standard features include low iridescent finish on all reflector colors (to eliminate "rainbowing") and venting to ensure maximum lamp life and lumen output. The fixture optics offer unparalleled performance in glare free lighting providing a smooth beam devoid of hot spots. Reflectors, Lensed reflectors and open wall wash trims are interchangeable within the same housing.

SPECIFICATION FEATURES

- A...Reflector**
Low iridescent Alzak® finishes in specular clear, haze, straw, warm haze, wheat or painted high gloss white .050 thick aluminum, in a one piece spun macrofocal parabolic contour. Positive reflector mounting pulls trim tight to ceiling. Other finish options available upon request.
- B...Trim Ring Options**
High impact polymer with satin white finish, metal trim, rimless trim or self flanged reflector.
- C...Socket Cap**
One piece vented and finned die cast aluminum cap for maximum thermal performance.
- D...Housing Mounting Frame**
One piece precision die cast aluminum 1 1/2" deep collar accommodates varying dimensions of ceiling materials.
- E...Universal Mounting Bracket**
Accepts 1/2" EMT, C Channel, T bar fasteners, and bar hangers. Adjusts 5" vertically from

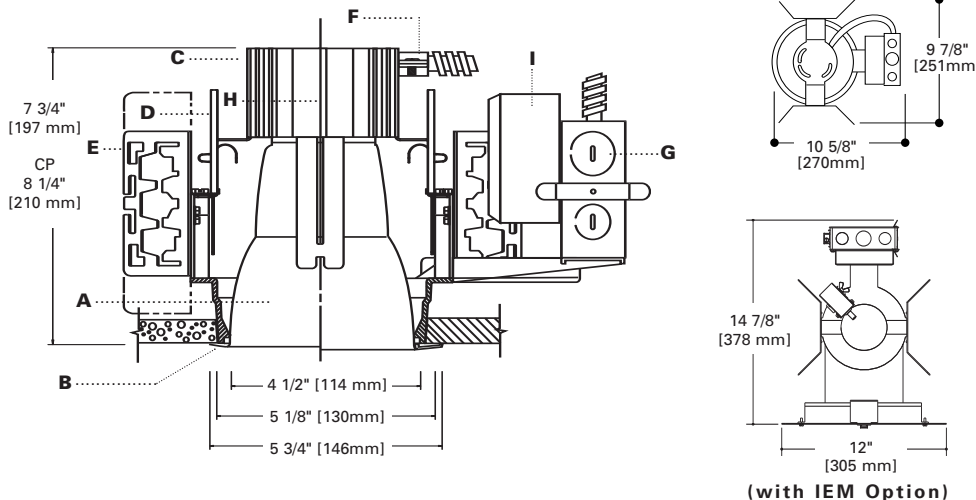
- above or below ceiling.
- F...Conduit Fittings**
Die cast screw tight connectors.
- G...Junction Box**
Listed for eight #12AWG (four in, four out) 90°C conductors feed through branch wiring. 1/2" and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing reflector.
- H...Socket**
4-pin GX24q2 for C4018 fatigue free stainless steel lamp spring ensures positive lamp retention.
- I...Electronic Ballast**
Thermally protected, fused, electronic ballast provides full light output and rated lamp life. Provides flicker free and noise free operation and starting. End of lamp life protection is standard.
- Labels**
U.L. and cUL listed, standard damp label



**C4018
4050**

**18W Triple
Compact
Fluorescent**

**4" OPEN
REFLECTOR**



Energy Data

18W Triple 4-pin
Ballast: Electronic
120V Input Watts: 22
Line Amps: 0.18
277 Input Watts: 22
Line Amps: 0.08
Power Factor: >.99
THD: <10%
Min. Starting Temp: -10°C (15°F)
Sound Rating: A

Luminaire Efficacy Rating:
C4013-4050LI=27.84

NOTES:
Accessories should be ordered separately.
For additional options please consult your Cooper Lighting Representative. Alzak is a registered trademark of Aluminum Company of America.

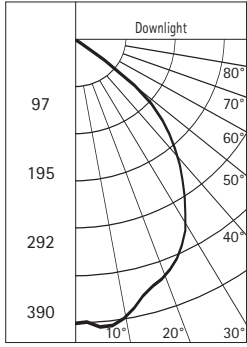
ORDERING INFORMATION: Complete unit consists of housing, ballast and trim.

Housing	Ballast	Options	Trims	Finish	Options	Accessories
C4018						
C4018=(1) 18W Vertical TTT Lamp	E=120V - 277V 50/60 Hz Electronic 3E=347V 50/60 Hz Electronic 1D=120V Dimming, Lutron® Compact SE 2D=277V Dimming, Lutron® Compact SE	CP=Chicago Plenum option EM=Emergency module with remote test switch IEM=Emergency module with integral test switch	4050=Reflector, Polymer Trim Ring, White 4051=Reflector, Self Flanged 4050E=Reflector, Polymer Trim Ring, White, use with IEM option 4051E=Reflector, Self Flanged, use with IEM option	LI=Low Iridescent Clear H=Haze S=Straw WH=Wheat WMH=Warm Haze W=White	WF=White Painted Flange (Self Flanged only)	HB26=C Channel Bar Hanger, 26" Long, Pair HB50=C Channel Bar Hanger, 50" Long, Pair RMB22=Wood Joist Bar Hanger, 22" Long, Pair HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope TRM4=Metal Trim Ring, Specify Finish TRR4=Rimless Trim Ring, White FK5=Field Installed Fuse Kit, 5 Amp

Fixture B6 Page 40

PHOTOMETRICS

Candlepower Distribution Curve



Spacing Criterion = 1.18
Efficiency = 53.3%

Test No. H21020
C4018 4050LI
Lamp = 18W TTT

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
4'0"	24	4'6"
6'0"	11	7'0"
7'0"	8	8'0"
8'0"	6	9'6"
10'0"	4	11'6"

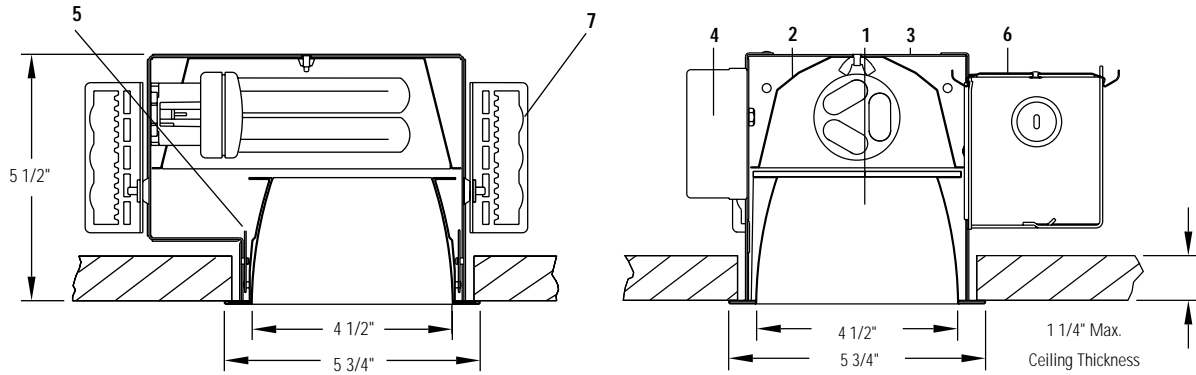
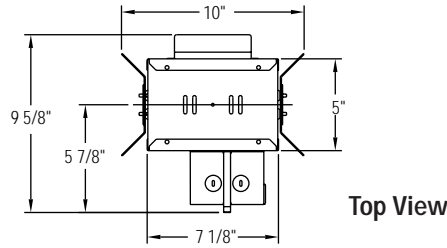
Coefficients of Utilization

Ceiling Wall %	80%				70%			50%	
	70	50	30	10	50	30	10	50	10
RCR	Zonal cavity method -- floor reflectance = 20%								
0	63	63	63	63	62	62	62	59	59
1	60	58	57	55	57	56	54	55	53
2	56	53	50	48	52	50	48	50	47
3	52	48	45	43	48	45	42	46	41
4	49	44	40	38	43	40	38	42	37
5	46	40	37	34	40	36	34	39	33
6	43	37	33	30	37	33	30	36	30
7	40	34	30	27	34	30	27	33	27
8	37	31	28	25	31	27	25	30	25
9	35	29	25	23	29	25	23	28	23
10	33	27	23	21	27	23	21	26	21

Note: Specifications and Dimensions subject to change without notice.

Visit our website at www.cooperlighting.com

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770 468.4801 Cooper Lighting 5925
McLaughlin Rd. Mississauga, Ontario, Canada L5R 1B8 905.507.4000 FAX 905.568.7049
ADP051825



Ceiling Cutout: 5 1/8" x 5 1/8"

Reflector Trims	Finish / Flange	Frame-In Kit	Lamps
4X4CLW	Specular Clear / White	4X4132HU Electronic 120V-277V	(1) 26W/32W Triple Tube or 4-pin
4X4CLP	Specular Clear / Polished		
4X4CCLW	Comfort Clear / White		
4X4CCLP	Comfort Clear / Polished		
4X4CCDW	Comfort Clear Diff. / White		
4X4CCDP	Comfort Clear Diff. / Polished		
4X4CCGP	Clear Corrugated / Self Flange		
4X4WHW	White / White		

Features

- Reflector Trim:** Pre-finished aluminum with low iridescence clear finish. 55° visual and reflected cutoff. Overlap flange accommodates different ceiling types. Precision mitered flange corners.
- Upper Reflector:** High efficiency, 97%, Specular Clear.
- Housing:** 20 ga. galvanized formed steel. Centerline notches and holes for consistent alignment of multiple fixtures. Accommodates ceilings up to 1 1/4" thick.
- Ballast Assembly:** Door-mounted for easy service, allows replacement from inside of fixture.
- Torsionite Springs:** Precision-tooled steel springs secure reflector trim to housing for quick tool-less installation. Positive tension holds flange tight against ceiling.
- J-Box:** 14 ga. galvanized steel. Accessible from inside and outside of the fixture. Outside J-box door is hinged for easy access.
- Mounting Brackets:** 16 ga. steel. Adjustable from inside fixture. Utilize 3/4" or 1 1/2" lathing channel, 1/2" EMT, or optional mounting bars.

Options & Accessories

Chicago Plenum with Fuse (slow blow): Add LCF suffix to Frame-In Kit, consult factory for specifications.

Mounting Bars / T-Bar Anchor Clips: See specification sheet "MBA".

Electrical

UL Listed for through circuit wiring with max of (8) No. 12 AWG, 90°C supply conductors.

Note: For complete ballast data and lamp/ballast compatibility refer to "Ballast" specification sheet.

General

UL listed for damp locations, I.B.E.W. Union Made.

Specular Clear finish (CL) reflector trims meet IES RP-1 practice.

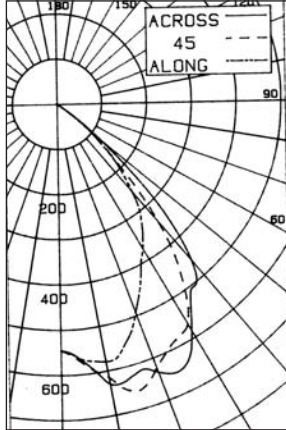
Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	



26W Triple Tube, Specular Clear Reflector Trim

One Philips lamp, 1800 lumens

Test Report 1763FR Apr.5, 2002

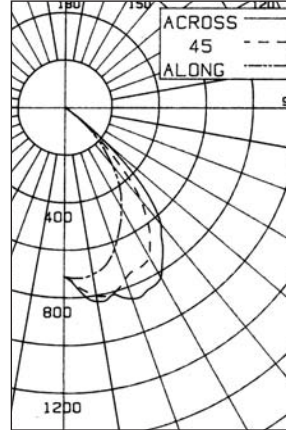


CANDLEPOWER SUMMARY table with columns: Angle, Along, 22.5, 45, 67.5, Across, Lumens. Includes ZONAL LUMENS AND PERCENTAGES table below.

32W Triple Tube, Specular Clear Reflector Trim

One Philips lamp, 2400 lumens

Test Report 1710FR Apr. 4, 2002



CANDLEPOWER SUMMARY table with columns: Angle, Along, 22.5, 45, 67.5, Across, Lumens. Includes ZONAL LUMENS AND PERCENTAGES table below.

EFFICIENCY = 54.5% Spacing Criterion: Along = 1.1 Across = 1.4

EFFICIENCY = 54.7% Spacing Criterion: Along = 1.1 Across = 1.5

CU table for 26W fixture showing CU values for room cavity ratios 1-10 across different reflectance levels.

20% Floor Cavity Reflectance

CU table for 32W fixture showing CU values for room cavity ratios 1-10 across different reflectance levels.

20% Floor Cavity Reflectance

Based on specular clear (CL) finish. To estimate other finishes, multiply candelas and CU values by 0.95 for CCL, by 0.90 for CCD.

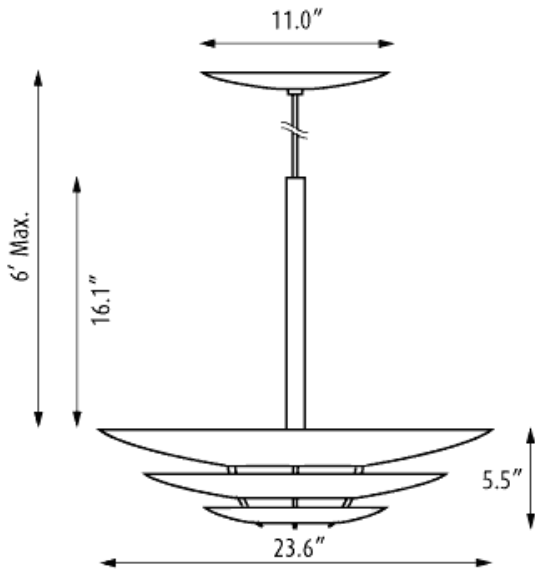
Job Information Type: []

Lightolier a Genlyte Thomas Company www.lightolier.com
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2002 Genlyte Thomas Group LLC (Lightolier Division) • A0902

LIGHTOLIER®

Oslo Pendant

Design : Kurt Nørregaard



Specification

- 1 | Product code
OSP
- 2 | Light source
2/57W CF GX24q-5
- 3 | Voltage
120/277V
- 4 | Finish
ALU
WHT

Specification notes:
a. Provided with one 120-277V integral electronic ballast.

Info notes:
I. The comparable EU version has the following classification: Ingress Protection Code: IP20.

Oslo Pendant provides general indirect illumination and produces a visually comfortable ambience as a result of light being emitted between the shades. This makes Oslo suitable for use in spaces with computer monitors.

Finish

Aluminum, brushed & lacquered. White, wet painted.

Material

Canopy: Spun aluminum. Shades: Brushed aluminum or spun aluminum. Tube: Extruded aluminum. Struts: Light grey, die cast aluminum.

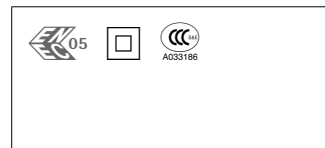
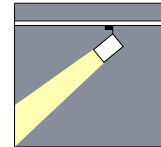
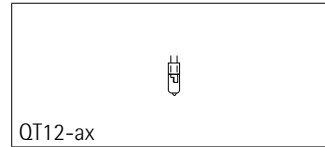
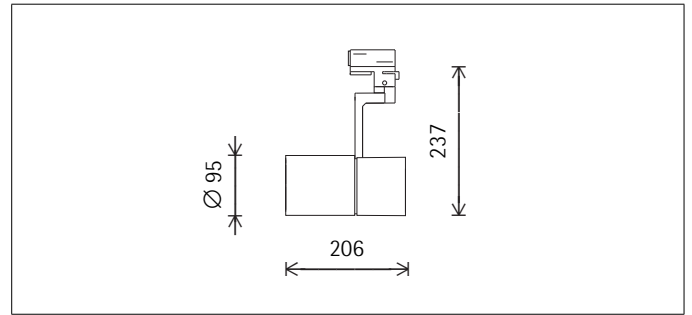
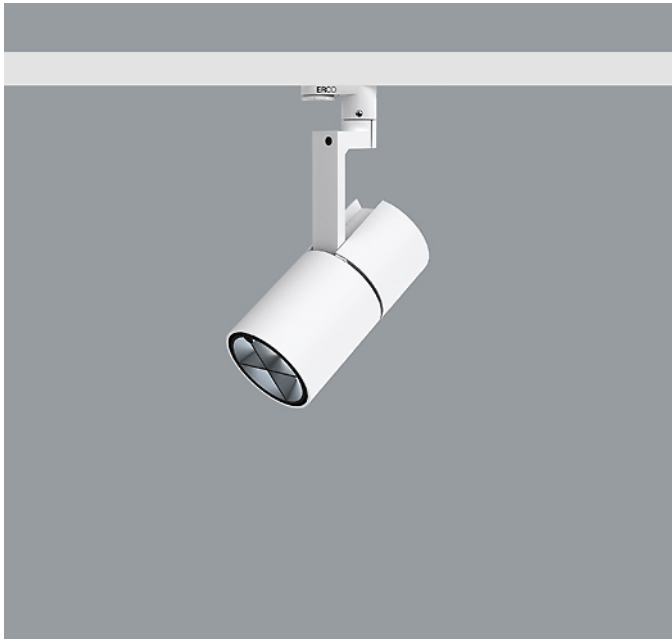
Mounting

Suspension type: 1x stainless steel aircraft cable. Suspension length: 6'. Canopy: White. Cord type: 3-conductor, 18 AWG white PVC power cord. Cord length: 6'.

Weight

Max. 9 lbs.

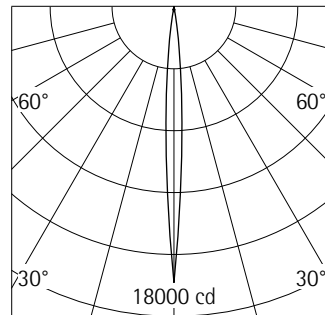
Label



72102.000 White (RAL9002)
 QT12-ax 50W 12V GY6.35 950lm
 Spot reflector

Product description

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identifying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer 230/12V, 20-50W. ERCO 3-circuit adapter: plastic. Spot reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass. Anti-dazzle ring with cross-baffle: plastic, metal, black. 2 concealed retainers for accessories. Use dimmers for electronic transformers (trailing edge). Weight 1.45kg



QT12-ax 50W 12V GY6.35 950lm

h(m)	E(lx)	D(m)
		7°
1	16044	0.12
2	4011	0.24
3	1783	0.37
4	1003	0.49
5	642	0.61



Mounting

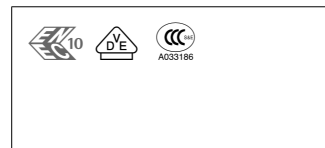
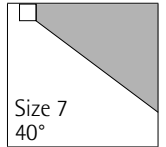
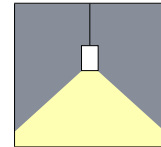
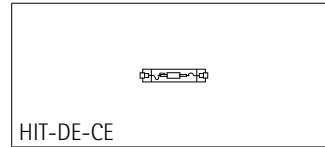
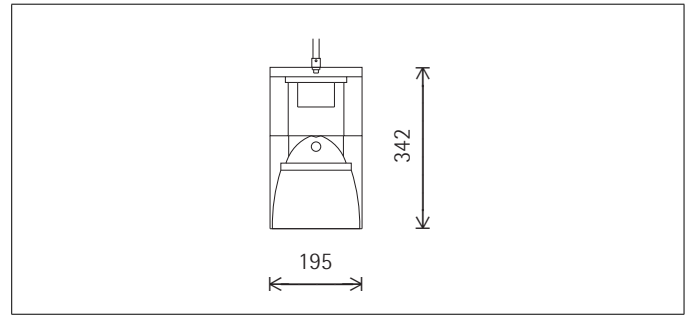
ERCO 3-circuit track
 Hi-trac track
 Monopoll track
 1-circuit singlet

Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.94	0.88	0.82	0.77	0.89	0.83	0.77	0.71	0.85	0.79	0.73	0.65
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000
LLMF	0.98	0.95
LSF	1	1

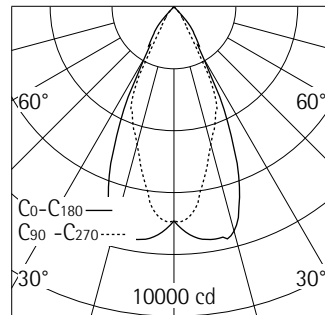
- MF LMFxRSMFxLLMFxLSF
- MF Maintainance Factor
- LMF Lumiaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty



87890.000 White (RAL9002)
HIT-DE-CE 70W RX7s 6500lm

Product description

Cylinder: aluminium, powder-coated. Linear air diffusers.
Control gear with temperature controller, timed ignitor, capacitor.
Suspension: pendant tube, white powder-coated, ϕ 13mm, L 1000mm. Canopy: plastic, white, ϕ 64mm, H 82mm.
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Flood lens as safety glass above the Darklight reflector.
Weight 5.30kg



HIT-DE-CE 70W RX7s 6500lm

LOR	0.72
UGR C0	16.2
UGR C90	12.8
55° <	1000 cd/m ²

Planning data

87890.000 HIT-DE-CE 70W RX7s 6500lm
 Connected load P: 88 W
 Connected load per 100lx P*: 1.8 W/m²
 Number of luminaires per 100lx n*: 2.0 1/100m²

87890.000 HIT-DE-CE 70W RX7s 6500lm
 Number of luminaires per 100m² for
 100lx 200lx 300lx 500lx
 2 4 6 11

87890.000 HIT-DE-CE 70W RX7s 6500lm
 Module (m) 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4
 Illuminance E_n (lx) 2300 1533 1150 863

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.94	0.88	0.82	0.77	0.89	0.83	0.77	0.71	0.85	0.79	0.73	0.65
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

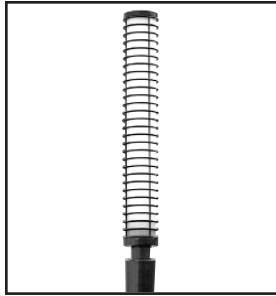
Hours of operation (h)	1000	2000	4000	6000	8000	10000	12000
LLMF	0.89	0.84	0.81	0.79	0.77	0.76	0.75
LSF	1	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintenance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

Correction table

Ceiling	0.70	0.70	0.70	0.50	0
Wall	0.70	0.50	0.20	0.20	0
Floor	0.50	0.20	0.20	0.10	0

k	0.6	91	77	72	72	70
k	1.0	103	86	81	80	78
k	1.5	114	93	89	87	85
k	2.5	123	98	95	91	89
k	3.0	126	100	97	93	90

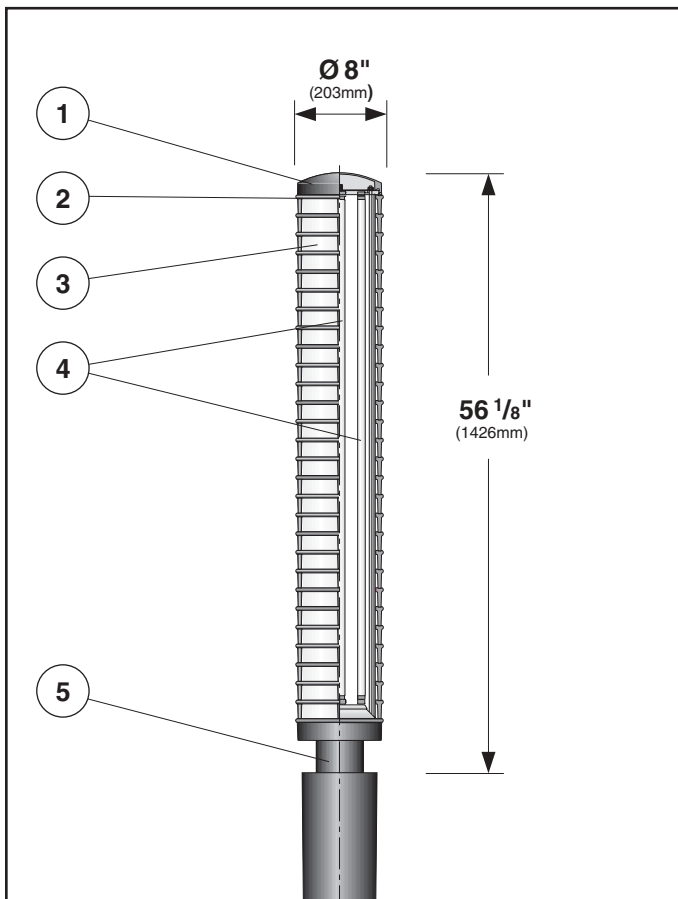


Project: _____

Type: _____ **Qty:** _____

_____ - _____ - _____ - _____ - _____ - _____
 Fixture Series Height Lamp Type / Wattage Finish Voltage Options

Series	Height	Lamp Type / Wattage	Finish	Voltage	Options
CCT Corral [®] Column Round Tapered Pole	12 12'	1T8 (1x)FO32T8	WH White	120	REC GFCI Receptacle Consult factory for other heights and options
	14 14'	2T8 (2x)FO32T8	BK Black	277	
CCS Corral [®] Column Round Straight Pole		3T8 (3x)FO32T8	BZ Bronze	347	
		4T8 (4x)FO32T8	SV Silver SP Specify RAL#		



1. Fixture Cover - Die-cast, aluminum cover, with smooth crisp form to reflect and complement the column design. Thick-walled, aluminum cover is painted white on the interior for maximum luminaire efficiency. Removes by loosening three vandal-resistant, stainless steel screws for easy access to lamp chamber.

2. Gasketing - Continuous gaskets provide weather-proofing, dust, and insect control at all fixture connections.

3. Shielding - White, translucent, UV stabilized acrylic, minimum wall thickness 0.118 (3mm) inside of die cast aluminum Corral[®] rings.

4. Lamp - One, two, three or four FO32T8 (32 watts each) fluorescent lamps on removable gear tray, mounted vertically. Lamps provided by others.

5. Column Fitter - Die-cast aluminum fitter, with built-in gasketing ridges, for smooth transition to column.

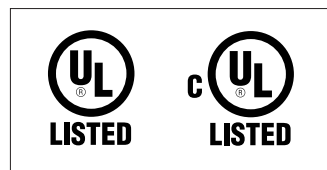
6. Ballast (not shown) - Electronic ESB, high power factor, class P, type A sound rating. Minimum lamp starting temperature 0 F (-20 C). Consult factory for more detailed ballast information.

7. Base Cover - (not shown) Standard two-piece base cover is made from die-cast 356 alloy aluminum which is heat treated to produce a T6 temper, measuring 4 1/2" (115mm) height by 12 1/2" (316mm) diameter.

Exterior Luminaire Finish - SELUX utilizes a high quality Polyester Powder Coating. All SELUX luminaires and poles undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. SELUX powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). RAL colors (SP) are available, please specify RAL#.

SELUX Corp. © 2002
 PO Box 1060, 5 Lumen Lane
 Highland, NY 12528
 TEL: (845) 691-7723
 FAX: (845) 691-6749
 E-mail: seluxus@selux.com
 Web Site: www.selux.com/usa
 CORC-1003-01 (ss-V2.0)



**Union Made
 Affiliated with
 IBEW Local 363**

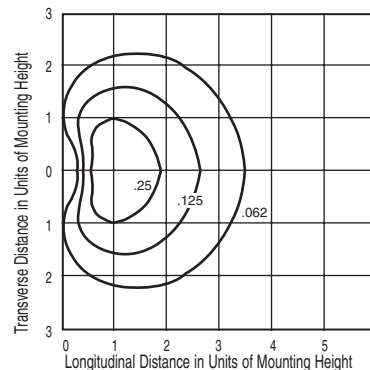
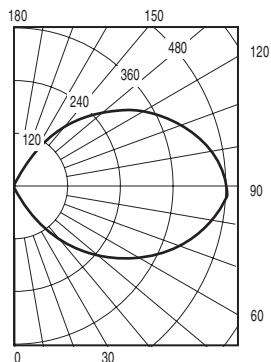
In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.com/usa are the most recent versions and supercede all other printed or electronic versions.

Photometry

CCT with 1T8 lamp

Catalog # CCT - 12 - 1T8
Report # SX 16096

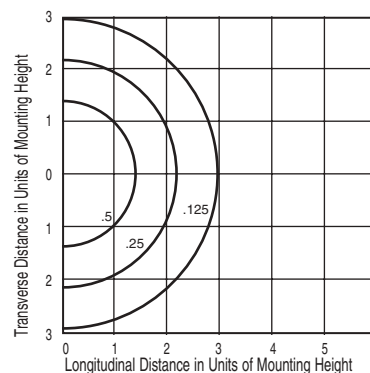
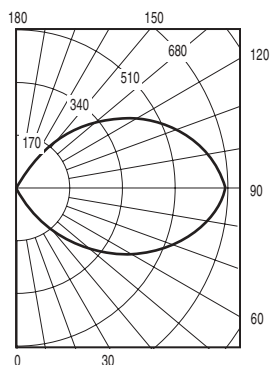
- Maximum candela of 484.6 at 87.5° from vertical.
- IES classification - Type IV Non-cutoff



CCT with 4T8 lamps

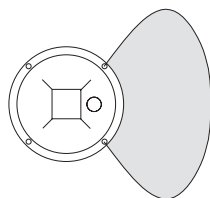
Catalog # CCT - 12 - 4T8
Report # SX 16034

- Maximum candela of 671.2 at 90° from vertical.
- IES classification - Type V Non-cutoff

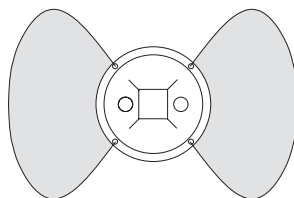


Conversion Chart		
Values based on 14' (4.3m) mounting height.		
Mounting Height		Multiply
12' (3.7m)		1.44
14' (4.3m)		1.00

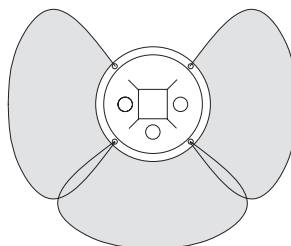
1T8



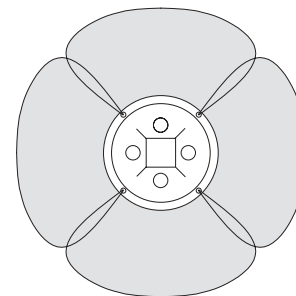
2T8



3T8



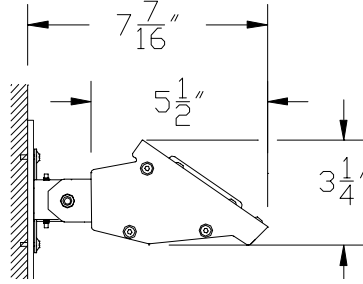
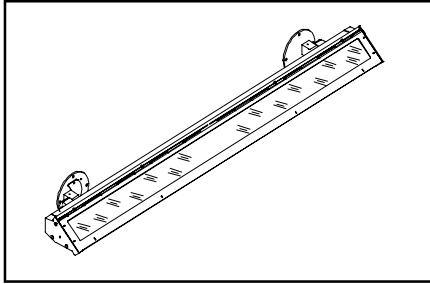
4T8



OUTDOOR LIGHTING

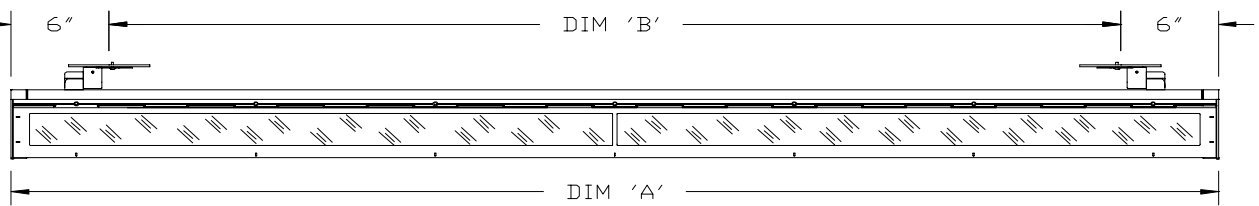
WALL/GROUND MOUNT SINGLE LUMINAIRES

**1 & 2 LAMP FLUORESCENT
 T5, T5HO, T8, T8HO & LONG TWIN TUBE**

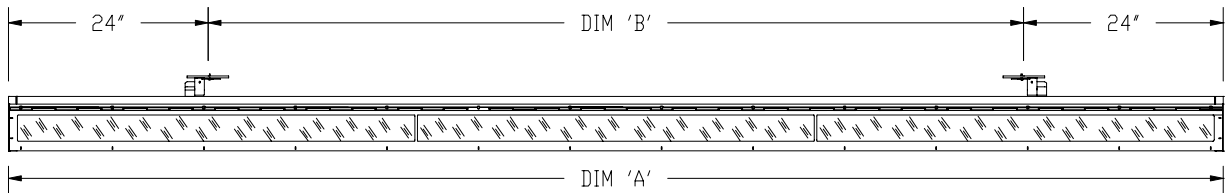


NOMINAL FIXTURE LENGTH (See drawings below)	2'	3'	4'	6'	8'	12'
'A'	26"	38"	50"	74"	98"	146"
'B'	14"	26"	38"	62"	50"	98"

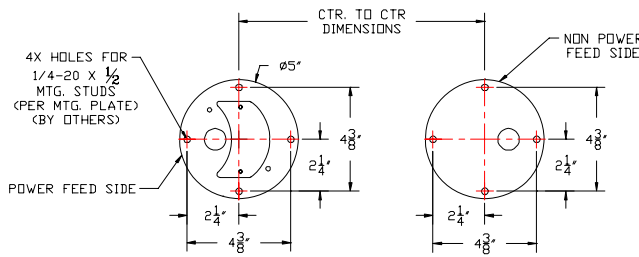
2' - 6' Lengths



8'-12' Lengths

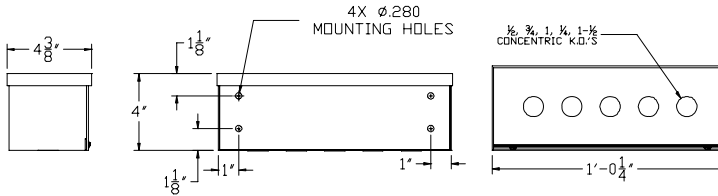


Mounting Plate Detail



Nema Enclosure For T8HO Ballast

Minimum 18 Gauge wire,
 20' Maximum Distance From
 Further Socket



SPECIFICATIONS

Housing: An extruded aluminum housing, single piece die-cast aluminum end plates.

Mounting: Die cast knuckles allow for adjustment of the luminaire in 5° increments by loosening a stainless steel socket head screw. Rigid teeth on knuckles keep the luminaire from moving once adjustment is completed. Wall bracket is constructed of heavy gauge aluminum and is supplied with a gasketed access cover to the J-box (by others) for ease of wiring.

Lens: A hinged door assembly is supplied with a standard clear virgin acrylic lens and is held in place by pre-anodized extruded aluminum rails. Fasteners are retained to housing and door rail with stainless steel hardware. Lens is sealed to housing with a single piece closed cell memory retentive silicone gasket.

Reflector: Computer aided, die cut and precisely formed reflectors are made of 95% high specular peened anodized aluminum.

Electrical: Ballasts are integral electronic, power factor greater than .90, thermally protected, less than 10% THD. Minimum starting temperature is 0° F (-20° F for T8HO ballast).

Finish: All painted surfaces are pretreated and polyester powder coated with UV inhibitors. Standard painted finishes are available in textured white, black, natural, bronze, satin and graphite.

Labels: Underwriters Laboratories and Canadian Standards approved for Wet Locations. IP65 Rated



Approved: _____

Job Name: _____

Type: _____

I N S I G H T



TEL: 505 345-0888 FAX: 505 345-3838
 www.insightlighting.com

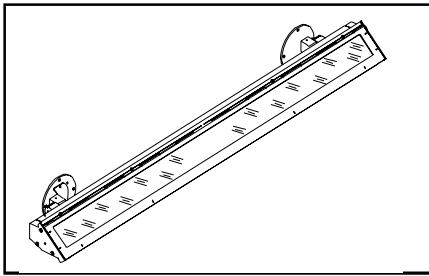
EX5-SMS
 08/30/05

OUTDOOR LIGHTING

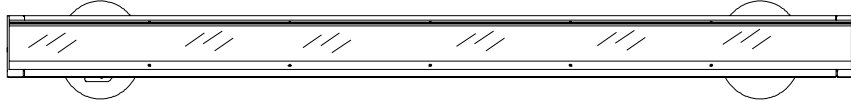
EX-5 SERIES

WALL/GROUND MOUNT SINGLE LUMINAIRES

1 & 2 LAMP FLUORESCENT T5, T5HO, T8, T8HO & LONG TWIN TUBE



Ordering Information



EX5 Exterior 5 - Linear Fluorescent

PREFIX ①

SMS Wall / Ground Mount - Single Luminaire, 12' Maximum

MOUNTING ②

- 1 120V
- 2 277V
- 7 347V (Consult Factory)

VOLTAGE ⑦

- TW** Textured White
- TBL** Textured Black
- TBR** Textured Bronze
- TN** Textured Natural
- TS** Textured Sandstone
- TV** Textured Verdi
- SF** Specify Finish
- CC** Custom Finish (Contact Factory)

FINISH ⑧

- PL** Prismatic Acrylic Lens (8' Maximum)
- PC** Clear Polycarbonate Lens (8' Maximum)
- LV** Louver
- VS** Visor
- DM** Dimming Ballast * (120V or 277V only)
- WCF** Color Lens
- 1F** Single Inline Fusing For 120V
- BP** Emergency Battery Pack
- EM** Emergency Circuit

* Not available with 55W, 80W LTT LAMPS

OPTIONS ⑨

③ ④ ⑤ ⑥

Reflector Type	Lamp Type	Lamp Wattage	Available Luminaire Lengths	Total Number Of Lamps
SA Single Lamp 	T5	14W 21W 28W	2' 3', 6' 4', 8', 12'	1 1, 2 1, 2, 3
TA Twin Lamp 	T5	14W 21W 28W	2' 3', 6' 4', 8', 12'	2 2, 4 2, 4, 6
SA Single Lamp 	T5HO	24W 39W 54W	2' 3', 6' 4', 8', 12'	1 1,2 1,2,3
TA Twin Lamp 	T5HO	24W 39W 54W	2' 3',6' 4', 8', 12'	2 2, 4 2, 4, 6
SA Single Lamp 	T8	17W 25W 32W	2' 3', 6' 4', 8', 12'	1 1, 2 1, 2, 3
SA Single Lamp 	T8HO **	44W 65W 86W	4', 8', 12' 6' 8'	1, 2, 3 1 1
SA Single Lamp 	LTT	40W 50W	2',4',6',8',12' 2',4',6',8',12'	1, 2, 3,,4, 6 1, 2, 3, 4, 6

For continuous runs, specify nominal run length in feet.

** See remote NEMA enclosure details for T8HO lamps.

REFLECTOR / LAMP / LUMINAIRE LENGTH

ORDERING EXAMPLE

EX5 / SMS / SA / T5HO / 54W / 12' / 2 / TS / LV
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

PREFIX	MOUNTING	REFLECTOR	LAMP	WATTAGE	LENGTH	VOLTAGE	FINISH	OPTIONS
EX5	SMS							

Approved: _____

Job Name: _____

Type: _____

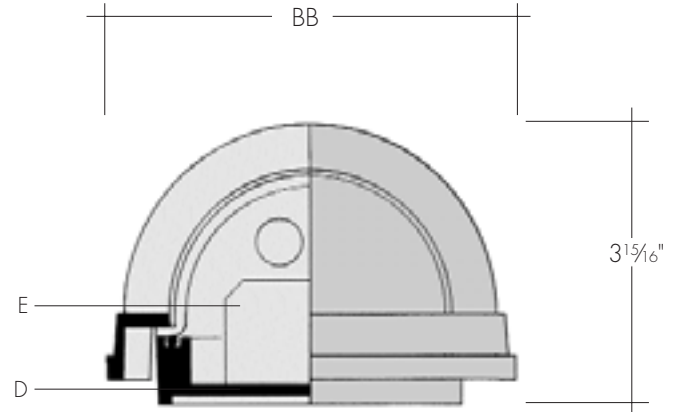
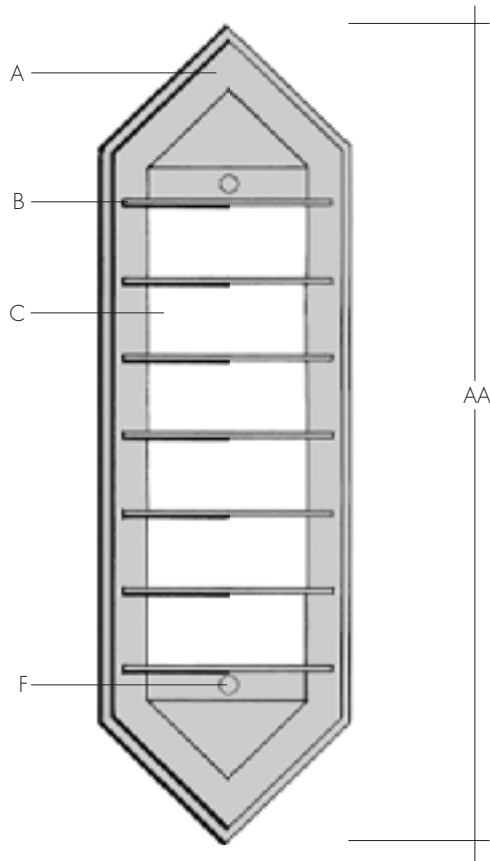
I N S I G H T



TEL: 505 345-0888 FAX: 505 345-3838
www.insightlighting.com

EX5-SMS
08/30/05

ILLUMINATION



Description

Wall or ceiling mount luminaire

Materials and Construction

- A. Cast bronze faceplate
- B. Stainless steel or solid copper louvers
- C. Translucent etched white acrylic diffuser
- D. Cast aluminum wall plate with powder coat finish
- E. Supplied with HPF, electronic ballast for minus 15° F starting
- F. Stainless steel fasteners

Mounting

Recessed 3 1/2" or 4" octagonal wiring box

Options available at additional cost

- A. Add suffix BP for brown patina
- B. Add suffix 277 for 277 V electronic HPF ballast
- C. Add suffix ALB for Acrylic Alabaster diffuser

Note

U.L. and CUL listed, suitable for wet locations.
Complies with ADA requirements.

Product Number	Lamp	Rings	AA	BB	Finish Option
6243 / Natural	18W 2G11	St. Stil.	20 ¹ / ₄ "	5 ¹¹ / ₁₆ "	Brown Patina
6223 / Natural	18W 2G11	Copper.	20 ¹ / ₄ "	5 ¹¹ / ₁₆ "	Brown Patina
6643 / Nickel*	18W 2G11	St. Stil.	20 ¹ / ₄ "	5 ¹¹ / ₁₆ "	None
6244 / Natural	39W 2G11	St. Stil.	26 ¹ / ₄ "	5 ¹¹ / ₁₆ "	Brown Patina
6224 / Natural	39W 2G11	Copper	26 ¹ / ₄ "	5 ¹¹ / ₁₆ "	Brown Patina
6644 / Nickel*	39W 2G11	St. Stil.	26 ¹ / ₄ "	5 ¹¹ / ₁₆ "	None

*Nickel Plate

Wall luminaires

Housing: One piece die cast aluminum supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box.

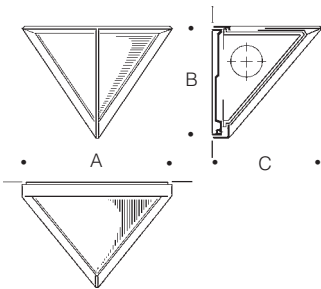
Enclosure: Molded clear glass diffuser ¼" thick with internal structure and translucent white ceramic coating retained by one piece die cast aluminum frame, secured by captive socket head, stainless steel, screws threaded into stainless steel inserts. Interior of lamp compartment painted gloss white. Fully gasketed for weather tight operation in any mounting orientation using a molded silicone rubber 'U' channel.

Electrical: Lampholders: Incandescent are medium base porcelain with nickel plated screw shell supplied with 200°C high temperature leads. Incandescent rated 600V. Available in 120V only.

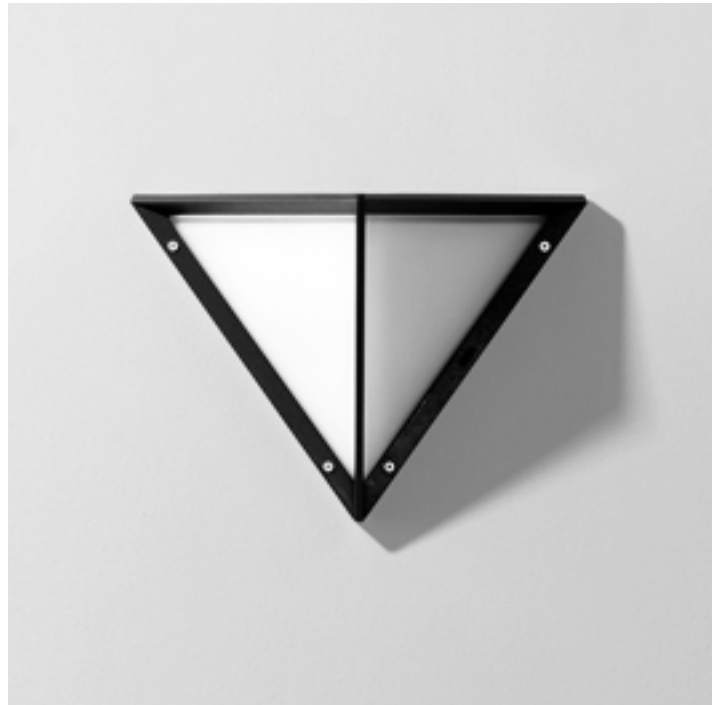
Finish: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. For complete description of BEGA finishing process, refer to technical information section at end of catalog. Custom colors supplied on special order.

U.L. listed, suitable for wet locations. Protection class: IP 65.

Type:
 BEGA Product #:
 Project:
 Voltage:
 Color:
 Options:
 Modified:

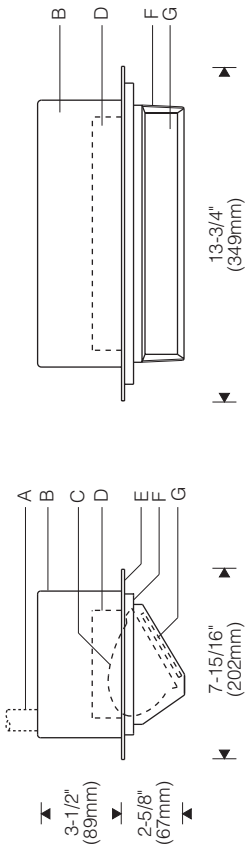


Wall mounted luminaires with die cast aluminum frame and center guard. Heavy pressed crystal glass with internal linear structure and white translucent ceramic coating. U.L. listed, suitable for wet locations. IP 65. Up or down orientation. Color: Standard BEGA finishes.

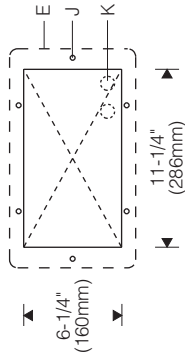


		Lamp	Lumen	A	B	C
3240	Wall	1 100W A-19	1710	15¾	11⅞	11

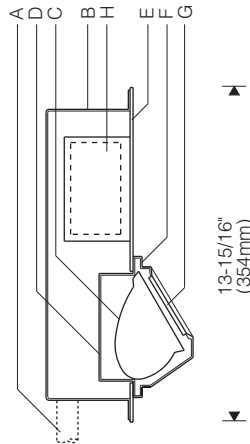
Style 251 (Halogen, metal halide remote) 1:8 Scale



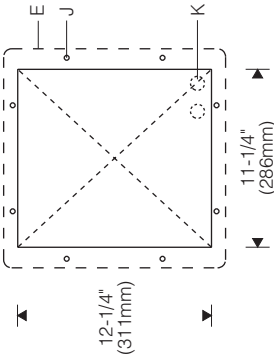
Rough Opening (Style 251)



Style 253 (Metal halide integral) 1:8 Scale



Rough Opening (Style 253)



Specifications

- A** Conduit (by others)
- D** Aluminum back box
- B** Seam welded stainless steel recessed housing
- E** 1/8" aluminum faceplate
- C** Specular extruded aluminum reflector
- F** Die-cast aluminum hood
- G** Micro-prismatic, thermal and impact resistant tempered glass lens
- H** Integral ballast compartment (Style 253)
- J** Threaded inserts for attaching recessed housing to concrete form (hardware provided)
- K** 7/8" dia. conduit entries (2 on top, 2 on side)

Finish:

Exterior surfaces - 6 stage pretreatment and electrostatically applied thermoset polyester powder coating for a durable abrasion, fade and corrosion resistant finish. Choice of semi-gloss colors (see ordering information).

Reflector - extruded high purity aluminum with clear anodized specular finish. All hardware and components - non corrosive stainless steel or aluminum. Faceplate and hood secured with tamper-resistant (Torx) screws. Hood screws are captive.

Mounting:

Fixture installs into poured concrete ceiling. Recessed housing mounts to concrete form prior to pouring concrete. Full size template provided. Threaded rod and hardware included for attachment to concrete form. Recessed housing can be ordered separately for installation prior to reflector and ballast assembly, specify **OT** option code.

For mounting in framed ceiling construction in damp locations, see Style 201/205 in Lighting the Wall Section.

Electrical:

Use 90°C wire for supply connections. Recessed housing supplied with four 7/8" dia. conduit entries (two on top of housing, two on side).

Tungsten halogen - DC bayonet lampholder retained with patented clamping supports for maximum heat dissipation.

Metal halide - G12 lampholder for use with single ended lamp. HPF high reactance autotransformer (HX-HPF) ballast rated for -20°F/-29°C starting. Optional electronic ballast with automatic shut-off to eliminate end-of-life cycling.

Style 251 - remote encapsulated ballast for indoor dry location. For remote wet location ballast, consult local sales representative.

Style 253 - integral ballast.

For complete ballast specifications, see Accessories Section.

Standard:

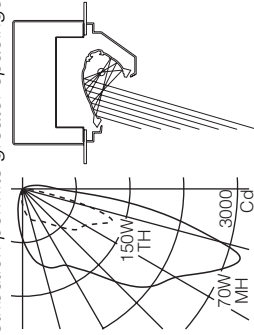
UL listed or CSA certified for wet locations. For installation in poured concrete only.

Features

- Low profile focuses attention on luminous wall, not luminaire
- Evenly lights entire wall - reflector aperture is shielded
- Shallow recessed depth - ideal for poured concrete ceilings
- Built to last - all aluminum and stainless steel components
- Durable, secure - 1/8" aluminum faceplate, die-cast hood, thermal and impact resistant lens; tamper-resistant screws

Performance

Two parabolic reflector sections drive light down the vertical plane from one edge. An elliptical section redirects its light to a parabola and shields the lamp. Asymmetry is maximized resulting in high beam efficiency and superior surface uniformity. The fast "runback" minimizes glare and spill light. Wide lateral distribution permits greater spacings.



To Order

To form a Catalog Number

1 2 3 4 5 6 7 8

1 Source

M = Metal halide
T = Tungsten halogen

2 Style

251 = Small outdoor semi-recessed, **remote** ballast

Note: Available for tungsten halogen (no ballast) and metal halide. Remote ballast is suitable for dry indoor location. For wet location ballast, consult local sales representative.

253 = Small outdoor semi-recessed, **integral** ballast
Note: Available for metal halide only.

3 Lamp

Lamp Code	Wattage	Lamp Number	Voltage(s)	Ballast	Distance
Ceramic Metal Halide*					
035G	35	CMH35/T6/G12	A, B	HX-HPF	15'(4.5m)
			1, 2	Electr.	15'(4.5m)
070G	70	CMH70/T6/G12	A, B, H	HX-HPF	10'(3m)
			1, 2	Electr.	15'(4.5m)
150G	150	CMH150/T6/G12	A, B, H	HX-HPF	10'(3m)
			1, 2	Electr.	15'(4.5m)

Tungsten Halogen

0100	100	Q100DC	A
0150	150	Q150DC	A

For complete lamp and ballast information, see Accessories Section.
* Metal halide lamps using ceramic arc tubes yield higher light output than lamps with quartz arc tubes. They offer improved lamp-to-lamp color consistency and a more stable color temperature over their life (±200K). Standard lamp color is 3000K / 80+ CRI.

4 Mounting

T = Recessed housing for use in poured concrete ceiling with overlapping trim/faceplate

Note: For mounting in framed ceiling construction in damp locations, see Style 201/205 in Lighting the Wall Section.

5 Finish

02 = Semi-gloss white
06 = Dark bronze
07 = Silver
08 = Semi-gloss black
12 = Green
99 = Custom RAL or computer matched color to be specified, consult sales representative.

REV: 4/04

elliptipar

Project:

6 Voltage/Ballast

Magnetic
A = 120V
B = 277V
H = 347V (Canada)*

Electronic
1 = 120V
2 = 277V

* Not available for 35W metal halide

7 Option

(See Accessories Section for specifications)

- 00 = No options
- 0H = Style 251 long distance remote metal halide ballast for dry indoor location, 35W: 15' min. up to 50' max. (4.5m - 15m), 70W: up to 50' max. (15m), 150W: up to 50' max. (15m)
- 0T = Luminaire supplied less recessed housing (includes reflector, ballast and faceplate assembly).
Note: Requires previous installation of recessed housing kit in poured concrete (order separately, see Accessories).
- XX = For modification not listed, include detailed description. Consult factory prior to specification.

8 Standard

- 0 = UL listed, Underwriters Laboratories
- J = CSA certified, Canadian Standards Association

Example

M253 - 070G - T - 07 - B - 000

Small outdoor semi-recessed with hood for use with 70W metal halide lamp. Recessed housing for use in poured concrete. Overlapping trim/faceplate. Silver powder coat finish. Integral 277V ballast. UL.

Style 251 / 253

Type:

Accessories

Order separately. See Accessories Page for specifications.

AFK000X = Ballast fuse kit



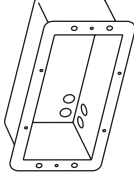
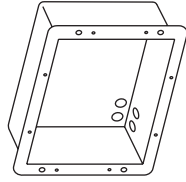
0 = UL
J = CSA

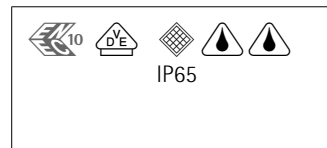
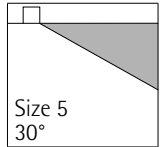
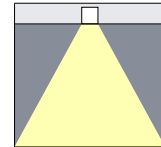
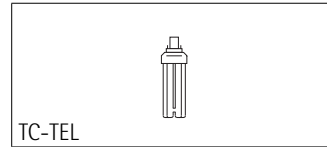
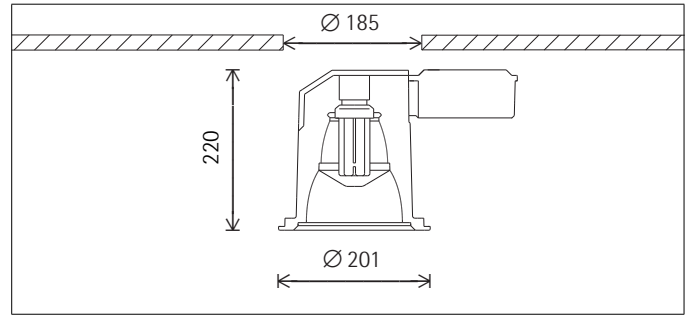
VRH

0 = Recessed housing kit with hardware, for installation in poured concrete.

Note: Required only when installing recessed housing in advance of electrical and finish components. Order reflector, ballast and faceplate assembly separately, specify 0T option code.

T251 = tungsten halogen
M251 = metal halide remote
M253 = metal halide integral





81029.000 Reflector silver
TC-TEL 18W GX24q-2 1150lm
ECG

Product description

Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw-tightening. Side-mounted control gear: plastic, black.

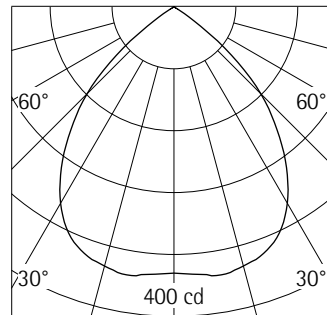
Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser as lamp cover: plastic, translucent.

Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.

Protection mode IP65: dust-proof and water-jet proof.

Weight 2.40kg



TC-TEL 18W GX24q-2 1150lm

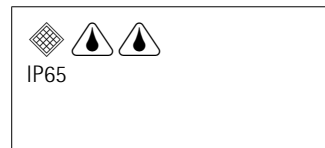
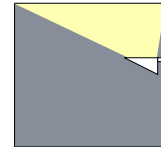
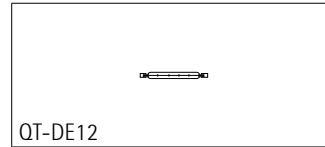
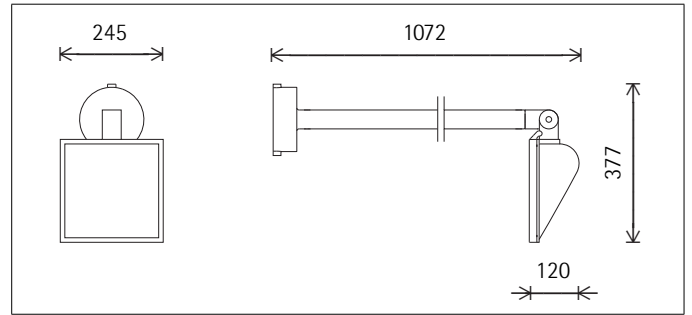
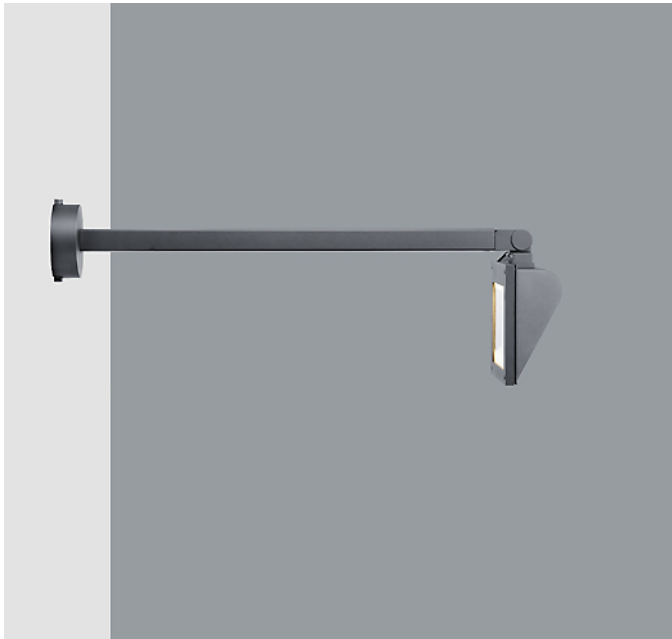
h(m)	E(lx)	D(m)
		87°
1	344	1.90
2	86	3.80
3	38	5.69
4	22	7.59
5	14	9.49

Planning data

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
Ambient conditions												
LMF	0.98	0.94	0.90	0.86	0.95	0.91	0.86	0.81	0.94	0.90	0.84	0.79
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000	4000	6000	8000	10000
LLMF	0.97	0.92	0.88	0.85	0.83	0.83
LSF	1	1	1	1	1	1

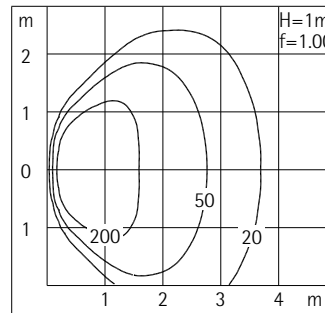
- MF LMFxRSMFxLLMFxLSF
- MF Maintainance Factor
- LMF Lumiaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty



33290.000 Graphit m
 QT-DE12 300W 230V R7s L114mm
 5300lm

Product description

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^\circ$ tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240° . Cantilever: stainless steel tube, powder-coated. 2 cable entries. Through-wiring possible. 3-pole terminal block. Reflector: aluminium, silver anodised. Without spill light. Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and water jet-proof. Weight 6.70kg. Maximum wind load area 0.1m²



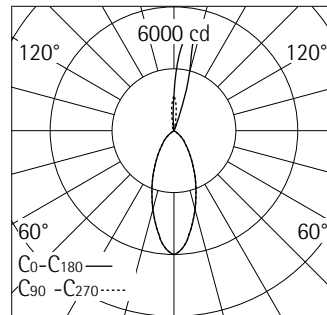
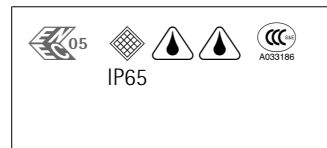
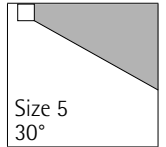
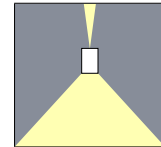
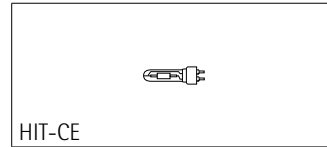
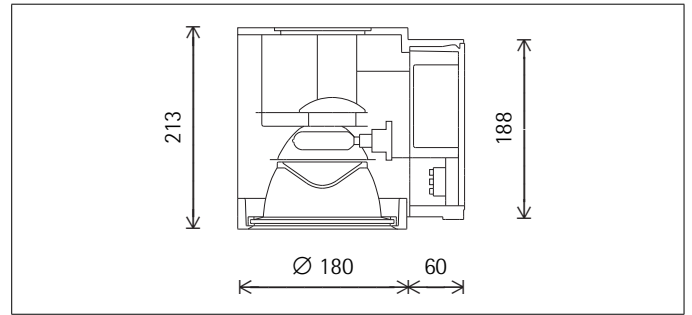
Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.98	0.94	0.90	0.86	0.95	0.91	0.86	0.81	0.94	0.90	0.84	0.79
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000
LLMF	0.98	0.95
LSF	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintainance Factor
- LMF Lumiaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty

direct/indirect lighting for metal halide lamps



HIT-CE 70W G12 7100lm

85028.000 Graphit m
HIT-CE 70W G12 7100lm
ECG

Product description

Housing and wall plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Upper safety glass.

2 cable entries. Through-wiring possible. 3-pole terminal block. Electronic control gear.

Vario-lens, adjustable, 3 levels for indirect light emission 8°, 15°, 30°. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser as lamp cover: glass, frosted.

Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw.

Protection mode IP65: dust-proof and water jet-proof.

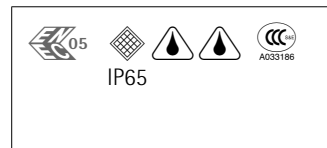
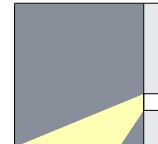
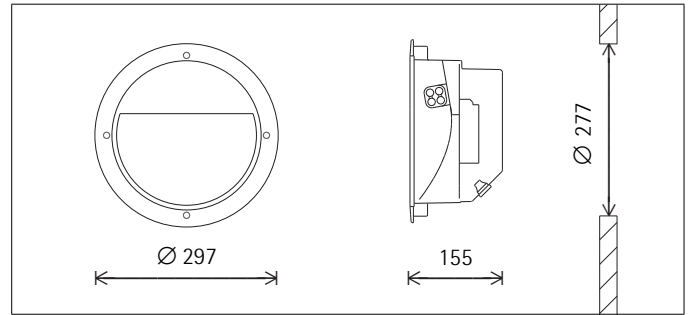
Weight 4.80kg

Planning data

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
Ambient conditions												
LMF	0.98	0.94	0.90	0.86	0.95	0.91	0.86	0.81	0.94	0.90	0.84	0.79
RSMF	0.96	0.92	0.88	0.85	0.93	0.89	0.85	0.81	0.90	0.86	0.82	0.78

Hours of operation (h)	1000	2000	4000	6000	8000	10000	12000
LLMF	0.89	0.84	0.81	0.79	0.77	0.76	0.75
LSF	1	1	1	1	1	1	1

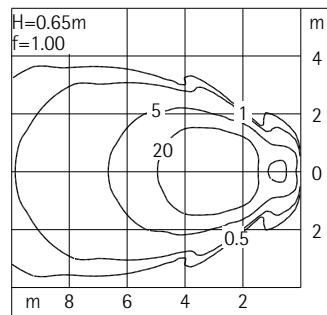
- MF LMFxRSMFxLLMFxLSF
- MF Maintainance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty



33305.000 Reflector silver
HIT-TC-CE 35W G8.5 3300lm

Product description

Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, No-rinse surface treatment. Black double powder-coated. Mounting by means of an adjustable bar. Clamp extension 0-30mm. Pre-drilled holes in the base of the housing. 2 cable entries. Through-wiring possible. 5-pole terminal block. Control gear with temperature controller, timer-ignitor, capacitor. Asymmetric reflector system: aluminium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission. Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt. Protection mode IP65: dust-proof and water jet-proof. Weight 4.70kg. Temperature on the light aperture 59°C

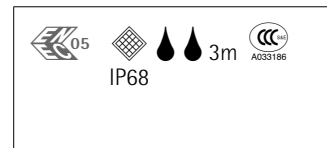
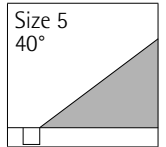
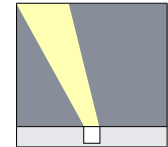
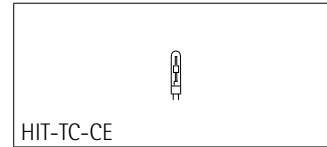
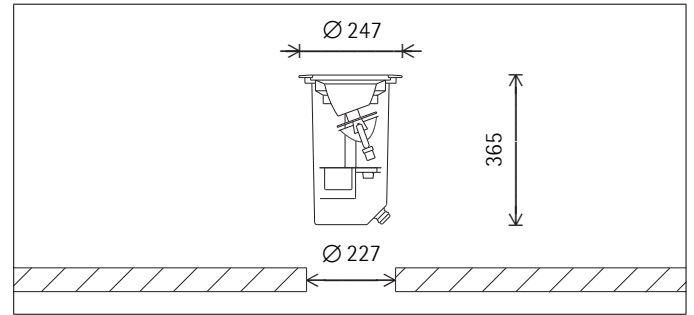


Planning data

Cleaning (a)	1				2				3			
	P	C	N	D	P	C	N	D	P	C	N	D
Ambient conditions												
LMF	0.98	0.94	0.90	0.86	0.95	0.91	0.86	0.81	0.94	0.90	0.84	0.79
RSMF	0.99	0.98	0.96	0.95	0.97	0.96	0.95	0.94	0.97	0.96	0.95	0.94

Hours of operation (h)	1000	2000	4000	6000	8000	9000
LLMF	0.94	0.86	0.82	0.75	0.69	0.66
LSF	1	1	1	1	1	1

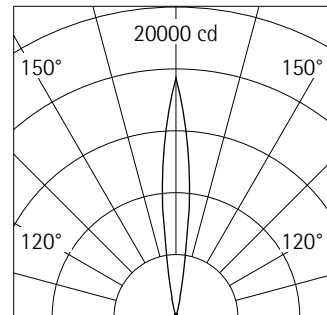
- MF LMFxRSMFxLLMFxLSF
- MF Maintainance Factor
- LMF Lumiaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty



33718.000 Reflector silver
HIT-TC-CE 35W G8.5 3300lm

Product description

Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Black double powder-coated. Lampholder carrier 0°-20° tilt. Mounting by means of an adjustable bar. Clamp extension up to 35mm.
Cable 3x1.5mm², L 1m.
Control gear with temperature controller, timer-ignitor, capacitor.
Darklight reflector: aluminium, silver anodised. Cut-off angle 40°. Without spill light.
Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel.
Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN.
Spot reflector: aluminium, silver anodised. Glass with anti-dazzle cylinder.
Installation with separate connection sleeve.
Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided using a residual current circuit breaker, FI<30mA.
Weight 7.30kg
Temperature on the light aperture 63°C



HIT-TC-CE 35W G8.5 3300lm

h(m)	E(lx)	D(m)
		13°
5	616	1.14
4	963	0.91
3	1712	0.68
2	3852	0.46
1	15407	0.23

Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.98	0.94	0.90	0.86	0.95	0.91	0.86	0.81	0.94	0.90	0.84	0.79
RSMF	0.94	0.88	0.82	0.77	0.91	0.84	0.77	0.70	0.84	0.78	0.72	0.64

Hours of operation (h)	1000	2000	4000	6000	8000	9000
LLMF	0.94	0.86	0.82	0.75	0.69	0.66
LSF	1	1	1	1	1	1

- MF LMFxRSMFxLLMFxLSF
- MF Maintainance Factor
- LMF Luminaire Maintenance Factor
- RSMF Room Surface Maintenance Factor
- LLMF Lamp Lumens Maintenance Factor
- LSF Lamp Survival Factor
- P Room pure
- C Room clean
- N Room normal
- D Room dirty



iCOLOR ACCENT

POWERED BY CHROMACORE®



Color Kinetics® iColor® Accent is a direct view indoor/outdoor linear light. Available in 1-, 4-, and 8- foot lengths, each segment can be interconnected to create long columns of color to highlight the outside of buildings or to accent displays in retail applications. Because iColor Accent has a diffused lens specifically designed for direct viewing, it can be used to create stunning effects in commercial and residential applications.

Designed to meet the rugged requirements of outdoor applications, iColor Accent is completely sealed and meets specifications for wet locations. It comes equipped with adjustable mounting brackets, which makes it extremely versatile and easily adaptable for even the most creative mounting environments.

iColor Accent is a harmonious blend of art and functionality. Modern and sophisticated, the housing combines a protective UV resistant and diffused plastic lens and a rugged support of extruded anodized aluminum. The diffuse plastic lens provides a 250° viewing angle of uniform color mixing brilliance. iColor Accent is designed with translucent ends to allow for uninterrupted columns of color. Each unit is pre-wired with over-molded locking connectors to supply both power and data to the light and simplify installation.

iColor Accent can be controlled by a Color Kinetics controller or a third-party controller. Each fixture contains one, four, or eight light segments, depending on the size. Each segment is programmed with a serial number and addressed sequentially beginning with light number one at the time of manufacture. For example, a four-foot fixture is addressed with light numbers one through four. With a controller, address all segments to the same light number for simple effects such as fixed color and color wash. Other effects across multiple lights, including Chasing Rainbow or Color Sweep, require further addressing using one of the following Color Kinetics addressing tools: Serialized Addressing Software (SAS) or Zapi.

iCOLOR ACCENT SPECIFICATIONS

COLOR RANGE	16.7 million (24bit) additive RGB colors; continuously variable intensity output range
SOURCE	High intensity, surface mount, colored LEDs
VISIBILITY RANGE	253° x 180°
HOUSING	Sealed plastic housing with extruded aluminum support
CONNECTORS	Over-molded, integral male/female connectors
LISTINGS	C-UL US listed, CE certified

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data interface system
CONTROL	Color Kinetics full line of controllers or other DMX512 (RS485) compatible when using Color Kinetics power/data supply

ELECTRICAL SPECIFICATIONS

POWER REQUIREMENT	24VDC
POWER CONSUMPTION	7.2W (1-foot), 28.8W (4-foot), 57.6W (8-foot) Max. at full intensity
POWER SUPPLY	PDS-500e (ITEM# 109-000009-00)

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	-4°F to 122°F (-20°C to 50°C) based on testing of specific product
PROTECTION RATING	IP66

SOURCE LIFE

Color Kinetics illumination products utilize high brightness LEDs as the illumination source. LED manufacturers predict LED life of up to 100,000 hours MTBF (mean time between failure), the standard used by conventional lamp manufacturers to measure source life. However, like all basic light sources, LEDs also experience lumen depreciation over time. So while LEDs can emit light for an extremely long period of time, MTBF is not the only consideration in determining useful life. LED lumen depreciation is affected by numerous environmental conditions such as ambient temperature, humidity and ventilation. Lumen depreciation is also affected by means of control, thermal management, current levels, and a host of other electrical design considerations.

Color Kinetics systems are expertly engineered to optimize LED life when used under normal operating conditions [ambient temperature: -4°F to 104°F (-20°C to 40°C), humidity: 0-95% non-condensing humidity, adequate ventilation and air volume] and when operated using typical color-changing effects. Long-term operation outside of these ranges or conditions, or at the upper limits of these ranges or conditions, may subject the product to further degradation of the LED source life, or in extreme cases, failure of internal components. Source life information is based on LED manufacturers' data, as well as other third party testing.

CHROMACORE®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



ITEM# 101-000008-00 (1-foot)
101-000008-01 (4-foot)
101-000008-02 (8-foot)

This product is protected by one or more of the following patents: U.S. Patent Nos. 6,016,038, 6,150,774 and other patents listed at <http://colorkinetics.com/patents/>. Other patents pending.

©2005 Color Kinetics Incorporated. All rights reserved. Chromacore, Chromasic, Color Kinetics, the Color Kinetics logo, ColorBlast, ColorBlaze, ColorBurst, ColorCast, ColorPlay, ColorScape, Direct Light, iColor, iColor Cove, iPlayer, Optibin, QuickPlay, Sauce, the Sauce logo, and Smartjuice are registered trademarks and DIMand, IntelliWhite, Powercore, and Video With Light are trademarks of Color Kinetics Incorporated.

All other brand or product names are trademarks or registered trademarks of their respective owners.

BR0091 Rev 04

Specifications subject to change without notice.

iCOLOR ACCENT

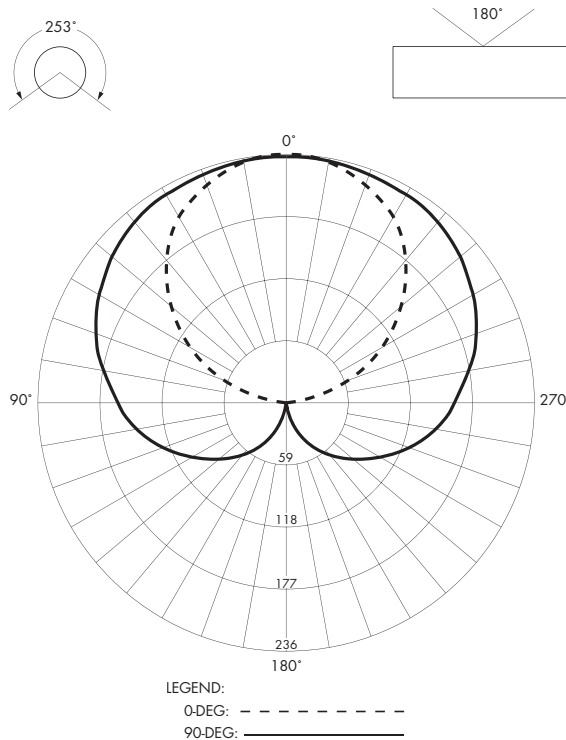
PHOTOMETRIC PERFORMANCE

Photometric data is based on test results from an independent testing lab.

SOURCE SPECIFICATIONS

- Lens: White polycarbonate diffuser
- Source: 54 LEDs (18 Red, 18 Green, 18 Blue) per 1-foot section
- Beam Angle: 253° x 180° (at 50% of peak illuminance)
- Distribution: Symmetric direct illumination
- CCT: Adjustable 1,000–10,000K
- CRI: Not measurable (CIE 13.3-1995)

CANDELA DISTRIBUTION



LUMINANCE DATA IN CANDELA/SQ METER

Angle in Vertical	Average 0	Average 45	Average 90
45	431	433	437
55	406	420	428
65	363	403	419
75	283	392	414
85	108	377	401

Note: iColor Accent is a direct view product. As a result, the measurements are luminance-based. Units are candela/meters² (nits).

Lamp Schedule

Label	Type	CRI	CCT	W	Initial Lumen	Mean Lumen	Manufactuer
T8-A	T8	80	3500	25	2250	2050	Philips
T8-B	T8	80	3500	32	2950	2800	Philips
T8 - U	T8 U bent	80	3500	32W	2800	2535	Philips
TT-A	TT	80	3500	26	1800	-	Philips
TT-B	TT	80	3500	35	2400	-	Philips
TT-C	TT	80	3500	45	3200	-	Philips
TT-D	TT	80	3500	18	1200	1130	Philips
T5ho-A	T5Ho	80	3500	49	4900	4606	GE
Halo-A	Hal. LV	-	-	50	75	-	GE
T5-A	T5	80	3500	21	2100	1974	GE
T5-B	T5	80	3500	28	2900	2726	GE
T5-C	T5	80	3500	35	3650	3431	GE
MH-1	MH	80	4200	70	5700	4560	Philips
MH-2	MH	83	3000	35	3300	2600	Philips
MH-3	MH	830	3000	70	6600	4950	Philips
TH-1	TH	-	-	300	5000	-	Philips



United States / English

 Search

[About Philips](#)
[Consumer Products](#)
[Lighting](#)
[Medical Systems](#)
[Semiconductors](#)


You are here: [Home](#) [Lighting](#) [eCatalog](#) [Lamps](#) [Fluorescent](#) [T8](#) **ALTO® Universal T8**

eCatalog

Lamps

Fluorescent

T8

ALTO® Universal T8

[ALTO® Plus T8](#)
[ALTO® Advantage™ T8](#)
[ALTO® Energy](#)
[Advantage™ T8](#)
[Rapid Start T8](#)
[U-Bent Rapid Start T8](#)
[Preheat T8](#)
[ALTO® Plus Slimline T8](#)
[ALTO® Plus High Output T8](#)
[ALTO® High Output T8](#)
[Appliance T8](#)
[Lighting Solutions](#)
[Breakthrough Products](#)
[Special Offers](#)
[TradeLinkSM](#)
[Lighting Application Center](#)
[Browse Literature](#)
[Environment &](#)
[Sustainability](#)

Last update: March 23, 2006

[Back](#)
[Download](#) | [Print pr](#)

F25T8 TL835 36 ALTO 1LP


 General [+ Images](#)

PRODUCT DATA

Product Number	368142
Full product name	F25T8 TL835 36 ALTO 1LP
Ordering Code	F25T8/TL835/ALTO
Pack type	1 Lamp Packed in Case Qty
Pieces per pack	1
Packs per case	25
Pack UPC	046677368142
EAN2US	-
Case Bar Code	50046677368147
Successor Product number	-
Name Type	F25T8
Color Code	TL835 [CCT of 3500K]
Nominal Length [inch]	36
Feature	ALTO [ALTO®]
Packing Type	1LP [1 Lamp Packed in Case Qty]
Packing Configuration	25
Base	Medium Bi-Pin[Medium Bi-Pin]
Base Information	Green Base
Bulb	T8[Diameter: 1 inch]
Rated Avg. Life [3 hr Start][hr]	20000
Rated Avg. Life [12-Hr Start][hr]	25000
Energy Saving Product	Energy Saving
Wattage[W]	25
Mercury (Hg) Content[mg]	3.5
Color Rendering Index[Ra8]	85
Color Temperature[K]	3500
Initial Lumens[Lm]	2225
Design Mean Lumens[Lm]	2050



United States / English

Search

[About Philips](#)[Consumer Products](#)[Lighting](#)[Medical Systems](#)[Semiconductors](#)**You are here:** [Home](#) [Lighting](#) [eCatalog](#) [Lamps](#) [Fluorescent](#) [T8](#) **ALTO® Universal T8****eCatalog****Lamps****Fluorescent****T8****ALTO® Universal T8**[ALTO® Plus T8](#)[ALTO® Advantage™ T8](#)[ALTO® Energy](#)[Advantage™ T8](#)[Rapid Start T8](#)[U-Bent Rapid Start T8](#)[Preheat T8](#)[ALTO® Plus Slimline T8](#)[ALTO® Plus High Output T8](#)[ALTO® High Output T8](#)[Appliance T8](#)[Lighting Solutions](#)[Breakthrough Products](#)[Special Offers](#)[TradeLinkSM](#)[Lighting Application Center](#)[Browse Literature](#)[Environment &](#)[Sustainability](#)

Last update: March 23, 2006

[Back](#)[Download](#) | [Print pr](#)

F32T8 TL835 48 ALTO 1LP

**General**[+ Images](#)**PRODUCT DATA**

Product Number	246702
Full product name	F32T8 TL835 48 ALTO 1LP
Ordering Code	F32T8/TL835/ALTO
Pack type	1 Lamp Packed in Case Qty
Pieces per pack	1
Packs per case	25
Pack UPC	046677246709
EAN2US	-
Case Bar Code	50046677246704
Successor Product number	-
Name Type	F32T8
Color Code	TL835 [CCT of 3500K]
Nominal Length [inch]	48
Feature	ALTO [ALTO®]
Packing Type	1LP [1 Lamp Packed in Case Qty]
Packing Configuration	25
Base	Medium Bi-Pin[Medium Bi-Pin]
Base Information	Green Base
Bulb	T8[Diameter: 1 inch]
Rated Avg. Life [3 hr Start][hr]	20000
Rated Avg. Life [12-Hr Start][hr]	25000
Energy Saving Product	Energy Saving
Wattage[W]	32
Mercury (Hg) Content[mg]	3.5
Color Rendering Index[Ra8]	85
Color Temperature[K]	3500
Initial Lumens[Lm]	2950
Design Mean Lumens[Lm]	2800



United States / English

Search



[About Philips](#) | [Consumer Products](#) | [Lighting](#) | [Medical Systems](#) | [Semiconductors](#)



You are here: [Home](#) [Lighting](#) [eCatalog](#) [Lamps](#) [Fluorescent](#) [T8](#) **U-Bent Rapid Start T8**

eCatalog

Lamps

Fluorescent

T8

[ALTO® Universal T8](#)

[ALTO® Plus T8](#)

[ALTO® Advantage™ T8](#)

[ALTO® Energy](#)

[Advantage™ T8](#)

[Rapid Start T8](#)

U-Bent Rapid Start T8

[Preheat T8](#)

[ALTO® Plus Slimline T8](#)

[ALTO® Plus High Output T8](#)

[ALTO® High Output T8](#)

[Appliance T8](#)

[Lighting Solutions](#)

[Breakthrough Products](#)

[Special Offers](#)

[TradeLinkSM](#)

[Lighting Application Center](#)

[Browse Literature](#)

[Environment &](#)

[Sustainability](#)

Last update: March 23, 2006

[Back](#)

[Download](#)

[Print pr](#)

FB32T8/6 TL835 22.44 ALTO 1LP



General



[+ Images](#)



PRODUCT DATA

Product Number	379008
Full product name	FB32T8/6 TL835 22.44 ALTO 1LP
Ordering Code	FB32T8/TL835/6/ALTO
Pack type	1 Lamp Packed in Case Qty
Pieces per pack	1
Packs per case	20
Pack UPC	046677379001
EAN2US	-
Case Bar Code	50046677379006
Successor Product number	-
Name Type	FB32T8/6
Color Code	TL835 [CCT of 3500K]
Nominal Length [inch]	22.44
Feature	ALTO [ALTO®]
Packing Type	1LP [1 Lamp Packed in Case Qty]
Packing Configuration	20
Base	Medium Bi-Pin[Medium Bi-Pin]
Base Information	Green Base
Bulb	T8-6U[U-bent T 8/8 inch with 6" spacing
Rated Avg. Life [3 hr Start][hr]	20000
Energy Saving Product	Energy Saving
Wattage[W]	32
Mercury (Hg) Content[mg]	3.0
Color Rendering Index[Ra8]	85
Color Temperature[K]	3500

Lamp T8-U Page 4

Initial Lumens[Lm]	2800
Design Mean Lumens[Lm]	2535

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™





United States / English



Search



[About Philips](#)

[Consumer Products](#)

[Lighting](#)

[Medical Systems](#)

[Semiconductors](#)



You are here: [Home](#) [Lighting](#) ... [PL-T Triple 4-Pin Base](#) **PL-T Triple 4-Pin Base**

eCatalog

Lamps

[Compact Fluorescent-](#)

[NonIntegrated](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin HTA](#)

[Lighting Solutions](#)

[Breakthrough Products](#)

[Special Offers](#)

[TradeLinkSM](#)

[Lighting Application Center](#)

[Browse Literature](#)

[Environment &](#)

[Sustainability](#)

Last update: March 23, 2006

[Back](#)

[Download](#) | [Print pr](#)

PL-T 26W/835 GX24q-3 /4P ALTO 1CT



General [+ Images](#)

PRODUCT DATA

Product Number	268243
Full product name	PL-T 26W/835 GX24q-3 /4P ALTO 1CT
Ordering Code	PL-T 26W/835/4P/ALTO
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677268244
EAN2US	-
Case Bar Code	50046677268249
Successor Product number	-
Wattage[W]	26W
Color Code	835 [CCT of 3500K]
Base	GX24q-3 [GX24q-3]
Execution	/4P [4 Pins]
Special packing	ALTO
Packing Type	1CT [1 Lamp in a Folding Carton]
Base Information	4P
Packing Configuration	12
Avg. Hrs. Life[hr]	12000
Lamp Voltage[V]	80
Dimmable	Yes
Color Rendering Index[Ra8]	82

Lamp TT-A Page 6

Color Designation	White
Color Description	835 White
Color Temperature[K]	3500
Initial Lumens[Lm]	1800
Initial Lumens[Lm]	1800
Overall Length C[mm]	126.4
Diameter D[mm]	41
Diameter D1[mm]	41

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™





United States / English



Search



[About Philips](#)

[Consumer Products](#)

[Lighting](#)

[Medical Systems](#)

[Semiconductors](#)



You are here: [Home](#) [Lighting](#) ... [PL-T Triple 4-Pin Base](#) **PL-T Triple 4-Pin Base**

eCatalog

Lamps

[Compact Fluorescent-](#)

[NonIntegrated](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin HTA](#)

[Lighting Solutions](#)

[Breakthrough Products](#)

[Special Offers](#)

[TradeLinkSM](#)

[Lighting Application Center](#)

[Browse Literature](#)

[Environment &](#)

[Sustainability](#)

Last update: March 23, 2006

[Back](#)

[Download](#) | [Print pr](#)

PL-T 32W/835 GX24q-3 /4P ALTO 1CT



General [+ Images](#)

PRODUCT DATA

Product Number	268334
Full product name	PL-T 32W/835 GX24q-3 /4P ALTO 1CT
Ordering Code	PL-T 32W/835/4P/ALTO
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677268336
EAN2US	-
Case Bar Code	50046677268331
Successor Product number	-
Wattage[W]	32W
Color Code	835 [CCT of 3500K]
Base	GX24q-3 [GX24q-3]
Execution	/4P [4 Pins]
Special packing	ALTO
Packing Type	1CT [1 Lamp in a Folding Carton]
Base Information	4P
Packing Configuration	12
Avg. Hrs. Life[hr]	12000
Lamp Voltage[V]	-
Dimmable	Yes
Color Rendering Index[Ra8]	82

Lamp TT-B Page 8

Color Designation	White
Color Description	835 White
Color Temperature[K]	3500
Initial Lumens[Lm]	-
Initial Lumens[Lm]	2400
Overall Length C[mm]	141.4
Diameter D[mm]	41
Diameter D1[mm]	41

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™





United States / English



Search



[About Philips](#)

[Consumer Products](#)

[Lighting](#)

[Medical Systems](#)

[Semiconductors](#)



You are here: [Home](#) [Lighting](#) ... [PL-T Triple 4-Pin Base](#) **PL-T Triple 4-Pin Base**

eCatalog

Lamps

[Compact Fluorescent-](#)

[NonIntegrated](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin HTA](#)

[Lighting Solutions](#)

[Breakthrough Products](#)

[Special Offers](#)

[TradeLinkSM](#)

[Lighting Application Center](#)

[Browse Literature](#)

[Environment &](#)

[Sustainability](#)

Last update: March 23, 2006

[Back](#)

[Download](#) | [Print pr](#)

PL-T 42W/835 GX24q-4 /4P ALTO 1CT



General



[+ Images](#)



PRODUCT DATA

Product Number	268755
Full product name	PL-T 42W/835 GX24q-4 /4P ALTO 1CT
Ordering Code	PL-T 42W/835/4P/ALTO
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677268756
EAN2US	-
Case Bar Code	50046677268751
Successor Product number	-
Wattage[W]	42W
Color Code	835 [CCT of 3500K]
Base	GX24q-4 [GX24q-4]
Execution	/4P [4 Pins]
Special packing	ALTO
Packing Type	1CT [1 Lamp in a Folding Carton]
Base Information	4P
Packing Configuration	12
Avg. Hrs. Life[hr]	12000
Lamp Voltage[V]	-
Dimmable	Yes
Color Rendering Index[Ra8]	82

Lamp TT-C Page 10

Color Designation	White
Color Description	835 White
Color Temperature[K]	3500
Initial Lumens[Lm]	-
Initial Lumens[Lm]	3200
Overall Length C[mm]	159
Diameter D[mm]	39.85
Diameter D1[mm]	39.65

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™





United States / English



Search



[About Philips](#)

[Consumer Products](#)

[Lighting](#)

[Medical Systems](#)

[Semiconductors](#)



You are here: [Home](#) [Lighting](#) ... [PL-T Triple 4-Pin Base](#) **PL-T Triple 4-Pin Base**

eCatalog

Lamps

[Compact Fluorescent-](#)

[NonIntegrated](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin Base](#)

[PL-T Triple 4-Pin HTA](#)

[Lighting Solutions](#)

[Breakthrough Products](#)

[Special Offers](#)

[TradeLinkSM](#)

[Lighting Application Center](#)

[Browse Literature](#)

[Environment &](#)

[Sustainability](#)

Last update: March 23, 2006

[Back](#)

[Download](#) | [Print pr](#)

PL-T 18W/835 GX24q-2 /4P ALTO 1CT



General [+ Images](#)

PRODUCT DATA

Product Number	268201
Full product name	PL-T 18W/835 GX24q-2 /4P ALTO 1CT
Ordering Code	PL-T 18W/835/4P/ALTO
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677268206
EAN2US	-
Case Bar Code	50046677268201
Successor Product number	-
Wattage[W]	18W
Color Code	835 [CCT of 3500K]
Base	GX24q-2 [GX24q-2]
Execution	/4P [4 Pins]
Special packing	ALTO
Packing Type	1CT [1 Lamp in a Folding Carton]
Base Information	4P
Packing Configuration	12
Avg. Hrs. Life[hr]	12000
Lamp Voltage[V]	100
Dimmable	Yes
Color Rendering Index[Ra8]	82

Lamp TT-D Page 12

Color Designation	White
Color Description	835 White
Color Temperature[K]	3500
Initial Lumens[Lm]	1200
Initial Lumens[Lm]	1130
Overall Length C[mm]	116.4
Diameter D[mm]	39.85
Diameter D1[mm]	39.65

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™





GE Consumer & Industrial
Lighting

Commercial Products &

[SITE SEARCH](#)

[» HOME](#)

[» PRODUCTS](#)

[» EDUCATION / RESOURCES](#)

[» LIGHTING APPLIC](#)

[Product Search](#)

[Where to Buy](#) | [FAQs](#) | [Contact Us](#)

T5 Starcoat High Output Item Detail

[Home](#)

[Basic](#)

[LSB](#)

[Products](#)

[Fluorescent](#)

T5 Starcoat High
Efficiency

T5 Starcoat High Output

T5 Preheat

T8 Ecolux - TCLP
Compliant (2', 3', and 4')
w/ Starcoat

T8 Ecolux XL and SXL
(4') Extra Life w/ Starcoat

T8 ULTRA Watt-Miser
(4', 8', XL) w/ Starcoat

T8 ULTRA F28T8
UltraMax System w/
Starcoat

T8 ULTRA High Lumen
w/ Starcoat

T8 Mod-U-line®

F25T12 for T8 Ballasts

8' T8

8' T8 XL Extra Life

8' T8 Watt-Miser XL
Extra-Life

8' T8 High Output

8' T8 Instant Start

T8 Other Lengths

T8 Preheat

3' T12 (F30T12 and
F25T12) - Rapid Start

F40 Standard Rapid
Start

F40 XL Extra Life Rapid

General

Product Code	46752
Description	F49W/T5/835/ECO
Subcategory	T5 Starcoat High Output

Physical

Bulb Type	T5
Base Type	Miniature BiPin (G5)
Bulb Material	Soft Glass
Nominal Length (In.)	57.10
Nominal Length (mm)	1450
Max Overall Length (In.)	57.606
Bulb Nominal Diameter in inches	.625
Max bulb diameter	.67
Max Face to End of Opposing Pin (B)	57.33
Min Face to End of Opposing Pin (B)	57.23

Photometric

Lumens (Initial)	4900
Lumens (Mean)	4606
Color Temperature (K)	3500
Nominal Efficacy (Lumens/Watt)	100

Electrical

Average Rated Life	20000
Watts	49
Nominal Lamp Volts	191
Nominal Lamp Operating Frequency (Hz)	20000
Minimum Starting Temp (deg F)	5
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Instant Start at 15°C	625
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Rapid Start at 10°C	450
Max Cathode Resistance Ratio (Rh/Rc)	6.5
Min Cathode Resistance Ratio (Rh/Rc)	4.25

Miscellaneous

TCLP Regulated	Y
Additional Information	S/P Ratio: 1.5 Lumen Ratings at 35C. A



United States / English



Search



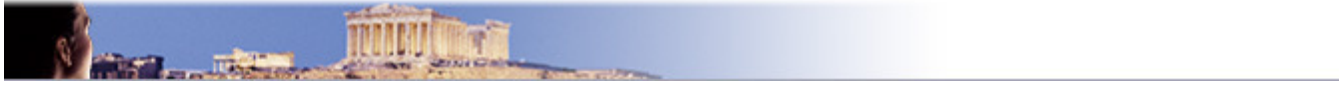
[About Philips](#)

[Consumer Products](#)

[Lighting](#)

[Medical Systems](#)

[Semiconductors](#)



You are here: [Home](#) [Lighting](#) ... [Lamps](#) [Halogen](#) [Low Voltage Capsules](#) **Low Voltage Capsules 2000 Hrs**

eCatalog

Lamps

Halogen

Low Voltage Capsules

Low Voltage Capsules

2000 Hrs

[Low Voltage Capsules 4000](#)

[Hrs](#)

[Lighting Solutions](#)

[Breakthrough Products](#)

[Special Offers](#)

[TradeLinkSM](#)

[Lighting Application Center](#)

[Browse Literature](#)

[Environment &](#)

[Sustainability](#)

Last update: March 23, 2006

[Back](#)

[Download](#)

[Print pr](#)

LV Capsule 50W GY6.35 12V T4 CL 1BC



General [+ Images](#)

PRODUCT DATA

Product Number	130161
Full product name	LV Capsule 50W GY6.35 12V T4 CL 1BC
Ordering Code	BC50W/T/
Pack type	1 Lamp in a Blister Card
Pieces per pack	1
Packs per case	12
Pack UPC	046677108670
EAN2US	-
Case Bar Code	50046677130164
Successor Product number	-
Wattage[W]	50W
Base	GY6.35 [GY6.35]
Voltage[V]	12V
Bulb	T4 [Diameter: .5 inch]
Bulb Finish	CL [Clear]
Packing Type	1BC [1 Lamp in a Blister Card]
Packing Configuration	12
Base Information	na[-]
Operating Position	Universal[Any or Universal (U)]
Rated Avg. Life[hr]	2000
Initial Lumens[Lm]	700
Overall Length C[mm]	44
Diameter D[mm]	12



GE Consumer & Industrial
Lighting

Commercial Products &

[SITE SEARCH](#)

[» HOME](#)

[» PRODUCTS](#)

[» EDUCATION / RESOURCES](#)

[» LIGHTING APPLIC](#)

[Product Search](#)

[Where to Buy](#) | [FAQs](#) | [Contact Us](#)

T5 Starcoat High Efficiency Item Detail

[Home](#)

[Basic](#)

[LSB](#)

[Products](#)

[Fluorescent](#)

T5 Starcoat High
Efficiency

T5 Starcoat High Output

T5 Preheat

T8 Ecolux - TCLP
Compliant (2', 3', and 4')
w/ Starcoat

T8 Ecolux XL and SXL
(4') Extra Life w/ Starcoat

T8 ULTRA Watt-Miser
(4', 8', XL) w/ Starcoat

T8 ULTRA F28T8
UltraMax System w/
Starcoat

T8 ULTRA High Lumen
w/ Starcoat

T8 Mod-U-line®

F25T12 for T8 Ballasts

8' T8

8' T8 XL Extra Life

8' T8 Watt-Miser XL
Extra-Life

8' T8 High Output

8' T8 Instant Start

T8 Other Lengths

T8 Preheat

3' T12 (F30T12 and
F25T12) - Rapid Start

F40 Standard Rapid
Start

F40 XL Extra Life Rapid

General

Product Code	46684
Description	F21W/T5/835/ECO
Subcategory	T5 Starcoat High Efficiency

Physical

Bulb Type	T5
Base Type	Miniature BiPin (G5)
Bulb Material	Soft Glass
Nominal Length (In.)	33.40
Nominal Length (mm)	850
Max Overall Length (In.)	33.984
Bulb Nominal Diameter in inches	.625
Max bulb diameter	.67
Max Face to End of Opposing Pin (B)	33.7
Min Face to End of Opposing Pin (B)	33.61

Photometric

Lumens (Initial)	2100
Lumens (Mean)	1974
Color Temperature (K)	3500
Nominal Efficacy (Lumens/Watt)	100

Electrical

Average Rated Life	20000
Watts	21
Nominal Lamp Volts	123
Nominal Lamp Operating Frequency (Hz)	20000
Minimum Starting Temp (deg F)	5
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Instant Start at 15°C	390
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Rapid Start at 10°C	340
Max Cathode Resistance Ratio (Rh/Rc)	6.5
Min Cathode Resistance Ratio (Rh/Rc)	4.25

Miscellaneous

TCLP Regulated	Y
Additional Information	S/P Ratio: 1.5 Lumen Ratings at 35C. At



GE Consumer & Industrial
Lighting

Commercial Products &

[SITE SEARCH](#)

[» HOME](#)

[» PRODUCTS](#)

[» EDUCATION / RESOURCES](#)

[» LIGHTING APPLIC](#)

[Product Search](#)

[Where to Buy](#) | [FAQs](#) | [Contact Us](#)

T5 Starcoat High Efficiency Item Detail

[Home](#)

[Basic](#)

[LSB](#)

[Products](#)

[Fluorescent](#)

T5 Starcoat High Efficiency

T5 Starcoat High Output

T5 Preheat

T8 Ecolux - TCLP Compliant (2', 3', and 4') w/ Starcoat

T8 Ecolux XL and SXL (4') Extra Life w/ Starcoat

T8 ULTRA Watt-Miser (4', 8', XL) w/ Starcoat

T8 ULTRA F28T8 UltraMax System w/ Starcoat

T8 ULTRA High Lumen w/ Starcoat

T8 Mod-U-line®

F25T12 for T8 Ballasts

8' T8

8' T8 XL Extra Life

8' T8 Watt-Miser XL Extra-Life

8' T8 High Output

8' T8 Instant Start

T8 Other Lengths

T8 Preheat

3' T12 (F30T12 and F25T12) - Rapid Start

F40 Standard Rapid Start

F40 XL Extra Life Rapid

General

Product Code	46705
Description	F28W/T5/835/ECO
Subcategory	T5 Starcoat High Efficiency

Physical

Bulb Type	T5
Base Type	Miniature BiPin (G5)
Bulb Material	Soft Glass
Nominal Length (In.)	45.20
Nominal Length (mm)	1150
Max Overall Length (In.)	45.795
Bulb Nominal Diameter in inches	.625
Max bulb diameter	.67
Max Face to End of Opposing Pin (B)	45.42
Min Face to End of Opposing Pin (B)	45.42

Photometric

Lumens (Initial)	2900
Lumens (Mean)	2726
Color Temperature (K)	3500
Nominal Efficacy (Lumens/Watt)	104

Electrical

Average Rated Life	20000
Watts	28
Nominal Lamp Volts	167
Nominal Lamp Operating Frequency (Hz)	20000
Minimum Starting Temp (deg F)	5
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Instant Start at 15°C	530
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Rapid Start at 10°C	425
Max Cathode Resistance Ratio (Rh/Rc)	6.5
Min Cathode Resistance Ratio (Rh/Rc)	4.25

Miscellaneous

TCLP Regulated	Y
Additional Information	S/P Ratio: 1.5 Lumen Ratings at 35C. At



GE Consumer & Industrial
Lighting

Commercial Products &

[SITE SEARCH](#)

[» HOME](#)

[» PRODUCTS](#)

[» EDUCATION / RESOURCES](#)

[» LIGHTING APPLIC](#)

[Product Search](#)

[Where to Buy](#) | [FAQs](#) | [Contact Us](#)

T5 Starcoat High Efficiency Item Detail

[Home](#)

[Basic](#)

[LSB](#)

[Products](#)

[Fluorescent](#)

T5 Starcoat High Efficiency

T5 Starcoat High Output

T5 Preheat

T8 Ecolux - TCLP Compliant (2', 3', and 4') w/ Starcoat

T8 Ecolux XL and SXL (4') Extra Life w/ Starcoat

T8 ULTRA Watt-Miser (4', 8', XL) w/ Starcoat

T8 ULTRA F28T8 UltraMax System w/ Starcoat

T8 ULTRA High Lumen w/ Starcoat

T8 Mod-U-line®

F25T12 for T8 Ballasts

8' T8

8' T8 XL Extra Life

8' T8 Watt-Miser XL Extra-Life

8' T8 High Output

8' T8 Instant Start

T8 Other Lengths

T8 Preheat

3' T12 (F30T12 and F25T12) - Rapid Start

F40 Standard Rapid Start

F40 XL Extra Life Rapid

General

Product Code	46727
Description	F35W/T5/835/ECO
Subcategory	T5 Starcoat High Efficiency

Physical

Bulb Type	T5
Base Type	Miniature BiPin (G5)
Bulb Material	Soft Glass
Nominal Length (In.)	57.10
Nominal Length (mm)	1450
Max Overall Length (In.)	57.606
Bulb Nominal Diameter in inches	.625
Max bulb diameter	.67
Max Face to End of Opposing Pin (B)	57.23
Min Face to End of Opposing Pin (B)	57.23

Photometric

Lumens (Initial)	3650
Lumens (Mean)	3431
Color Temperature (K)	3500
Nominal Efficacy (Lumens/Watt)	104

Electrical

Average Rated Life	20000
Watts	35
Nominal Lamp Volts	209
Nominal Lamp Operating Frequency (Hz)	20000
Minimum Starting Temp (deg F)	5
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Instant Start at 15°C	700
Min. Terminal to Terminal Starting Lamp Voltage (Vrms)- Rapid Start at 10°C	530
Max Cathode Resistance Ratio (Rh/Rc)	6.5
Min Cathode Resistance Ratio (Rh/Rc)	4.25

Miscellaneous

TCLP Regulated	Y
Additional Information	S/P Ratio: 1.5 Lumen Ratings at 35C. At


[United States / English](#)
 Search

[About Philips](#)
[Consumer Products](#)
[Lighting](#)
[Medical Systems](#)
[Semiconductors](#)


You are here: [Home](#) [Lighting](#) ... [High Intensity Discharge](#) [Metal Halide Quartz](#) **Double-Ended Metal Halide**

eCatalog

Lamps

High Intensity Discharge

Metal Halide Quartz

[Pulse Start Metal Halide](#)
[Protected](#)
[Pulse Start Metal Halide](#)
[Standard](#)
[Switch Start Metal Halide](#)
[Protected](#)
[Switch Start MH Safety](#)
[Lifeguard®](#)
[Switch Start Metal Halide](#)
[Standard](#)

Double-Ended Metal

Halide

[Lighting Solutions](#)
[Breakthrough Products](#)
[Special Offers](#)
[TradeLinkSM](#)
[Lighting Application Center](#)
[Browse Literature](#)
[Environment &](#)
[Sustainability](#)

Last update: March 23, 2006

[Back](#)
[Download](#) | [Print pr](#)

MHN-TD 70W/842 RX7s 1CT


General

[+ Images](#)


PRODUCT DATA

Product Number	303503
Full product name	MHN-TD 70W/842 RX7s 1CT
Ordering Code	MHN70/TD/840
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677303501
EAN2US	-
Case Bar Code	50046677303506
Successor Product number	-
Wattage[W]	70W
Color Code	842 [CCT of 4200K]
Base	RX7s [Recessed Single Contact RX7s]
Packing Type	1CT [1 Lamp in a Folding Carton]
Packing Configuration	12
Base Information	21
Bulb	T7[Diameter: .875 inch]
Bulb Finish	Clear
Operating Position	Horizontal +/- 45 D[Parallel +/-45D or Horizon
Rated Avg. Life[hr]	9000
ANSI Code HID	M85/E
Lamp Voltage[V]	90
Dimmable	No
Mercury (Hg) Content[mg]	-
Color Rendering Index[Ra8]	80
Color Designation	Cool White
Color Description	842 Cool White
Color Temperature[K]	4200

Lamp MH-A Page 19

Initial Lumens[Lm]	5700
Design Mean Lumens[Lm]	4560
Overall Length C[mm]	119.63
Diameter D[mm]	21
Light Center Length L[in]	2.25
Max Overall Length (MOL) - C[in]	4.6875
Diameter D[in]	0.75

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™




[United States / English](#)



[About Philips](#)
[Consumer Products](#)
[Lighting](#)
[Medical Systems](#)
[Semiconductors](#)


You are here: [Home](#) [Lighting](#) ... [MasterColor Ceramic MH Pulse Start](#) **MasterColor® CDM-T T6**

eCatalog

Lamps

High Intensity Discharge

MasterColor Ceramic MH

Pulse Start

[MasterColor® CDM-TC T4](#)
[MasterColor® CDM-TM](#)

MasterColor® CDM-T T6

[MasterColor® CDM-TD](#)
[MasterColor® CDM](#)
[Integrated PAR38 Protected](#)
[MasterColor® CDM-R111](#)
[MasterColor® CDM PAR20](#)
[MasterColor® CDM PAR30L](#)
[MasterColor® CDM PAR38](#)
[MasterColor® CDM ED17](#)
[Protected](#)
[MasterColor® CDM ED17](#)
[Standard](#)
[MasterColor® CDM ED28](#)
[Protected](#)
[MasterColor® CDM ED28](#)
[Standard](#)
[MasterColor® CDM ED37](#)
[Protected](#)

Lighting Solutions

Breakthrough Products

Special Offers

TradeLinkSM

Lighting Application Center

Browse Literature

Environment &

Sustainability

Last update: March 23, 2006

[Back](#)

[Download](#) | [Print pr](#)

MasterColor CDM-T 35W/830 G12 T6 1CT



General



[+ Images](#)



PRODUCT DATA

Product Number	223289
Full product name	MasterColor CDM-T 35W/830 G12 T6 1
Ordering Code	CDM35/T6/830
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677223281
EAN2US	-
Case Bar Code	50046677223286
Successor Product number	-
Wattage[W]	35W
Color Code	830 [CCT of 3000K]
Base	G12
Bulb	T6 [Diameter: .75 inch]
Packing Type	1CT [1 Lamp in a Folding Carton]
Packing Configuration	12
Bulb Finish	Clear
Operating Position	Universal[Any or Universal (U)]
Rated Avg. Life[hr]	12000
ANSI Code HID	M130/E
System Power EL[W]	44
Lamp Voltage[V]	88

Lamp MH-B Page 21

Dimmable	No
Mercury (Hg) Content[mg]	-
Color Rendering Index[Ra8]	81
Color Designation	Warm White
Color Description	830 Warm White
Color Temperature[K]	3000
Initial Lumens[Lm]	3300
Design Mean Lumens[Lm]	2600
Overall Length C[mm]	103
Diameter D[mm]	20
Light Center Length L[in]	2.21875
Max Overall Length (MOL) - C[in]	3.9375
Diameter D[in]	0.75

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™




[United States / English](#)



[About Philips](#)
[Consumer Products](#)
[Lighting](#)
[Medical Systems](#)
[Semiconductors](#)


You are here: [Home](#) [Lighting](#) ... [MasterColor Ceramic MH Pulse Start](#) **MasterColor® CDM-T T6**

eCatalog

Lamps

High Intensity Discharge

MasterColor Ceramic MH

Pulse Start

[MasterColor® CDM-TC T4](#)
[MasterColor® CDM-TM](#)

MasterColor® CDM-T T6

[MasterColor® CDM-TD](#)
[MasterColor® CDM](#)
[Integrated PAR38 Protected](#)
[MasterColor® CDM-R111](#)
[MasterColor® CDM PAR20](#)
[MasterColor® CDM PAR30L](#)
[MasterColor® CDM PAR38](#)
[MasterColor® CDM ED17](#)
[Protected](#)
[MasterColor® CDM ED17](#)
[Standard](#)
[MasterColor® CDM ED28](#)
[Protected](#)
[MasterColor® CDM ED28](#)
[Standard](#)
[MasterColor® CDM ED37](#)
[Protected](#)

Lighting Solutions

Breakthrough Products

Special Offers

TradeLinkSM

Lighting Application Center

Browse Literature

Environment &

Sustainability

Last update: March 23, 2006

[Back](#)

[Download](#) | [Print pr](#)

MasterColor CDM-T 70W/830 G12 T6 1CT



General



[+ Images](#)



PRODUCT DATA

Product Number	223370
Full product name	MasterColor CDM-T 70W/830 G12 T6 1
Ordering Code	CDM70/T6/830
Pack type	1 Lamp in a Folding Carton
Pieces per pack	1
Packs per case	12
Pack UPC	046677223373
EAN2US	-
Case Bar Code	50046677223378
Successor Product number	-
Wattage[W]	70W
Color Code	830 [CCT of 3000K]
Base	G12
Bulb	T6 [Diameter: .75 inch]
Packing Type	1CT [1 Lamp in a Folding Carton]
Packing Configuration	12
Bulb Finish	Clear
Operating Position	Universal[Any or Universal (U)]
Rated Avg. Life[hr]	12000
ANSI Code HID	M139/E
System Power EL[W]	83
Lamp Voltage[V]	88

Lamp MH-C Page 23

Dimmable	No
Mercury (Hg) Content[mg]	-
Color Rendering Index[Ra8]	81
Color Designation	Warm White
Color Description	830 Warm White
Color Temperature[K]	3000
Initial Lumens[Lm]	6600
Design Mean Lumens[Lm]	4950
Overall Length C[mm]	103
Diameter D[mm]	20
Light Center Length L[in]	2.21875
Max Overall Length (MOL) - C[in]	3.9375
Diameter D[in]	0.75

Version 14.3.0.0 WEB05

[Philips](#) | [Privacy policy](#) | [Terms of use](#) | [Site Map](#)

©2004-2006 Koninklijke Philips Electronics N.V. All rights reserved.

[Official Partner](#) of the 2006 FIFA World Cup Germany™



PHILIPS
 United States / English


[About Philips](#)
[Consumer Products](#)
[Lighting](#)
[Medical Systems](#)
[Semiconductors](#)


You are here: [Home](#) [Lighting](#) ... [Lamps](#) [Halogen](#) [Main Voltage Double-Ended Linear](#) **Double Ended Linear**

eCatalog

Lamps

Halogen

Main Voltage Double-

Ended Linear

Double Ended Linear

[Lighting Solutions](#)
[Breakthrough Products](#)
[Special Offers](#)
[TradeLinkSM](#)
[Lighting Application Center](#)
[Browse Literature](#)
[Environment &](#)
[Sustainability](#)

Last update: March 23, 2006

[Back](#)
[Download](#) | [Print pr](#)

Double Ended Linear 300W R7s 120V T3


General

[+ Images](#)


PRODUCT DATA

Product Number	392464
Full product name	Double Ended Linear 300W R7s 120V T3 1BC
Ordering Code	BC300T3Q/CL 120V
Pack type	1 Lamp in a Blister Card
Pieces per pack	1
Packs per case	12
Pack UPC	046677293888
EAN2US	-
Case Bar Code	50046677392463
Successor Product number	-
Wattage[W]	300W
Base	R7s [R7s]
Voltage[V]	120V
Bulb	T3 [T 12mm]
Bulb Finish	CL [Clear]
Packing Type	1BC [1 Lamp in a Blister Card]
Packing Configuration	12
Operating Position	Horizontal +/- 4 D[Parallel +/-4D or Horizontal(H
Rated Avg. Life[hr]	-
Dimmable	Yes
Color Rendering Index[Ra8]	100
Initial Lumens[Lm]	5000
Overall Length C[mm]	117.6
Diameter D[mm]	12

Version 14.3.0.0 WEB05

Ballast Schedule

Label	W	Lamp	Dimming	BF	Manuf
BL-1	54	t5ho	Yes	1	Lutron
BL-1b	54	t5ho	no	1	Advanced
BL-2	25	t8	yes	1*	Lutron
BL-3	32	T8	yes	1*	Lutron
BL-4	25	t8	no	1	Advanced
BL-5	32	t8	no	1	Advanced
BL-6	21	T5	no	1	Advanced
BL-7	28	T5	no	1	Advanced
BL-8	35	T5	no	1	Advanced
BTT-1	26	TT	yes	1*	Lutron
Btt-2	35	TT	yes	1*	Lutron
Btt-3	45	TT	yes	1*	Lutron
Btt-4	18	TT	no	1	Advanced
Btt-5	26	TT	no	1	Advanced
Btt-6	35	TT	no	0.98	Advanced
Btt-7	45	TT	no	0.98	Advanced

Hi-lume Overview

Ballasts - BL1, BI3, BL4, BTT1, Btt2, BTT3

Hi-lume architectural electronic dimming ballasts are designed to meet the most demanding lighting requirements. By providing industry-leading performance with true full-range 100% to 1% fluorescent dimming, Hi-lume ballasts enable you to provide the ideal visual environment for any application.



Hi-lume, case type A

3.00”w (76mm) x 1.00”h (25mm) x 4.90”l (124mm)

Features

- Continuous, flicker-free dimming from 100% to 1%
- Standard 3-wire line-voltage phase-control technology for consistent fixture-to-fixture dimming performance
- Models available for T4 triple-tube compact, T5-HO linear, and T8 lamps
- Programmed rapid start design preheats lamp cathodes before applying full arc voltage
- Lamps turn on to any dimmed level without flashing to full brightness
- Low harmonic distortion throughout the entire dimming range maintains power quality
- Frequency of operation ensures that ballast does not interfere with infrared devices operating between 38 and 42 kHz
- Inrush current limiting circuitry eliminates circuit breaker tripping, switch arcing, and relay failure
- End-of-lamp-life protection circuitry (for T4 and T5-HO models) ensures safe operation throughout entire lamp life cycle
- For linear lamps, ballasts maintain consistent light output for different lamp lengths, ensuring fixture uniformity
- Ultra-quiet operation
- Protected from miswires of any input power to control lead, or from lamp leads to each other and/or ground
- 100% compatible with all Lutron 3-wire fluorescent controls
- 100% performance tested at factory



Hi-lume, case type C

1.18”w (30mm) x 1.00”h (25mm) x 18.00”l (457mm)







Hi-lume, case type F

2.38”w (60mm) x 1.50”h (38mm) x 9.50”l (241mm)

- Designed and assembled in the USA
- 5-year limited warranty with Lutron field service commissioning (3-year standard warranty) from date of purchase

Job Name:	Model Numbers:
Job Number:	1

Ballasts - BL1, BI3, BL4, BTT1, Btt2, BTT3
Hi-lume Ballast Models

Lamp Type				120 VOLTS		277 VOLTS	
	Lamp Watts (length)	Lamps per ballast	Case Type	Ballast Current (amps)	Hi-lume Model Number ¹	Ballast Current (amps)	Hi-lume Model Number ¹
T4 triple-tube 4-pin  1/2" diameter	26W	1	A	.26	HL3-T426-120-1-S	.12	HL3-T426-277-1-S
	32W	1	A	.31	HL3-T432-120-1-S	.13	HL3-T432-277-1-S
T5-HO linear high output  5/8" diameter	24W (21.5")	1	C	.26	FDB-T524-120-1	.13	FDB-T524-277-1
		2	C	.45	FDB-T524-120-2	.20	FDB-T524-277-2
	39W (33.4")	1	C	.38	FDB-T539-120-1	.17	FDB-T539-277-1
		2	C	.76	FDB-T539-120-2	.31	FDB-T539-277-2
T8 linear and U-bent  1" diameter	17W (24")	1	F	.19	FDB-2427-120-1	.08	FDB-2427-277-1
		2	F	.31	FDB-2427-120-2	.15	FDB-2427-277-2
		3	F	.43	FDB-2427-120-3	.20	FDB-2427-277-3
	25W (36")	1	F	.24	FDB-3627-120-1	.12	FDB-3627-277-1
		2	F	.43	FDB-3627-120-2	.19	FDB-3627-277-2
		3	F	.62	FDB-3627-120-3	.28	FDB-3627-277-3
	32W (48")	1	F	.30	FDB-4827-120-1	.14	FDB-4827-277-1
		2	F	.57	FDB-4827-120-2	.25	FDB-4827-277-2
	3	F	.82	FDB-4827-120-3	.35	FDB-4827-277-3	
T12 linear HO (800ma)  1 1/2" diameter	85W (72")	1	F	.75	FDB-7280-120-1	--	--
	95W (84")	1	F	.83	FDB-8480-120-1	--	--
	110W (96")	1	F	.88	FDB-9680-120-1	--	--

¹ Mounting studs standard for T4 ballasts. Delete suffix -S in the model number if mounting studs not needed.



Job Name:	Model Numbers:
Job Number:	2



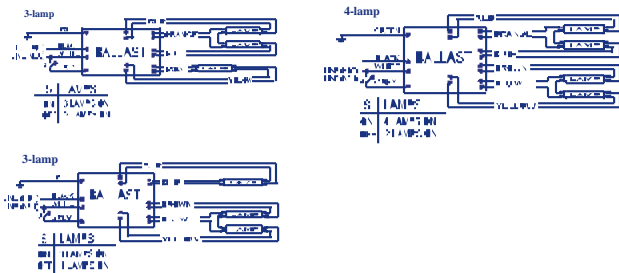
ICN4S5490C2LS@277

Brand Name	CENTIUM T5
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series/Parallel
Input Voltage	277
Input Frequency	50/60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
F54T5/HO	1	54	0/-18	0.24	62	0.99	30	0.90	1.7	1.60
F54T5/HO	2	54	0/-18	0.43	117	0.99	10	0.98	1.7	0.85
* F54T5/HO	3	54	0/-18	0.66	179	1.00	10	0.98	1.7	0.56
F54T5/HO	4	54	0/-18	0.86	234	1.00	10	0.98	1.7	0.43

Wiring Diagram

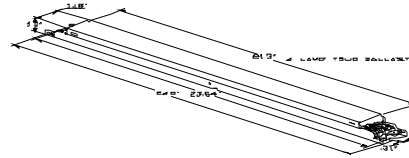


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0	0	Yellow/Blue	0	0
White	0	0	Blue/White	0	0
Blue	0	0	Brown	0	0
Red	0	0	Orange	0	0
Yellow	0	0	Orange/Black	0	0
Gray	0	0	Black/White	0	0
Violet	0	0	Red/White	0	0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
24 "	1.18 "	1 "	23.64 "
24	1 9/50	1	23 16/25
61 cm	3 cm	2.5 cm	60 cm

Revised 10/04/2005



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018
 Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071
 Corporate Offices: Phone: 800-322-2086



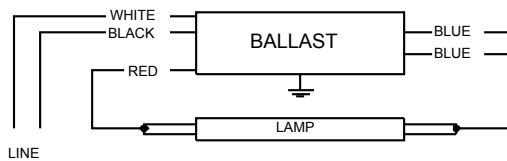
VOP-2P32-SC

Brand Name	OPTANIUM
Ballast Type	Electronic
Starting Method	Instant Start
Lamp Connection	Parallel
Input Voltage	277
Input Frequency	50/60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
F17T8	1	17	0/-18	0.08	19	1.02	15	0.95	1.7	5.37
F17T8	2	17	0/-18	0.11	31	0.90	15	0.97	1.7	2.90
* F25T8	1	25	0/-18	0.10	27	1.02	15	0.97	1.7	3.78
F25T8	2	25	0/-18	0.16	43	0.88	10	0.99	1.7	2.05
F32T8	1	32	0/-18	0.13	35	1.01	15	0.98	1.7	2.89
F32T8	2	32	0/-18	0.20	55	0.88	10	0.99	1.7	1.60
F32T8/ES (30W)	1	30	60/16	0.12	33	1.01	15	0.97	1.7	3.06
F32T8/ES (30W)	2	30	60/16	0.19	52	0.88	10	0.99	1.7	1.69
F40T8	1	40	32/00	0.15	41	1.01	15	0.99	1.7	2.46
F40T8	2	40	32/00	0.24	67	0.88	10	0.99	1.7	1.31

Wiring Diagram



Diag. 68

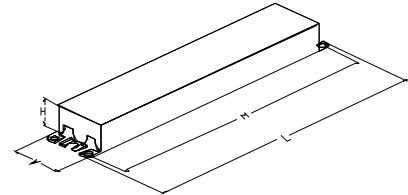
Insulate unused blue lead for 1000V

The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	25L	63.5	Yellow/Blue	0	0
White	25L	63.5	Blue/White	0	0
Blue	31R	78.7	Brown	0	0
Red	37L	94	Orange	0	0
Yellow	0	0	Orange/Black	0	0
Gray	0	0	Black/White	0	0
Violet	0	0	Red/White	0	0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.50 "	1.7 "	1.18 "	8.90 "
9 1/2	1 7/10	1 9/50	8 9/10
24.1 cm	4.3 cm	3 cm	22.6 cm

Revised 06/09/2003



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086

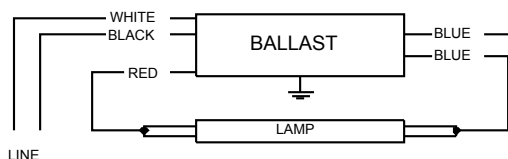


Electrical Specifications

VOP-2P32-SC	
Brand Name	OPTANIUM
Ballast Type	Electronic
Starting Method	Instant Start
Lamp Connection	Parallel
Input Voltage	277
Input Frequency	50/60 HZ
Status	Active

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
F17T8	1	17	0/-18	0.08	19	1.02	15	0.95	1.7	5.37
F17T8	2	17	0/-18	0.11	31	0.90	15	0.97	1.7	2.90
F25T8	1	25	0/-18	0.10	27	1.02	15	0.97	1.7	3.78
F25T8	2	25	0/-18	0.16	43	0.88	10	0.99	1.7	2.05
* F32T8	1	32	0/-18	0.13	35	1.01	15	0.98	1.7	2.89
F32T8	2	32	0/-18	0.20	55	0.88	10	0.99	1.7	1.60
F32T8/ES (30W)	1	30	60/16	0.12	33	1.01	15	0.97	1.7	3.06
F32T8/ES (30W)	2	30	60/16	0.19	52	0.88	10	0.99	1.7	1.69
F40T8	1	40	32/00	0.15	41	1.01	15	0.99	1.7	2.46
F40T8	2	40	32/00	0.24	67	0.88	10	0.99	1.7	1.31

Wiring Diagram



Diag. 68

Insulate unused blue lead for 1000V

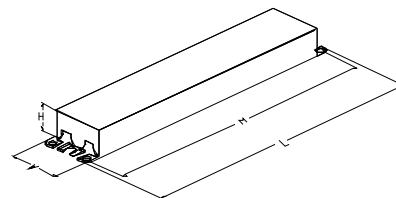
The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.
Black	25L	63.5
White	25L	63.5
Blue	31R	78.7
Red	37L	94
Yellow	0	0
Gray	0	0
Violet	0	0

	in.	cm.
Yellow/Blue	0	0
Blue/White	0	0
Brown	0	0
Orange	0	0
Orange/Black	0	0
Black/White	0	0
Red/White	0	0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
9.50 "	1.7 "	1.18 "	8.90 "
9 1/2	1 7/10	1 9/50	8 9/10
24.1 cm	4.3 cm	3 cm	22.6 cm

Revised 06/09/2003



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



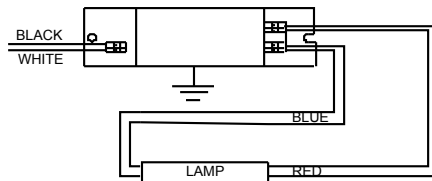
VCN-1S28

Brand Name	CENTIUM T5
Ballast Type	Electronic
Starting Method	
Lamp Connection	Series
Input Voltage	277
Input Frequency	50/60HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
F21T5	1	21	50/10	0.10	27	1.00	10	0.98	1.6	3.70
* F28T5	1	28	50/10	0.13	34	1.00	10	0.98	1.6	2.94

Wiring Diagram



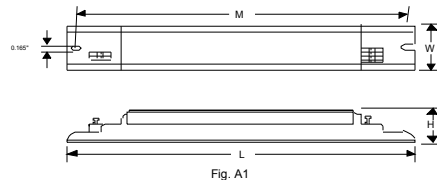
Diag. 102

The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0	0	Yellow/Blue		0
White	0	0	Blue/White		0
Blue	0	0	Brown		0
Red	0	0	Orange		0
Yellow		0	Orange/Black		0
Gray		0	Black/White		0
Violet		0	Red/White		0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
13.1875 "	1.53125 "	1.109375 "	12.78125 "
13 3/16	1 17/32	1 7/64	12 25/32
33.5 cm	3.9 cm	2.8 cm	32.5 cm

Revised 09/01/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



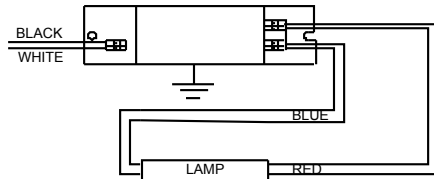
VCN-1S28

Brand Name	CENTIUM T5
Ballast Type	Electronic
Starting Method	
Lamp Connection	Series
Input Voltage	277
Input Frequency	50/60HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
* F21T5	1	21	50/10	0.10	27	1.00	10	0.98	1.6	3.70
F28T5	1	28	50/10	0.13	34	1.00	10	0.98	1.6	2.94

Wiring Diagram



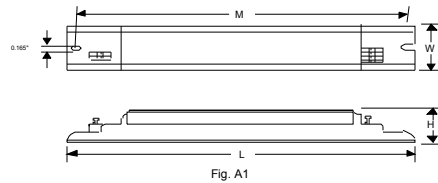
Diag. 102

The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0	0	Yellow/Blue		0
White	0	0	Blue/White		0
Blue	0	0	Brown		0
Red	0	0	Orange		0
Yellow		0	Orange/Black		0
Gray		0	Black/White		0
Violet		0	Red/White		0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
13.1875 "	1.53125 "	1.109375 "	12.78125 "
13 3/16	1 17/32	1 7/64	12 25/32
33.5 cm	3.9 cm	2.8 cm	32.5 cm

Revised 09/01/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



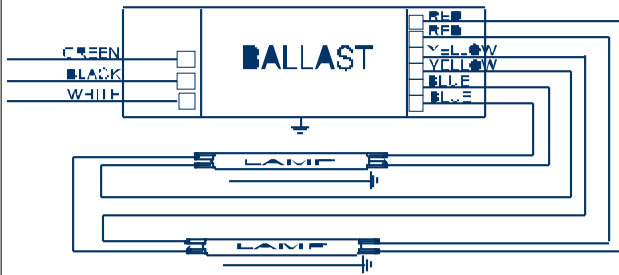
ICN-2S28@277

Brand Name	CENTIUM T5
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	277
Input Frequency	50/60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
F14T5	1	14	0/-18	0.07	19	1.07	20	0.90	1.7	5.63
F14T5	2	14	0/-18	0.13	34	1.06	10	0.98	1.7	3.12
F21T5	1	21	0/-18	0.10	26	1.03	15	0.95	1.7	3.96
F21T5	2	21	0/-18	0.17	48	1.02	10	0.98	1.7	2.13
F28T5	1	28	0/-18	0.12	33	1.04	10	0.98	1.7	3.15
F28T5	2	28	0/-18	0.23	63	1.03	10	0.99	1.7	1.63
F35T5	1	35	0/-18	0.15	41	1.01	10	0.98	1.7	2.46
* F35T5	2	35	0/-18	0.28	77	1.00	10	0.99	1.7	1.30

Wiring Diagram

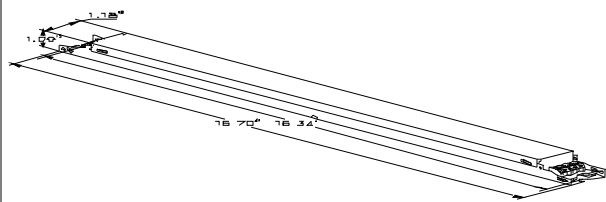


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0	0	Yellow/Blue	0	0
White	0	0	Blue/White	0	0
Blue	0	0	Brown	0	0
Red	0	0	Orange	0	0
Yellow	0	0	Orange/Black	0	0
Gray	0	0	Black/White	0	0
Violet	0	0	Red/White	0	0

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
16.70 "	1.18 "	1.00 "	16.34 "
16 7/10	1 9/50	1	16 17/50
42.4 cm	3 cm	2.5 cm	41.5 cm

Revised 09/01/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



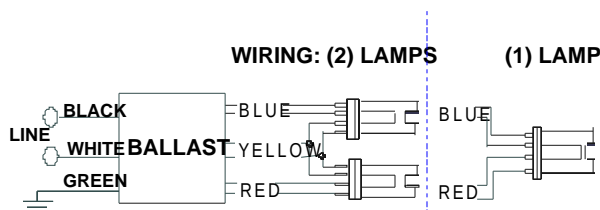
ICF-2S26-M1-BS@277

Brand Name	SMARTMATE
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	120-277
Input Frequency	50/60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
CFM26W/GX24Q	1	26	0/-18	0.11	29	1.10	10	0.98	1.5	3.79
CFM26W/GX24q	2	26	0/-18	0.20	54	1.00	10	0.99	1.5	1.85
* CFM32W/GX24q	1	32	0/-18	0.13	36	0.98	10	0.98	1.5	2.72
CFM42W/GX24q	1	42	0/-18	0.17	46	0.98	10	0.98	1.5	2.13
CFQ26W/G24q	1	26	0/-18	0.10	27	1.00	10	0.98	1.5	3.70
CFQ26W/G24q	2	26	0/-18	0.19	51	1.00	10	0.99	1.5	1.96
CFS21W/GR10q	2	21	0/-18	0.18	51	1.12	10	0.99	1.5	2.20
FT24W/2G11	2	24	0/-18	0.18	48	0.93	10	0.99	1.5	1.94

Wiring Diagram



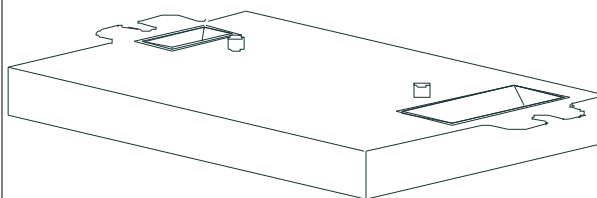
Green Terminal must be Grounded

The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0.0		Yellow/Blue		
White	0.0		Blue/White		
Blue	0.0		Brown		
Red	0.0		Orange		
Yellow	0		Orange/Black		
Gray			Black/White		
Violet			Red/White		

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
4.98 "	2.40 "	0.98 "	2.00 "
4 49/50	2 2/5	0 49/50	2
12.6 cm	6.1 cm	2.5 cm	5.1 cm

Revised 09/02/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



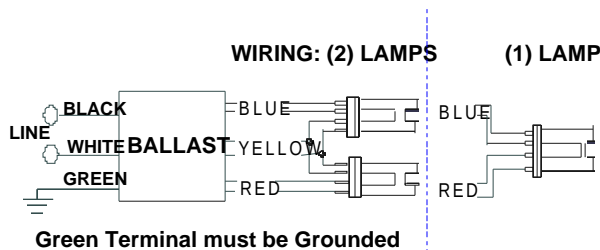
ICF-2S26-H1-LD@277

Brand Name	SMARTMATE
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	120-277
Input Frequency	50/60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
CFM26W/GX24Q	1	26	0/-18	0.11	29	1.10	10	0.98	1.5	3.79
CFM26W/GX24q	2	26	0/-18	0.20	54	1.00	10	0.99	1.5	1.85
CFM32W/GX24q	1	32	0/-18	0.13	36	0.98	10	0.98	1.5	2.72
CFM42W/GX24q	1	42	0/-18	0.17	46	0.98	10	0.98	1.5	2.13
* CFQ26W/G24q	1	26	0/-18	0.10	27	1.00	10	0.98	1.5	3.70
CFQ26W/G24q	2	26	0/-18	0.19	51	1.00	10	0.99	1.5	1.96
CFS21W/GR10q	2	21	0/-18	0.18	51	1.12	10	0.99	1.5	2.20
FT24W/2G11	2	24	0/-18	0.18	48	0.93	10	0.99	1.5	1.94

Wiring Diagram

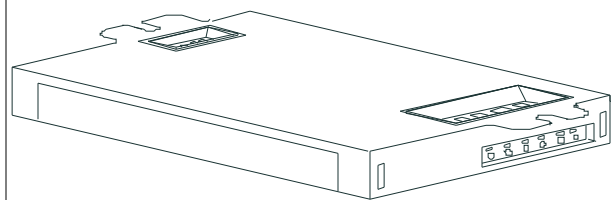


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0.0		Yellow/Blue		
White	0.0		Blue/White		
Blue	0.0		Brown		
Red	0.0		Orange		
Yellow	0		Orange/Black		
Gray			Black/White		
Violet			Red/White		

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
4.98 "	2.4 "	1.0 "	4.6 "
4 49/50	2 2/5	1	4 3/5
12.6 cm	6.1 cm	2.5 cm	11.7 cm

Revised 09/02/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086



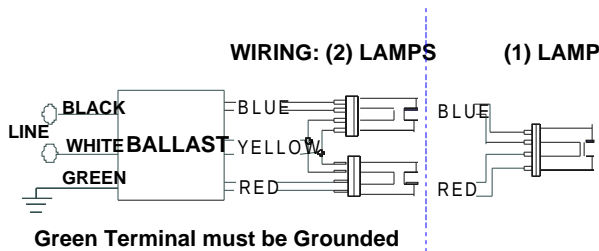
ICF-2S18-H1-LD@277

Brand Name	SMARTMATE
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	120-277
Input Frequency	50/60 HZ
Status	Active

Electrical Specifications

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
CFM18W/GX24Q	1	18	0/-18	0.08	20	1.05	10	0.97	1.5	5.25
CFM18W/GX24q	2	18	0/-18	0.14	39	1.05	10	0.99	1.5	2.69
* CFQ18W/G24q	1	18	0/-18	0.07	19	1.00	10	0.97	1.5	5.26
CFQ18W/G24q	2	18	0/-18	0.13	35	0.95	10	0.99	1.5	2.71
CFS16W/GR10q	2	16	0/-18	0.13	37	1.00	09	0.99	1.5	2.70
CFS21W/GR10q	1	21	0/-18	0.07	20	0.90	13	0.97	1.5	4.50
CFS21W/GR10q	2	21	0/-18	0.14	40	0.91	08	0.99	1.5	2.28

Wiring Diagram

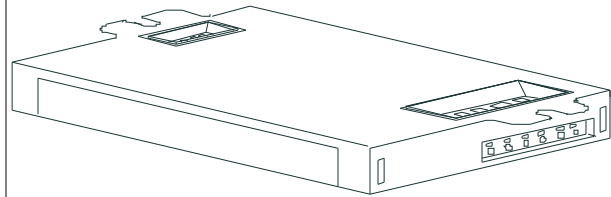


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0.0		Yellow/Blue		
White	0.0		Blue/White		
Blue	0.0		Brown		
Red	0.0		Orange		
Yellow	0		Orange/Black		
Gray			Black/White		
Violet			Red/White		

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
4.98 "	2.4 "	1.0 "	4.6 "
4 49/50	2 2/5	1	4 3/5
12.6 cm	6.1 cm	2.5 cm	11.7 cm

Revised 09/02/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086

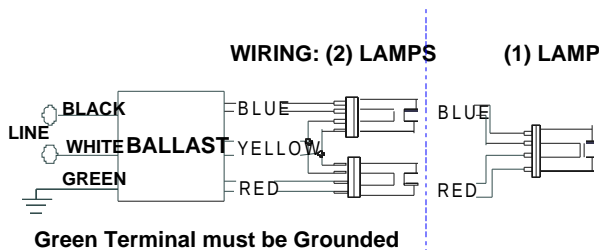


Electrical Specifications

ICF-2S26-H1-LD@277	
Brand Name	SMARTMATE
Ballast Type	Electronic
Starting Method	Programmed Start
Lamp Connection	Series
Input Voltage	120-277
Input Frequency	50/60 HZ
Status	Active

Lamp Type	Num. of Lamps	Rated Lamp Watts	Min. Start Temp (°F/C)	Input Current (Amps)	Input Power (ANSI Watts)	Ballast Factor	MAX THD %	Power Factor	MAX Lamp Current Crest Factor	B.E.F.
CFM26W/GX24Q	1	26	0/-18	0.11	29	1.10	10	0.98	1.5	3.79
CFM26W/GX24q	2	26	0/-18	0.20	54	1.00	10	0.99	1.5	1.85
CFM32W/GX24q	1	32	0/-18	0.13	36	0.98	10	0.98	1.5	2.72
* CFM42W/GX24q	1	42	0/-18	0.17	46	0.98	10	0.98	1.5	2.13
CFQ26W/G24q	1	26	0/-18	0.10	27	1.00	10	0.98	1.5	3.70
CFQ26W/G24q	2	26	0/-18	0.19	51	1.00	10	0.99	1.5	1.96
CFS21W/GR10q	2	21	0/-18	0.18	51	1.12	10	0.99	1.5	2.20
FT24W/2G11	2	24	0/-18	0.18	48	0.93	10	0.99	1.5	1.94

Wiring Diagram

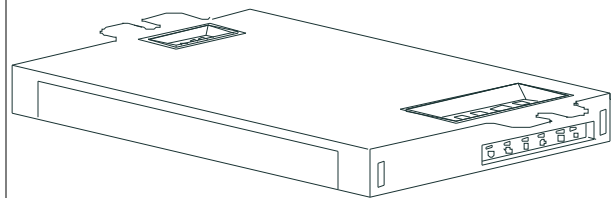


The wiring diagram that appears above is for the lamp type denoted by the asterisk (*)

Standard Lead Length (inches)

	in.	cm.		in.	cm.
Black	0.0		Yellow/Blue		
White	0.0		Blue/White		
Blue	0.0		Brown		
Red	0.0		Orange		
Yellow	0		Orange/Black		
Gray			Black/White		
Violet			Red/White		

Enclosure



Enclosure Dimensions

OverAll (L)	Width (W)	Height (H)	Mounting (M)
4.98 "	2.4 "	1.0 "	4.6 "
4 49/50	2 2/5	1	4 3/5
12.6 cm	6.1 cm	2.5 cm	11.7 cm

Revised 09/02/2004



Data is based upon tests performed by Advance Transformer in a controlled environment and representative of relative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

ADVANCE TRANSFORMER CO.

O'HARE INTERNATIONAL CENTER · 10275 WEST HIGGINS ROAD · ROSEMONT, IL 60018

Customer Support/Technical Service: Phone: 800-372-3331 · Fax: 630-307-3071

Corporate Offices: Phone: 800-322-2086