

Appendix B



In architectural interiors and in transition zones between indoors and outdoors, recessed floor luminaires are often chosen for use as directive lighting or to create dramatic lighting accents. Such tasks are fulfilled by the Nadir range of recessed floor luminaires, which provides low to medium light levels. The compact cast aluminium luminaire housings are designed and built in an appropriate protection mode to withstand dirt and moisture, for instance, when floors are cleaned. Tesis recessed floor luminaires are available in the ERCO Outdoor Lighting Program for the special demands of architectural and landscape lighting in the outdoor environment. Nadir luminaires attract attention since they are not only light sources present at ground level but their upward beam direction is unusual and therefore especially noticeable. In this respect they also assume some tasks of directive lighting, e.

g. by marking pathways or high-lighting entrances. In addition to these rather technical uses, Nadir luminaires can also provide highly effective architectural lighting, whether for a dramatic accentuation of individual points or to emphasise architectural lines using a row of luminaires. To suit a particular area of application, Nadir luminaires are available for compact fluorescent lamps and also for low-voltage and tungsten halogen lamps.

Uplights



General characteristics

The product range consists of four luminaire housings, of which sizes 3, 4 and 8 are available for directive lighting and sizes 3, 4 and 6 as up-light or directional luminaires. The housings and mounting rings are corrosion resistant cast aluminium and which have the No-Rinse surface treatment. This is followed by a double powder-coating in silver. The luminaire has a high load resistant safety glass. All luminaires

are fitted with an electrical connection cable. Nadir recessed floor luminaires meet IP67 protection mode. Recessed housings are available as accessories for all sizes.

Characteristics

An uplight with etched glass ring is produced in the smallest luminaire size. A safety glass acts as the luminaire cover.

Application

Narrow-beamed, indirect lighting, for uses including dramatic accent lighting of architectural details or delineation of special areas.

Directional luminaires



Characteristics

In the luminaire sizes 4 and 6, rotatable and tiltable directional luminaires are available with silver-anodised aperture masks or cardanic suspension and black multigroove baffles. The safety glasses are clear. Low-voltage halogen reflector lamps 20W/12V or QPAR30 lamps up to 75W are to be used. Cross baffles or sculpture lenses are available as accessories, but only for mounting on the QPAR30.

Application

Narrow-beamed, indirect lighting, for uses including dramatic accent lighting of architectural details, delineation of special areas or for tiltable indirect lighting of exhibits.

Recessed floor luminaires



Characteristics

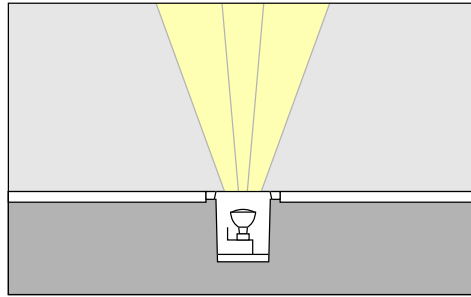
In the smaller luminaire housing, either 15W Pigmy lamps or 10W/12V QT9 low-voltage halogen lamps are to be used. 5W compact fluorescent lamps are to be used in the medium size and 18W in the largest size. The safety glasses are white. They can be printed on the underside with inscriptions such as room numbers, direction arrows or other designs. LED modules are used in the size 3 luminaire. These LEDs are operated on mains voltage and therefore do not require separate control gear. The colours white, blue, green and amber are available. Every luminaire is covered with a glass that differs from the cover glasses of other Nadir recessed floor luminaires in that it is a diffuser with Softec lens. This ensures an optimum wide beam and optimum colour recognition, even when viewed from shallow angles.

Application

Mainly used as indirect beam, rotationally symmetrical directive lighting, other uses include the identification of architectural lines, routes or restricted areas and the display of visual information.

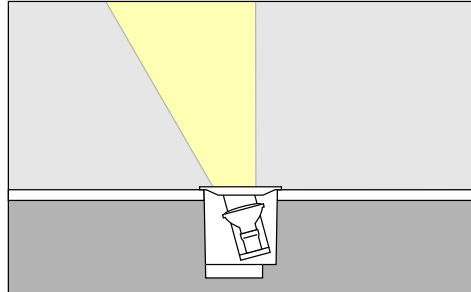
Lighting technology

Uplights



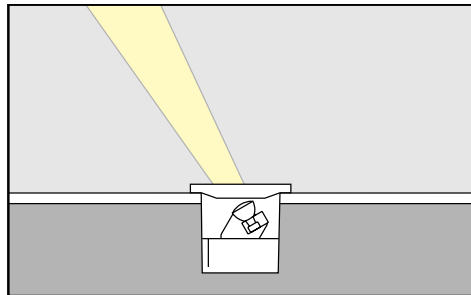
Size 3, QR-CBC35 lamp

Directional luminaires



Size 4, QR-CBC35 lamp

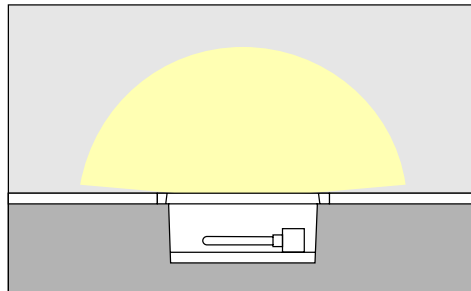
Size 4, QR-CBC35 lamp, cardanic suspension



Size 6, QPAR30 lamp

Accessories: sculpture lens, cross-baffle

Recessed floor luminaires

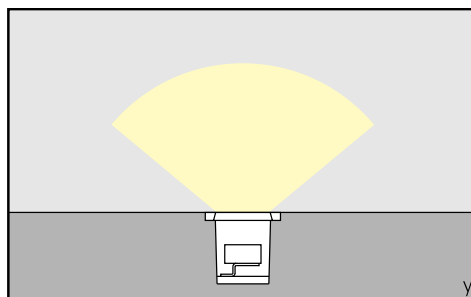


Size 3, CO26 lamp

Size 3, QT9 lamp

Size 4, TC-S lamp

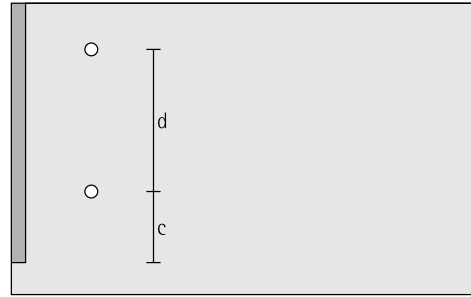
Size 8, TC-D lamp



Size 3, LED

Luminaire arrangement

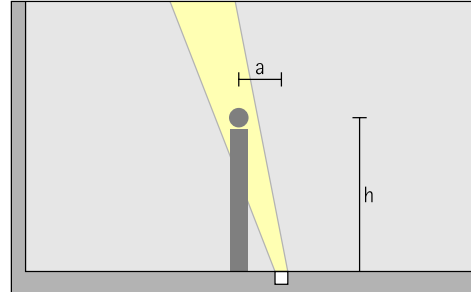
Uplights



Luminaire spacing: to suit the design intention

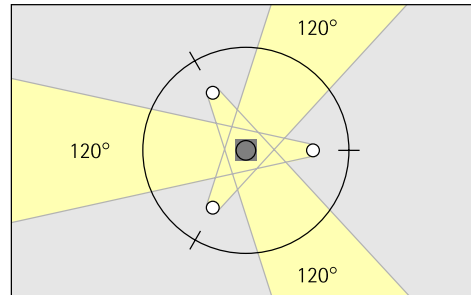
$$c = d/2$$

Directional luminaires



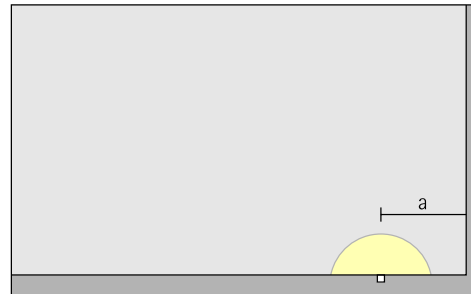
Distance to base of object to be up to a third of the object's height

$$a = h/3$$

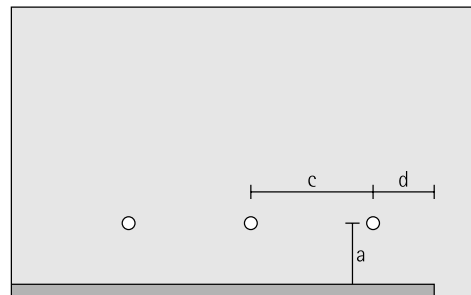


All-round illumination of an object through lateral luminaire separation of 120°

Recessed floor luminaires



To reveal the lower edge of a wall



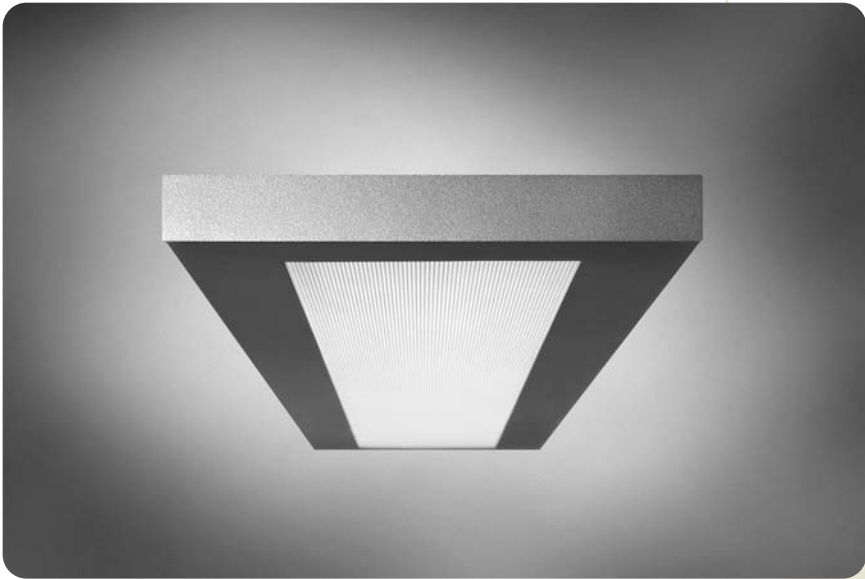
Luminaire spacing approx. 2x offset from wall

$$d = 2a$$

Distance to wall: half the luminaire spacing

$$c = d/2$$

metro™



Covered by the following U.S. Patents:
Patent No. D491,687, D495,085 & D497,217.

FEATURES

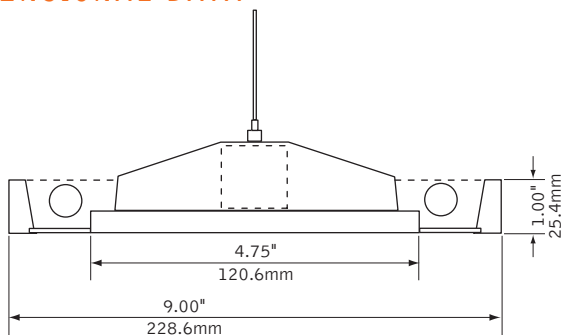
Low profile suspended linear indirect fluorescent with luminous acrylic diffuser.

Sleek rectilinear housing only 1" high.

Soft glowing acrylic panel creates contemporary look.

Metro™ makes an exceptional aesthetic statement in conference rooms, private or open offices, reception areas or other high-end applications.

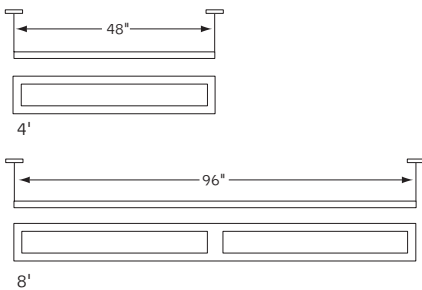
DIMENSIONAL DATA



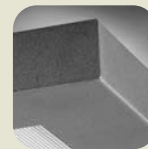
lamping options



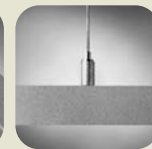
fixture information



details



flat endcap



single point suspension

companion luminaire



wall mount

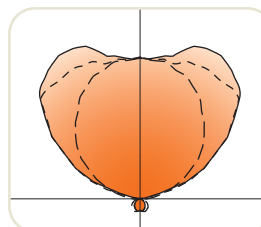


sconce



pendant

PERFORMANCE



2-Lamp T5
74% Efficiency
1330 cd @ 155
95% Indirect
5% Direct

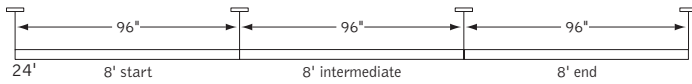
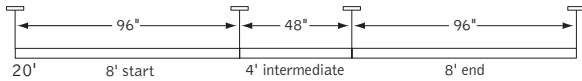
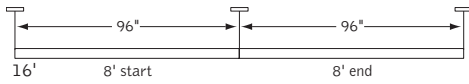
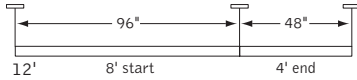
See **Photometric** section for additional performance data.

august 2005

fixture type:

project name:

MOUNTING INFORMATION



Consult factory for additional row length information.

SPECIFICATIONS

construction

One-piece 20 Ga. steel housing.
 14 Ga. steel end caps mechanically attach flush to housing with concealed fasteners.
 For row installation, internal brackets form hairline joint.
 Standard lengths are available in 4' and 8'.
 All luminaires are provided with single point aircraft cable suspension mounted on 48" or 96" centers.

4' unit weight: 22 lbs.
 8' unit weight: 32 lbs.

optic

Reflector fabricated of low iridescent, semi specular premium grade aluminum.
 luminous diffuser constructed of optical grade acrylic with linear diffusing pattern.

electrical

Luminaires are pre-wired with factory installed branch circuit wiring with over-molded quick connects.
 Factory installed decorative metal braided power cord at feed location is included.
 White SJT power cord supplied for 347V.
 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 500 lumens
 T5H0 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 Titanium Silver or Matte Satin White.
 Canopy finished in Matte Satin White.

ORDERING

luminaire series FMES
 Metro FMES

shielding PA
 Linear Patterned Acrylic Diffuser PA

lamping _____
 2 Lamp T5 2T5
 2 Lamp T5H0 2T5H0

circuit 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 _____
 24" Cable Suspension C24
 48" Cable Suspension C48
 96" Cable Suspension C96
 (Specify "J" in place of "C" for 5" dia. canopies at power feed and 2" dia. canopies at non-feed locations)
 (Consult factory for sloped ceiling applications)

factory options _____
 Emergency Circuit EC
 Emergency Battery Pack EM
 HLR/GLR Fuse FU
 Include 3000K Lamp L830
 Include 3500K Lamp L835
 Include 4100K Lamp L841

finish _____
 Titanium Silver TS
 Matte Satin White WH

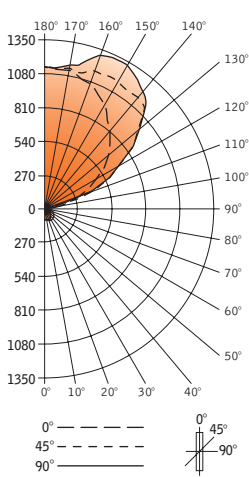
luminaire run length _____
 4' 4'
 8' 8'
 12' (8'+4') 12'
 16' (8'+8') 16'
 20' (8'+4'+8') 20'
 24' (8'+8'+8') 24'

metro™



Filename: FMESPA2T5.IES
 Catalog #: FMES-PA-2T5-1C-120-S-C24-TS-4'
 Efficiency: 73.9%
 Test #: 11764.0

CANDLEPOWER DISTRIBUTION



Spacing 1.3
 Criterion: 1.4

Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	22.5°	45°	67.5°	90°	
0°	79	79	79	79	79	
5°	79	79	80	82	79	8
15°	83	83	85	85	85	24
25°	72	72	75	78	76	35
35°	67	69	72	72	71	44
45°	51	53	53	57	56	42
55°	39	41	43	44	45	38
65°	26	29	30	33	33	30
75°	12	14	17	20	22	18
85°	0	2	4	4	5	3
90°	0	1	4	4	4	
95°	40	41	30	30	32	37
105°	195	294	295	221	185	265
115°	383	567	574	574	581	545
125°	567	765	850	852	852	713
135°	750	902	1111	1138	1142	793
145°	882	960	1162	1264	1288	702
155°	1021	1058	1177	1287	1330	544
165°	1118	1130	1171	1210	1233	332
175°	1159	1162	1166	1169	1171	111
180°	1169	1169	1169	1169	1169	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt
0°-30°	66	1.1	1.5
0°-90°	242	4.2	5.6
90°-130°	1559	26.9	36.4
90°-180°	4042	69.7	94.4
Total Luminaire	4284	73.9	100.0

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	478	496	524
55°	450	496	519
65°	407	470	517
75°	307	435	563
85°	0	304	380

CO-EFFICIENTS OF UTILIZATION

	80				70				50				30				10				00
	70	50	30	10	70	50	30	10	50	30	10	00	50	30	10	00	50	30	10	00	
RCR 0	71	71	71	71	62	62	62	62	43	43	43	43	27	27	27	27	11	11	11	04	
1	65	62	59	57	56	53	49		38	35		23	22		10	10		04			
2	59	54	50	46	51	47	40		33	29		20	18		09	08		03			
3	54	47	42	38	46	41	33		29	24		18	15		08	07		03			
4	49	42	36	32	42	36	28		26	21		16	13		07	06		02			
5	45	37	31	27	39	32	24		25	18		14	11		06	05		02			
6	41	33	28	24	35	29	21		20	15		13	10		06	04		02			
7	38	30	24	21	33	26	18		18	13		12	09		05	04		01			
8	35	27	22	18	30	23	16		17	12		10	08		05	03		01			
9	33	25	20	16	28	21	14		15	10		10	07		04	03		01			
10	31	23	18	14	26	20	13		14	09		09	06		04	03		01			

Numbers indicate percentage values of reflectivity.

Go to www.focalpointlights.com for additional photometric data.



available colour:

ALU ANODISED-BLACK : 202 11 33 ANO-B



ORIENTABLE 0° – 35° / 350°

G53 – 12V – EXCL.TRANSFO

3 x QR-LP111 – 50 W (max)

⚠ 3.3 kg IP20 ⚡ 0,5 norm: CE – CEBECCutout: 404 x 150 mm

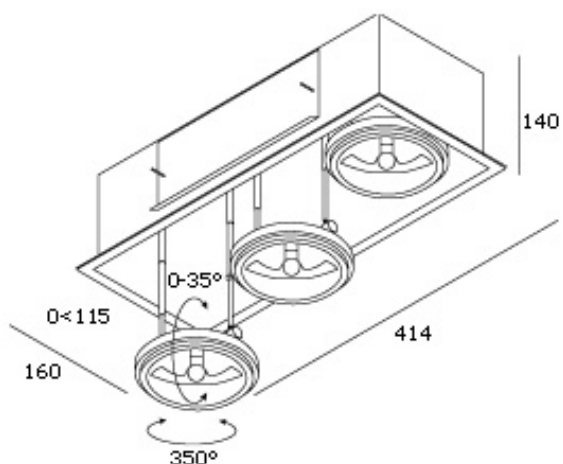
min depth for recessing: 175 mm

max thickness of mounting surface: max.30 mm

accessories:

HALORING

For detailed installation instructions, please consult the manual.





available colour:

ALU ANODISED : 202 65 00 01 ANO

ORIENTABLE 0° – 30°

G53 – 12V – EXCL. TRANSFO

1 x QR-LP111 – 100 W (max)

0.7 kg IP20 $\text{C}_{0,5}$ norm: CE – CEBC

glowtest: 850°C

cutout: 153 x 153 mm

min depth for recessing: 135 mm

options:

GRID IN LIMIT ZB 1 QR BOX

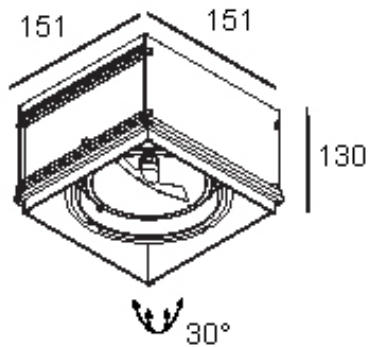
accessories:

CONE 111

CONE / CLIP 111 + FRONTGLASS 111

CONE / CLIP 111 + COLOUR FILTER 111

CONE / CLIP 111 + LENS 111



For detailed installation instructions, please consult the manual.



202 65 00 01 / GRID IN LIMIT ZB 1 QR

Decorative Indirect Pendant - 3'Ø

Type **D01**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

300w Line Voltage per EE
(6) 50w BX, 3500°K
Fluorescent
Reading/Writing Program, Meeting Rooms, Reference Desk
FOCAL POINT #FMEP-34-WA-6BX50-2C-(120/277)-S-(C48/BXX)-(EM)-TS
"Metro" series, frosted white acrylic shielding, dual circuit, integral electronic program start ballast, suspension to be confirmed, emergency battery pack as required per Electrical Engineer, titanium silver finish.

(page1 of 2)



METRO



FMEP 34
Low profile pendant indirect with luminous acrylic diffuser.

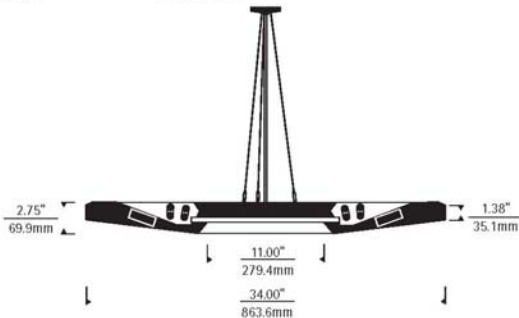
3-Lamp 40, 50 Et 55W Biac

6-Lamp 40, 50 Et 55W Biac

Features

- Construction**
One-piece spun 20Ga. C.R.S. housing, .026" min. thickness. Housing: 34"Dia. x 2.75"H, 11"Dia. opening reveals luminous acrylic diffuser. Canopy: 5"Dia. x .875"H, spun C.R.S. to match housing. Wiring compartment fabricated of 18Ga. C.R.S. Ballast is accessible by removing reflector.
34" unit weight: 33 lbs.
- Optic**
Die-formed 3-piece reflector, fabricated of Hammerbone aluminum. 11" Dia. x .375" thick luminous diffuser constructed of optical grade acrylic with sunburst diffusing pattern creating uniform illumination. Frosted white luminous diffuser and solid bottom housing are also available.
- Electrical**
Luminaires are pre-wired for single circuit with thermally protected Class "P" electronic ballast. Metal braided, factory installed 18 Ga., 4-wire, AWM with decorative aluminum TC braided shield covered with clear PVC jacket. Rated for 105° C, 300V, 144" cord is provided on cable mount option and may be cut to length in field. Consult factory on availability of braided AWM cord for 347V. All ballasts are thermally protected and have a Class "P" rating.
Lamp: Electronic Program start 160mA, <10%THD
Optional DALI and other dimming ballasts available. Consult factory for 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:
Biac lamps: Up to 825 lumens
Battery pack requires unswitched hot from same branch circuit as AC ballast.
- Finish**
Standard luminaire housing finished in Titanium Silver or Matte Satin White. Canopy finished in matte satin white. Polyester powder coat applied over a 5-stage pre-treatment. All steel components are high reflectance white. Consult factory for additional finish options.

- Low profile round housing with 11" diameter luminous acrylic diffuser.
- Suspension options include: aircraft cable with metal braided power cord or 45" swivel stem.
- Metro makes an exceptional aesthetic statement in conference rooms, cafeterias, private or open offices, reception areas or other high-end applications.
- Color accent gels are available. Standard colors are Cherry Red, Kelly Green and Sky Blue. Additional colors are available on request.
- See linear fit sconce sections for companion luminaire.



THE
ART OF
LIGHT™



Decorative Indirect Pendant - 3'Ø

Type **D01**

(page 2 of 2)

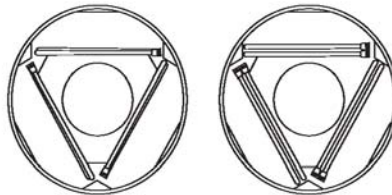
METRO



Order Information

Luminaire Series	FMEP
Metro	
Profile	34
34" Diameter	
Shielding	PA
Patterned Acrylic	WA
Frosted White Acrylic	SD
Solid Housing	
Optional Color Gel	
(Available on PA or WA option)	
Cherry Red Gel	R
Kelly Green Gel	G
Sky Blue Gel	B
(Leave blank for no color)	
*Lamping	
3 Lamp BX40	3BX40
3 Lamp BX50	3BX50
3 Lamp BX55	3BX55
6 Lamp BX40	6BX40
6 Lamp BX50	6BX50
6 Lamp BX55	6BX55
Circuit	
Single Circuit	1C
Dual Circuit	2C
(note: Dual circuit available on 6-lamp only)	
Voltage	
120 Volt	120
277 Volt	277
*247 Volt	347
*(Consult factory for availability)	
Ballast	
Electronic Program Start <10% THD	S
Electronic Dimming Ballast	D
(Consult factory on 40w and 50w dimming)	
**Suspension	
24" Aircraft Cable	C24
48" Aircraft Cable	C48
96" Aircraft Cable	C96
45° Swivel Stem	B
(Specify stem length in inches)	
Factory Options	
Emergency Circuit	EC
(EC option requires entire luminaire to be wired as emergency circuit.)	
Emergency Battery Pack	EM
HLR/GLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp	L841
Finish	
Titanium Silver	TS
Matte Satin White	WH

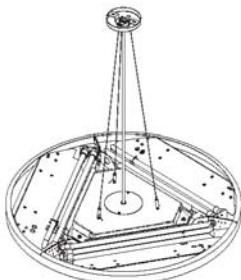
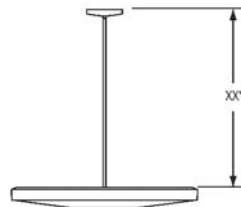
*Lamping Configuration:



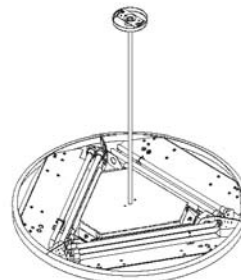
Biax lamps mount above reflectors.

**Suspension: additional information

Suspension length is determined from ceiling to top of luminaire.



Aircraft Cable with Metal Braided SJT cord "C"



45° Swivel Stem "B"

May 2004 Focal Point LLC reserves the right to change specifications for product improvement without notification.

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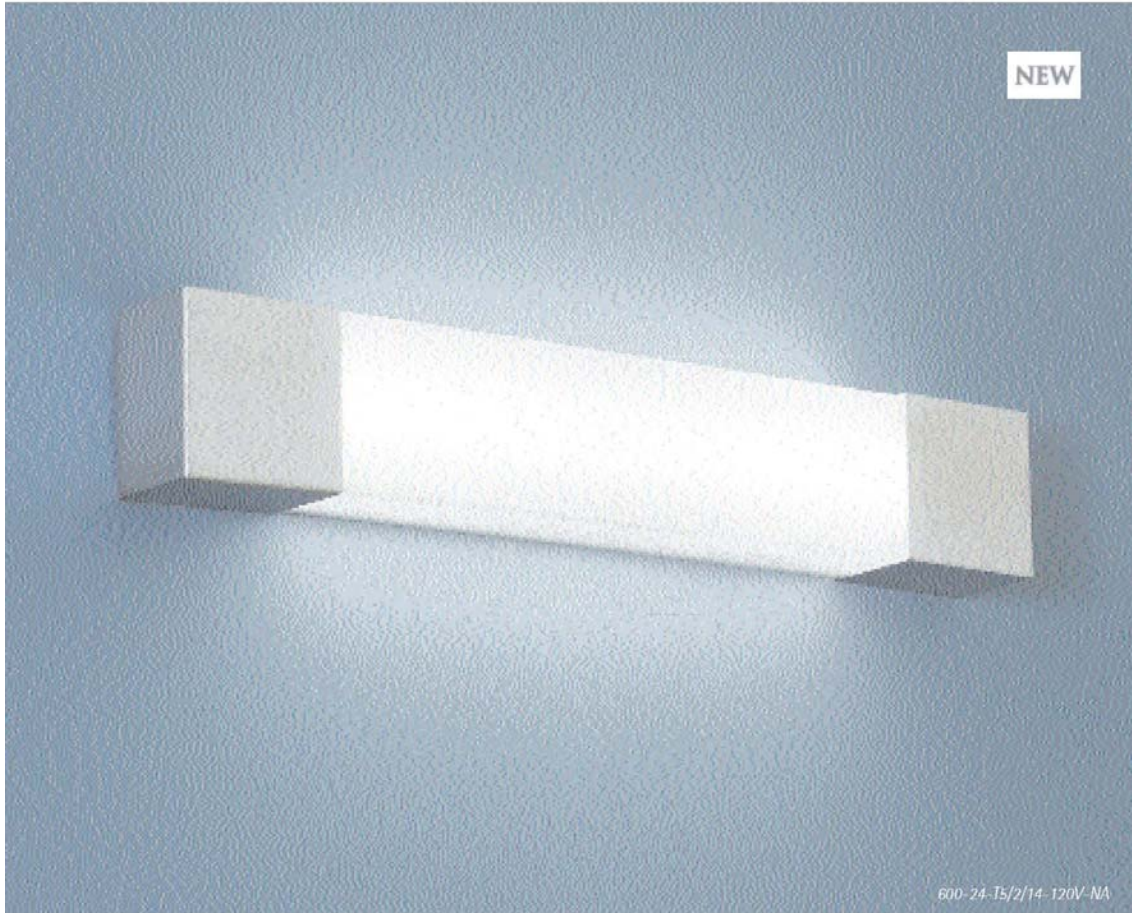
Decorative Mirror Sconce - 2'

Type **D02**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

28w	Line Voltage per EE
(2) 14w T5, 3500°K	
Fluorescent	
Restroom (Mirror)	
SHAPER #600-24-T5/2/14-120v-NA	
"600" series, luminous square vanity luminaire.	

(page 1 of 2)



 Shaper
shaperlighting.com

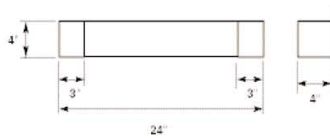
Decorative Mirror Sconce - 2'

Type **D02**

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600 SERIES

Interior Wall Luminaire
Luminous Square Vanity



SPECIFICATIONS

Description

600 Luminous Square Vanity Luminaire. ADA compliant.

Material

Aluminum or steel end caps and an aluminum body with a extruded matte white acrylic diffuser.

Finish

Standard: Natural Aluminum (NA).

Premium: Matte White (MW), Lacquered Satin Aluminum (SAL), Satin Stainless Steel (SSS), Satin Chrome (SC), Polished Chrome (PC), Satin Brass (SB), Polished Brass (PB), Satin Copper (SCP), Polished Copper (PCP), Satin Nickel (SN), Polished Nickel (PN) or Custom Color (CC).

Optics

Refer to www.shaperlighting.com for complete photometrics.

Ballast

Integral electronic HPF, multi-volt 120/277V (347V Canada), thermally protected with end-of-life circuitry to accommodate the specified lamp wattage.

Lamp/Socket

24": Two (2) 14W T5 linear fluorescent lamps.

Lamp/Socket (Continued)

36": Two (2) 21W T5 linear fluorescent lamps. Fluorescent socket injection molded plastic. Lamps furnished by others.

Installation

Supplied with a universal mounting back for a standard 3" plaster ring or switch-box. 36" Luminaire has additional mounting holes to ensure secure attachment. Horizontal or vertical mount.

Options

Dimming Ballast - Contact factory for ballast options (DM),
Damp Location - Contact factory, Remote Emergency Battery - Supplied by others (REM).

Labels

U.L. and C.U.L. listed.

Modifications

Shaper's skilled craftspeople with their depth of experience offer the designer the flexibility to modify standard wall luminaires for project specific solutions. Contact the factory regarding scale options, unique finishes, mounting, additional materials/colors, or decorative detailing.

ORDERING EXAMPLE 600-24-T5/2/14-120V-SB

SERIES	LENGTH	LAMP	VOLTAGE	FINISH	OPTIONS
600	24"	T5/2/14 (24")	120V	NA, SAL, MW, SB,	DM, REM
	36"	T5/2/21 (36")	277V (CFL only)	PB, PC, SC, SCP,	
			347V (CFL only)	PCP, SN, PN, SSS	
				or CC	



Decorative Surface Mounted Fixture - 4'

Type **D03**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

117w Line Voltage per EE
(3) 39w T5, 3500°K
Fluorescent
Reference Stacks
DARK # NO FRUIT-C-TRANSPARENT WHITE
"No Fruit C", ceiling mounted, transparent white.

No Fruit white bulbs

No Fruit red colored bulbs

No Fruit green colored bulbs

No Fruit blue colored bulbs

125

NO FRUIT S

max. 1500

1050

1300

NO FRUIT C

CEILING MOUNTED

1050

1300

DESIGN PLUS 2004

 3 x 21 W / G5 3 x 39 W / G5	body no fruit <input type="checkbox"/> transparent white	standard colors with colored bulbs <input type="checkbox"/> red <input type="checkbox"/> blue <input type="checkbox"/> green
------------------------------------	---	---

on request other colors possible with colorfilters

25kg CE 230V EVG EVGD

Decorative Pendant - 13.8"Ø

Type **D04**

(page 1 of 2)

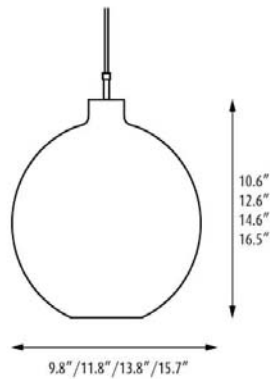
Electrical:
Lamp:
Source:
Location
Specification:
Notes:

26w 0
(1) 26w TT, 3500°K
Compact Fluorescent
Reference Stacks Built-in (Desks)
LOUIS POULSEN # WOP - 13.8 - Compact Fluorescent - (120/277) - Glass

"Wohlert", white opal glass pendant, general diffuse, opening at bottom producing direct light.

Wohlert Pendant

Design: Vilhelm Wohlert



Specification

Wohlert Pendant provides uniform general diffuse illumination. The opening at the bottom of the glass produces direct light. The quality of the glass ensures that the visual appearance of the Wohlert Pendant has an evenly lit surface.

Finish
White opal glass.

Material
Shade: Handblown white opal glass.

Mounting
Canopy: White. Cord type: 3-conductor, 18 AWG white PVC power cord. Cord length: 12'.

Weight
Max: 8 lbs.

Label
cUL, Damp location, IBEW.

1 | **Product code**
WOP

2 | **Dimension**
9.8"
11.8"
13.7"
15.7"

3 | **Light source**
1/200W/A-23/ff medium

4 | **Voltage**
120V

5 | **Finish**
GLASS

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

www.louispoulsen.com

7-2005

Pendant Mounted Direct/Indirect - 4ft

Type **F01**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

54w Line Voltage per EE
(1) 54w T5HO, 3500°K
Fluorescent
Classrooms, Open Offices, Private Offices
FOCAL POINT # FTWS-PA-1T5HO-1C-(120/277)-S-J24-(EM)-TS-see plans for run lengths
"Twelve" series, emergency ballast as required by Electrical Engineer.

(page 1 of 2)



Acrylic Diffuser **TWELVE**



This product is covered by the following U.S. Patents: 5,722,028; 5,914,487; 5,967,652; 6,043,873; 6,064,061; 6,088,091; 6,226,077; 6,266,136; 6,334,700.

FTWS

Suspended linear fluorescent for low ceiling applications.



1 Lamp T5 & T5HO



2 Lamp T5 & T5HO

Features

Construction

20 ga. CRS, forming 1.43"H x 9"W rectangular profile. Flush 1/4 ga. end plates mechanically attached to housing with concealed fasteners. Internal 18 ga. steel socket bridges mounted on 4" centers. Standard lengths in 4' and 8'. For row installation, 18 ga. steel internal ends fasten to adjoining fixtures, forming hairline joint.

4' unit weight: 20 lbs
8' unit weight: 38 lbs

Optic

Reflector fabricated of low index, semi specular premium grade aluminum. Acrylic diffuser constructed of optical grade acrylic with linear diffusing pattern: 43.25"L x 3"W. Opening 43.25"L x 3"W. 24 ga. CRS. Ceiling Uniformity Filter (CU Filter) finished in high reflectance white, powder coat.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Metal braided, factory installed 18 Ga. 3-wire, AWM with decorative aluminum TC braided shield covered with clear PVC jacket. Rated for 105° C, 300V. Consult factory on availability of braided AWM cord for 347V. All ballasts are thermally protected and have a Class "P" rating.

TS Lamps: Electronic program start 160ma, <10% THD
T5HO Lamps: Electronic program start 160ma, <10% THD

Optional DALI and other dimming ballasts available. Consult factory for 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:

TS Lamp: Up to 500 lumens
T5HO Lamps: Up to 825 lumens

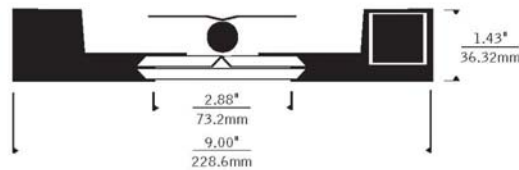
Battery pack requires unswitched hot from same branch circuit as AC ballast.

Finish

Standard fixture housing finished in Matte Satin White or Titanium Silver. Canopy finished in Matte Satin White. Polyester powder coat applied over a 5-stage pretreatment. All internal steel components are high reflectance white. Consult factory for additional finish options.

- Twelve can be specified with a patterned acrylic diffuser. The acrylic diffuser option delivers 95% indirect/5% direct illumination.
- Lamp brightness above fixture is precisely controlled with the CU Filter allowing for 12" suspension lengths.
- For row applications, steel internal ends bolt to adjoining fixtures, forming hairline joint.
- 4' and 8' standard lengths.

February 2005



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Pendant Mounted Direct/Indirect - 4ft

Type **F01**

(page 2 of 2)

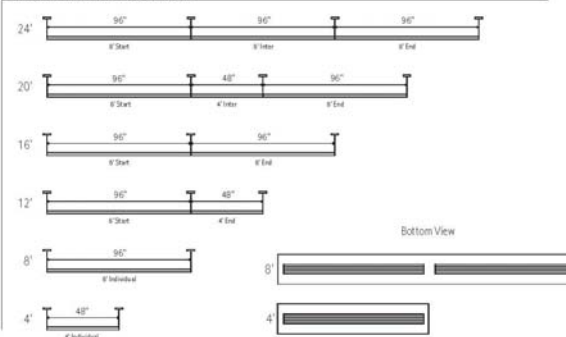
Fixture Type: _____
Project Name: _____



Order Information

Fixture Series	Twelve	FTWS
Shielding	Linear Patterned Acrylic Diffuser with CU Filter	PA
Lamping	1 Lamp TS 1 Lamp TSHO 2 Lamp TS 2 Lamp TSHO	1T5 1T5HO 2T5 2T5HO
Circuit	Single Circuit	1C
Voltage	120 Volt 277 Volt *347 Volt	120 277 347
*Ballast	Electronic Program Start <10% THD Electronic Dimming Ballast	S D
Suspension	12" Cable Suspension (5" canopy at feed locations and 2" canopy non-feed locations) Specify "C" in place of "T" for 5" dia. canopies both at power feed and non-feed locations. (suspension may be adjusted up to 24". Consult factory for lengths longer than 24")	J12
Stem Mount	Stem painted white unless otherwise specified	S
Factory Options	**Emergency Circuit **Emergency Battery Pack HLR/GLR Fuse	EC EM FU
Finish	Matte Satin White Titanium Silver (louver painted to match housing)	WH TS
Fixture Run Length	4' 8' 12' (8'+4) 16' (8'+8) 20' (8'+4+8) 24' (8'+8+8) (individual units may not be field modified for continuous row mount)	4' 8' 12' 16' 20' 24'

Continuous Run Configurations



Extended Continuous Run Configurations

Fixture Length	20'	22'	36'	40'	48'	52'	56'	60'
4'	1	1	1	1	1	1	1	1
8'	3	4	5	5	6	6	7	7

Run Length Luminaire Breakdown
Continuous runs consist of 4' and 8' nominal luminaire lengths. Lengths as shown in the table above.

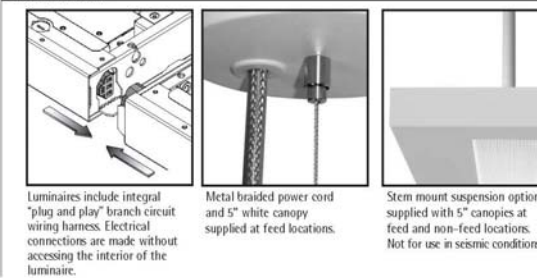
*Ballast Guide Specifications

Code	Lamping	Specifications
S	TS, TSHO	Electronic program start 160mA, <10% THD
D	TS	Standard dimming range from 100% to 10% lumen output. Consult factory for further specifications.
D	TSHO	Standard dimming range from 100% to 1% lumen output. Consult factory for further specifications.

**Note: Emergency Circuit/Battery Pack Location

Unless specified by customer, default location for Emergency Circuit (EC) or Battery Pack (EM) is the last 4' section of a run.

Luminaire Details



Luminaires include integral "plug and play" branch circuit wiring harness. Electrical connections are made without accessing the interior of the luminaire.

Metal braided power cord and 5" white canopy supplied at feed locations.

Stem mount suspension option supplied with 5" canopies at feed and non-feed locations. Not for use in seismic conditions.



Wall Mounted Direct/Indirect - 4ft

Type **F02**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

54w Line Voltage per EE
(1) 54w T5HO, 3500°K
Fluorescent
Private Offices, Reading/Writing Program
FOCAL POINT #FMEW-PA-1T5HO-1C-(120/277)-S-WM-(EM)-TS-see plans for run lengths
"Metro" series, frosted white acrylic shielding, dual circuit, integral electronic program start ballast, suspension to be confirmed, emergency battery pack as required per Electrical Engineer, titanium silver finish.

(page 1 of 2)



METRO



FMEW

Low profile wall mount indirect with luminous acrylic diffuser.



1-Lamp TS et T5HO

Features

0000 11/05

Construction

One-piece housing of die-formed 20 Ga. CRS. forming 1.37" x 8.0" W rectangular profile. Flush 14 Ga. end plates mechanically attached to housing with concealed fasteners. Internal 18 Ga. steel socket bridges mounted on 46.5" centers. Standard lengths available as 46.5" and 93". For row installation, 18 Ga. steel internal ends fasten to adjoining luminaires, forming hairline joint.

4' unit weight: 16 lbs.
8' unit weight: 32 lbs.

Optic

Reflector fabricated of low index, semi-specular premium grade aluminum. Luminous diffuser constructed of optical grade acrylic with linear diffusing pattern. Acrylic diffuser 44"L x 4"W.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects on continuous run luminaires. All ballasts are thermally protected and have a Class "P" rating.

Consult Ballast Guide on following page for ballast specifications

Optional DALI and other dimming ballasts available. Consult factory for 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:

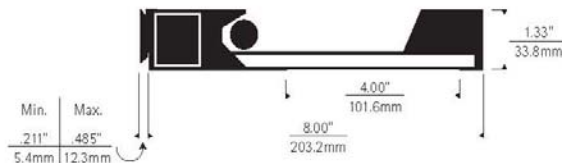
TS Lamp: Up to 500 lumens.
T5HO Lamps: Up to 825 lumens.

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

Finish

Standard luminaire housing finished in Titanium Silver or Matte Satin White. Mounting brackets, rail and J-box plate finished in Matte Satin White. Polyester powder coat applied over a 5-stage pre-treatment. All steel components are high reflectance white. Consult factory for additional finish options.

- Stylistic subtle downlight component through luminous acrylic diffuser.
- Low profile rectangular housing.
- With the standard low profile mounting bracket, luminaire appears to float from wall.
- For row applications, steel internal ends bolt to adjoining luminaires, forming hairline joint.
- Luminaire lengths designed for T5/T5HO metric lamp lengths.
- Companion linear suspended, round pendant and sconce available.
- Metro makes an exceptional aesthetic statement in conference rooms, private or open offices, reception areas or other high-end applications.



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Wall Mounted Direct/Indirect - 4ft

Type **F02**

(page 2 of 2)

Fixture Type: _____

Project Name: _____



Order Information

Luminaire Series **FMEW**
 Metro FMEW

Shielding **PA**
 Linear Patterned Acrylic Diffuser

Lamping **1TS**
 1 Lamp TS
 1 Lamp TSHO **1TSHO**

Circuit **1C**
 Single Circuit

Voltage **120**
 120 Volt
 277 Volt
 *247 Volt
 *(Consult factory for availability)

*Ballast **S**
 Electronic Program Start <10% THD
 Electronic Dimming Ballast
 (Consult factory for TS or TSHO dimming availability)

Mounting **WM**
 Wall Mount

Factory Options **EC**
 **Emergency Circuit
EM
 **Emergency Battery Pack

HLR/JLR Fuse **FU**

Include 3000K Lamp **L830**
 Include 3500K Lamp **L835**
 Include 4100K Lamp **L841**

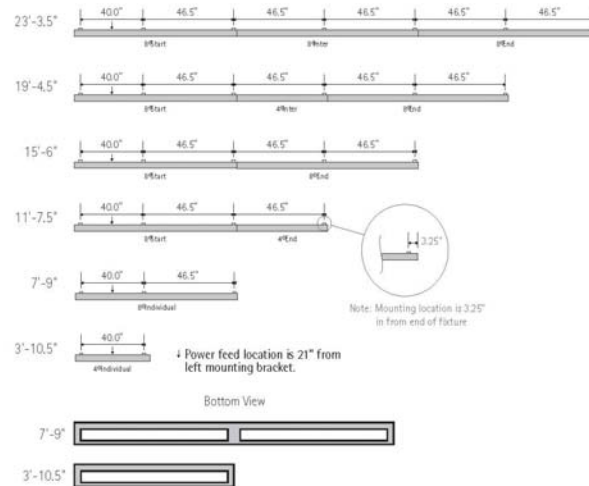
Finish **TS**
 Titanium Silver
WH
 Matte Satin White

Luminaire Run Length **4'**
 4'
 8'
 12' (8'+4')
 16' (8'+8')
 20' (8'+4'+8')
 24' (8'+8'+8')

(Above are nominal lengths. See continuous run configurations for exact dimensions.)

Continuous Run Configurations

Note: Undersize dimension



Extended Continuous Run Configurations

Note: Undersize dimension

Nom Length	(01)	(02)	(03)	(04)	(05)	(06)	(07)	(08)	(09)
Actual Length	27'-1.5"	31'	34'-10.5"	38'-9"	42'-2.5"	46'-0"	50'-4"	54'-3"	58'-1.5"
3'-10.5" (4)	1		1		1		1		1
7'-9" (8)	3	4	4	5	5	6	6	7	7

Continuous runs consist of 4' and 8' nominal luminaire lengths. Actual lengths as shown above.

*Ballast Guide Specifications

Code	Lamping	Specifications
S	TS	Electronic program start 160mA, <10% THD
S	TSHO	Electronic program start 160mA, <10% THD
D	TS	Standard dimming range from 100% to 10% lumen output. Consult factory for further specifications.
D	TSHO	Standard dimming range from 100% to 1% lumen output. Consult factory for further specifications.

**Note: Emergency Circuit/Battery Pack Location

Unless specified by customer, default location for Emergency Circuit (EC) or Battery Pack (EM) is the last 4' section of a run.

Consult: www.focalpointlights.com
 for additional photometric reports and technical information

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Linear Indirect - 4ft

Type **F03**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

28w Line Voltage per EE

(1) 28w T5, 3500°K

Fluorescent

Corridor

FOCAL POINT #FAVCW-SD-1T5-1C-(120/277)-S-WM-DC-(EM)-TS-4'

"Avenue C", single circuit, electronic program start ballast, clear acrylic dust cover, titanium silver finish.

(page 1 of 2)

see p 105

wall mount
avenue[®] c



FEATURES

Extruded aluminum, wall mount T5/T5HO fluorescent luminaire.

3.5" miniature square profile creates sleek aesthetic.

Luminaire may be specified in a direct or indirect configuration.

Avenue[®] C makes an exceptional aesthetic statement in conference rooms, private offices, reception areas or other high-end applications.

shielding options

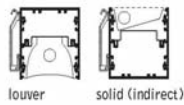
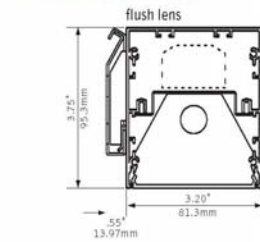


companion luminaire

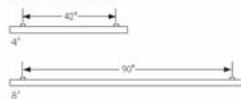


June 2005

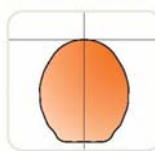
DIMENSIONAL DATA



fixture information



PERFORMANCE

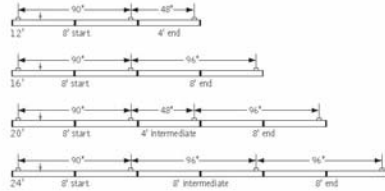


Flush Lens
1-Lamp T5
59% Efficiency
620 cd @ 10°

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

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MOUNTING INFORMATION



Power feed location is 24" from left mounting bracket.
Consult factory for additional row length information.

SPECIFICATIONS

construction

One-piece, .050" thick housing of 6063-T5 extruded aluminum.
20 Ga. ballast channel.
16 Ga. internal bulkhead.
14 Ga. steel end caps.
18 Ga. steel rail and brackets.
Standard lengths are available in 48" and 96".
All luminaires are provided with mounting brackets.

4' unit weight: 15 lbs
8' unit weight: 28 lbs

optic

22 Ga. reflector finished in high reflectance white.
Concave parabolic lower: 1" H x 1" frequency fabricated of low index, semi-specular premium grade aluminum.
Flush lens: extruded DR™ acrylic lens, .156" thick with opal satin finish.

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 illumination.
Initial lumen output for lamp types are as follows:

T5 Lamp: Up to 550 lumens
T5H0 Lamp: 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 Titanium Silver.
Mounting brackets, rail and J-Box plate finished in Matte Satin White.

ORDERING

luminaire series	FAVCW
Avenue C	FAVCW
shielding	
Flush Satin Lens	FL
Concave Parabolic Louver	PL
Indirect with Solid Housing	SD
lamping	
One Lamp T5	1T5
One Lamp T5H0	1T5H0
circuits	
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 (Consult factory for dimming availability)	D
mounting	
Wall Mount	WM
factory options	
Clear Acrylic Dust Cover	DC
Emergency Circuit	EC
Emergency Battery Pack	EM
HLR/CLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp (MR16 lamps by other)	L841
finish	
Matte White Housing	WH
Titanium Silver	TS
luminaire length	
4' Nominal Housing	4'
8' Nominal Housing	8'
12' (8'+4')	12'
16' (8'+8')	16'
20' (8'+4'+8')	20'
24' (8'+8'+8')	24'
(Consult factory for custom lengths)	

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Linear Indirect - 8ft

Type **F03-8**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

56w Line Voltage per EE

(2) 28w T5HO, 3500°K

Fluorescent

Corridor

FOCAL POINT #FAVCW-SD-1T5-1C-(120/277)-S-WM-DC-(EM)-TS-8'

"Avenue C", single circuit, electronic program start ballast, clear acrylic dust cover, titanium silver finish

(page 1 of 2)

new at '06

wall mount
avenue® c



FEATURES

Extruded aluminum, wall mount T5/T5HO fluorescent luminaire.

3.5" miniature square profile creates sleek aesthetic.

Luminaire may be specified in a direct or indirect configuration.

Avenue® C makes an exceptional aesthetic statement in conference rooms, private offices, reception areas or other high-end applications.

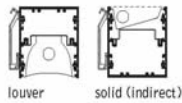
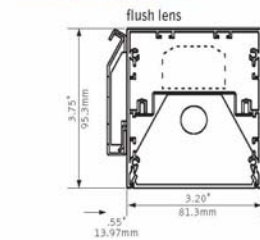
shielding options



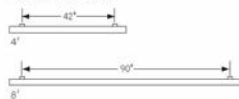
companion luminaire



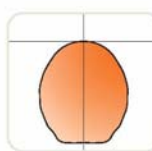
DIMENSIONAL DATA



fixture information



PERFORMANCE



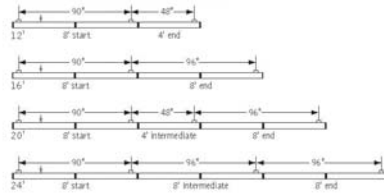
Flush Lens
1-Lamp T5
59% Efficiency
620 cd @ 10°

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

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June 2005

MOUNTING INFORMATION



† Power feed location is 24" from left mounting bracket.
 † Consult factory for additional row length information.

SPECIFICATIONS

construction

One-piece, .050" thick housing of 6-063-T5 extruded aluminum.
 20 Ga. ballast channel.
 16 Ga. internal bulkhead.
 14 Ga. steel end caps.
 18 Ga. steel rail and brackets.
 Standard lengths are available in 48" and 96".
 All luminaires are provided with mounting brackets.

4' unit weight: 15 lbs
 8' unit weight: 28 lbs

optic

22 Ga. reflector finished in high reflectance white.
 Concave parabolic lower: 1" H x 1" frequency fabricated of low iridescent, semi-specular premium grade aluminum.
 Flush lens: extruded DR™ acrylic lens, 1/16" thick with opal satin finish.

electrical

Electronic ballasts are thermally protected and have a Class "D" 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:

TS Lamp: Up to 550 lumens
 T5H0 Lamps: Up to 625 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 Titanium Silver.
 Mounting brackets, rail and J-Box plate finished in Matte Satin White.

ORDERING

luminaire series	FAVCW
Avenue C	FAVCW
shielding	_____
Flush Satin Lens	FL
Concave Parabolic Lower	PL
Indirect with Solid Housing	SD
lamping	_____
One Lamp T5	1T5
One Lamp T5H0	1T5H0
circuits	_____
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 (Consult factory for dimming availability)	D
mounting	_____
Wall Mount	WM
factory options	_____
Clear Acrylic Dust Cover	DC
Emergency Circuit	EC
Emergency Battery Pack	EM
HLR/GLR Fuse	FU
Include 3000K Lamp	L630
Include 3500K Lamp	L635
Include 4100K Lamp (MR14 lamps by ether)	L641
finish	_____
Matte White Housing	WH
Titanium Silver	TS
luminaire length	_____
4' Nominal Housing	4'
8' Nominal Housing	8'
12' (8'+4')	12'
16' (8'+8')	16'
20' (8'+4'+8')	20'
24' (8'+8'+8')	24'
(Consult factory for custom lengths)	

L10E6AS

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Recessed 1 x 4 Wallwash Troffer

Type **F04**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

28w Line Voltage per EE

1) 28w T5, 3500°K

Fluorescent

White Boards, Wall Wash

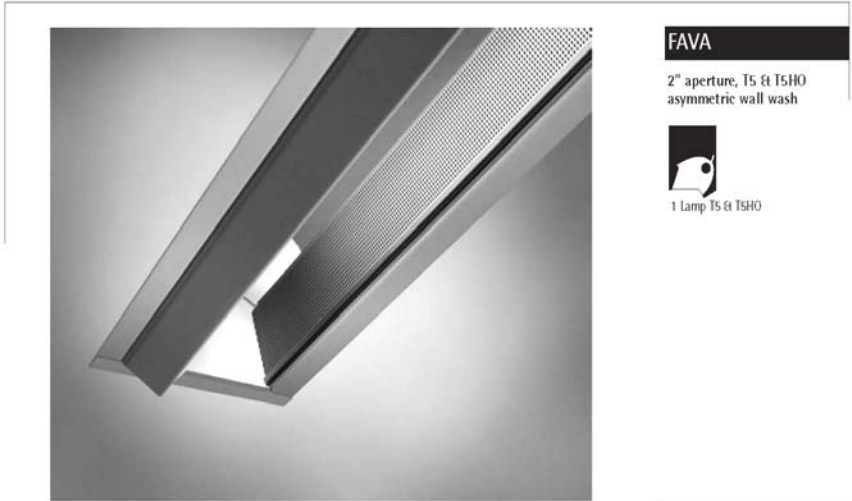
FOCAL POINT # FAVA-NS-1T5-1C-(120/277)-S-XX-(EM)-WH-4'

"Avenue A", open optic, single circuit, electronic program start ballast, matte white housing.

(page 1 of 2)



AVENUE - A



FAVA

2" aperture, T5 & T5HO asymmetric wall wash



1 Lamp T5 & T5HO

Features

Construction

One piece housing of die-formed 20 Ga. C.R.S. forming 4"H x 3.2"W recessed wall wash luminaire with 2" aperture. Grid fixtures include 20 Ga. C.R.S., 5" wide Universal Flange Rail finished in matte satin white. Drywall flange option is provided with 20 Ga. C.R.S., 5" wide flange kit and 20 Ga. galvanized steel mounting yoke. Surface mount housing is also available.

Weight: 2' unit-5 lbs
Weight: 3' unit-6 lbs
Weight: 4' unit-7 lbs

Optic

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

Electrical

All ballasts are thermally protected and have a Class "P" rating.

Consult Ballast Ordering Guide on following page for ballast specifications.

Optional DAU and other dimming ballasts available. Consult factory for 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 500 lumens
T5HO Lamps: Up to 825 lumens

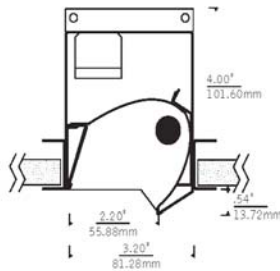
Battery pack requires unswitched hot from same branch circuit as AC ballast.

Finish

Housing and all steel components are available in either matte satin white or matte black. Perforated diffuser finished in matte black as standard.

- High performance asymmetric wall wash.
- Features 2" narrow aperture for clean unobtrusive aesthetic.
- Standard single T5 and high output lamps available in 2', 3' and 4' lengths.
- Available for multiple grid types as well as drywall and surface mount ceiling conditions.

December 2004



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Recessed 1 x 4 Wallwash Troffer

Type **F04**

(page 2 of 2)

Fixture Type: _____
Project Name: _____

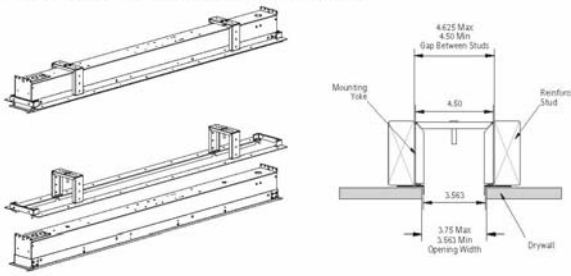
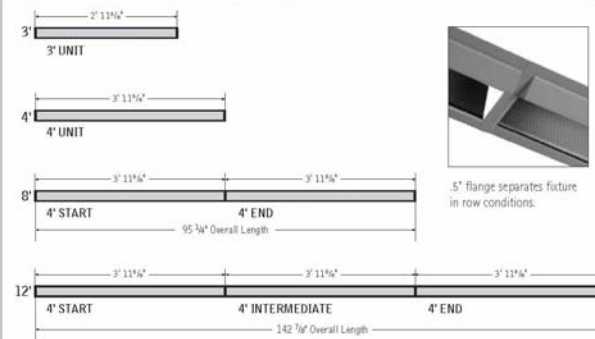
AVENUE - A



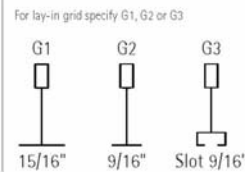
Order Information

Luminaire Series	FAVA
Avenue A	FAVA
Shielding	NS
No Shielding, Open Optic	NS
Lamping	
One Lamp TS	1TS
One Lamp TSHO	1TSHO
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 availability)	
Mounting	
15/16" Grid	G1
9/16" Grid	G2
9/16" Slotted Grid	G3
Drywall Flange	F
Surface Mount	SM
Factory Options	
Chicago Plenum	CP
Emergency Circuit	EC
Emergency Battery Pack	EM
(3' & 4' Fixtures Only)	
HURGLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp	L841
*Master/Satellite Wiring	MS
(Order in pairs)	
*(Consult factory for availability)	
Finish	
Matte White Housing	WH
Matte Black Housing	BK
(Perforated diffuser always painted black)	
Luminaire Length	
2' Nominal Housing	2'
(Grid Mount Only)	
3' Nominal Housing	3'
4' Nominal Housing	4'
For continuous row mount in drywall ceiling, specify luminaire run length, i.e. 24' (see typical run length chart)	

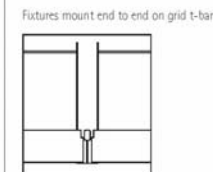
Continuous Runs for Drywall Flange (ceiling cut-out dimensions)



Grid Mounting Type



Grid Row Mounting



FOCAL POINT LLC 4201 South Pulaski Rd, Chicago, Illinois 60632 usa t 1.773.247.9494 f 1.773.247.8484 e-mail info@focalpointlights.com website www.focalpointlights.com

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Recessed 1 x 2 Wallwash Troffer

Type **F04-2**

(page 1 of 2)

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

14w Line Voltage per EE

1) 14w T5, 3500°K

Fluorescent

White Boards

FOCAL POINT # FAVA-NS-1T5-1C-(120/277)-S-XX-(EM)-WH-2'

"Avenue A", open optic, single circuit, electronic program start ballast, matte white housing.



AVENUE - A



FAVA

2" aperture, T5 & T5HO asymmetric wall wash



1 Lamp T5 & T5HO

Features

Construction

One piece housing of die-formed 20 Ga. C.R.S. forming 4"H x 3.2"W recessed wall wash luminaire with 2" aperture. Grid fixtures include 20 Ga. C.R.S., 5" wide Universal Flange Rail finished in matte satin white. Drywall flange option is provided with 20 Ga. C.R.S., 5" wide flange kit and 20 Ga. galvanized steel mounting yoke. Surface mount housing is also available.

Weight: 2' unit-5 lbs
Weight: 3' unit-6 lbs
Weight: 4' unit-7 lbs

Optic

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

Electrical

All ballasts are thermally protected and have a Class "P" rating.

Consult Ballast Ordering Guide on following page for ballast specifications.

Optional DALI and other dimming ballasts available. Consult factory for 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 500 lumens
T5HO Lamp: Up to 825 lumens

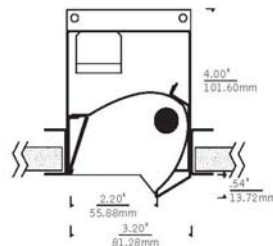
Battery pack requires unswitched hot from same branch circuit as AC ballast.

Finish

Housing and all steel components are available in either matte satin white or matte black. Perforated diffuser finished in matte black as standard.

- High performance asymmetric wall wash.
- Features 2" narrow aperture for clean unobtrusive aesthetic.
- Standard single T5 and high output lamps available in 2', 3' and 4' lengths.
- Available for multiple grid types as well as drywall and surface mount ceiling conditions.

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Recessed 1 x 2 Wallwash Troffer

Type **F04-2**

(page 2 of 2)

Fixture Type: _____

Project Name: _____

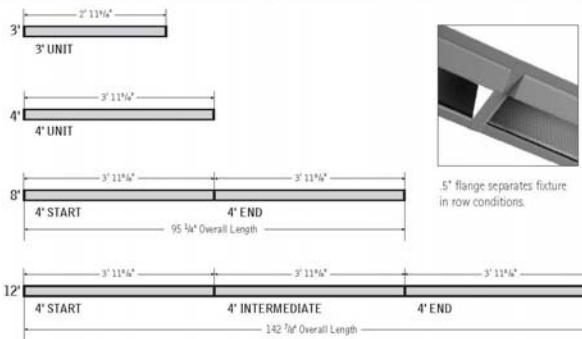
AVENUE - A



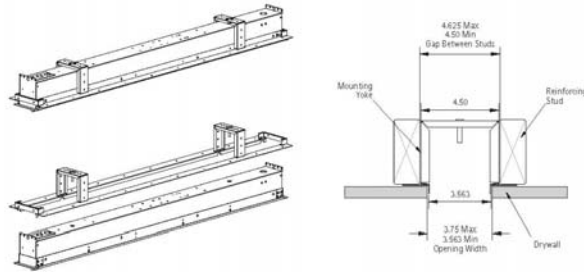
Order Information

Luminaire Series	FAVA
Avenue A	FAVA
Shielding	NS
No Shielding, Open Optic	NS
Lamping	
One Lamp TS	1TS
One Lamp TSHO	1TSHO
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 availability)	
Mounting	
15/16" Grid	G1
9/16" Grid	G2
9/16" Slotted Grid	G3
Drywall Flange	F
Surface Mount	SM
Factory Options	
Chicago Plenum	CP
Emergency Circuit	EC
Emergency Battery Pack	EM
(3" & 4" Fixtures Only)	
HLR/GLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp	L841
*Master Satellite Wiring	MS
(Order in pairs)	
*(Consult factory for availability)	
Finish	
Matte White Housing	WH
Matte Black Housing	BK
(Perforated diffuser always painted black)	
Luminaire Length	
2' Nominal Housing	2'
(Grid Mount Only)	
3' Nominal Housing	3'
4' Nominal Housing	4'
For continuous row mount in drywall ceiling, specify luminaire run length, i.e. 24" (see typical run length chart)	

Continuous Runs for Drywall Flange (ceiling cut-out dimensions)

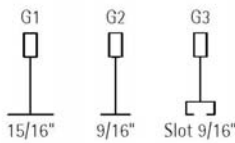


Consult factory for cut-out dimensions and additional row length information.



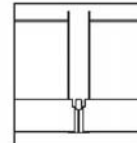
Grid Mounting Type

For lay-in grid specify G1, G2 or G3



Grid Row Mounting

Fixtures mount end to end on grid t-bar



December 2004 Focal Point, LLC reserves the right to change specifications for product improvement without notification.

FOCAL POINT LLC, 4201 South Pulaski Rd, Chicago, Illinois 60632 usa t 1.773.247.9494 f 1.773.247.8484 e-mail info@focalpointlights.com website www.focalpointlights.com

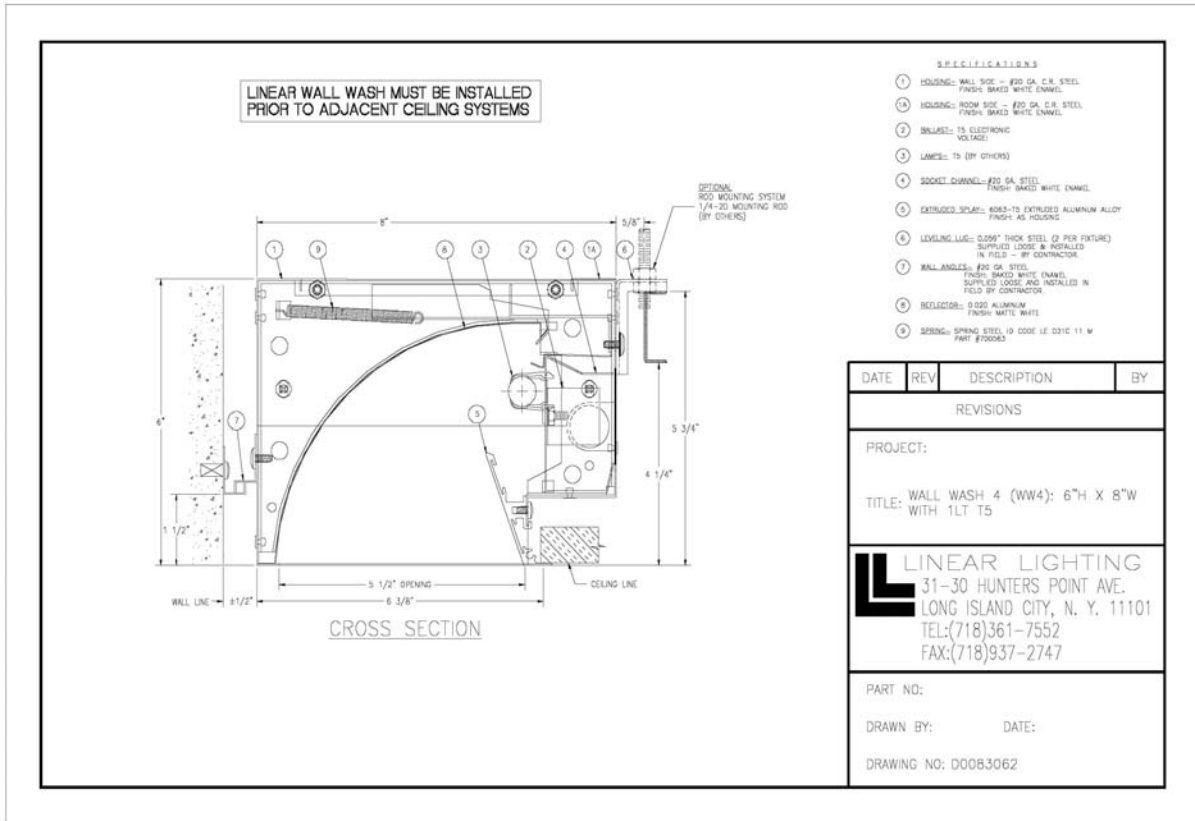


Slot Light

Type **F05**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

28w Line Voltage per EE
(1) 28w T5, 3500°K
Fluorescent
Restrooms
LINEAR LIGHTING #WW4-D-1-ET5-(120/277)--NS-R-BW
"WW4" series, integral electronic ballast, emergency ballast as required by engineer.

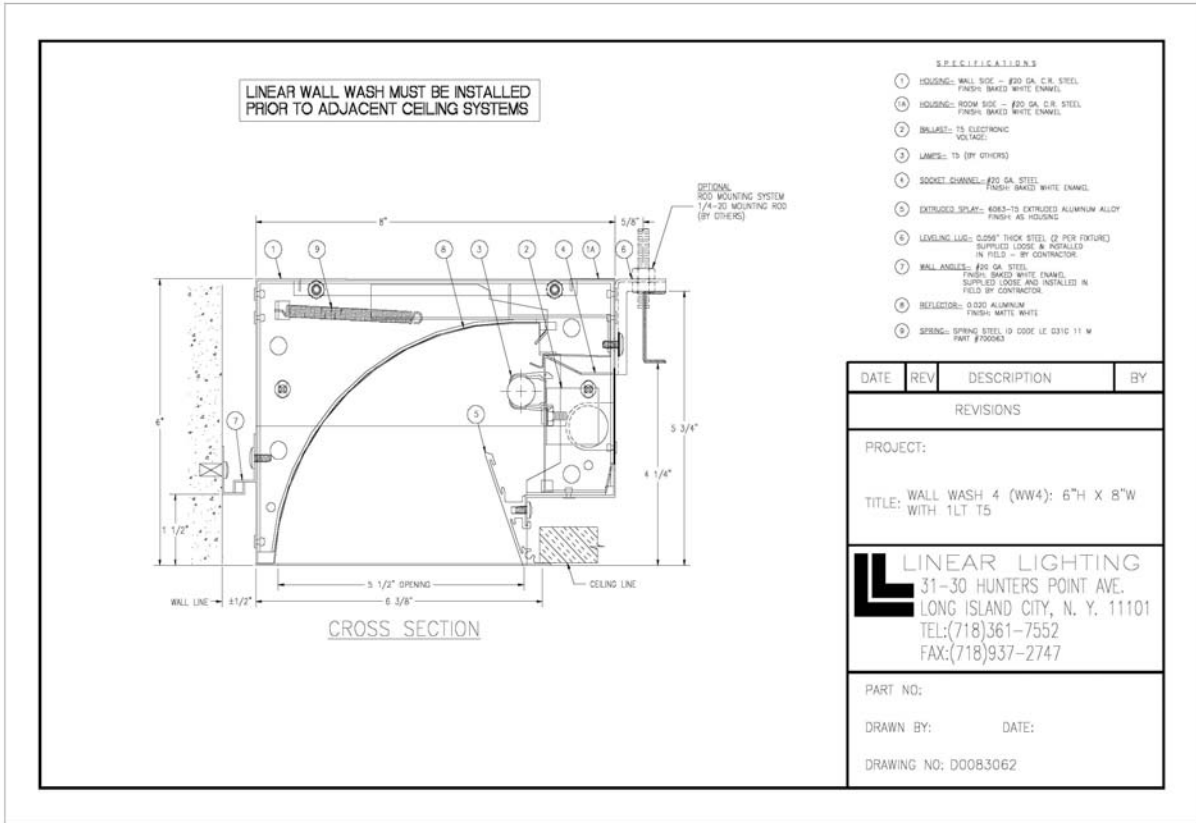


Slot Light

Type **F05-2**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

14w Line Voltage per EE
(1) 14w T5, 3500°K
Fluorescent
Restrooms
LINEAR LIGHTING #WW4-D-1-ET5-(120/277)--NS-R-BW
Same as Type F05, but 2' in length.



Recessed 2 x 4 Direct/Indirect

Type **F06**

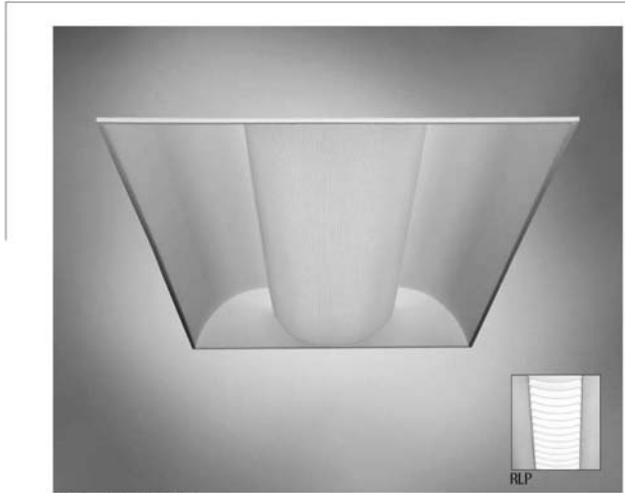
(page 1 of 2)

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

108w Line Voltage per EE
(2) 54w T5HO, 3500°K
Fluorescent
Media Study, Special Collections
FOCAL POINT # FLU-24-B-2-T5HO-S-(120/277)-G-PS-(EM)-WH
"Luna" series, emergency ballast as required by Electrical Engineer.



2x4
LUNA



U.S. Patent No. DES. 395,727

FLU 24B

2'x4' recessed indirect with electronic ballast and optional radial blade louver



2 & 3 Lamp TB



2 & 3 Lamp T5 & T5HO

Features

- Optional radial blade louver offers a distinct look that highlights interior architecture (see inset).
- One piece luminaire housing provides easy installation.
- All luminaire combinations may be continuously row mounted. Ballast is accessible from above via adjacent ceiling tile.
- Perforated shields easily snap out for simple relamping.
- High angle uniform distribution of light on vertical surfaces.

March 2004

Construction

One piece CNC formed 20 Ga. CRS. 2'x4' recessed lay-in reflector/housing 5" in depth. 20 Ga. CRS. ends form finished housing. Top access 20 Ga. CRS. ballast compartment. Lamps are shielded by detachable CNC formed 22 Ga. CRS. perforated lamp shields with acrylic lens insert. Optional CRS. radial blade louver constructed of .75" high 20 Ga. blades on 1" frequency.

Weight: 29 lbs.

Optic

CNC formed 20 Ga. CRS. reflector, finished in matte satin white powder coat (94% min. reflectance).

Electrical

Luminaires are pre-wired for specified circuits. Ballasts are thermally protected and have a Class "P" rating.

T8 Lamps: Electronic instant start 265mA, <20% THD or optional electronic program start 265mA, <10% THD
T5 Lamps: Electronic program start 160mA, <10% THD
T5HO Lamps: Electronic program start 160mA, <10% THD

Optional DALI and other dimming ballasts available. Consult factory for specifications and availability. UL and cUL listed.

Emergency

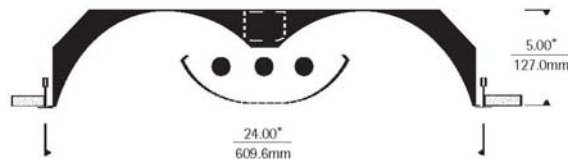
Emergency battery packs provide 90 minutes of illumination. Initial lumen output for lamp types are as follows:

T8 Lamps: Up to 550 lumens
T5 Lamps: Up to 550 lumens
T5HO Lamps: Up to 825 lumens

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

Finish

Luminaire housing, reflector and all steel components are finished in polyester powder coat applied over a 5-stage pretreatment. Standard finish for housing and all steel components: matte satin white. (min. 94% reflectance).



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Recessed 2 x 4 Direct/Indirect

Type **F06**

(page 2 of 2)

Fixture Type: _____
Project Name: _____

LUNA 2x4



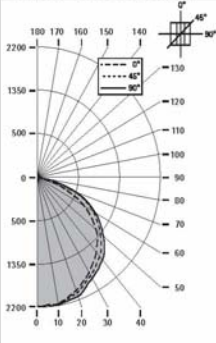
Order Information

- Luminaire Series** FLU
- Luna FLU
- Nominal Size** 24
- 2' x 4' 24
- Distribution** B
- Bi-Directional B
- Lamp Quantity** 2
- Two Lamps 2
- 3
- Three Lamps 3
- Lamp Type** T8
- T8
- T5
- T5HO
- Ballast** E
- Electronic Instant Start <20% THD (T8 only)
- S
- Electronic Program Start <10% THD
- D
- Electronic Dimming Ballast (consult factory for dimming availability)
- Voltage** 120
- 120 Volt 120
- 277
- 277 Volt 277
- 347
- *347 Volt 347
- *(Consult factory for availability)
- *Mounting** G
- Grid G
- ST
- Slot tee ST
- Shielding** PS
- Perforated Shield PS
- RLP
- Radial Blade Louver RLP
- Factory Options** AR
- Air Return AR
- DC
- Dust Cover DC
- DF
- Drywall Frame Kit DF
- EM
- Emergency Battery Pack EM
- FU
- HUR/BLR Fuse FU
- FW
- Flex Whip FW
- L830
- Include 3000K Lamp L830
- L835
- Include 3500K Lamp L835
- L841
- Include 4100K Lamp L841
- SC
- Separate Circuit SC
- Finish** WH
- Matte Satin White WH



Luminaire: 2'x4' recessed lamp (to recessed indirect fixture with white reflector and perforated lamp shield)
 Item#: 603349535
 Catalog #: R11-24-B-3-T8-1-130-0-PS-004
 Efficiency: 47%
 Independent testing laboratory report no. 101160

Candlepower Distribution



Vertical angle	0°	22.5°	45°	67.5°	90°	Zonal lumens
0°	2171	2171	2171	2171	2171	
5°	2149	2152	2150	2150	2150	206
15°	2104	2109	2120	2133	2145	601
25°	1895	1908	1940	1978	1998	899
35°	1599	1623	1682	1748	1780	1059
45°	1315	1359	1462	1553	1589	1128
55°	919	981	1102	1179	1214	971
65°	551	632	724	753	760	686
75°	260	303	298	341	354	330
85°	50	56	63	67	69	67
90°	7	8	8	10	8	
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	0

Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0°-30°	1706	19.3	28.7
0°-40°	2765	31.2	46.5
0°-60°	4864	55.0	81.8
0°-90°	5947	67.2	100.0
Total Luminaire: 0°-180°	5947	67	100.0

Luminance Data cd/m²

Vertical Angle	0	45	90
45	2646	2942	3197
55	2280	2734	3012
65	1855	2438	2559
75	1429	1638	1946
85	816	1028	1126

Spacing: 1.2 II
Criterion: 1.3 I

Co-Efficients of Utilization

Floor	20													
Ceiling	80	70	50	30	10	00								
Wall	70	50	30	10	50	10								
RCR 0	80	80	80	80	78	78	78	75	75	71	71	69	69	67
1	74	71	69	66	72	70	65	67	63	64	61	62	59	58
2	68	63	59	55	66	62	55	59	53	57	52	55	51	50
3	62	56	51	47	61	55	48	53	46	51	45	50	44	43
4	57	50	44	40	56	49	40	47	39	46	39	44	38	37
5	52	44	38	34	51	43	34	42	33	41	33	39	33	31
6	48	40	34	30	47	39	29	38	29	37	29	35	29	27
7	44	35	30	26	43	35	26	34	25	33	25	32	25	24
8	41	32	26	22	40	31	22	30	22	30	22	29	22	20
9	38	28	23	19	37	28	19	27	19	27	19	26	19	18
10	35	26	20	17	34	25	17	25	17	24	17	24	17	15

Numbers indicate percentage values of reflectivity.

Installation Details

*Mounting: Specify "G" for flat 3/16" and 15/16" tee or "ST" for 3/16" slot tee grid types.

**Drywall Frame Kit: Specify "DF" Drywall Frame Kit for drywall ceiling conditions. Use tie-wire or screws to secure frame kit.

Cut out dimensions: Min. 24.125" / Max. 24.563" / Min. 48.125" / Max. 48.563"



Recessed 4' Round Troffer

Type **F07**

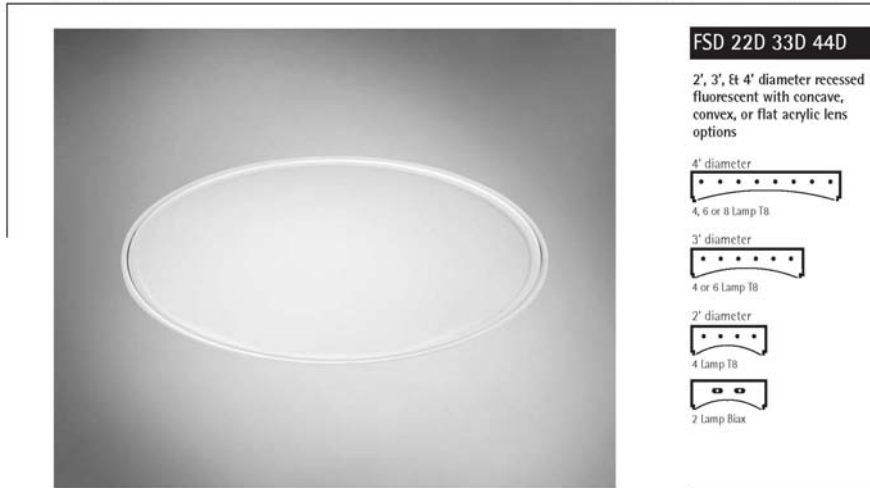
Electrical:
Lamp:
Source:
Location
Specification:
Notes:

128w Line Voltage per EE
(4) 32w T8, 3500°K
Fluorescent
Corridor, Lounge
FOCAL POINT # FSD-44-D-4-T8-S-(120/277)-U-CR-(EM)-HW
"Skydome", uniformly illuminated concave white lens

(page 1 of 2)

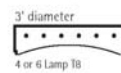
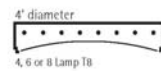


SKYDOME



FSD 22D 33D 44D

2', 3', & 4' diameter recessed fluorescent with concave, convex, or flat acrylic lens options



Features

Construction

One piece housing of die-formed 20 Ga. CRS. forming 8 1/2" deep, 2'x2', 3'x3' and 4'x4' recessed luminaires, with precision spun 2', 3' and 4' dia. ceiling trim rings and door frames. Die-formed 24 Ga. CRS. reflector and ballast cover and internal 18 Ga. steel socket bridges.

Weight: 2'-37 lbs
3'-53 lbs
4'-78 lbs

Optic

Concave lens of .100" white acrylic is retained in precision spun one piece steel door frame and secured to the housing by torsion springs. Optional convex or flat white acrylic lens available.

Electrical

Luminaires are pre-wired for specified circuits, with thermally protected Class "T" electronic ballasts.

Biac: Electronic instant start 270mA, <20% THD or optional electronic program start 270mA, <10% THD

T8 Lamps: Electronic instant start 265mA, <20% THD or optional electronic program start 265mA, <10% THD

Optional DALI and other dimming ballasts available. Consult factory for 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:

T8 Lamps: Up to 550 lumens
Biac Lamps: Up to 700 lumens

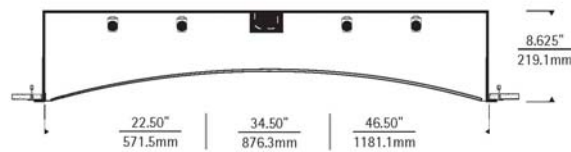
Battery pack requires unswitched hot from same branch circuit as AC ballast.

Finish

Luminaire housing and all steel components are finished in polyester powder coat applied over a 5-stage pretreatment. Standard finish: high reflectance white (min. 94% reflectance).

- Inspired by vaulted ceilings and domed architecture.
- 2', 3', 4' diameters available - all with one piece housings.
- Universal ceiling trim rings are suitable for both grid & drywall applications.
- Uniformly illuminated concave white lens, with optional convex or flat lens available.
- Skydome is a good choice for open public spaces such as airport concourses, large lobbies, reception areas and meeting rooms.

Sept. 2005



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Recessed 4' Round Troffer

Type **F07**

(page 2 of 2)

Fixture Type: _____
Project Name: _____

SKYDOME



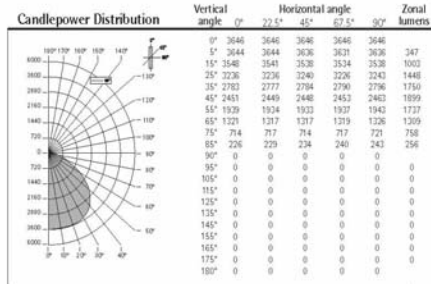
Order Information

Luminaire Series	FSD
Skydome	FSD
Nominal Size	
2' Diameter	22
3' Diameter	33
4' Diameter	44
Distribution	D
Direct Symmetrical	D
Lamp Quantity	
Two Lamps	2
(2' Diameter Only)	
Four Lamps	4
Six Lamps	6
Eight Lamps	8
Lamp Type	
40 Watt Biac	BX40
(2' Diameter Only)	
T8	T8
Ballast	
Electronic Instant Start <20% THD	E
Electronic Program Start <10% THD	S
Electronic Dimming Ballast	D
(consult factory for dimming availability)	
Voltage	
120 Volt	120
277 Volt	277
*347 Volt	347
*(Consult factory for availability)	
Mounting	U
Universal	U
Shielding	
Concave	CR
Flat	FL
Convex	CX
Factory Options	
Emergency Battery Pack	EM
HUR/GLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp	L841
Separate Circuit	SC
Finish	HW
High Reflectance White	HW

Consult www.focalpointlights.com for additional photometric reports and technical information.



Luminaire: 4' diameter six lamp Troffer recessed luminaire with concave hardcoat white, circular lens.
Filename: FSD4X40T8
Catalog #: FSD-44-6-6-10-E-120-U-CR-HW
Efficiency: 81%
Independent testing laboratory reports: 10/98/0



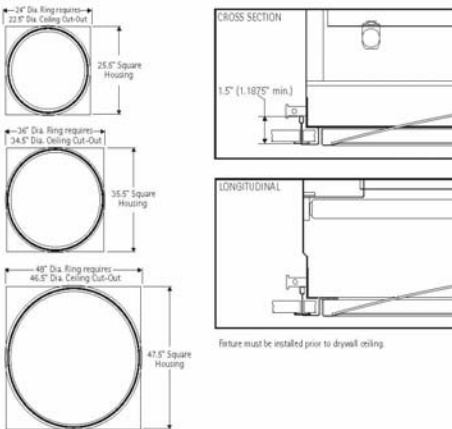
Lumen Summary				Luminance Data cd/m²				
Zone	Lumens	% Lamp	% Fixt	Vertical Angle	0	45	90	
0°-30°	2848	14.4	27.0	45	3567	3563	3564	
0°-40°	4596	26.4	43.6	55	3479	3488	3486	
0°-60°	8223	47.3	78.0	65	3217	3207	3229	
0°-90°	10556	60.7	100.0	75	2829	2829	2867	
Total Luminaire:	0°-180°	10556	61	100.0	85	2688	2763	2809

Spacing Criterion: 1.2 II
1.2 I

Co-Efficients of Utilization

Floor Ceiling Wall	80				70				50				30				10				00			
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10			
RCR 0	72	72	72	72	71	71	71	67	67	65	65	62	62	61										
1	66	64	61	59	65	62	58	60	56	57	54	55	53	51										
2	61	58	52	48	59	55	48	52	47	51	46	49	45	43										
3	56	49	46	41	54	48	40	47	40	46	39	43	38	37										
4	51	44	39	35	49	43	34	41	34	40	33	39	33	32										
5	46	39	33	29	45	38	29	37	29	35	28	34	28	27										
6	43	35	29	25	41	34	25	32	25	32	25	31	24	23										
7	39	31	26	22	38	31	22	30	22	29	22	28	21	20										
8	36	28	23	19	35	27	19	27	19	26	19	25	19	17										
9	33	25	20	16	32	25	16	24	16	23	16	22	16	15										
10	31	23	18	14	30	22	14	22	14	21	14	20	14	13										

INSTALLATION



FOCAL POINT LLC, 4201 South Pulaski Rd, Chicago, Illinois 60652 USA T 1.773.247.9494 F 1.773.247.8484 E-MAIL info@focalpointlights.com WEB/ITE www.focalpointlights.com



Recessed 2' Round Troffer

Type **F07-2**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

34w Line Voltage per EE
(2) 17w T8, 3500°K
Fluorescent
Special Collections, Media Study, Vestibule
FOCAL POINT # FSD-22-D-2-T8-S-(120/277)-U-CR-(EM)-HW
"Skydome", uniformly illuminated concave white lens

(page 1 of 2)



SKYDOME



Features

Construction

One piece housing of die-formed 20 Ga. CRS, forming 8 3/4" deep, 2x2', 3x3' and 4x4' recessed luminaires, with precision spun 2", 3" and 4" dia. ceiling trim rings and door frames. Die-formed 24 Ga. CRS, reflector and ballast cover and internal 18 Ga. steel socket bridges.

Weight: 2'-37 lbs
3'-53 lbs
4'-78 lbs

Optic

Concave lens of .100" white acrylic is retained in precision spun one piece steel door frame and secured to the housing by torsion springs. Optional convex or flat white acrylic lens available.

Electrical

Luminaires are pre-wired for specified circuits, with thermally protected Class "P" electronic ballasts.

Bias: Electronic instant start 270mA, <20% THD or optional electronic program start 270mA, <10% THD

T8 Lamps: Electronic instant start 265mA, <20% THD or optional electronic program start 265mA, <10% THD

Optional DALI and other dimming ballasts available. Consult factory for 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:

T8 Lamps: Up to 550 lumens
Bias Lamps: Up to 700 lumens

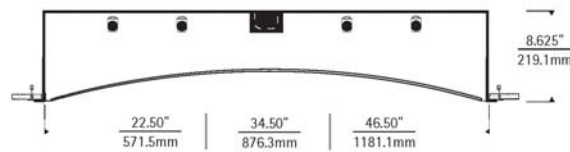
Battery pack requires unswitched hot from same branch circuit as AC ballast.

Finish

Luminaire housing and all steel components are finished in polyester powder coat applied over a 5-stage pretreatment. Standard finish: high reflectance white (min. 94% reflectance).

- Inspired by vaulted ceilings and domed architecture.
- 2', 3', 4' diameters available - all with one piece housings.
- Universal ceiling trim rings are suitable for both grid & drywall applications.
- Uniformly illuminated concave white lens, with optional convex or flat lens available.
- Skydome is a good choice for open public spaces such as airport concourses, large lobbies, reception areas and meeting rooms.

0002-1445



THE
ART OF
LIGHT



Recessed 2' Round Troffer

Type **F07-2**

(page 2 of 2)

Fixture Type: _____
Project Name: _____

SKYDOME



THE
ART OF
LIGHT

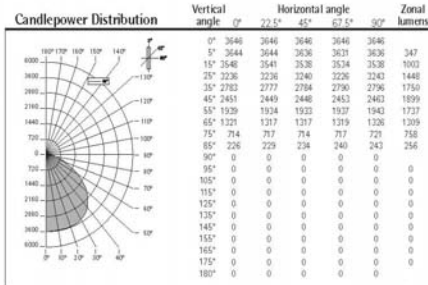
Order Information

- Luminaire Series **FSD**
Skydome **FSD**
- Nominal Size
2' Diameter **22**
3' Diameter **33**
4' Diameter **44**
- Distribution **D**
Direct Symmetrical **D**
- Lamp Quantity
Two Lamps **2**
(2' Diameter Only)
Four Lamps **4**
Six Lamps **6**
Eight Lamps **8**
- Lamp Type **BX40**
40 Watt Bi-x
(2' Diameter Only)
T8
- Ballast
Electronic Instant Start <20% THD **E**
Electronic Program Start <10% THD **S**
Electronic Dimming Ballast **D**
(consult factory for dimming availability)
- Voltage
120 Volt **120**
277 Volt **277**
*347 Volt **347**
**(Consult factory for availability)*
- Mounting **U**
Universal **U**
- Shielding
Concave **CR**
Flat **FL**
Convex **CX**
- Factory Options
Emergency Battery Pack **EM**
HLR/GLR Fuse **FU**
Include 3000K Lamp **L830**
Include 3500K Lamp **L835**
Include 4100K Lamp **L841**
Separate Circuit **SC**
- Finish **HW**
High Reflectance White **HW**

Consult www.focalpointlights.com for additional photometric reports and technical information



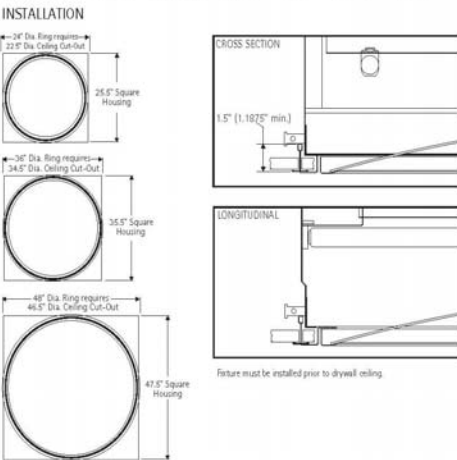
Luminaire: 4' diameter six lamp T8 recessed luminaire with concave handout white, circular lens.
Form: FSD40X18
Catalog #: FSD-44-0-18-1-120-0-03-001
Efficiency: 67%
Independent testing laboratory report no. N1960



Zone	Lumen Summary		Luminance Data (cd/m²)		
	Lumens	% Lamp	0°	45°	90°
0°-20°	2848	16.4	27.0	45	3567
0°-40°	4598	26.4	43.6	5.5	3479
0°-60°	8223	47.3	78.0	6.5	3217
0°-90°	10556	60.7	100.0	7.5	2829
0°-180°	10556	61	100.0	8.5	2688

Spacing Criterion: 1.2 II
1.2 I

RCR	Floor						Ceiling						Wall							
	80	70	50	30	10	00	80	70	50	30	10	00	70	50	30	10	00			
0	72	72	72	72	71	71	67	67	65	65	62	62	61	60	64	61	59	55	53	51
1	66	64	61	59	45	42	58	60	56	57	54	55	53	51	41	46	49	45	43	43
2	61	56	52	48	34	31	47	47	43	45	46	49	45	43	36	38	37	37	37	37
3	56	49	46	41	24	22	40	40	37	40	45	39	43	38	33	33	33	33	33	33
4	51	44	39	35	16	14	34	34	31	34	40	33	39	33	27	27	27	27	27	27
5	46	39	33	29	11	10	29	29	27	29	35	28	34	28	23	23	23	23	23	23
6	42	35	29	25	6	5	25	25	23	25	32	25	31	24	21	21	21	21	21	21
7	39	31	26	22	3	3	22	22	20	22	29	22	28	21	18	18	18	18	18	18
8	36	28	23	19	2	2	19	19	17	19	26	19	25	19	17	17	17	17	17	17
9	33	25	20	16	1	1	16	16	14	16	23	16	22	16	15	15	15	15	15	15
10	31	23	18	14	0	0	14	14	12	14	21	14	20	14	13	13	13	13	13	13



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Recessed 2' Linear Strip

Type **F08**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

14w Line Voltage per EE
(1) 14w T5, 3500°K
Fluorescent
Entry (Canopy)
DESIGN PLAN #CRS-8-6D-1X-4-06-0-(C)-OPAL GLASS-0
"Cricket 61", symmetric distribution, opal glass lens

(page 1 of 2)



cricket 61
in grade symmetric and asymmetric
UL listed wet label IP67, IK9

designplan 

79 Trenton Avenue
Frenchtown, NJ 08825

designplan  SBP

Tel: (908) 996-7710
Fax: (908) 996-7042

CR61 7/04

8

Recessed 2' Linear Strip

Type **F08**

(page 2 of 2)



94 CRICKET 61/Asymmetric



Cricket 61 asymmetric

ORDERING CHART

SERIES	PROD. ID	LAMP TYPE	WATTAGE	BODY	FINISH	GRILL	BALLAST	LENS	OPTIONS
Cricket asymmetric	XXX	X	XX	X	XX	X	X	X	XX
	CRA	β-FLUOR	40-1X 14W T5 2 FOOT BODY 56-1X 24W T5 HQ 2 FOOT BODY	4-POLY RECESSED WOUND ENTRED	SS- STAINLESS STEEL SP- ALUMINIUM TRIM PAINTED RAL 9006	C- NONE	C- 120-277V ELECTRONIC	F- CLEAR TEMPERED GLASS	C- NONE 4- ONE CIRCUIT FUSING



94 CRICKET 61/Symmetric



Cricket 61 symmetric

ORDERING CHART

SERIES	PROD. ID	LAMP TYPE	WATTAGE	BODY	FINISH	GRILL	BALLAST	LENS	OPTIONS
Cricket symmetric	XXX	X	XX	X	XX	X	X	X	XX
	CRA	β-FLUOR	40-1X 14W T5 2 FOOT BODY 56-1X 24W T5 HQ 2 FOOT BODY	4-POLY RECESSED WOUND ENTRED	SS- STAINLESS STEEL SP- ALUMINIUM TRIM PAINTED RAL 9006	C- NONE	C- 120-277V ELECTRONIC	G- ROCKET TEMPERED GLASS	C- NONE 4- ONE CIRCUIT FUSING

ACCESSORIES

	BL	14028220 - A0255/BL
	R	14027920 - A0255/R
	V	14028120 - A0255/V
	G	14028020 - A0255/G

Polyester color filters, to mount inside the fitting under the glass. Prolonged use of the filters make them fade, which becomes apparent after about 2000 working hours and it is accelerated if the filter is exposed directly to U.V. rays.



14026620 - A0250/AL
14026720 - A0250/SS

Mechanical junction for joining together two fittings in line. A0250/AL with AL 9006 aluminium plate. A250/I with stainless steel (AISI 304) plate. (For outdoor max nr.5/AL and max nr.10/SS).

Column Mounted Up/Down Light

Type **F09**

(page 1 of 2)

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

78w Line Voltage per EE
(2) 39w PAR20FL
Metal Halide
Round Columns
LUMIERE #714-2-MH39PAR20-(120/277)-XX
"Westwood", combination up/down light



DESCRIPTION

Westwood 714 and 714-2 are ultra-compact wall fixtures for use with PAR20 metal halide lamps. Both models are provided with a remote ballast/housing assembly and are suitable for use with 120, 208, 240, 277 or 347V line voltage (specify). Model 714 provides downlight or uplight by way of the 180° rotational fixture head. Model 714-2 provides combination uplight and downlight. Various lenses, louvers and color or dichroic filters can be combined – up to three at once – to create multiple lighting effects. Lumière's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

MATERIAL
Housing and hood are precision-machined from corrosion-resistant 6061-T6 aluminum billet. Mounting canopy is constructed from corrosion-resistant silicone aluminum.

SPECIFICATION FEATURES

FINISH
Fixtures are double protected by a chromate conversion undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

HOOD
Hood is removable for easy relamping and accepts up to three internal accessories at once (lenses, louvers, filters) to achieve multiple lighting effects. Weep holes prevent water collection on the upright position.

GASKET
Housing and hood are sealed with a high temperature silicone o-ring gasket to prevent water intrusion.

LENS
Tempered glass lens, factory sealed with high temperature adhesive to prevent water intrusion and breakage due to thermal shock.

MOUNTING & ADJUSTABILITY
Both models mount over a standard 4" J-box and connect to a remote metal halide

Catalog #	Type
Project	
Comments	
Prepared by	Date

ballast/housing assembly (provided). Model 714 provides downlight or uplight by way of the 180° rotational fixture head. Model 714-2 provides combination uplight and downlight. Lumière's exclusive Siphon Protection System (S.P.S.) prevents water from siphoning into the fixture through its own lead wires.

HARDWARE
Stainless steel hardware is standard to provide maximum corrosion-resistance.

SOCKET
Ceramic socket with 250° C Teflon® coated lead wires and medium base.

BALLAST
Remote core & coil ballast/housing assembly is standard (120/208/240/277/347V). Maximum remote mounting distance is 50'. Rated for -20° C starting temperature.

LAMP
Not included. Available from Lumière as an accessory – see Lamps under Optical Accessories on the reverse side of this page.

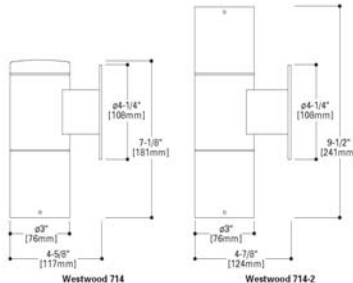
LABELS & APPROVALS
UL and cUL listed, standard wet label. Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

WARRANTY
Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.



**WESTWOOD
714
714-2**

**39W (max.) PAR20
Metal Halide
WALL**



ORDERING INFORMATION

SAMPLE NUMBER: 714-MH39PAR20-277-BK

Model	Source	Volts	Finish	Accessories
714 = 180° rotational head 714-2 = Combination up/down light	MH39PAR20 Metal Halide MH39PAR20 = 39W/PAR20/medium Lamp not included Includes remote core & coil ballast	120 = 120V 208 = 208V 240 = 240V 277 = 277V 347 = 347V	Painted BK = Black BZ = Bronze CS = City silver VE = Verde WT = White	(Order Separately) See reverse page

WWW.COOPERLIGHTING.COM

Consult your representative for additional options and finishes.



fox design
architectural lighting

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Column Mounted Up/Down Light

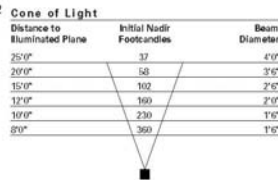
Type **F09**

(page 2 of 2)

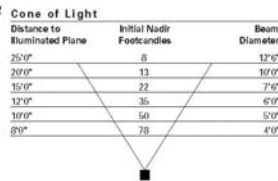
WESTWOOD 714 / 714-2

PHOTOMETRIC DATA

Westwood 714/714-2
Lamp= CDM39PAR20/SP
CBCP=23,000



Westwood 714/714-2
Lamp= CDM39PAR20/FL
CBCP=5000



LAMP INFORMATION

Lamp	ANSI Code	Watts	Beam Spread	CBCP	*K	Life (hrs.)	Base	Volts
CDM39PAR20/SP	M130KK-39	39	10°	23,000	3000	9000	medium	120-347
CDM39PAR20/FL	M130KK-39	39	30°	5000	3000	9000	medium	120-347

NOTE: Inferior quality lamps may adversely affect the performance of this product. Use only name brand lamps from reputable lamp manufacturers.

OPTICAL ACCESSORIES

Color & Dichroic Filters

F22-20 = Red color	F71-20 = Peach dichroic	F76-20 = Red dichroic
F33-20 = Blue color	F72-20 = Amber dichroic	F77-20 = Dark blue dichroic
F44-20 = Green color	F73-20 = Green dichroic	F78-20 = Light blue dichroic
F55-20 = Yellow color	F74-20 = Medium blue dichroic	F79-20 = Neutral density dichroic
F66-20 = Mercury vapor color	F75-20 = Yellow dichroic	F80-20 = Magenta dichroic

Lamps

MHP2039-SP = 39-watt metal halide PAR20 lamp - spot

MHP2039-FL = 39-watt metal halide PAR20 lamp - flood

Lower wattage lamps and/or additional distributions may be available. See the *Accessories & Technical Data* section of this catalog for details.

Lenses & Louvers

DIF-20 = Diffused lens
LSL-20 = Linear spread lens
OSL-20 = Overall spread lens
LVR-20 = Hex coll louver

NOTES AND FORMULAS

- 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.
- Bare lamp data shown. Consult lamp manufacturers to obtain detailed specifications for their lamps.

Specifications and Dimensions subject to change without notice.

COOPER Lighting

Lumière - Customer First Center - 1121 Highway 74 South - Peachtree City, GA 30069 - TEL 770.486.4800 - FAX 770.486.4801 ADL032482



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Recessed 6"Ø Downlight

Type **F10**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

42w Line Voltage per EE
(1) 42w TT, 3500°K
Compact Fluorescent
varies
PORTFOLIO #C6132-(E/EM)-6150-H-TRM6/P
5 11/16" aperture, horizontal lamp orientation, "haze" Alzak reflector with white trim ring, emergency battery pack as required by Electrical Engineer.

TYPE:

DESCRIPTION

Low brightness 6" aperture reflector for use with either 26W or 32W Triple Tube 4-pin compact fluorescent lamps. The precisely formed non-imaging optical 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 one electronic preheat ballast to operate all 26W and 32W triple lamps. 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. Lens downlights and open wall wash trims are interchangeable within the same housing.

CATALOG#:

SPECIFICATION FEATURES

- A--Reflector**
Low iridescent Alzak® finishes in specular clear, haze, straw and wheat, .050 thick aluminum, in a one piece spun parabolic contour. Positive reflector mounting, without tools, 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 Connector**
One piece die cast aluminum connection allows venting 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. For 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 G24q-3 base with fatigue free stainless steel lamp spring ensures positive lamp retention.
- I--Electronic Ballast**
Thermally protected, fused, encased and potted high frequency 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. listed, C.S.A. certified, standard damp label, IBEW union made



PORTFOLIO



C6132-6150

**26W Triple
32W Triple**
Compact
Fluorescent
6" OPEN REFLECTOR

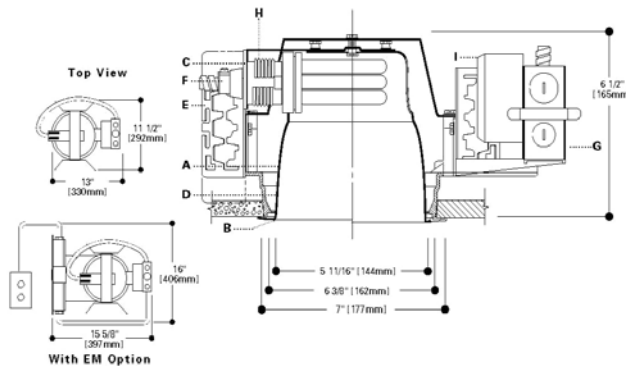
Energy Data

26W Triple 4-pin
Ballast: Electronic
120V Input Watts 29
Line Amps: 0.25
277V Input Watts 26
Line Amps: 0.09
Power Factor: >.99
THD: <.05%
Min Starting Temp.: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin
Ballast: Electronic
120V Input Watts 34.5
Line Amps: 0.30
277V Input Watts 34.5
Line Amps: 0.13
Power Factor: >.99
THD: <.05%
Min Starting Temp.: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin
Ballast: Dimming
120V Input Watts 39
Line Amps: 0.33
277V Input Watts 37
Line Amps: 0.13
Power Factor: >.96
THD: <.20%
Min Starting Temp.: 10°C (50°F)
Sound Rating: A

Luminaire Efficacy Rating:
C6132-6150-LI-36.61



ORDERING INFORMATION

SAMPLE NUMBER: 6132E-6150LI
Complete unit consists of housing, ballast and trim.

Housing	Ballast	Trims	Color	Accessories
C6132				
C6132	E, EEM*, ECP** -120V through 277V Electronic 3E-347V Electronic 1D, 1DCP* -120V Dimming** 2D, 2DCP* -277V Dimming** DLS1 -120V to 277V Digital Lighting System (See DLS Section for details) *EM-Emergency Module Option **CP-Chicago Platinum Option	6150-Reflector with Polymer Trim 6151-Self Flanged Reflector ** Lutron Hi Lume ® or 100% compatible 32W Lamps only	LI-Specular Clear, Low Iridescent H-Haze S-Straw WH-Wheat ES-Black Baffle (On 6150 only) WB-White Baffle (On 6150 only)	Trim Rings TRMG-P-White TRMG-MB-Black TRMG-R-Rimless Slope Colling Adaptor HSA-G-XX-Specify Slope 1 1/2" C-Channel Hangers HE2G-26" Long HE2G-36" Long

COOPER LIGHTING

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 Electronics Co. Inc.

ADP012075
(Supersedes ADV980007)



Decorative Recessed Downlight

Type **F11**

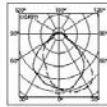
Electrical:
Lamp:
Source:
Location
Specification:
Notes:

26w Line Voltage per EE
(1) 26w TT, 3500°K
Compact Fluorescent
varies
CONCORD #(4064670/4064671)
"Kometa"

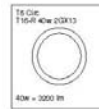
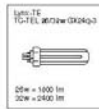
NEW

Kometa
Circular Modular

Concord:marlin



BLOR = 0.54 LLOR = 0.07
4064672



Standard	Smooth	Textured	
1 x 26/32w TC-TEL + 40w T16-R	4064670	4064672	6.10kg

Emergency			
1 x 26/32w TC-TEL + 40w T16-R	4064671	4064673	0.00kg

Dimmable			
1 x 26w TC-TEL + 40w T16-R	4064670	4064600	6.10kg
1 x 32w TC-TEL + 40w T16-R	4064674	4064676	6.10kg

Dimmable Emergency			
1 x 26w TC-TEL + 40w T16-R	4064670	4064601	0.00kg
1 x 32w TC-TEL + 40w T16-R	4064676	4064677	0.00kg

Accessories	Order separately		
Extra Load Suspension 1m	4064643		0.75kg

NOTE: Use if ceiling grid requires extra support. For maximum load details please contact relevant ceiling manufacturer.



428




Recessed Wallwasher-6"Ø

Type **F12**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

26w Line Voltage per EE
(1) 26w TT, 3500°K
Compact Fluorescent
Varies
PORTFOLIO #C6132-(E/EM)-6110-H-TRM6/P
Haze Alzak reflector.

TYPE: CATALOG#:  **PORTFOLIO**

DESCRIPTION

Low brightness 6" aperture reflector for use with either 26W or 32W Triple Tube 4-pin compact fluorescent lamps. The geometric stepped reflector maximizes flux towards the wall and is spectrally neutral leaving the color rendering of the source unchanged. It is available in single and double wall wash versions. The one piece design eliminates light leaks at the ceiling. Standard features include low iridescent finish on all reflectors, electronic rapid start preheat ballasts and venting to ensure maximum lamp life and lumen output. Optics offer unparallel performance with uniform illumination on wall, no flashback, and glare free downlighting. Open reflectors and lensed downlight trims are interchangeable within the same housing.

SPECIFICATION FEATURES

A--Reflector
Injection molded Geometric Reflector for Uniform Vertical Illumination is vacuum metallized with polysiloxane hardcoat finish. One piece spun parabolic downlight reflector, .050 thick aluminum, has low iridescent finish in specular clear, haze, straw and wheat. 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 Connector
One piece die cast aluminum connection allows venting 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 base with fatigue free stainless steel lamp spring ensures positive lamp retention.

I--Electronic Ballast
Thermally protected, fused, encased and potted high frequency 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. listed, C.S.A. certified, standard damp label, IBEW union made



C6132-6110 6120

**26 W Triple
32 W Triple
Compact
Fluorescent
6" OPEN
WALL WASH**

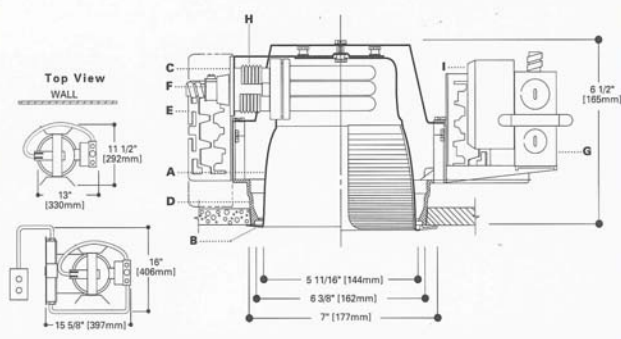
Energy Data

26W Triple 4-pin
Ballast: Electronic
120V Input Watts: 29
Line Amps: 0.25
277V Input Watts: 26
Line Amps: 0.09
Power Factor: >.99
THD: <90%
Min Starting Temp.: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin
Ballast: Electronic
120V Input Watts: 34.5
Line Amps: 0.30
277V Input Watts: 34.5
Line Amps: 0.13
Power Factor: >.99
THD: <90%
Min Starting Temp.: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin
Ballast: Dimming
120V Input Watts: 39
Line Amps: 0.33
277V Input Watts: 37
Line Amps: 0.13
Power Factor: >.95
THD: <20%
Min Starting Temp.: 10°C (50°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.



ORDERING INFORMATION
SAMPLE NUMBER: C6132-6110L1
Complete unit consists of housing, ballast and trim.

Housing	Ballast	Trims	Color	Accessories
C6132				
C6132	E, EEM*, ECP**=120V through 277V Electronic 3E=3kTV Electronic 1D, 1DCP*=120V Dimming 2D, 2DCP*=277V Dimming DLS1=120V to 277V Digital Lighting System (See DLS Section for details) *EM=Emergency Module Option **CP=Chicago Plenum Option	Reflector with Polymer Trim 6110=Single 6120=Double Self Flanged Reflector 6111=Single 6121=Double	LI=Specular Clear, Low Iridescent H=Haze S=Straw WH=Wheat	Trim Rings TRMS-P=White Metal TRMS-MB=Black Metal TRR6=Trimless 1 1/2" C-Channel Bar Hangers HB26=26" Long HB50=50" Long

** Lutron Hi-Lume or 100% compatible, 32W lamps only

COOPER LIGHTING

ADP013174 (Supersedes ADV985032)



Surface Mounted Cylinder - 6"Ø

Type **F13**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

32w Line Voltage per EE
(1) 32w TT, 3500°K
Compact Fluorescent
Stacks (Perimeter)
PORTFOLIO #C16032-(1E/2E)-X-6000-H
Medium beam distribution, haze Alzak reflector.



PORTFOLIO



C16032

**26W Triple
32W Triple**
Compact
Fluorescent
**6" SURFACE
CYLINDER**

DESCRIPTION

Surface cylinder for use with low brightness 6" aperture reflectors with either 26W or 32W Triple Tube 4-pin compact fluorescent lamps. Adjustable and locking socket position allows reflectors with different distributions to be used within the same housing for a variety of lighting effects. Standard features include low iridescent finish on all reflectors, electronic preheat rapid start ballasts and venting to ensure maximum lamp life and lumen output. Optics offer unparalleled performance with glare free downlighting.

SPECIFICATION FEATURES

A--Reflector

Low iridescent Alzak® finishes in Specular Clear, Haze, Straw and Wheat. .050 thick aluminum, in a one piece spun

SPECIFICATION FEATURES

macrofocal parabolic contour. Positive reflector mounting pulls trim tight to housing. Other finish options available upon request.

B--Housing

Round seamless aluminum with crisply detailed edges. Choice of polyester powdercoat finish in white or bronze. Other finish options available upon request. Installs to canopy via keyhole slots for positive mounting.

C--Mounting

Mounting canopy installs to recessed junction box (by others). All hardware and brackets are galvanized or plated.

D--Socket

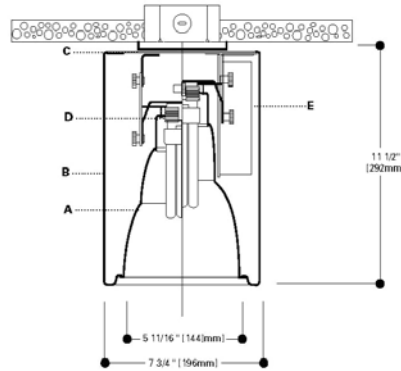
4-pin G24q3 base with fatigue free stainless steel lamp spring ensures positive lamp retention. Socket plate adjusts and locks into position without tools to accommodate various lamps and reflectors.

E--Electronic Ballast

Thermally protected, fused, encased and potted, high frequency electronic ballast provides full light output and rated lamp life. Provides flicker free and noise free operation and starting. One ballast operates all manufacturers' 26W and 32W triple tube lamps.

Labels

U.L. listed, C.S.A. certified, standard damp label, IBEW union made.



Energy Data

26W Triple 4-pin

Ballast: Electronic
120V Input Watts: 29
Line Amps: 0.25
277 Input Watts: 26
Line Amps: 0.09
Power Factor: >99%
THD: <10%
Min. Starting Temp: -10°C (15°F)
Sound Rating: A

32W Triple 4-pin

Ballast: Electronic
120V Input Watts: 34.5
Line Amps: 0.30
277 Input Watts: 34.5
Line Amps: 0.13
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.

ORDERING INFORMATION

SAMPLE NUMBER: C160321E-0210LI

Complete unit consists of housing, ballast and trim.

Housing	Ballast	Finish	Trims	Color	Accessories
C16032					
C16032	1E-120V Electronic 2E-277V Electronic 3E-347V Electronic	P-White BZ-Bronze	6000-Medium Beam 6050-Wide Beam 6010-Single Wall Wash 6020-Double Wall Wash 6030-Corner Wall Wash	LI-Low Iridescent H-Haze S-Straw WH-Wheat	Pendant Kits CR3UP-White CR3BZ-Bronze

COOPER LIGHTING

ADV965143



RIO HONDO COLLEGE LIBRARY/LRC

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9/20/2005, 10:11 AM

Wall Mounted Sconce

Type **F15**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

52w Line Voltage per EE
(2) 26w TT, 3500°K
Compact Fluorescent
Level 2 Terrace, Stair #4, Book Drop
SHAPER #M684-WP-SQ-CFL1/32-(120/277)-XX
"York", downlight only



Decorative Elevator Sconce

Type **F16**

(page 1 of 2)

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

27w Line Voltage per EE

(1) 27w T5HO, 3500°K

Compact Fluorescent

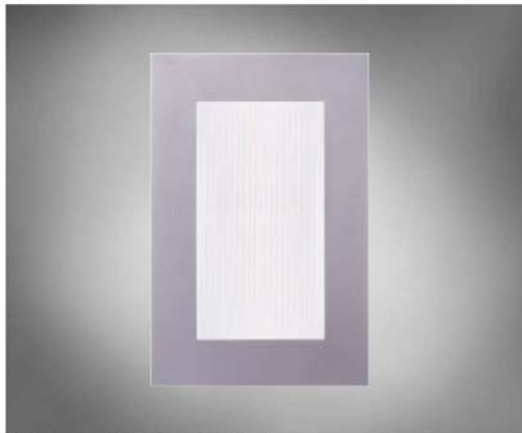
Elevator /Lobby

FOCAL POINT #FMEC-2-1T5HO-1C-(120/277)-S-WM-TS

"Metro" series, 2' length, single circuit, line voltage per E.E., electronic program start ballast, wall mounted, titanium silver finish.



METRO



This product is covered by the following U.S. Patent: Patent No. D491, 687.

FMEC

ADA compliant, low profile wall sconce with luminous acrylic diffuser.



1 Lamp BX18



1 Lamp T5HO

Features

- ADA compliant wall sconce that complements entire Metro family.
- 1', 2' and 4' nominal lengths provide endless design capabilities.
- Soft glow around luminaire creates perception of a floating luminous diffuser.
- Companion wall mount, linear suspended and pendant mount available.
- Metro makes an exceptional aesthetic statement in conference rooms, private or open offices, reception areas or other high-end applications.
- See linear & pendant sections for companion luminaires.

Construction

Three piece ballast channel and frame fabricated from 20 Ga. die-formed CRS. Standard sizes available in nominal 1', 2' and 4' lengths. Hinged door allows for easy lamp access.

1' unit weight: 5 lbs.
2' unit weight: 8 lbs.
4' unit weight: 16 lbs.

Optic

Reflector fabricated of low index, specular aluminum. Luminous diffuser constructed of optical grade acrylic with linear diffusing pattern. Acrylic diffuser for (1) 4.75W x 8.75'L, (2) 4.75W x 19.5'L and (4) 4.75W x 43.5'L.

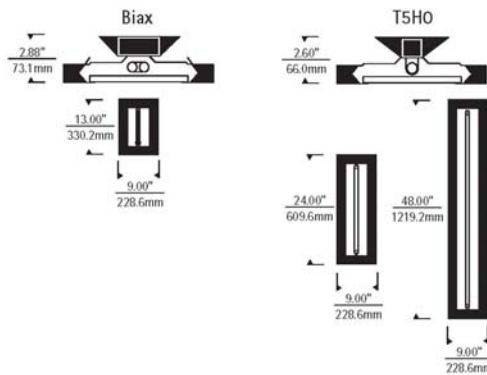
Electrical

All ballasts are thermally protected and have a Class "P" rating. UL and cUL listed.

Finish

Standard luminaire housing finished in Titanium Silver or Matte Satin White. Mounting bracket finished to match housing. Polyester powder coat applied over a 5-stage pre-treatment. All steel components are high reflectance white. Consult factory for additional finish options.

12002-1002



THE
ART OF
LIGHT™



Decorative Elevator Sconce

Type **F16**

(page 2 of 2)

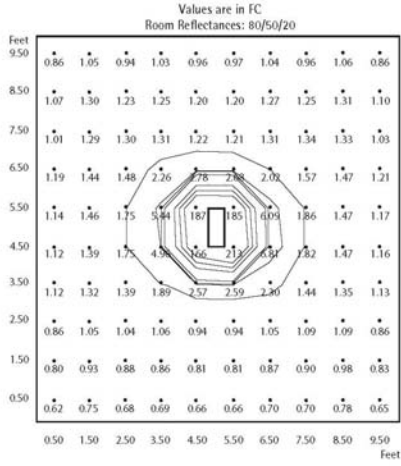
Fixture Type: _____
 Project Name: _____



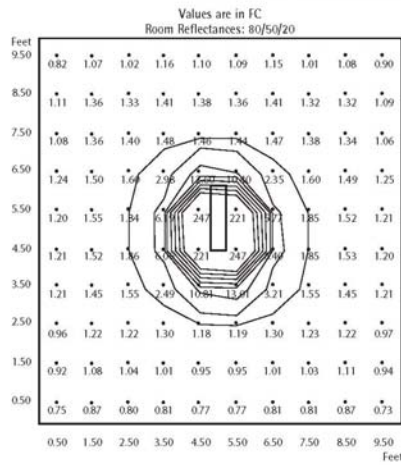
Order Information	
Luminaire Series	FMEC
Metro	FMEC
Profile	
1' Length	1
2' Length	2
4' Length	4
Lamping	
[1' Length Only] 1 Lamp BX18	1BX18
[2' or 4' Length Only] 1 Lamp TSHO	1TSHO
Circuit	1C
Single Circuit	1C
Voltage	
120 Volt	120
277 Volt	277
347 Volt	347
*(Consult factory for availability)	
Ballast	S
Electronic Program Start <10% THD	S
Mounting	WM
Wall Mount	WM
Factory Options	
HUR/GLR Fuse	FU
Include 3000K Lamp	L830
Include 3500K Lamp	L835
Include 4100K Lamp	L841
Finish	
Titanium Silver	TS
Matte Satin White	WH



Luminaire: 1' one lamp BX18 Recessed sconce with lamina acrylic diffuser and electronic program start ballast
 Filename: FMEC118181
 Catalog #: FMEC-1-0518-1C-120-5-WM-05
 Efficiency: 76.7%



Luminaire: 2' one lamp TSHO Recessed sconce with lamina acrylic diffuser and electronic program start ballast
 Filename: FMEC12418
 Catalog #: FMEC-2-1050-1C-120-5-WM-05
 Efficiency: 73.0%



Consult www.focalpointlights.com for additional photometric reports and technical information

FOCAL POINT LLC, 4201 South Pulaski Rd, Chicago, Illinois 60632 USA T 1.773.247.9494 F 1.773.247.8484 E-MAIL info@focalpointlights.com WEB SITE www.focalpointlights.com



Recessed Adjustable 11"Ø Uplight

Type **F17**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

39w Line Voltage per EE
(1) 39w CMH, 3000°K
Metal Halide
Lobby (Screens)
DESIGNPLAN #CAW-9-2W-4-SS-0-0-T-00
"Centaur" series, medium wide beam.

CAN/CAW ground recessed uplighter Adjustable optics

- Ceramic metal halide lamp
- UL listed wet label IP67 IK9
- Low copper alloy die cast aluminum body
- Electrophoretic dipcoated and polyester powder painted.
- Rotationally symmetrical aluminum reflector.
- Tilt range 0-25°**
- Stainless steel trim and screws
- Tempered glass low iron glass
- Silicon rubber gaskets
- Walkover, drive over to 11,000 lbs
- Two 1/2" entries, suitable for through wiring
- Integral 120V electronic ballast
- Supplied with lamp

Ground recessed uplighter, adjustable optics rotationally symmetrical narrow beam, ceramic MH

CAN-9-2W-4-SS-0-0-T-00

Lamp	Lampholder	Glass temp.*	Voltage	Beam angle	Tilt range	CRI	Color Temp.
39W T4 MH	G8.5	78°C	120V	19°	0-25°	81	3000K

* With an infrared filter (see accessories) the surface temperature of the glass is reduced to 74°C

For non skid lens change the "T" in catalog number to "U". The light distribution becomes more diffuse

Ground recessed uplighter, adjustable optics rotationally symmetrical medium wide beam, ceramic MH

CAW-9-2W-4-SS-0-0-T-00

Lamp	Lampholder	Glass temp.*	Voltage	Beam angle	Tilt range	CRI	Color Temp.
39W T4 MH	G8.5	78°C	120V	23°	0-25°	81	3000K

* With an infrared filter (see accessories) the surface temperature of the glass is reduced to 68°C

For non skid lens change the "T" in catalog number to "U". The light distribution becomes more diffuse

CWF ground recessed uplighter
Rotationally symmetrical wide beam

- Compact triple twin tube fluorescent lamp
- UL listed wet label IP67 IK9
- Low copper alloy die cast aluminum body
- Electrophoretic dipcoated and polyester powder painted.
- Rotationally symmetrical aluminum reflector.
- Stainless steel trim and screws
- Tempered glass low iron glass
- Silicon rubber gaskets
- Walkover, drive over to 11,000 lbs
- Two 1/2" entries, suitable for through wiring
- Integral universal voltage electronic ballast
- Supplied with lamp

Ground recessed uplighter, rotationally symmetrical wide beam, compact triple

CWF-8-H9-4-SS-0-0-T-00

Lamp	Lampholder	Glass temp.*	Voltage	Beam angle	CRI	Color Temp.
26W TTT	Gx24q-3	85°C	120-277	105°	82	3500K

* For non skid lens change the "T" in catalog number to "U". The light distribution becomes more diffuse

Change the "T" to "U" for slip resistant glass*
* The light distribution becomes more diffused

Stack Light

Type **F18**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

54w Line Voltage per EE

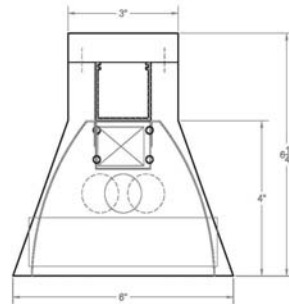
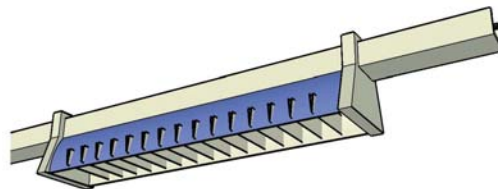
(1) 54w T5HO, 3500°K

Fluorescent

Stacks

REYK LIGHTING #SHL-1T5HO-A/B-E-L-C-S + #STA-C-F-C-2-(120V/277V)-X-M-D

Stack-mounted hanger light, electronic ballast, library stack black baffles, custom reflector, silver anodized hanger.



CONSTRUCTION

Power tray is constructed of high grade low copper aluminum extrusion (2" x 2") with stainless steel mounting hardware standard. CNC machine milled aluminum end plates and escutcheon plates. Wiring harness with optional digitally addressable lighting interface (DALI) prewired for simple installation. Circuits are through-wired with insulation-displacement couplings every 36" (1 or 2 circuits at each interval) for connection to the hanger light anywhere along the power tray.

Hanger Light is constructed of 20 gauge die-formed steel. Painted finish or anodized finish with CNC machine milled endcaps with accent finish. Louvers are low reflectance semi specular anodized black aluminum blades integrated into a parabolic housing with concealed snap-in retainers and safety cables for easy lamp and ballast access. Power whip is 36" in length for connection to couplings along power tray.

Lamps are 32watt T-8 fluorescent or 20watt T-5 or 54watt T5HO fluorescent. Lamp provided by others. Ballasts are universal voltage (120v - 277v) electronic rapid start ballast with Total Harmonic Distortion (THD) <10% with 'end of life' circuit protection. Fixtures are available with Lutron (TM) dimmable ballasts. Optional DALI connections are available for DALI ballasts.

Suspension is provided by adjustable stainless steel hardware and cables which lock in the tray height with Grip Lock cable hangers. Stem sets (3/8" diameter) are provided with standard lengths of 48" which can be cut to length in the field with custom aluminum 4-1/2" diameter canopy and self aligning swivel with 35 deg angle capacity for sloped ceiling conditions.

Hanger lights are energized through the CNC machine milled end caps which engage around the power tray and secured through captive hex-head hardware which can be attached, moved along the power tray to the optimal location, and secured in place.

Stacker I

STACKER POWER TRAY

[]	STA
[]	Powertray Length
4	48" (4')
6	72" (6')
8	96" (8')
12	144" (12')
C	Custom length per plans
[]	Suspension
C	Stainless Steel Cable
S	Stem Pendant
[]	Suspension Length
12	12' length
C	Custom length 12 to 48'
[]	Number of Circuits
1	Hanger Light Circuit A
2	Hanger Light Circuit A & B or A & EM
3	Hanger Light Circuit A & B and EM
[]	Voltage
120v	
277v	
240v	
[]	Color
S	Silver (standard)
B	Black
W	White
C	Custom Color
[]	Accessories
M	Motion Sensor
D	Daylight Sensor
DALI	DALI integrated wiring

STACKER HANGER LIGHT

[]	SHL
[]	Lamping
1T8	
2T8	
1T5	
2T5	
1T5HO	
2T5HO	
[]	Circuit Zone
A	Fixture pre-wired for circuit A
B	Fixture pre-wired for circuit B
EM	Fixture pre-wired for emergency circuit EM
[]	Ballast
E	Electronic
DE	Lutron Dimmable Eco-10 (10%)
DH	Lutron Dimmable Hi-lum (1%)
DALI	DALI Ballast
[]	Shielding
L	Library Stack Black Baffles (4' O.C.)
S	Standard Use Black Baffles (2' O.C.)
SS	Standard Use Silver Baffles (2' O.C.)
[]	Reflector Finish
S	Silver Anodized
B	Blue Anodized
W	Satin White
B	Satin Black
C	Custom Finish
[]	Hanger Finish
R	Raw Aluminum
S	Silver Anodized
B	Black Anodized

Reyk Lighting • 4530 Littlejohn Street Baldwin Park, CA 626.814.2381 • F626.962.6169



Strip Light with wireguard - 4'

Type **F19**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

64w Line Voltage per EE

(2) 32w T8, 3500°K

Fluorescent

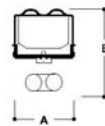
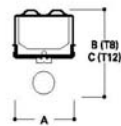
Computer Server, AV Resource Storage

METALUX #SN-232-HRS-(120/277)-EB81+ #WG/SN-4FT-(none/CCA-PFS/NPF)

"SN" series, integral electronic ballast, emergency ballast as required per Electrical Engineer, wireguard.
Cable suspend or surface mount as required.

COOPER LIGHTING - METALUX®

DIMENSIONS



NOMINAL LENGTH	A	B	C
18", 2', 3', 4', 6' and 8'	2-3/4" (70mm)	(T8) 3-5/8" (92mm)	(T12) 3-7/8" (90mm)
2', 4' (Biaxial)	2-3/4" (70mm)	3-1/8" (79mm)	

DESCRIPTION

The SN Series is a functional and multi-purpose narrow strip family that incorporates premium performance and construction durability. The performance and application versatility of this series can be increased by incorporating symmetrical or asymmetrical reflectors. The SN Series can be installed using various mounting methods and numerous options and accessories are available. The SN Series can be the illumination solution in commercial, industrial, institutional and retail applications. An excellent choice for storage/utility areas, coves, display cases, shops, task and general area lighting.



SNSERIES

18", 2', 3' or 4' Strip
1 or 2 Lamp

COMMERCIAL NARROW
STRIPLITE

ORDERING INFORMATION

SAMPLE NUMBER: SN-232-120V-EB81-U

Tandem	Number of Lamps ⁽¹⁾	Starting Type	Ballast Type ⁽¹⁾	Options	Packaging
Blank-2', 3' or 4' Length 4T-4' Length (Biaxial only) 6T-6' Length 8T-8' Length	1 or 2 Lamps (Not Included)	LTS-Low Trigger Start (20 Watt only) (120V only) HTS-High Trigger Start (20 Watt only) LRS-Low Rapid Start (3' or 4') (T12 only) (120V only) HRS-High Rapid Start (3' or 4') (T12 only)	Blank-Standard Magnetic Ballast LE3-T12 Magnetic Energy Saving LEOCB-T8 Magnetic Energy Saving EBB = T8 Electronic Instant Start No. of Ballast 1, 2 or 3 EBB+/PLUS = T8 Electronic Instant Start. High Ballast Factor >1.13. Total Harmonic Distortion < 20% No. of Ballast 1, 2 or 3 EBB = T8 Electronic Program Rapid Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 TEBB = T8 Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB5 = T5 Biax Electronic Instant Start. Total Harmonic Distortion < 20% No. of Ballast 1, 2 or 3 TEB5 = T5 Biax Electronic Instant Start. Total Harmonic Distortion < 10% No. of Ballast 1, 2 or 3 EB2 = T12 Electronic Rapid Start. No. of Ballast 1 or 2 DLS-Digital Lighting System Dimming (For complete details on generic or to specify manufacturer's ballast see pg. 291)	See Options Section	U-Unit Pack 6B-6 Bulk
SN-Series	Wattage (Length) 15-15W T12 (18") 20-20W T12 (24") 17-17W T8 (24") BX40-40W Biax (24") BX50-50W Biax (24") BX55-55W Biax (24") 30-30W T12 (36") 25-25W T8 (36") 40-40W T12 (48") 32-32W T8 (48")	Voltage ⁽²⁾ 120V-120 Volt 277V-277 Volt 347V-347 Volt UNV-Universal Voltage 120-277 ⁽²⁾			
		Options QL-Single Element Fuse GM-Double Element Fuse Emergency - for EM installed, see EM options table ⁽³⁾			

- Equipped with energy saving ballast/complies with federal energy efficiency standards
- Die formed channel
- End plate converts to channel aligner for continuous row mounting
- Pressure lock lampholders
- Baked enamel finish
- Easy wireway access/wireway cover removed without tools
- Numerous KOs for easy installation
- Also available in tandem 6' and 8' lengths
- UL/CUL Listed. Suitable for damp locations.

NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾Not available when specifying emergencies, voltage must be specific.
⁽³⁾2 lamps T8 only. ⁽⁴⁾Not available for 2' versions.
For complete product data, refer to the Fluorescent Specification binder. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

COOPER LIGHTING 271

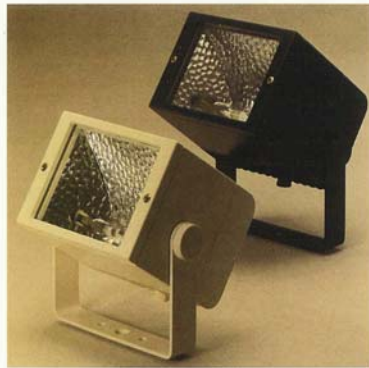


Floodlight

Type **F20**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

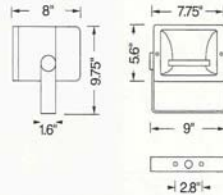
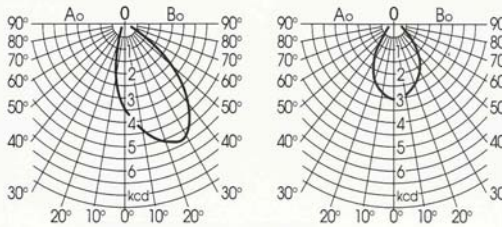
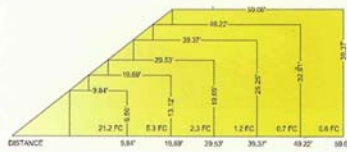
70w Line Voltage per EE
(1) 70w CMH, 3000°K
Metal Halide
Entry Signage
DESIGNPLAN #GIA-9-L5-B-99-0-(0/1)-T + #128-0-31-XX
"Gizmo" series, asymmetric beam, adjustable floodlight mount, clear temp. glass finish.



design: willy meyer + sohm

- Die cast aluminum housing
- Uses double ended Master Color Lamp
- listed wet label IP 65
- Electronic ballast
- Lamp supplied with fixture

Note: Fixture is wired to remote weatherproof box (Box by others)



gizmo asymmetric beam

ORDERING CHART

Series	Prod ID	Lamp	Wattage	Body	Finish	Grill	Ballast	Lens	Options
	XXX	X	XX	X	XX	X	X	X	XX
Gizmo Asymmetric	GIA	9-HID	LS-70W Master Color Double Ended	8-Adjustable floodlight mount	78 - Textured Black EW - Euro White 99 - Custom	0 - None	0-120V Elect. 1-277V Elect.	T-Clear Temp. glass	0 - None

designplan

Recessed Combo Light (Lobby)

Type **F21**

Electrical: 78W Line Voltage per EE
 Lamp: (2) 39w PAR 30 CMH, 3000°K
 Source: Metal Halide
 Location: Lobby
 Specification: **RSA #CO320MH-TR**
 Notes: "Combo Classic", trimless

COMBOLIGHT® COMBO CLASSIC RECESSED

LAMP GROUP 2 - CONFIGURATION "C"
 TWO (2) Metal Halide lamp cells - TWO (2) Fluorescent lamp cells
 New Construction Recessed Housing - Trim or Trimless

Catalog # _____
 Type _____
 Project _____

DESCRIPTION:
 An adjustable recessed fixture suitable for multiple downlighting applications with one point of electrical entry. Mixes the use of metal halide lamps with fluorescent lamps. Powder coat finish on housing & lamp assembly.

CONSTRUCTION:
 Housing, Plaster Frame & Trim Assembly: 18 gauge CRS. J-Box Assembly: 16 gauge CRS (galvanized). Fixture is offered with a .75" ceiling trim or as a trimless fixture. Can accommodate 0.50" to 1.00" ceiling thickness.

LAMP ASSEMBLY:
 Two Metal Halide lamp cells with two fluorescent lamp cells. Can accept up to two optical accessories. 380° x 45° locking lamp adjustment. Provides 45° visual cut-off.

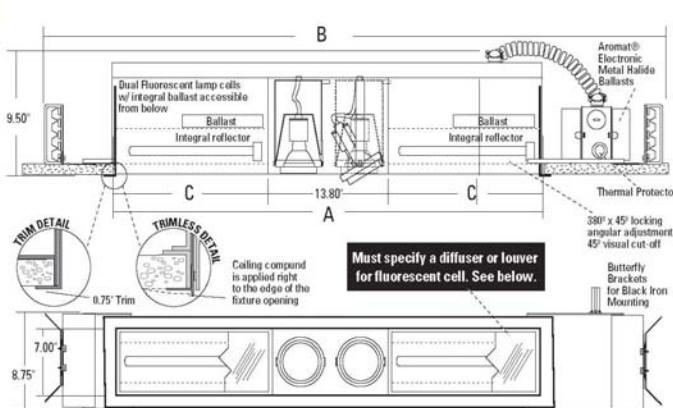
SYSTEM PROTECTION:
 Thermal protection provided to guard against overheating, and misuse of insulation over and around fixture. Vent holes in housing provide cooler operation.

ELECTRICAL:
 Fixture is two circuit.
 Circuit 1: Integral Aromat® electronic metal halide ballasts for metal halide lamps.

Circuit 2: Integral electronic ballasts for fluorescent lamps.
 Lutron® dimming ballasts available upon request.

Junction box is UL listed for through branch wiring, for 8 #12, 90° C supply conductors or 60° C for end of run (access above ceiling not required).

Made in the USA.



Must specify a diffuser or louver for fluorescent cell. See below.

Custom configurations are available with Combo Classic fixtures. Also available with T8 fluorescent lamps. Consult RSA for details.

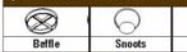


Fluorescent >>	BX40	BX50	PLL80	PLT26	PLT32	PLT42	T528	T535	T5HO39	T5HO54
Lamp Group 2	A 65.18"	65.18"	65.18"	30.18"	31.18"	33.18"	112.18"	136.18"	88.18"	112.18"
Metal Halide	B 81.98"	81.98"	81.98"	46.98"	47.98"	49.98"	128.98"	152.98"	104.48"	128.98"
	C 25.50"	25.50"	25.50"	8.00"	8.50"	9.50"	49.00"	61.00"	37.00"	49.00"

ORDERING EXAMPLE: CR220M39 C BX40 BK WH 120

= Two PAR20 Metal Halide 39W lamps with Two BIAx® 40W Fluorescent • Black Interior • White Trim • 120 volts

Optional Accessories - See RSA Combo Classic accessory page for details.



Fluorescent Diffusers and Louvers - Please specify

- TWD - Textured White Diffuser
- CB1 - 2" Parabolic Louver
- MPD - Corical Prism Diffuser
- CB2 - 1" Parabolic Louver

Item # / Lamp Type	Configuration	Fluorescent Lamp Cell	Interior Finish	Trim Finish	Voltage
Lamp CR220M39 - PAR20MH 39W	C - Two Metal Halide lamp cells with Two Fluorescent lamp cells	BX40 - 40W BIAx®	BK - Black	BK - Black	120 - 120 Volts
Group 2 CR230M39 - PAR30MH 39W		BX50 - 50W BIAx®	WH - White	WH - White	277 - 277 Volts
Metal Halide CR230M70 - PAR30MH 70W		PLL80 - 80W PL-L	S - Silver	S - Silver	
		PLT26 - 26W PL-T	PT - Custom	PT - Custom	
		PLT32 - 32W PL-T		TR - Trimless	
		PLT42 - 42W PL-T			
		T528 - 28W T5			
		T535 - 35W T5			
		T5HO39 - 39W T5HO			
		T5HO54 - 54W T5HO			

T8 lamps also available

SPECIFY - _____ C _____

RSA LIGHTING®

RSA LIGHTING LLC 9660 - 9700 TOPANGA CANYON BLVD. CHATSWORTH CA. 91311
 TOLL FREE: 800-356-3030 • 818-349-3030 • FAX: 818-349-3031 • www.rsalighting.com
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Recessed Combo Light (Exhibit)

Type **F22**

Electrical:
Lamp:
Source:
Location:
Specification:
Notes:

54w Line Voltage per EE
(1) 14w T5, 3500°K + (2) 20w T4 CMH, 3000°K
Fluorescent, Metal Halide
Lobby (Exhibit Area)
RSA #CRT420MH-T514WATT-T420MH TR
"Combo Classic", trimless

COMBOLIGHT® COMBO CLASSIC RECESSED
LAMP GROUP 2 - CONFIGURATION "C"
TWO (2) Metal Halide lamp cells - TWO (2) Fluorescent lamp cells
New Construction Recessed Housing - Trim or Trimless

Catalog # _____
Type _____
Project _____

DESCRIPTION:

An adjustable recessed fixture suitable for multiple downlighting applications with one point of electrical entry. Mixes the use of metal halide lamps with fluorescent lamps. Powder coat finish on housing & lamp assembly.

CONSTRUCTION:

Housing, Plaster Frame & Trim Assembly, 18 gauge CRS. J-Box Assembly, 16 gauge CRS (galvanized). Fixture is offered with a .75" ceiling trim or as a trimless fixture. Can accommodate 0.50" to 1.00" ceiling thickness.

LAMP ASSEMBLY:

Two Metal Halide lamp cells with two fluorescent lamp cells. Can accept up to two optical accessories. 380° x 45° locking lamp adjustment. Provides 45° visual cut-off.

SYSTEM PROTECTION:

Thermal protection provided to guard against overheating, and misuse of insulation over and around fixture. Vent holes in housing provide cooler operation.

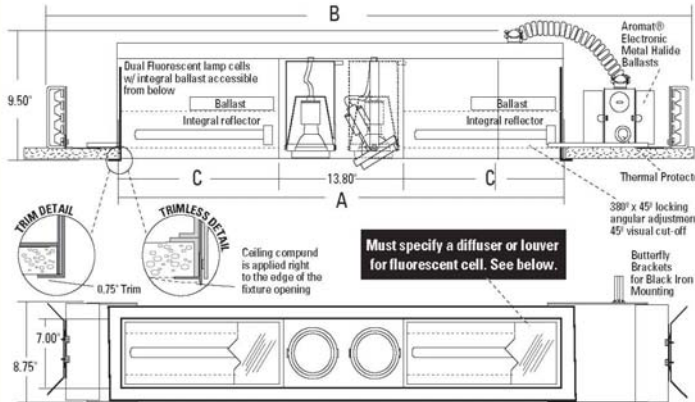
ELECTRICAL:

Fixture is two circuit.
Circuit 1: Integral Aromat® electronic metal halide ballasts for metal halide lamps.

Circuit 2: Integral electronic ballasts for fluorescent lamps.
Lutron® dimming ballasts available upon request.

Junction box is UL listed for through branch wiring, for 8 #12, 90°C supply conductors or 60°C for end of run (access above ceiling not required).

Made in the USA.



Custom configurations are available with Combo Classic fixtures. Also available with T8 fluorescent lamps. Consult RSA for details.



Fluorescent >>	BX40	BX50	PLL80	PLT26	PLT32	PLT42	T528	T535	T5HO39	T5HO54
Lamp Group 2	A 65.18"	65.18"	65.18"	30.18"	31.18"	33.18"	112.18"	136.18"	88.18"	112.18"
Metal Halide	B 81.98"	81.98"	81.98"	46.98"	47.98"	49.98"	128.98"	152.98"	104.48"	128.98"
	C 25.50"	25.50"	25.50"	8.00"	8.50"	9.50"	49.00"	61.00"	37.00"	49.00"

ORDERING EXAMPLE: CR220M39 C BX40 BK WH 120

= Two PAR20 Metal Halide 39W lamps with Two BIAx® 40W Fluorescent • Black Interior • White Trim • 120 volts

Optional Accessories - See RSA Combo Classic accessory page for details.



Fluorescent Diffusers and Louvers - Please specify

- TWD - Textured White Diffuser
- CBI - 2" Parabolic Louver
- MPD - Corical Prism Diffuser
- CB2 - 1" Parabolic Louver

Item # / Lamp Type	Configuration	Fluorescent Lamp Cell	Interior Finish	Trim Finish	Voltage
Lamp Group 2	C - Two Metal Halide lamp cells with Two Fluorescent lamp cells	BX40 - 40W BIAx®	BK - Black	BK - Black	120 - 120 Volts
Metal Halide		BX50 - 50W BIAx®	WH - White	WH - White	277 - 277 Volts
		PLL80 - 80W PL-L	S - Silver	S - Silver	
		PLT26 - 26W PL-T	PT - Custom	PT - Custom	
		PLT32 - 32W PL-T		TR - Trimless	
		PLT42 - 42W PL-T			
		T528 - 28W T5			
		T535 - 35W T5			
		T5HO39 - 39W T5HO			
		T5HO54 - 54W T5HO			

T8 lamps also available

SPECIFY - _____ C _____

RSA LIGHTING®

RSA LIGHTING LLC 9660 - 9700 TOPANGA CANYON BLVD. CHATSWORTH CA. 91311
TOLL FREE: 800-356-3030 • 818-349-3030 • FAX: 818-349-3031 • www.rsalighting.com
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Recessed 2'x2' Square

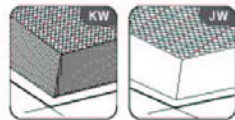
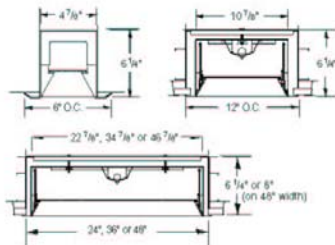
Type **F23**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

34w Line Voltage per EE
(2) 17w T8, 3500°K
Fluorescent
Reference Stacks
PRUDENTIAL #P-9222-2T8-WA-JW-(120/277)-(X38)-(EMH)
"P-9200" series, 2' x 2', white acrylic diffuser, smooth frame

Type
Job Name
Catalog Number

Recessed **P-9200**



ordering

series	lamp rows	shielding	frame style/color	voltage	ceiling system	options	
P-9204	6" x 4"	1T8	PRA* prismatic acrylic lens	KW striated frame white or	120	X1* T-bar (exposed)	PAF
P-9214	1' x 4"	2T8 3T8 2EX_W*	P19A prismatic acrylic lens, pattern 19	KB black	277	X3B hard ceiling (swimrad mounting brackets)	EML*
P-9222	2' x 2'	2T8 4T8 2EX_W*	WA white acrylic diffuser	JW* smooth frame white or	347	X4B hard ceiling ("C" channel)	EMH*
P-9224	2' x 4'	2T8 3T8 4T8 4EX_W*	PWS minicube louver-silver (1/2" x 1/2" x 1/2") PW2S minicube louver-silver (1 1/2" x 1 1/2" x 1")	JB black		X5B T-bar (concealed)	DM RSE
P-9233	3' x 3'	4T8 6T8	*standard	*standard		X6B T-bar (concealed)	10THD B_
P-9244	4' x 4'	4T8 6T8 8T8	*standard	*standard		*standard	MR FH

*max. specify 40w power 30w

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 example

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 PAF: painted after fabrication; EML: emergency battery (T8=600 lumens; EX=600-700); EMH: emergency battery (T8=1200; EX=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); MR: master remote with 11' whip; FH: fixture fusing (slow blow)

Applications Open or small offices, corridors, retail, healthcare, schools.

Features A 2"-deep recessed skylight troffer, with a 6 1/4"-deep body. It features either prismatic or white acrylic lenses or minicube louvers. The fixture is available in a wide variety of sizes, with either a smooth or striated doorframe, finished in either white or black. Door frame hinges with torsion springs.

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 made of die-formed, 20-gauge steel. Doorframe is made of extruded aluminum.

Prudential Lighting phone 213.746.0360 fax 213.741.8590 www.prulite.com

0606



Recessed 7"Ø Downlight (Concrete)

Type **F24**

Electrical:
Lamp:
Source:
Location:
Specification:
Notes:

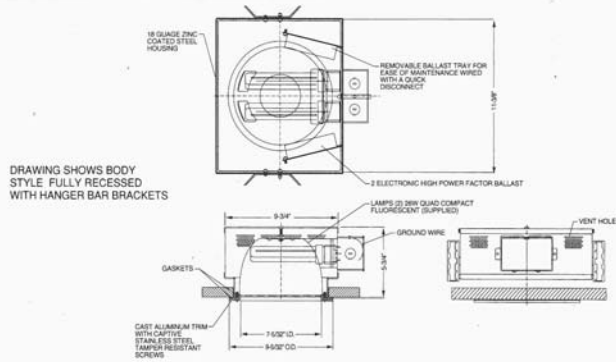
32w Line Voltage per EE
(1) 32w TT, 3500°K
Fluorescent
Canopy
DESIGN PLAN # RDL-8-H3-V-XX-0-C-C-(1)
"RDL" series, fully recessed, fluorescent downlight, with clear lens



design plan lighting

RDL/RHL

- 18GA Zinc coated steel housing
- Adjustable for 1/2" to 1 1/2" thick ceiling
- Concrete pour housing available
- Low copper alloy cast trim ring
- 3/16" thick UV stabilized polycarbonate lens
- Electronic ballasts for -25°F cold weather start for fluorescent, HPF magnetic ballast for HID
- Zero iridescence reflector
- Triple gasketed
- Trim ring is mechanically attached to body
- listed wet label IP 55
- Available as matching wall wash



ORDERING CHART

SERIES	Lamp	Wattage	Body	Ring Finish	Grill	Ballast	Lens	Options
XX	XX	XX	XX	XX	XX	XX	XX	XX
DOWNLIGHTS	8 - Fluorescent	FOR RDL/RWL	4 - Fully Recessed with Hanger Bar Brackets	00 - Semi Gloss Black	8 - None	C - 120V/277V Elect.	C - Clear	0 - None
RDL	9 - HID (RHL only)	J3 - 2x13W QUAD 2700K	4 - Fully Recessed for Concrete Pour	01 - Semi Gloss White		2 - 347V Elect.	X - Opal	1 - Emergency Ballast
RHL		J1 - 2x13W QUAD 3500K		02 - Black Suede		9 - 120V HPF MAG	P - Clear Prismatic	3 - 2 Circuit Wiring
WALL WASH		G7 - 2x18W QUAD 2700K		03 - Grey		A - 277V HPF MAG	T - Tempered Glass	8 - Non Std. Screws
RWL		G2 - 2x26W QUAD 2700K		04 - Bronze			F - Linear Prism Overlay	A - DC Bayonet Socket (HID only)
RWH		E8 - 2x26W QUAD 3500K		05 - Hammered Bronze				D - Black Oxide Screws (HID only)
		H2 - 1x32W TRIPLE 2700K		07 - Hammered Copper				F - Quartz Restrike (HID only)
		H3 - 1x32W TRIPLE 3500K		10 - Matte Silver				S - Spanner Head Screws
		FOR RHL/RWH		17 - Granite				
		H4 - 1x42W TRIPLE		47 - Weathered Bronze				
		4 PIN 27K		48 - Weathered Moss				
		H5 - 1x42W TRIPLE		49 - Good Earth				
		4 PIN 35K		81 - Dry				
		10 - 2x32W TRIPLE		80 - Weathered Copper				
		4 PIN 27K		81 - Weathered Iron				
		J8 - 2x32W TRIPLE		82 - Hammered Gummatal				
		4 PIN 35K		83 - Metallic Silver				
		L3 - 70W MH ED17 MED CLEAR		84 - Aluminum				
		B4 - 70W MH ED17 MED COATED		85 - Terracotta				
		L6 - 70W HPS ED17 MED CLEAR		86 - Metallic Gold				
		B6 - 70W HPS ED17 MED COATED		87 - Chrome				
				88 - Quick Silver				
				89 - Zinc Grey				
				DM - BLK Marine Finish				
				TM - WH Marine Finish				
				HB - Hand Painted Weathered Bronze				
				HC - Hand Painted Weathered Copper				
				99 - Custom				

To order choose one number from each column and two numbers from options column. Use 00 for options to signify none required.

NOTE:
HID is available in T only

NOTE:
C and 2 are for fluorescent
9 and A are for HID

designplan

73 Fisher Avenue
Fairfield, NJ 08005

Tel: (609) 886-7112
Fax: (609) 886-7042

2

Wall Mounted Sign Light - 4'

Type **F25**

Electrical:
Source:
Location
Specification:
Notes:

32w Line Voltage per EE
Fluorescent
Level 2 Corridor (Bookshelves)
COLE LIGHTING# SL4'
"SL" series.

(page 1 of 2)

COLE LIGHTING

Commercial Applications Signlighter



SL SERIES

The Signlighter provides illumination for vertical surfaces with close mounting requirements. The unique fixture design provides greater lumen output as the illuminated surface becomes farther from the fixture, providing even illumination for signage, stack lighting, or wallwashing applications. Mounting arms may be customized as required. The remote ballast allows a minimal fixture profile. The Signlighter is suitable for wet locations when aimed in a downward direction.

The Signlighter length may be varied to meet the job requirements.



End mounting brackets may be modified to suit unique conditions.



Many applications suit the Signlighter's versatile capabilities.



C. W. Cole & Company, Inc.
2560 N. Rosemead Boulevard
South El Monte, CA 91733-1593
Fax (626) 443-9253
Tel. (626) 443-2473
info@colelighting.com
www.colelighting.com



COLE LIGHTING

Commercial Applications Signlighter

SL SERIES

Specifications

Construction

• Fixture housing is extruded aluminum; maximum continuous length is 20'-0" • Finish is metallic aluminum polyester coating. Other finishes are available. • Lens is clear acrylic with linear prisms • Reflector is adjustable for vertical light distribution • Suitable for wet locations with lamp above lens.

Electrical

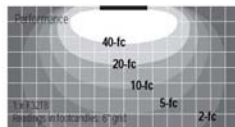
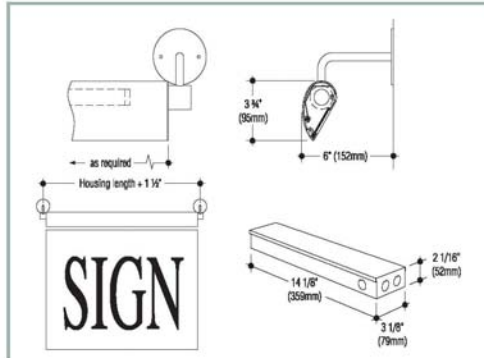
• Fixture is wired for T8 rapid-start or T8 or T5 high output fluorescent lamp(s), available in various lengths, as required • Remote ballast is standard electronic 120V (277V optional). Connecting flexible conduit not included.

Mounting

- Brackets mount with two screws (not included).
- Left bracket to be mounted over conduit flush with wall, unless otherwise specified.
- Remote ballast to be within 18" of lamp.

How to Specify

1. Select catalog number and add length required.
2. Add suffix(es) for desired options.



The isolux curves illustrated show the footcandle distribution for a Signlighter with a F32T8 rapid-start fluorescent lamp. The conversion chart provides the footcandles for T5 and T8 high output fluorescent lamps. The grid is 6". To calculate the footcandles for each iso curve for the high output lamps, use the multipliers in the chart. The lamp lengths available for each type of lamp are not necessarily consistent. For longer lengths, use the centerline values until nearing the ends. Adjustment of the reflector will change the values indicated. IES format photometric files are available.

Lamp Type	Lumens/foot	Multiplier
T8 Rapid Start fluor.	725	1.00
T8 High Output fluor.	1020	1.41
T5 High Output fluor.	1210	1.67

Catalog Number

Lamp	SL-(Housing length)
17W, 25W, 32W, 40W, or 59W T8 fluorescent	SL-(Housing length)
44W, 55W, 65W, or 86W T8 high output fluorescent	SL-(Housing length)-T8HO
24W, 39W, or 54W T5 high output fluorescent	SL-(Housing length)-T5HO

- Notes: 1. Housing length must be at least 3 1/2" more than the nominal lamp length.
Example: SL-39 1/2" is minimum for 36" F25T8 lamp.
2. Maximum continuous housing length is 20'-0" (6100mm)

Options

Alternate Arms: Provide detail. To specify, add suffix -ARM.

Alternate Painted Finishes:

Black, add suffix -BLK.

Medium bronze, add suffix -MBZ.

White, add suffix -WHT.

Other color, add suffix -SP/ (color).

Ballast: 277V ballast. To specify, add suffix -277.

Brushed Natural Finish: Clear anodized. To specify, add suffix -BNF.

Weatherproof: Only with lamp above lens. To specify, add suffix -W.



C. W. Cole & Company, Inc.
2560 N. Rosemead Boulevard
South El Monte, CA 91733-1593

Fax (626) 443-9253
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www.colelighting.com

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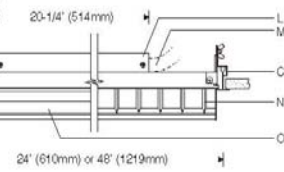
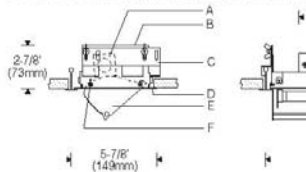
Recessed Adjustable 1'-4" Wallwash Troffer

Type **F26**

Electrical:	28w	Line Voltage per EE
Lamp:	(1) 28w T5, 3500°K	
Source:	Fluorescent	
Location:	Lobby	
Specification:	ELLIPTIPAR# F210 - T128 - L - 02 - 1 / 2 - XX - 0	
Notes:	Recessed in grid ceiling, semi-gloss white reflector, end plates and trim	

Lighting the Wall Small semi-recessed adjustable T5 Fluorescent **Style 210**

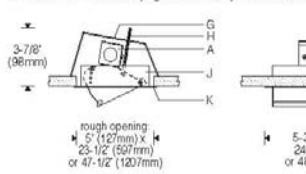
L Mount 1.8 Scale (Lowest reflector position shown)



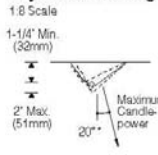
Ceiling Compatibility



T Mount 1.8 Scale (Highest reflector position shown)



Adjustable Aiming



* Factory setting. Field adjustable to 10°, 15°, 20° and 25° prior to installation.

Specifications

A Aluminum ballast compartment with conduit entry	D Aluminum support trim, 9/16" (14mm) wide	H Cinching screws	M Conduit (by others)
B Aluminum hanger plates and end trim	E Contoured aluminum end plates	J Aluminum trim frame	N Optional snap-in specular parabolic cross baffle
C Adjustable hanger/hold down clamps	F Reflector aiming screws	K Continuous flange, 1/2" (13mm) wide	O Specular extruded aluminum reflector
	G Toggle brackets	L Removable aluminum ballast/splice cover	

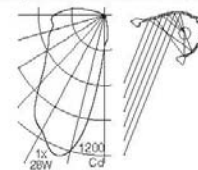
Features

- Unequal low energy wall lighting from 2' or 4' T5 lamp
- Low profile semi-recessed design - evenly lights entire wall, conceals reflector aperture from normal view
- Adjustable - tailor performance to wall height and setback
- Compact - ceiling opening less than 6" wide
- Available for lay-in grid or non-accessible ceilings



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 housing, end plates and trim.
Painted surfaces - 6 stage pretreatment and electrostatically applied thermcoat polyester powder coating for stable, long lasting and corrosion resistant finish.
Reflector - extruded high purity aluminum with clear anodized specular finish. All luminaire hardware - stainless steel.
All mounting hardware - zinc or cadmium plated.

Electrical:

Use 90°C wire for supply connections.
Integral electronic HFF thermally protected class P ballast. Ballast compartment includes one 7/8" diameter entry. Cover is removable for access to splices.
Optional electronic dimming ballast dims to 1% of full light output. Compatible dimmer switch is required (by others). Consult local sales representative for specifications.
Master/satellite combination is available (Configuration 3, see ordering information). Master supplied with 2-lamp ballast. Satellite supplied with 10' (3m) leads (conduit by others).
For complete ballast specifications, see Accessories Section.
REV. 11/02

Mounting:

L mount - Compatible with most lay-in grid ceiling systems. Requires T-bar supports 24" (610mm) or 48" (1219mm) on center. Finished trim on long sides can support ceiling tile or can rest atop or abut the grid.
Two adjustable hanger/hold down clamps are provided. Four 1/4" holes are provided for supplemental wire or chain supports (by others) as may be required by local codes. Units can be mounted in adjacent tiles.
T mount - Luminaire installs from below finished ceiling. Supplied with two (2 units) or three (4 units) toggle brackets which expand above ceiling and cinch down with screws from below. Accepts ceiling materials up to 1" (25mm) thick. Continuous 1/2" (13mm) wide flange conceals rough opening. Reflector may be field-adjusted to one of four preset aiming positions. Reflector position is secured with two screws.
Standard:
UL listed or CSA certified.



fox design architectural lighting

Undercabinet Light - 2'

Type **F27-2**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

28w Line Voltage per EE
(1) 28w T5, 3500°K
Fluorescent
Under Cabinet
METALUX # CL-128T5-EB-120V
"CL" series.

METALUX®

DESCRIPTION

The Metalux Thin Profile Undercabinet fixture provides effective task and enhancement lighting solutions for any decor. This specification grade fluorescent undercabinet series incorporates the latest Energy Efficient Technology, T5 fluorescent lamps and electronic ballasts, to efficiently improve the appearance and productivity of the illuminated environment.

APPLICATION

The unique low profile design of the Metalux undercabinet fixture conforms to various applications such as kitchens, offices, study areas, displays, computer work centers and practically any undercounter installation where an inconspicuous light source is required.

SPECIFICATION FEATURES

A -- Construction

Nominal 1" deep, heavy gauge cold rolled steel housing construction. Housing features rounded corners and no exposed fasteners. Keyhole mounting slots are located on top of housing for ease of installation. KO's for continuous row mounting. Housing available with solid metal front option.

B -- Electrical*

Ballast are CBM/ETL Class "P" and positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

C -- Finish

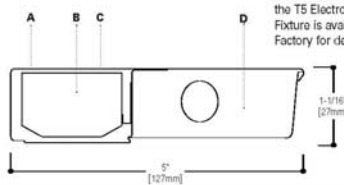
Painted after fabrication. Electrostatically applied baked white polyester powder enamel finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

D -- Frame/Shielding

100% virgin acrylic, linear ribbed diffuser with 50% DR additive. Diffuser is non-yellowing, light stabilized for excellent light transmission. Diffuser can be easily removed.

E -- Warranty

A Lifetime Limited Warranty for the T5 Electronic Ballasted Fixture is available. Consult Factory for details.



Catalog #	Type
Project	
Comments	
Prepared by	Date

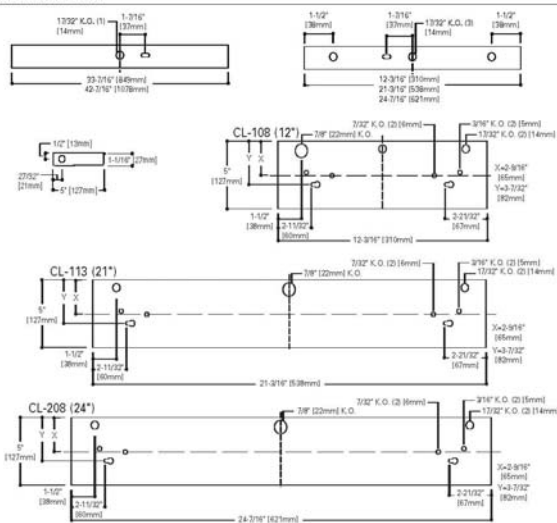


- CL108 (12")
- 113 (21")
- 208 (24")
- 108113 (33")
- 213 (42")

T5

1 OR 2 LAMP
SPECIFICATION GRADE
Low Profile
Undercabinet Series

MOUNTING DATA



COOPER LIGHTING

ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
 108 T5 (9)
 113 T5 (14)
 108113 T5 (23)
 208 T5 (19)
 213 T5 (27)

*Reference the lampholder data in the Technical Section for specific lampholder requirements.

ADF020683
(Supersedes ADF991820)



Undercabinet Light - 4'

Type **F27-4**

Electrical:
Lamp:
Source:
Location
Specification:
Notes:

14w Line Voltage per EE
(1) 14w T5, 3500°K
Fluorescent
Under Cabinet
METALUX # CL-114T5-EB-120V
"CL" series.

METALUX®

DESCRIPTION

The Metalux Thin Profile Undercabinet fixture provides effective task and enhancement lighting solutions for any decor. This specification grade fluorescent undercabinet series incorporates the latest Energy Efficient Technology, T5 fluorescent lamps and electronic ballasts, to efficiently improve the appearance and productivity of the illuminated environment.

APPLICATION

The unique low profile design of the Metalux undercabinet fixture conforms to various applications such as kitchens, offices, study areas, displays, computer work centers and practically any undercounter installation where an inconspicuous light source is required.

SPECIFICATION FEATURES

A--Construction

Nominal 1" deep, heavy gauge cold rolled steel housing construction. Housing features rounded corners and no exposed fasteners. Keyhole mounting slots are located on top of housing for ease of installation. KO's for continuous row mounting. Housing available with solid metal front option.

B--Electrical*

Ballast are CBM/ETL Class "P" and positively secured by mounting bolts. Pressure lock lampholders. UL/CUL listed. Suitable for damp locations.

C--Finish

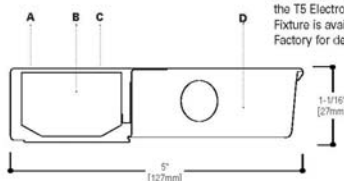
Painted after fabrication. Electrostatically applied baked white polyester powder enamel finish. Multistage cleaning cycle, iron phosphate coating with rust inhibitor. Conveyorized application and baking timing accurately controlled at an elevated temperature.

D--Frame/Shielding

100% virgin acrylic, linear ribbed diffuser with 50% DR additive. Diffuser is non-yellowing, light stabilized for excellent light transmission. Diffuser can be easily removed.

E--Warranty

A Lifetime Limited Warranty for the T5 Electronic Ballasted Fixture is available. Consult Factory for details.



CL108 (12")
113 (21")
208 (24")
108113 (33")
213 (42")

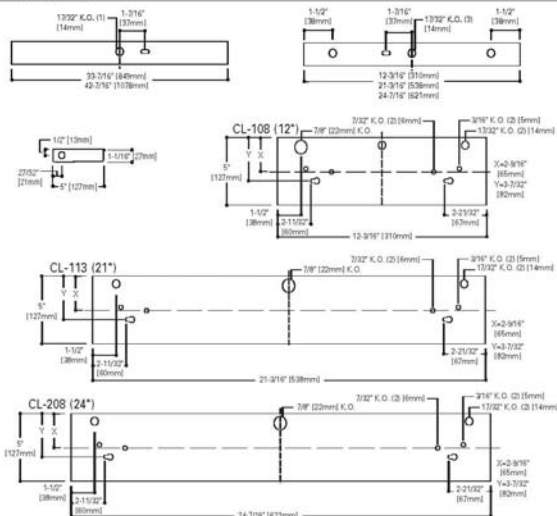
T5

1 OR 2 LAMP

SPECIFICATION GRADE

Low Profile Undercabinet Series

MOUNTING DATA



COOPER LIGHTING

ENERGY DATA

Input Watts:
EB Ballast & STD Lamps
108 TS (9)
113 TS (14)
208 TS (23)
208 TS (19)
213 TS (27)

*Reference the lampballast data in the Technical Section for specific lampballast requirements.

ADF020683
(Supersedes ADF991820)



fox design
architectural lighting

Cove Uplight

Type **F28**

Electrical:
Lamp:
Source:
Location

28w Line Voltage per EE
(1) 28w T5, 3500°K
Fluorescent
Reference Stacks

(page 1 of 2)

Specification:
Notes:

BIRCHWOOD #ASH-T5-(1/2)-(EM)-see plans for run length.
"Ashley"

PROJECT: _____
LOCATION: _____
TYPE: _____
CONTACT: _____



T5 / T5HO

DESCRIPTION

ASHLEY is a luminaire system designed to be used in cove and soffit applications. The indirect design of the fixture eliminates shadows on the wall which are normally caused by sockets at the end of each fixture. The specular-hammer tone reflector throws even, direct light out into the space, while the saw-tooth deflector allows maximum light output into the cove without unsightly hotspots normally seen near the middle of the lamp.

CONSTRUCTION

- Body is Formed Heavy Gauge Aluminum
- Back Reflector is Specular-Hammer tone
- Front Reflector is High Reflectivity White

LAMP TYPES

- T5 Fluorescent
- T5 HO (High Output) Fluorescent
- Other lamp types may be available (contact factory)

BALLASTS

- Standard tandem-wired, electronic, built-in ballasts are available in 120 or 277 volts
- Dimming ballast options available (upon engineer approval for Hi-Lume dimming ballast use)
- Emergency ballast option available

MOUNTING

- ASHLEY easily surface mounts through holes in the bottom of each fixture

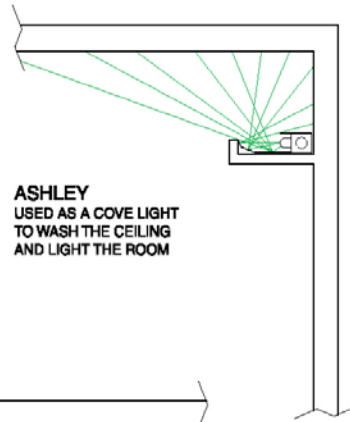
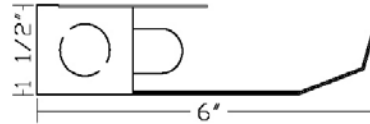
FINISHES

- Fixture bodies are finished in a durable white powdercoat
- Custom finishes are also available

LENGTHS

- ASHLEY luminaires come in nominal 2', 3' and 4' lengths. Multiple units are wired end-to-end in the field for long runs.

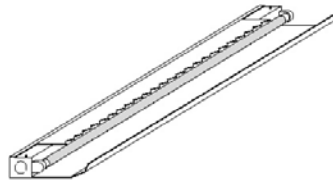
Nominal	Actual
2	22 7/16"
3	34 1/4"
4	46"



ASHLEY
USED AS A COVE LIGHT
TO WASH THE CEILING
AND LIGHT THE ROOM



ASHLEY
USED IN A SOFFIT
TO WASH THE WALL



REV 5/02

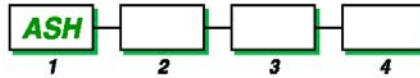
BIRCHWOOD
LIGHTING, INC.
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www.BirchwoodLighting.com
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Because lighting technology is changing so rapidly, Birchwood Lighting, Inc. reserves the right to change or withdraw specifications without prior notice.



How to Specify

PROJECT: _____
 LOCATION: _____
 TYPE: _____
 CONTACT: _____

ASHLEY
 SHADOW-FREE COVE LIGHTING SYSTEM



1. FIXTURE TYPE

ASH = ASHLEY Shadow-Free Cove Lighting System

2. LAMP TYPE

TS = Standard T5
 TSHO = T5 High Output
 2TSHO = Double T5HO
 CF = High Lumen Compact Fluorescent
 T8 = Standard T8

3. BALLAST / VOLTAGE

1 = 120 volt
 2 = 277 volt
 1D = 120 volt - dimming
 2D = 277 volt - dimming
 EM = Emergency ballast
 Birchwood Lighting supplies electronic ballasts by reputable manufacturers in all ASHLEY luminaires.
 If dimming option is chosen, please specify dimming requirements.

4. NOMINAL LENGTH

See individual catalog sheets for exact sizes or specify overall run length.
 2 3 4



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