

Heavy-Duty Parabolic Industrials

PV

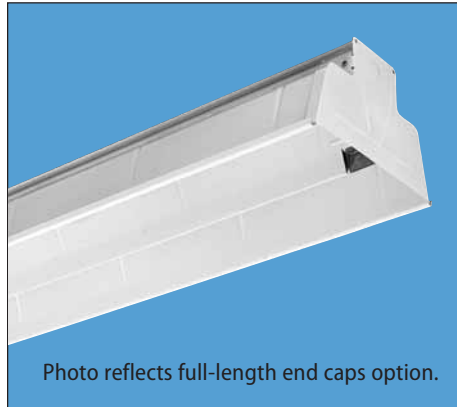


Photo reflects full-length end caps option.

Intended Use

For mounting heights up to 25' requiring low to high light levels and excellent glare control. Ideal for manufacturing assembly lines, inspection areas and warehousing.

Features

Heavy-duty formed channel with parabolic, deep die-embossed reflector with high-gloss baked enamel finish. Porcelain finish optional.

Center "V" provides 30° crosswise shielding to minimize glare. 20% uplift standard.

Full-depth endplates required. Order separately, one pair per fixture or row.

Reflector aligners and channel connector furnished for continuous-row mounting.

Spring-loaded sockets securely hold lamps in rough-duty applications.

Ballast – Thermally protected, resetting, Class P, HPF, non-PCB, UL Listed, CSA Certified ballast is standard. Sound rating depends on lamp/ballast combination.

Wiring & Electrical – AWM, TFN or THHN wire used throughout, rated for required temperatures.

Mounting – For unit or row installations, surface or suspended mounting. Order endplates separately, one per fixture or row.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). Suitable for damp locations.

Ordering Information

Series	Number of lamps
PV Fortandem double-length unit, add prefix T . Example: TPV	2 Not included.

Lamp type	Voltage
28T5 28W T5 (46") 32 32W T8 (48") 48 38W Slimline (48") 48HO 60W 800mA (48") 48T8HO 44W T8 (48") 48PG 110W 1500mA (48") 54T5HO 54W T5 HO (46") 96HO 110W 800mA (96") 96PG 215W 1500mA (96") 96T8 59W T8 Slimline (96") 96T8HO 86W T8 380mA (96")	MVOLT 347

Example: PV 2 32 MVOLT GEB10IS

Options/Accessories ¹
GEB Electronic ballast (F96T8 or F96T8HO only) GEB10IS T8 electronic ballast, instant start GEB10RS T8 electronic ballast, rapid start GEB10PS T5 electronic ballast, program start PO White porcelain reflector finish PCEP Full-depth end plates (1 pair) required. Use one pair per fixture for single unit installations or one pair per row. ¹ CSA CSA Certified NOM NOM Certified See page 113 for others.

NOTES:

- Order accessories as separate catalog numbers.
- For detailed mounting information consult the product specification sheets.

Availability and Dimensions

Series	Lamps per cross section	Lamps per fixture	Lamp type	Width ² in. (cm)	Depth ² in. (cm)	Length ² in. (cm)
PV		2	28T5, 32, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	49 ¹³ / ₁₆ (126.5)
TPV	2	4	28T5, 32, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	99 ¹⁹ / ₃₂ (253.2)
PV	2	2	48, 48HO, 48T8HO, 48PG	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	48 (121.9)
TPV	2	4	28T5, 48, 48HO, 48T8HO, 48PG, 54T5HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)
PV	2	2	96, 96HO, 96PG, 96T8, 96T8HO	13 ³ / ₈ (33.4)	6 ⁵ / ₈ (15.8)	96 (243.8)

LIGHTEDGE® I/D WALL

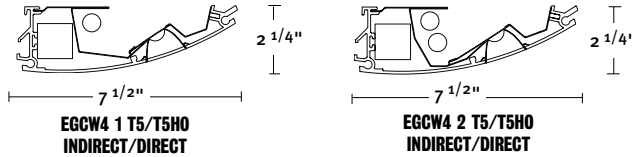
PEERLESS®

7 1/2" X 2" Curved

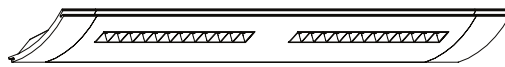
Wall Mount - Modular

SPECIFICATIONS

AVAILABLE FIXTURES



SPECIFICATIONS



CONSTRUCTION

Housing and endcap AA 6063 T6 extruded aluminum forming a 7 1/2" x 2 1/4" curvilinear channel.

REFLECTORS

Die-formed reflectors combine hammertone specular aluminum and baked white enamel (nominal reflectance 90%). Prismatic acrylic kicker lens on 1 lamp product.

SHIELDING

Parabolic semi-specular aluminum baffles with opal diffuser.

FINISH

Satin anodized standard; custom colors available.

INSTALLATION

For details refer to LE-25.

ELECTRICAL

Specify 120 volt, 277 volt, or 347 volt. UL and C-UL listed and labeled. For special circuiting, consult factory.

FIXTURE LENGTH

4', 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length add 4" for each end-cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

ORDERING LOGIC

- Use guide below to order complete fixture runs from four feet to three-hundred feet in increments of four feet.

Quantity	Fixture	# of Lamps in Cross Section	Lamp Type	Nominal Row Length (Must be in 4' increments)	Maximum Section Length	Voltage	Ballast Type	# of Emergency Sections (sections per run)(optional)	Emergency Type (optional)**	Switching	Lamp Color	Finish	Options
	EGCW4	1 2	54-T5HO 54w4 T5HO 28T5 - 28w4 T5	FTN		120 277 347	R4- 4' section R8- 8' section R12- 12' section GEB10- <10% THD Ballast	Blank- No Emergency 1SE- 1 section 2SE- 2 sections XSE- X sections SCT- Single Circuit DCT- Dual Circuit	EL- Emergency Battery Pack EC- Emergency Circuit/Night Light EN- Emergency Battery Pack in the Night Light Circuit				GLR- Fast Blow Fuse GMF- Slow Blow Fuse ELH- EM Through Wire Harness ELS- EM Through Wire Harness With Single Feed AEC- Accent End Cover C100- Satin Anodized Finish (Standard) C099- Custom Color (consult factory) C200- Peerless Standard White (Low Gloss) C005- Soft White (Low Gloss) C032- White White (Gloss) C041- White White (Low Gloss)
								L/LP- No lamp LP830- 3000K 80 + CRI LP835- 3500K 80 + CRI LP841- 4100K 80 + CRI					

**EL, EN and EC not available with DCT in 4' sections.

EXAMPLE:

Qty Fixture section
4 EGCW4 1 54T5HO 36FTN R12 120 GEB10 2SE EL SCT LP835 C100
1 EGCW4 2 54T5HO 12FTN R12 277 GEB10 DCT L/LP C100

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LIGHTEDGE® I/D WALL

PEERLESS®

7 1/2" X 2" Curved

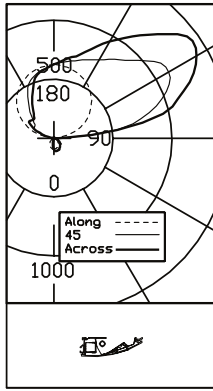
Wall Mount - Modular

PHOTOMETRICS

1-LAMP T5 HIGH-OUTPUT CURVED

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 5785 DATE: 1-22-2003

CATALOG NUMBER: EGCW4-1-54T5HO
LUMINAIRE: 7 1/2"W X 2 1/4"H ALUMINUM ASYMMETRIC INDIRECT/DIRECT LIGHT WITH WHITE PAINTED REFLECTOR AND SPECULAR BAFFLE
LAMP(S): FP54/835/HO RATED @ 5000 LUMENS
BALLAST: QT-1X54/120PHO
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 58.4 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.



CANDELA DISTRIBUTION					FLUX
0	45.0	90.0	135.0	180.0	
0	99	99	99	99	
5	111	108	95	89	9
15	112	108	87	46	34
25	105	98	77	23	22
35	87	85	63	7	31
45	72	66	46	2	4
55	57	50	24	2	3
65	31	29	5	1	13
75	3	6	0	0	2
85	2	0	0	0	2
90	26	18	0	0	0
95	321	343	24	27	23
105	1039	834	152	93	439
115	1306	1079	269	182	558
125	1438	1105	367	200	562
135	1245	931	450	275	238
145	1036	816	518	384	314
155	859	733	568	511	284
165	717	680	601	587	176
175	652	643	618	608	602
180	624	624	624	624	624

ZONAL LUMEN SUMMARY	%LAMP	%FIXT
0-30	61	1.2
0-40	92	1.8
0-60	145	2.9
0-90	181	3.2
90-120	1183	23.3
90-130	1724	34.5
90-150	2570	51.4
90-180	3090	61.8
0-180	3251	65.0

LUMINANCE DATA IN FOOTLAMBERTS				TOTAL LUMINAIRE EFFICIENCY = 65.0 %	
ANGLE IN DEG	AVERAGE	AVERAGE	AVERAGE	CIE TYPE - INDIRECT	
	0-DEG	45-DEG	90-DEG		
45	569.	591.	479.		
55	501.	528.	308.		
65	355.	388.	92.		
75	37.	101.	0.		
85	34.	14.	0.		

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAILS, PLEASE SEE PEERLESS PUBLICATION # A62

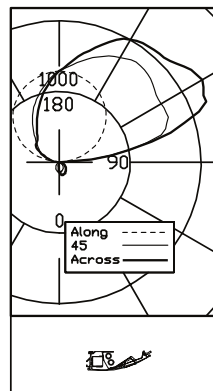


APPROVED BY:

2-LAMP T5 HIGH-OUTPUT CURVED

FAR-FIELD PHOTOMETRY
REPORT NUMBER: 5788 DATE: 1-22-2003

CATALOG NUMBER: EGCW4-2-54T5HO
LUMINAIRE: 7 1/2"W X 2 1/4"H ALUMINUM ASYMMETRIC INDIRECT/DIRECT LIGHT WITH WHITE PAINTED REFLECTOR AND SPECULAR BAFFLE
LAMP(S): 2-FP54/835/HO RATED @ 5000 LUMENS
BALLAST: QT-2X54/120PHO
MOUNTING:
LUMEN TO CANDELA RATIO USED = 9.15
TOTAL INPUT WATTS = 120.4 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.



CANDELA DISTRIBUTION					FLUX
0	45.0	90.0	135.0	180.0	
0	145	145	145	145	13
5	167	158	139	121	103
15	186	174	128	60	48
25	177	165	112	31	14
35	152	147	81	8	8
45	126	116	67	4	7
55	101	89	35	4	7
65	62	55	7	2	4
75	9	15	0	1	3
85	3	0	0	0	2
90	4	1	0	0	2
95	451	481	42	50	49
105	1624	1483	305	144	135
115	2242	1666	550	287	277
125	2273	1664	757	367	407
135	2090	1763	929	485	444
145	2052	1769	1068	663	554
155	1909	1655	1169	856	739
165	1630	1509	1240	1035	964
175	1393	1354	1277	1217	1186
180	1289	1289	1289	1289	1289

ZONAL LUMEN SUMMARY	%LAMP	%FIXT
0-30	93	0.9
0-40	144	1.4
0-60	232	2.3
0-90	264	2.6
90-120	1886	18.9
90-130	2321	28.2
90-150	4436	44.4
90-180	5497	55.0
0-180	5781	57.6

LUMINANCE DATA IN FOOTLAMBERTS				TOTAL LUMINAIRE EFFICIENCY = 57.6 %	
ANGLE IN DEG	AVERAGE	AVERAGE	AVERAGE	CIE TYPE - INDIRECT	
	0-DEG	45-DEG	90-DEG		
45	997.	1043.	700.		
55	887.	934.	451.		
65	609.	755.	129.		
75	113.	261.	0.		
85	52.	14.	0.		

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAILS, PLEASE SEE PEERLESS PUBLICATION # A62



APPROVED BY:

LE-36

PEERLESS LIGHTING Box 2556, Berkeley, CA 94702-0556 510.845-2760 Fax 510.845-2776 www.peerless-lighting.com

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ITEM #:

LIGHTLINE™ WALL WASH

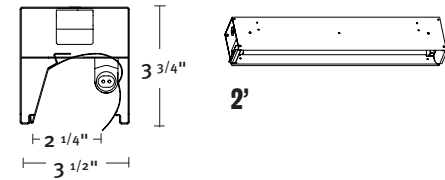
PEERLESS®

2 1/4" Aperture

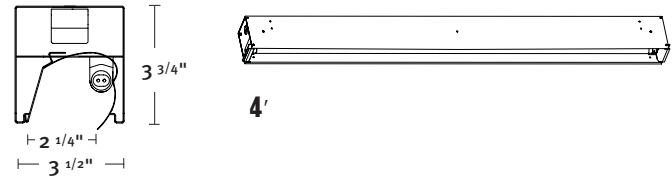
Recessed Mount Wall Wash

SPECIFICATIONS

AVAILABLE FIXTURE

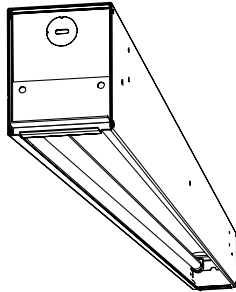


LWR9 2' T5HO/T5



LWR9 4' T5HO/T5

SPECIFICATIONS



CONSTRUCTION

Housing is formed from painted cold-rolled steel. Five-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts finished with high-gloss baked enamel.

REFLECTORS

Specular asymmetric reflector system. Black metal diffuser with round holes.

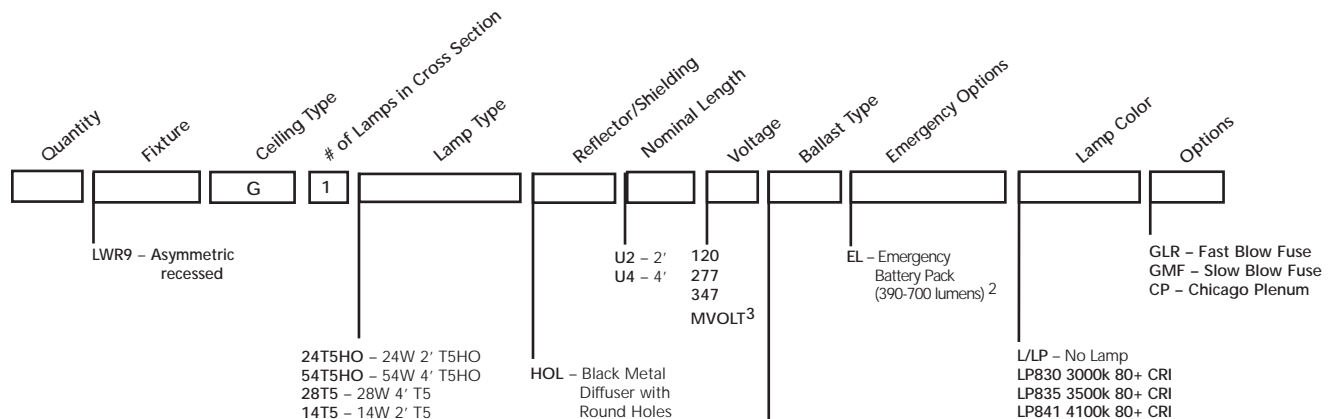
ELECTRICAL

Specify 120 volt, 277 volt, or 347 volt. Non EL versions damp location labeled. UL and C-UL listed and labeled. For special circuiting, consult factory.

FIXTURE SIZE

Nominal 2" aperture. 2' and 4' lengths available.

ORDERING LOGIC



Accessories (order separately)

DHSGS2 - Gyp-board Flange Kit 2'
DHSGS4 - Gyp-board Flange Kit 4'

- 1 Only available with 54T5HO
- 2 Only available with 28T5 & 54T5HO
- 3 Not for use when specifying battery pack

EXAMPLE:

Qty Fixture section

- 4 LWR9 G 1 54T5HO HOL U4 120 GEB10 L/LP
1 LWR9 G 1 14T5 HOL U2 277 GEB10 LP835

GEB10 - 10% THD Ballast

Dimming Ballasts Available

- ADEZ - Advance Mark 10¹
ADZT - Advance Mark 7¹
ECO10 - Lutron ECO 10
DMHL - Lutron Hi-Lume (FDB) - Purchased¹
OSDIM - Osram 0-10V¹

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LLWW-1

ITEM #:

LIGHTLINE™ WALL WASH

PEERLESS®

2 1/4" Aperture

Recessed Mount Wall Wash

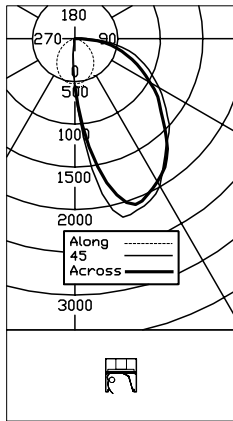
PHOTOMETRICS

1-LAMP 54W T5 HIGH-OUTPUT

1-LAMP 28W T5 HIGH-OUTPUT

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 6893 DATE: 12-12-2005

CATALOG NUMBER: LWR9-1-54T5HO
 LUMINAIRE: 3 1/2" W X 3 3/4" H RECESSED WALL WASH WITH ASYMMETRIC-THROW
 SPECULAR REFLECTOR AND PERF. BLACK TRIM
 LAMP(S): FP54/835/HO RATED @ 5000 LUMENS
 BALLAST: QTP-1X54HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 60.9 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.



CANDELA DISTRIBUTION				FLUX	
	0.0	45.0	90.0	135.0	180.0
0	558	558	558	558	558
5	1183	1020	564	276	180
15	2163	1895	543	48	40
25	2091	2010	501	32	27
35	1809	1832	439	22	23
45	1559	1488	356	20	22
55	1274	1184	282	17	15
65	990	863	180	8	5
75	728	570	67	0	1
85	343	263	4	0	0
90	132	77	0	0	0

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	748	15.0	23.8
0-40	1279	25.6	40.8
0-60	2333	46.7	74.4
0-90	3138	62.8	100.0
90-180	0	0.0	0.0
0-180	3138	62.8	100.0

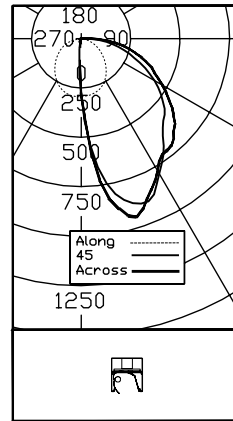
TOTAL LUMINAIRE EFFICIENCY = 62.8 %
 CIE TYPE - DIRECT

APPROVED BY:

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE.
 FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 6932 DATE: 12-12-2005

CATALOG NUMBER: LWR9-1-24T5HO
 LUMINAIRE: 3 1/2" W X 3 3/4" H RECESSED WALL WASH WITH ASYMMETRIC-THROW
 SPECULAR REFLECTOR AND PERF. BLACK TRIM
 LAMP(S): FP24/835/HO RATED @ 2200 LUMENS
 BALLAST: QTP2X39-24T5HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 26.6 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.



CANDELA DISTRIBUTION				FLUX	
	0.0	45.0	90.0	135.0	180.0
0	279	279	279	279	279
5	580	543	296	106	43
15	927	845	283	19	16
25	845	871	261	13	11
35	718	723	226	9	8
45	662	588	178	7	7
55	543	493	125	7	5
65	409	358	69	2	2
75	286	226	22	0	0
85	134	93	0	0	0
90	49	20	0	0	0

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	331	15.0	25.4
0-40	550	25.0	42.2
0-60	988	44.9	75.8
0-90	1303	59.2	100.0
90-180	0	0.0	0.0
0-180	1303	59.2	100.0

TOTAL LUMINAIRE EFFICIENCY = 59.2 %
 CIE TYPE - DIRECT

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BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE.
 FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

LLWW-2

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ITEM #:

LIGHTLINE™

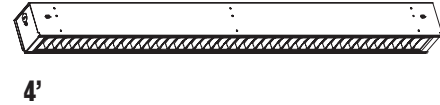
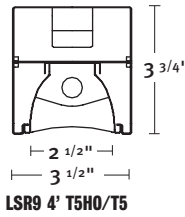
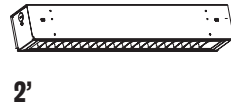
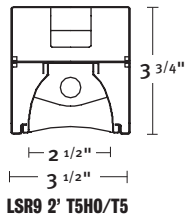
PEERLESS®

2 1/2" Aperture

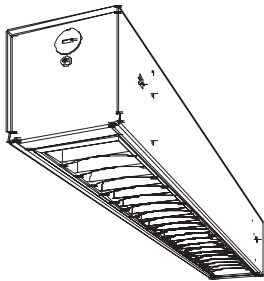
Recessed Mount Symmetric

SPECIFICATIONS

AVAILABLE FIXTURE



SPECIFICATIONS



CONSTRUCTION

Housing is formed from one piece painted cold-rolled steel. Four-stage iron-phosphate pretreatment ensures superior paint adhesion and rust resistance. Painted parts are finished with low-gloss baked enamel.

REFLECTORS

Die formed reflector with baked white enamel finish. Nominal reflectance 90%.

SHIELDING

Arc-shaped, parabolic low iridescent semi-specular aluminum louver.

ELECTRICAL

Specify 120 volt, 277 volt, or 347¹ volt. Non EL versions damp location labeled. UL and C-UL listed and labeled. For special circuiting, consult factory.

FIXTURE SIZE

Nominal 2 1/2" aperture. 2' and 4' lengths available.

ORDERING LOGIC

Quantity	Fixture	Ceiling Type	# of Lamps in Cross Section	Lamp Type	Reflector/Shielding	Nominal Length	Voltage	Ballast Type	Emergency Options	Lamp Color	Options
	LSR9 - Symmetric Recessed	G - Lay in grid ST - Screw Slot Gyp-board ²	1	24T5HO - 24W 2' T5HO 54T5HO - 54W 4' T5HO 14T5 - 14W 2' T5 28T5 - 28W 4' T5	LDL - Low Iridescent Louver	U2 - 2' U4 - 4'	120 277 347 ¹	GEB10 - 10% THD Ballast Dimming Ballasts Available ADEZ - Advance Mark X ¹ ADZT - Advance Mark VII ¹ ECO10 - Lutron ECO 10 ¹ DMHL - Lutron Hi-Lume (FDB) ¹ OSDIM - Osram 0-10V ¹	EL - Emergency Battery Pack (390-700 lumens) ²	L/LP - No Lamp LP830 3000k 80+ CRI LP835 3500k 80+ CRI LP841 4100k 80+ CRI	GLR - Fast Blow Fuse GMF - Slow Blow Fuse CP - Chicago Plenum NYC - New York City Calendar

Accessories (order separately)
DHSGS2 - Gyp-board Flange Kit 2'
DHSGS4 - Gyp-board Flange Kit 4'
PAK000800 - Extra Mounting Clip Set

- 1 Only available with 54T5HO
- 2 Only available with 28T5 & 54T5HO
- 3 Order 'G' Lay-in grid fixture + flange kit accessory
- 4 Option available on select models. Order fixtures in pairs. Factory will supply correct number of Master and Satellite units. 9' cable standard.

EXAMPLE:

Qty Fixture section
4 LSR9 ST 1 54T5HO LDL U4 120 GEB10 L/LP
1 LSR9 G 1 14T5 LDL U2 277 GEB10 LP835

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LSR-1

ITEM #:

LIGHTLINE™

PEERLESS®

2 1/2" Aperture

Recessed Mount Symmetric

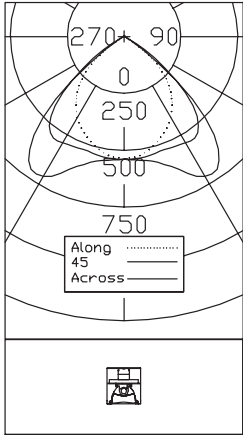
PHOTOMETRICS

1-LAMP 24W T5 HIGH-OUTPUT

1-LAMP 54W T5 HIGH-OUTPUT

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 6168 DATE: 5-6-2004

CATALOG NUMBER: LSR9-1-24T5HO
 LUMINAIRE: 3 1/2" W X 3 3/4" H DIRECT LIGHT WITH WHITE PAINTED REFLECTOR AND PARABOLIC SEMI-SPECULAR BAFFLE
 LAMP(S): FP24/835/HO RATED @ 2000 LUMENS
 BALLAST: QTP 1X39-24T5HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 27.4 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION					FLUX
0	5	15	25	35	45
0	540	497	444	369	292
5	540	506	465	416	292
15	540	531	532	543	428
25	540	539	532	543	471
35	540	559	618	652	506
45	540	572	665	712	506
55	540	572	665	712	506
65	540	572	665	712	506
75	540	572	665	712	506
85	540	572	665	712	506
90	540	572	665	712	506

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	454	22.7	36.7
0-40	788	39.4	63.7
0-60	1213	60.7	98.1
0-90	1237	61.9	100.0
90-180	0	0.0	0.0
0-180	1237	61.9	100.0

TOTAL LUMINAIRE EFFICIENCY = 61.9 %
 CIE TYPE - DIRECT

LUMINANCE DATA IN FOOTLAMBERTS

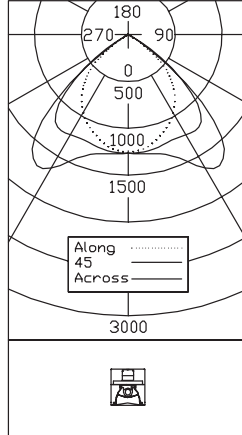
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	2430.	3969.	4689.
55	930.	1887.	1164.
65	189.	276.	257.
75	86.	117.	111.
85	0.	72.	72.

APPROVED BY:

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 6169 DATE: 5-6-2004

CATALOG NUMBER: LSR9-1-54T5HO
 LUMINAIRE: 3 1/2" W X 3 3/4" H DIRECT LIGHT WITH WHITE PAINTED REFLECTOR AND PARABOLIC SEMI-SPECULAR BAFFLE
 LAMP(S): FPS4/835/HO RATED @ 5000 LUMENS
 BALLAST: QTP 1X54T5HO/UNV PSN
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 59.1 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION					FLUX
0	5	15	25	35	45
0	1262	1160	1039	867	625
5	1262	1257	1265	1272	1276
15	1262	1265	1272	1276	1276
25	1262	1272	1276	1276	1276
35	1262	1276	1276	1276	1276
45	1262	1276	1276	1276	1276
55	1262	1276	1276	1276	1276
65	1262	1276	1276	1276	1276
75	1262	1276	1276	1276	1276
85	1262	1276	1276	1276	1276
90	1262	1276	1276	1276	1276

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0-30	1050	21.0	35.3
0-40	1836	36.7	61.8
0-60	2909	58.2	97.9
0-90	2970	59.4	100.0
90-180	0	0.0	0.0
0-180	2970	59.4	100.0

TOTAL LUMINAIRE EFFICIENCY = 59.4 %
 CIE TYPE - DIRECT

LUMINANCE DATA IN FOOTLAMBERTS

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	2899.	4852.	5998.
55	1197.	2436.	1849.
65	234.	370.	306.
75	90.	111.	111.
85	82.	51.	62.

APPROVED BY:

BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAIL EXPLANATIONS, PLEASE SEE PEERLESS PUBLICATION # A62

LSR-2

PEERLESS LIGHTING Box 2556, Berkeley, CA 94702-0556 510.845-2760 Fax 510.845-2776 www.peerless-lighting.com

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ITEM #:

LIGHTEDGE® INDIRECT/DIRECT

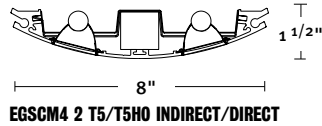
PEERLESS®

8" X 2" Shallow Curved

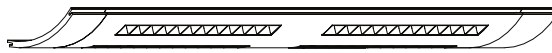
Pendant Mount - Modular

SPECIFICATIONS

AVAILABLE FIXTURES



SPECIFICATIONS



INDIRECT/DIRECT CURVED

CONSTRUCTION

Housing and endcap AA 6063 T6 extruded aluminum forming an 8" x 1 1/2" curvilinear channel.

REFLECTORS

Die-formed reflectors with baked white enamel finish (nominal reflectance 90%) and hammertone specular aluminum.

SHIELDING

Parabolic semi-specular aluminum baffles.

FINISH

Satin anodized standard; custom colors available.

INSTALLATION

For details refer to LE-19.

ELECTRICAL

Specify 120 volt, 277 volt, or 347 volt. UL and C-UL listed and labeled. For special circuiting, consult factory.

FIXTURE LENGTH

4' and 8' lengths in a single section for exact suspension spacing of 4' and 8.' For total fixture length add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures.

ORDERING LOGIC

Use guide below to order complete fixture runs from four feet to three-hundred feet in increments of four feet.

Quantity	Fixture	# of Lamps in Cross Section	Lamp Type	Nominal Row Length (Must be in 4' increments)	Maximum Section Length	Voltage	Ballast Type	# of Emergency Sections (sections per run)(optional)	Emergency Type (optional)**	Switching	Lamp Color	Mounting Type	Feed/Overall Suspension	Finish	Options
4	EGSCM4	2	54T5HO- 54W 4' T5HO 28T5- 28W 4' T5	40FT	R4- 4' section R8- 8' section	120 277 347	GEB10- <10% THD Ballast	1	EL- Em. Battery Pack EC- Emergency Circuit EN- Emergency Battery Pack w/ Night Light Circuit	SCT- Single Circuit DCT- Dual Circuit	L/P- No lamp LP830- 3000K 80 + CRI LP835- 3500K 80 + CRI LP841- 4100K 80 + CRI	F1- T-bar Ceiling F2- Hard Ceiling Horizontal J-box F4A- Grid Ceiling IDS 15/16" F4B- Grid Ceiling IDS 9/16" F4C- Grid Ceiling IDS Screw Slot	12- 12" overall 15- 15" overall 18- 18" overall 21- 21" overall 24- 24" overall XX- XX" overall	C100- Satin Anodized Finish (Standard) C099- Custom Color (consult factory) C200- Peerless Standard White (Low Gloss) C005- Soft White (Low Gloss) C032- White White (Gloss) C041- White White (Low Gloss)	ACG- Adjustable Cable Grippers GLR- Fast Blow Fuse GMF- Slow Blow Fuse ELH- EM Through Wire Harness ELS- EM Through Wire Harness With Single Feed CMG- White Cord Manager APF- Alternate Power Feed (F4X mounting only) AEC- Accent End Cover

**EL, EN and EC not available with DCT in 4' sections.

EXAMPLE:

Qty Fixture section

4 EGSCM4 2 54T5HO 40FT R8 120 GEB10 2SE EL SCT LP835 F1/24 C100
1 EGSCM4 2 54T5HO 32FT R8 277 GEB10 DCT L/LP F2/15 C100 ACG

Peerless Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

LIGHTEDGE® INDIRECT/DIRECT

PEERLESS®

8" X 2" Shallow Curved

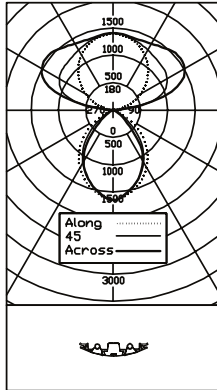
Pendant Mount - Modular

PHOTOMETRICS

2-LAMP T5 HIGH-OUTPUT CURVED

FAR-FIELD PHOTOMETRY
 REPORT NUMBER: 5778 DATE: 1-22-2003

CATALOG NUMBER: EGSCM4-2-54T5HO
 LUMINAIRE: 8" W X 1 1/2" H ALUMINUM INDIRECT/DIRECT LIGHT WITH WHITE
 PAINTED AND HAMMERTONE REFLECTOR AND Baffle
 LAMP(S): 2-T554/835/HO RATED @ 5000 LUMENS
 BALLAST: QT 2X54/120PHO
 MOUNTING:
 LUMEN TO CANDELA RATIO USED = 9.15
 TOTAL INPUT WATTS = 120.5 AT 120.0 VOLTS
 THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.



CANDELA DISTRIBUTION		FLUX			
0	0.0	22.5	45.0	67.5	90.0
5	1648	1648	1648	1648	1648
15	1500	1479	1443	1438	1440
25	1325	1271	1234	1217	1222
35	1096	1034	970	929	923
45	819	751	644	485	437
55	487	423	269	181	155
65	134	127	66	20	14
75	16	16	8	7	6
85	2	3	3	3	3
90	1	2	2	2	3
95	39	187	194	183	175
105	228	516	838	944	946
115	455	884	1078	1347	1426
125	685	828	1178	1447	1550
135	897	973	1206	1437	1526
145	1083	1120	1241	1380	1435
155	1228	1243	1294	1350	1377
165	1330	1337	1346	1360	1367
175	1383	1393	1394	1399	1400
180	1404	1404	1404	1404	1404

ZONAL LUMEN SUMMARY		%LAMP	%FIXT
ZONE	LUMENS		
0-30	1138	11.4	13.5
0-40	1752	17.5	20.9
0-60	2604	26.0	29.8
0-90	2800	28.0	31.0
90-120	1943	19.4	23.1
90-150	2965	29.7	35.3
90-180	4884	48.8	55.8
0-180	5789	58.0	69.0
0-180	6398	64.0	100.0

LUMINANCE DATA IN FOOTLAMBERTS			TOTAL LUMINAIRE EFFICIENCY =	
ANGLE	AVERAGE	AVERAGE	84.0 %	
IN DEG	0-DEG	45-DEG	CIE TYPE - SEMI-INDIRECT	
45	18531.	12550.		
55	13346.	6363.		
65	4625.	2065.		
75	703.	373.		
85	129.	210.		

APPROVED BY:



BARE LAMP LUMEN VALUE IS RATED AT LAMP OPERATING TEMPERATURE INSIDE THE LUMINAIRE. FOR DETAILS, PLEASE SEE PEERLESS PUBLICATION # A62

LE-34

PEERLESS LIGHTING Box 2556, Berkeley, CA 94702-0556 510.845-2760 Fax 510.845-2776 www.peerless-lighting.com

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ITEM #:

ENVISION[®] INDIRECT/DIRECT

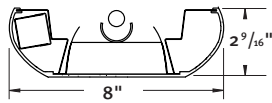
PEERLESS[®]

8" X 3" Rounded

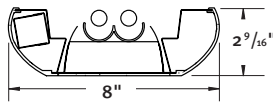
Pendant Mount – Modular

SPECIFICATIONS

AVAILABLE FIXTURES - T5 HIGH-OUTPUT

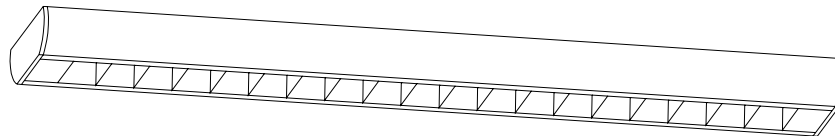


ENM4-1



ENM4-2

SPECIFICATIONS - T5 HIGH-OUTPUT



CONSTRUCTION

Housing AA 6063 T6 extruded aluminum forming an 8" x 2⁹/₁₆" rounded channel. Die-cast end plate mechanically attached with no exposed fasteners.

REFLECTORS

Die-formed specular aluminum.

SHIELDING

Parabolic aluminum baffles semi-specular finish. Includes VisorOptic™ opal diffuser lamp shield.

FINISH

Satin anodized or white paint standard; custom colors available.

ELECTRICAL

Specify 120 volt or 277 volt. Pre-wired with prescribed circuits as specified. UL listed. Listed and labeled to comply with Canadian standards. For special circuiting, consult factory. T5 high-output lamps are included.

FIXTURE LENGTH

4'-0-1/4", 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length add 1/2" for each end-cap.

ORDERING LOGIC - T5 HIGH-OUTPUT

Use guide below to order complete fixture runs from four feet to three-hundred feet in increments of four.

Quantity	Fixture	# of Lamps in Cross Section	Lamp Type	Nominal Row Length (Must be in 4' increments)	Maximum Section Length	Voltage	Ballast Type	# of Emergency Sections (sections per run)(optional)**	Emergency Type (optional)**	Switching	Lamp Color	Mounting Type	Feed/Suspension Length	Finish	Options	
1	ENM4	2	54T5HO	FT		120 277			EL- Emergency Battery Pack EC- Emergency Circuit			/				ACG- Adjustable Cable Grippers GLR- Fast Blow Fuse GMF- Slow Blow Fuse
					R4- 4' section R8- 8' section R12- 12' section			1SE- 1 section 2SE- 2 sections XSE- X sections								C100- Satin Anodized Finish C200- Peerless Standard White (Low Gloss) C005- Soft White (Low Gloss) C032- White White (Gloss) C041- White White (Low Gloss) CXXX- Custom Color (consult factory)
						GEB10- 10% THD Ballast (consult factory)			SCT- Single Circuit DCT- Dual Circuit							L/LP- No lamp LP830- 3000K lamps LP835- 3500K lamps LP841- 4100K lamps
																F1- T-bar Ceiling F2- Hard Ceiling Horizontal J-box
																12- 12" overall suspension 15- 15" overall suspension 18- 18" overall suspension 21- 21" overall suspension 24- 24" overall suspension XX- XX" overall suspension

* Maximum # of emergency sections per run equals number of fixture sections, minus one. For additional sections, consult factory.
 **EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required.

EXAMPLE:

Qty	Fixture	section
1	ENM4 2 54T5HO 40FT R12 120 GEB10 2SE EL SCT LP835 F1/24 C005	
4	ENM4 1 54T5HO 12FT R8 277 GEB10 DCT L/LP F2/15 C100	

ENVISION® INDIRECT/DIRECT

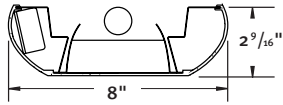
PEERLESS®

8" X 3" Rounded

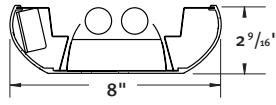
Pendant Mount – Modular

SPECIFICATIONS

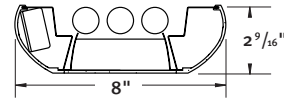
AVAILABLE FIXTURES - T8



ENM4-1

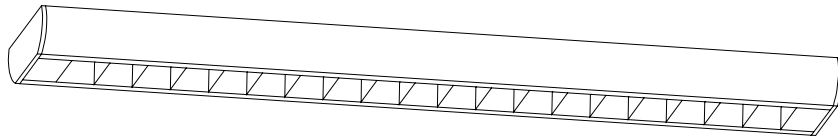


ENM4-2



ENM4-3

SPECIFICATIONS - T8



CONSTRUCTION

Housing AA 6063 T6 extruded aluminum forming an 8" x 2⁹/₁₆" rounded channel. Die-cast end plate mechanically attached with no exposed fasteners.

REFLECTORS

Die-formed specular aluminum.

SHIELDING

Parabolic aluminum baffles semi-specular finish.

FINISH

Satin anodized or white paint standard; custom colors available.

ELECTRICAL

Specify 120 volt, 277 volt or 347 volt. Pre-wired with prescribed circuits as specified. UL listed. Listed and labeled to comply with Canadian standards. For special circuiting, consult factory.

FIXTURE LENGTH

4'-0-1/4", 8' and 12' lengths in a single section for exact suspension spacing of 4', 8' and 12'. For total fixture length add 1/2" for each end-cap.

ORDERING LOGIC - T8

Use guide below to order complete fixture runs from four feet to three-hundred feet in increments of four.

Quantity	Fixture	# of Lamps in Cross Section	Lamp Type	Nominal Row Length (Must be in 4' increments)*	Maximum Section Length	Voltage	Ballast Type	# of Emergency Sections (sections per run)(optional)**	Emergency Type (optional)***	Switching	Lamp Color	Mounting Type	Feed / Suspension Length	Finish	Options
4	ENM4	32	FT	R4- 4' section R8- 8' section R12- 12' section	GEB- Generic Electronic Ballast (consult factory) GEB10- 10% THD Ballast (consult factory)	120 277 347	SCT- Single Circuit DCT- Dual Circuit	1SE- 1 section 2SE- 2 sections XSE- X sections	EL- Emergency Battery Pack EC- Emergency Circuit	L/LP- No Lamp LP730- 3000k 70+ CRI LP735- 3500k 70+ CRI LP741- 4100k 70+ CRI LP830- 3000k 80+ CRI LP835- 3500k 80+ CRI LP841- 4100k 80+ CRI	F1- T-bar Ceiling F2- Hard Ceiling Horizontal J-box	12- 12' overall suspension 15- 15' overall suspension 18- 18' overall suspension 21- 21' overall suspension 24- 24' overall suspension XX- XX' overall suspension	C100- Satin Anodized Finish C200- Peerless Standard White (Low Gloss) C005- Soft White (Low Gloss) C032- White White (Gloss) C041- White White (Low Gloss) CXXX- Custom Color*	GLR- Fast Blow Fuse GMF- Slow Blow Fuse ACG- Adjustable Cable Gripper	

* Maximum # of emergency sections per run should not exceed number of fixture sections minus one. For additional sections, consult factory.
** EC and EL not available concurrently. EL and EC not available with DCT in 4' sections. Separate feed required.

EXAMPLE:

Qty Fixture section

4 ENM4 2 32 40FT R12 120 GEB 2SE EL SCT F1/24 C005
1 ENM4 1 32 12FT R12 277 GDIM 1SE EC SCT F2/15 C100

ZUMTOBEL STAFF

RTX II

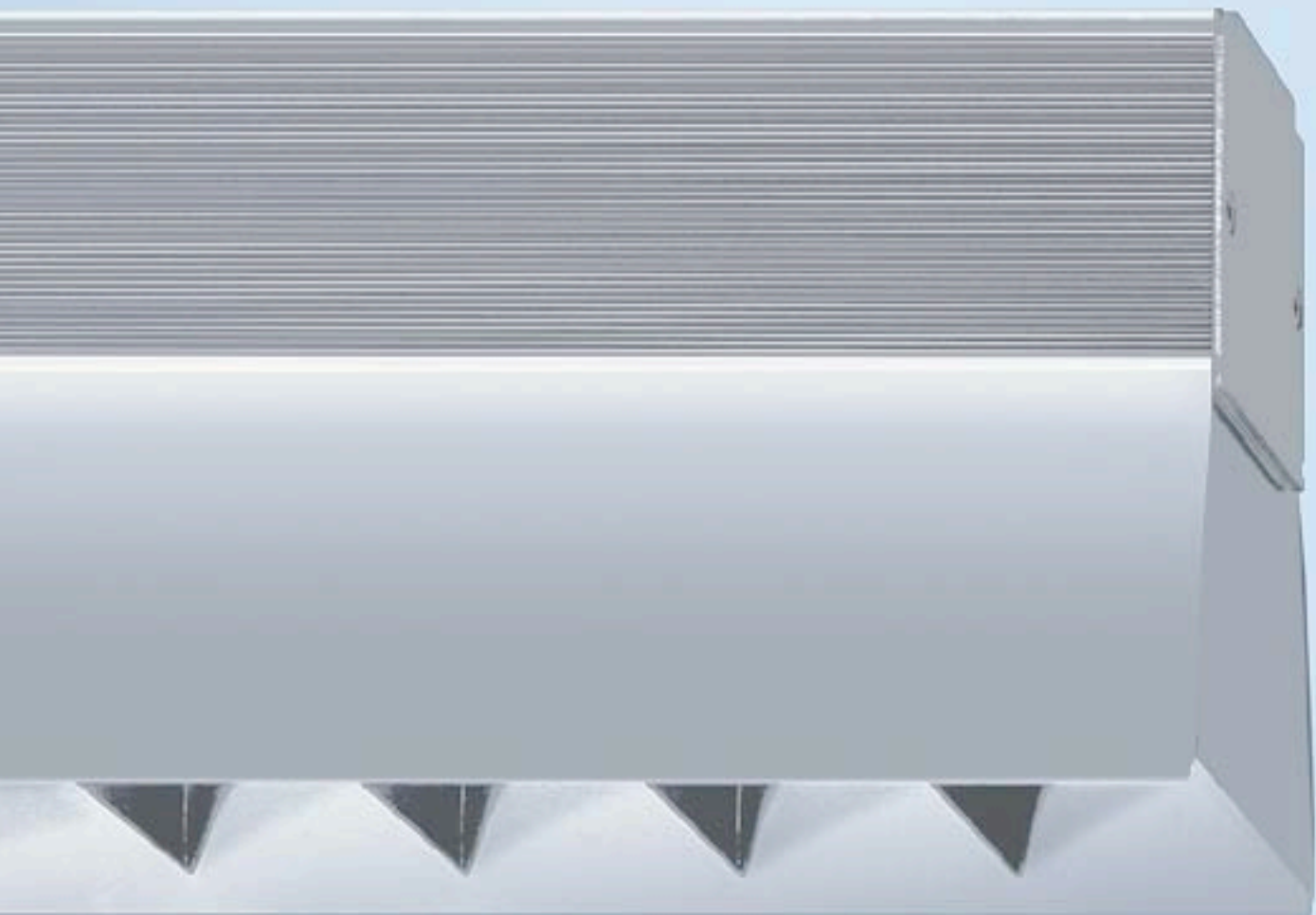
Design oriented
Continuous row system



ZUMTOBEL STAFF

RTX II

Design oriented
Continuous row system

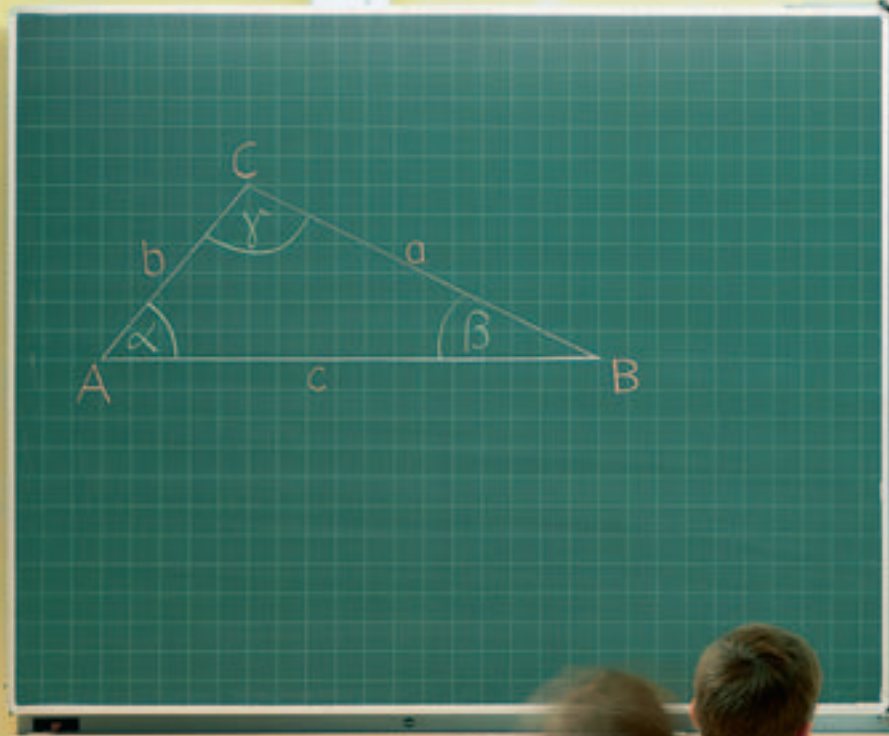




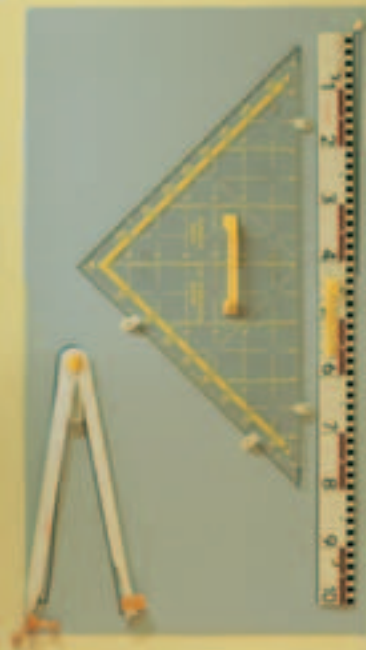
The creative department of a design studio reflects the high standards which employees set for their work, their environment and themselves. Thanks to its modern design, the RTX II indi-



vidual luminaire blends harmoniously into the interior and, by providing direct light, ensures high economic efficiency and good glare control for modern DSE workstations.



Anyone who has to concentrate for hours on end needs perfect lighting conditions. The RTX II continuous row system provides efficient classroom lighting, the wallwasher guarantees uniform vertical and horizontal illumination of blackboards for even the most demanding visual tasks.





Avant-garde in terms of both material and shape

Charles Keller made design history when he created the “original”. The RTX II represents the continuation of this success story – avant-garde in terms of both materials and shape, versatile and, thanks to its purely direct light distribution, extremely efficient with its advanced, glare-free lighting technology.

Thanks to T16 fluorescent lamps, the RTX II is able to provide a continuous row system with compact dimensions. Its discreet, refined lines merge unobtrusively into modern architectural schemes. The one-piece louvre enhances the luminaire’s compact looks and emphasises the external sleekness of its lines thanks to the complete absence of any visible joints.

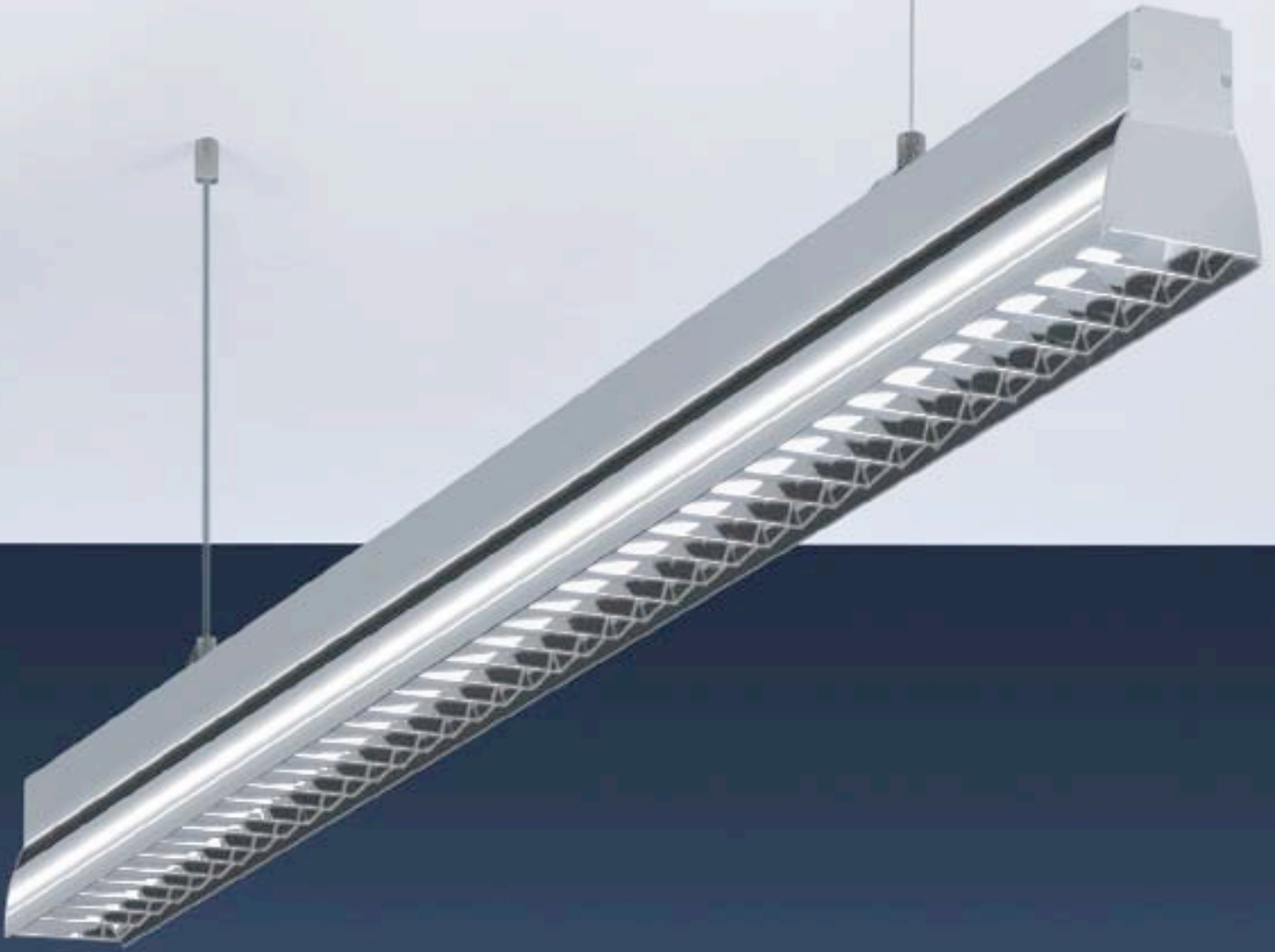
DESIGN

RTX II

CHARLES KELLER

“The RTX II is both an individual luminaire and a lighting system, and hence offers an entire range of solutions for a wide range of applications – from offices to classrooms. Contemporary, sleek design and the differentiated use of aluminium in a natural, anodised finish lend the system its uncluttered, clean lines.”





A design solution for demanding tasks



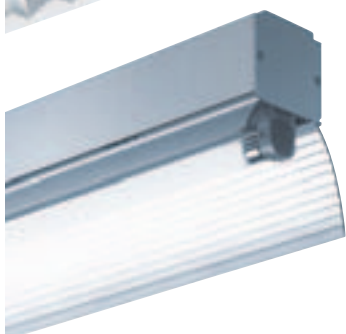
The **aluminium reflector optic in darklight materials** guarantees perfect technical lighting features, its avant-garde appearance blending perfectly with modern interior designs.



The **matt bivergent reflector optic** matches the trunking for a harmonized, uniform look. High-efficiency lighting in conformity with relevant standards makes RTX II perfect for use in schools and offices.



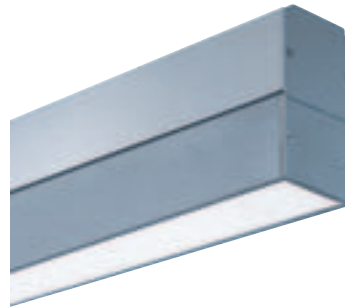
The perforated side sections of the matt bivergent louvre provide the **indirect component of RTX II C/ID** to pleasantly illuminate the ceiling and trunking.



Specially designed for **illuminating blackboards** in classrooms, the wallwasher completes the RTX II range. Optimised lighting technology ensures that demanding visual tasks involving blackboard work are accomplished with ease.



The **RTX II spotlight** provides accent lighting in office side rooms, corridors and prestigious areas. Retaining the high-quality aluminium look, it fits harmoniously into the system range.



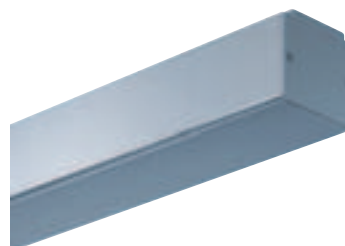
Artline optics boast consistently perfect design for prestigious reception and corridor areas. The cover made of diffuser-pearl material with its visible luminance levels creates a pleasantly bright room atmosphere.



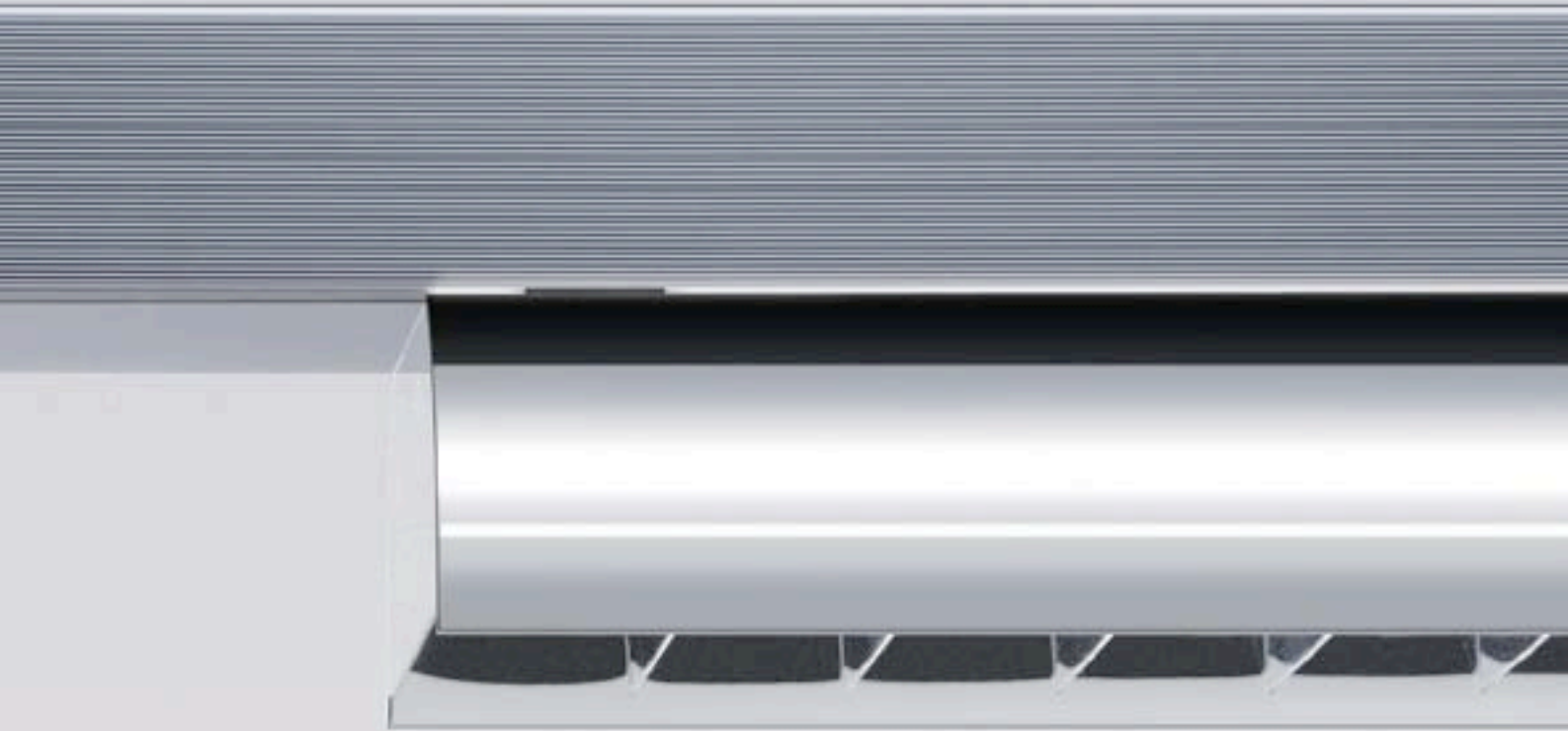
The RTX II design range includes an optic with asymmetrical light distribution for accentuated **wall illumination**.



The additional aluminium cover (cover section for batten luminaire) provides a consistent look where the unit is used as a **batten luminaire with open light distribution**.

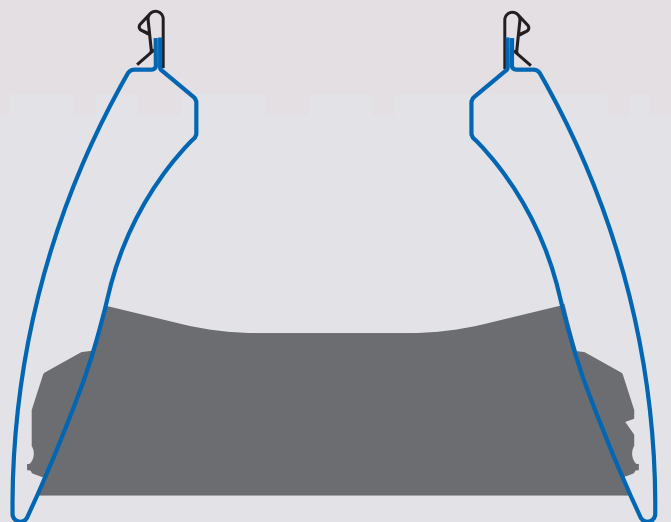


The **aluminium cover section** used for installation as a continuous row system ensures a consistent look – even where luminaires and optics are not fitted. Luminaires and optics can be flexibly retrofitted thanks to through-wiring.



Consistent quality
one-piece design

The darklight reflector optic of RTX II cuts a fine figure thanks to its fashionable contrasting styles, the high-tech look of the louvre optic offsetting the matt finish of the trunking. Yet the louvre projects a seamless image of consistent high quality, as well-designed optic combines with perfect lighting technology.



Darklight reflector optic in original size

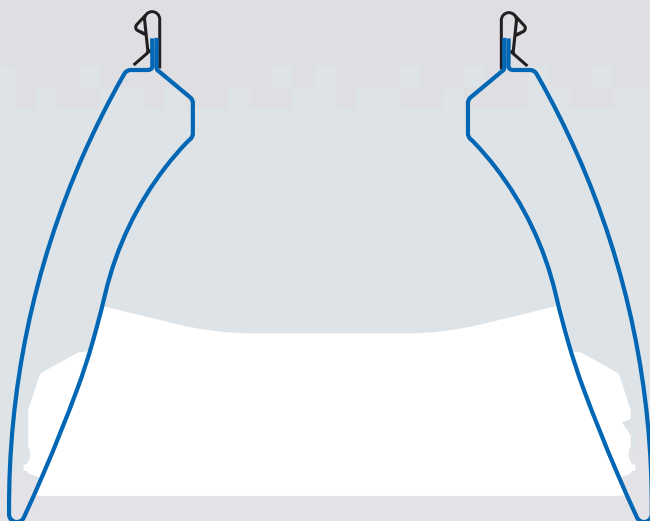
Pure look

in a symbiosis with the interior

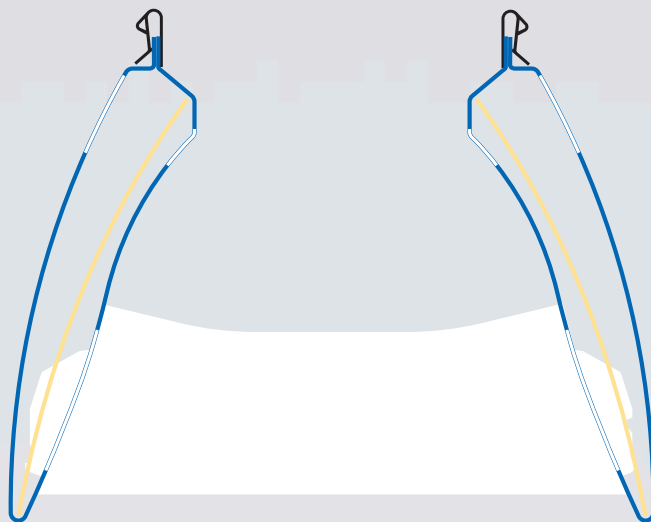
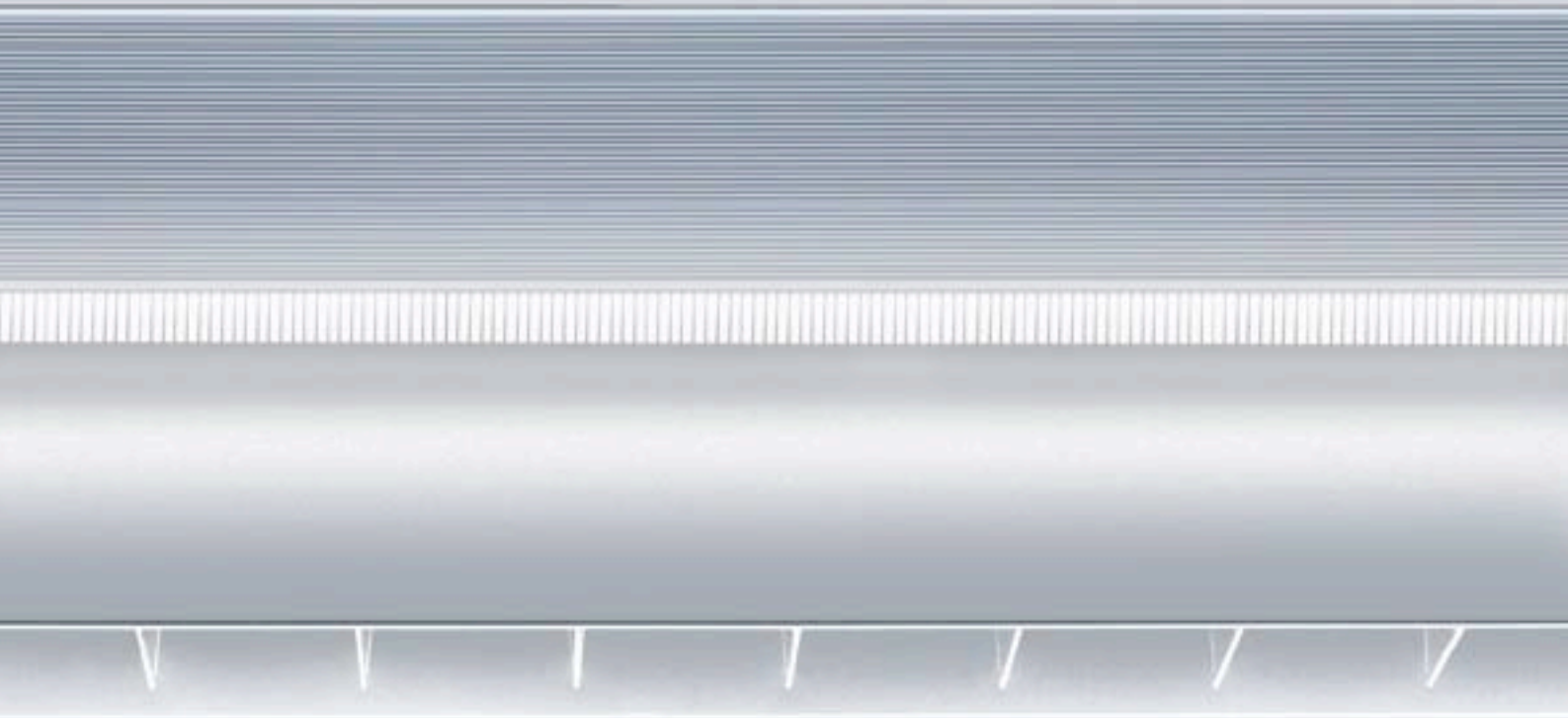


Consistent quality **one-piece design**

A harmonized system: trunking and reflector optic blend perfectly thanks to their consistent matt look. The high-quality feel is emphasised by the finely matched materials.



Matt bivergent reflector optic in original size



Matt bivergent reflector optic with perforation, in original size

The angular side slits, matching the clear lines of RTX II, provide a gentle indirect component to the light. While pleasantly illuminating both ceiling and trunking, the RTX II luminaire itself becomes a softly luminous element in the room. The opal film in the side sections ensures a uniform lighting effect.

Decorative, accentuated design with light



In matching style but with its own individual look within the RTX II family, the “Artline” optic is ideal for use in prestigious entrance halls, reception areas and corridors. Here the quality pairing of aluminium with diffu-

ser-pearl material is shown to best advantage. With practically unlimited design options for continuous row lighting, RTX II provides a lighting system for the whole project, from office to foyer.



The SPIRIT spotlight is the ideal complementary solution for creating highlights in corridors and prestigious areas. Its design harmonizes with the overall image of the RTX II lighting system, again reflecting the stylish aluminium look.

The cover for the spotlight element blends harmoniously with the system without visible joins. The spotlight is a complete, self-contained, ready-to-connect unit.

Specular finishes and “bivergence” in matt

When unique technology becomes design

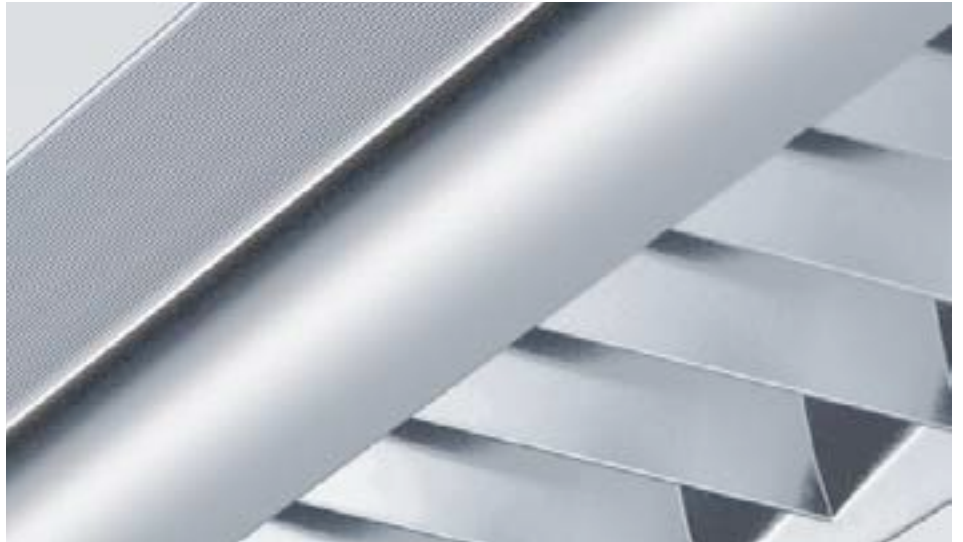
RTX II D **specular, darklight** finish

RTX II darklight radiates purism – purism backed up by functionality: its highly specular one-piece aluminium reflector optic guarantees optimum glare reduction for the latest office workstations, and makes the RTX II D the ideal choice for lighting wherever concentrated DSE work is the order of the day.



RTX II C **semi-matt** finish

The one-piece louvre is not only an unmistakably distinctive feature of the RTX II range, besides its design; it also provides purely direct, efficient lighting for offices and classrooms. The matt bivergent reflector optic ensures a bright, pleasant room atmosphere and at the same time guarantees perfect luminance limitation in accordance with EN 12464.



RTX II C/ID **matt finish**

The linear design theme of the continuous-row lighting system is taken up again in the perforation on the side sections of the RTX II C/ID matt bivergent reflector optic. The indirect light component emitted gently illuminates the trunking and ceiling above, transforming RTX II itself into a “luminous object” in the interior. The surface-mounted and pendant versions of RTX II thus unobtrusively create a pleasant room atmosphere.



What applications require particular types of luminaires?

The diagrams take into account both photometric requirements as well as fixed investment costs for various applications. The blue fields show the ideal luminaire type(s) for a particular application area

Application areas

- Day school
- Technical college/evening school
- Office
- Office with DSE
- Open-plan office
- Technical drawing

RTX II-D							
1/35 W	1/49 W	1/54 W	1/80 W	2/28 W	2/35 W	2/49 W	2/54 W

Application areas

- Day school
- Technical college/evening school
- Office
- Office with DSE
- Open-plan office
- Technical drawing

RTX II-C							
1/35 W	1/49 W	1/54 W	1/80 W	2/28 W	2/35 W	2/49 W	2/54 W

Application areas

- Day school
- Technical college/evening school
- Office
- Office with DSE
- Open-plan office
- Technical drawing

RTX II-C/ID							
1/35 W	1/49 W	1/54 W	1/80 W	2/28 W	2/35 W	2/49 W	2/54 W

Precise lighting technology for perfect blackboard lighting



Two situations, two different room effects: during an examination, the RTX II continuous row system provides light which encourages concentration.



During preparation for the next class, the wallwasher ensures optimum conditions for viewing vertical surfaces, e.g. the blackboard. The clever in which components in the RTX II range can be combined are shown on sites 4/5.

Shape Discreetly shaped and unobtrusive, the RTX II wallwasher does its job of illuminating blackboards in a way which makes concentrated viewing and learning easier. The RTX II wallwasher is itself certainly worth a second look. The luminaire's angular extruded aluminium section gives it its clean, strong look, which is Charles Keller's unmistakable design message. Inside the luminaire, the reflector's stepped vane structure ensures that light from the wallwasher is precisely directed.



Standard 5035 Part 4

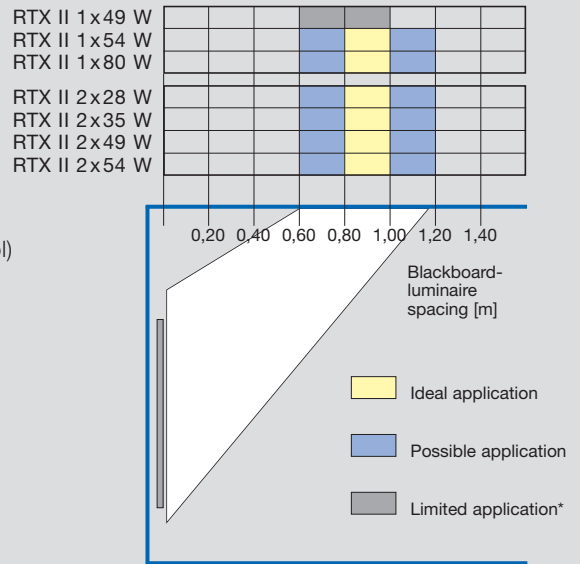
This standard stipulates the nominal illuminance for specific applications. For instance, 300 lx is required for illuminating a blackboard in a day school, for evening schools and technical colleges the required level is 500 lx. Additional blackboard lighting is required in classrooms. Measured at a height of 1.20 m, vertical illuminance must be at least equivalent to horizontal nominal illuminance in the room. The uniformity of illuminance at this height must be at least $\bar{E}_v \geq 1 : 1.5$. To achieve the best possible uniformity and good illumination, it is advisable to install wallwashers in the continuous row over the entire length of the blackboard (see Figure above). Where EN 12464 is valid, the levels stated above are maintained illuminance levels.

Intensive learning and hours spent reading from a blackboard make extreme demands on students. Absorbing what is being taught, also requires a properly, uniformly illuminated blackboard. The RTX II wallwasher provides the best possible help in accomplishing this visually tiring task.

The graphs show possible spacings between the wallwasher and the blackboard in compliance with the applicable standard 5035 Part 4, at a room height of 3 m. Where the room height exceeds 3 m, it is advisable to suspend the luminaire. Detailed planning is required in each individual case.

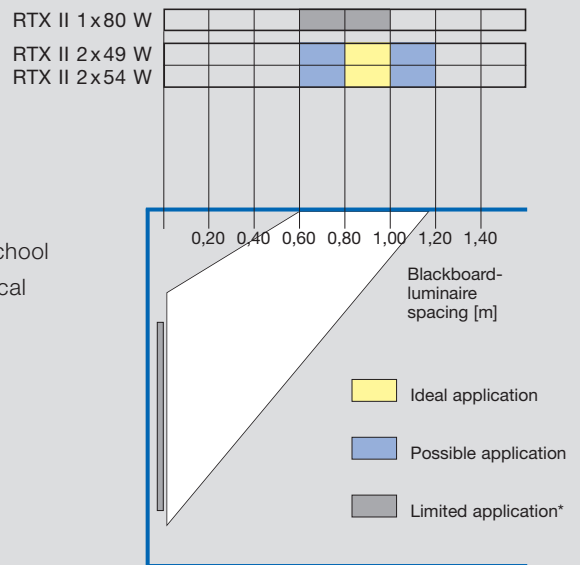


300 Lux
(day school)



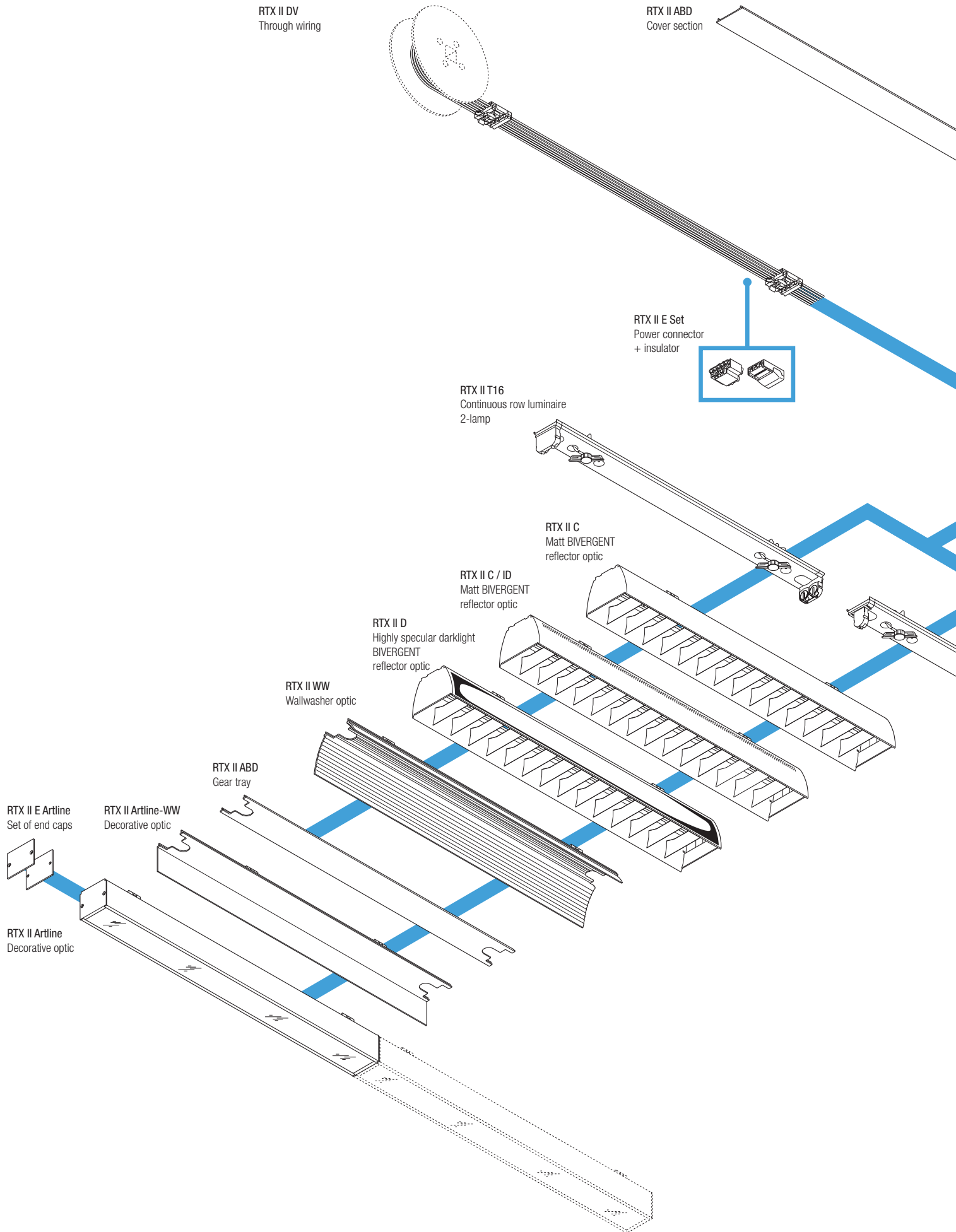
* Depending on architectural parameters and luminaire configuration.

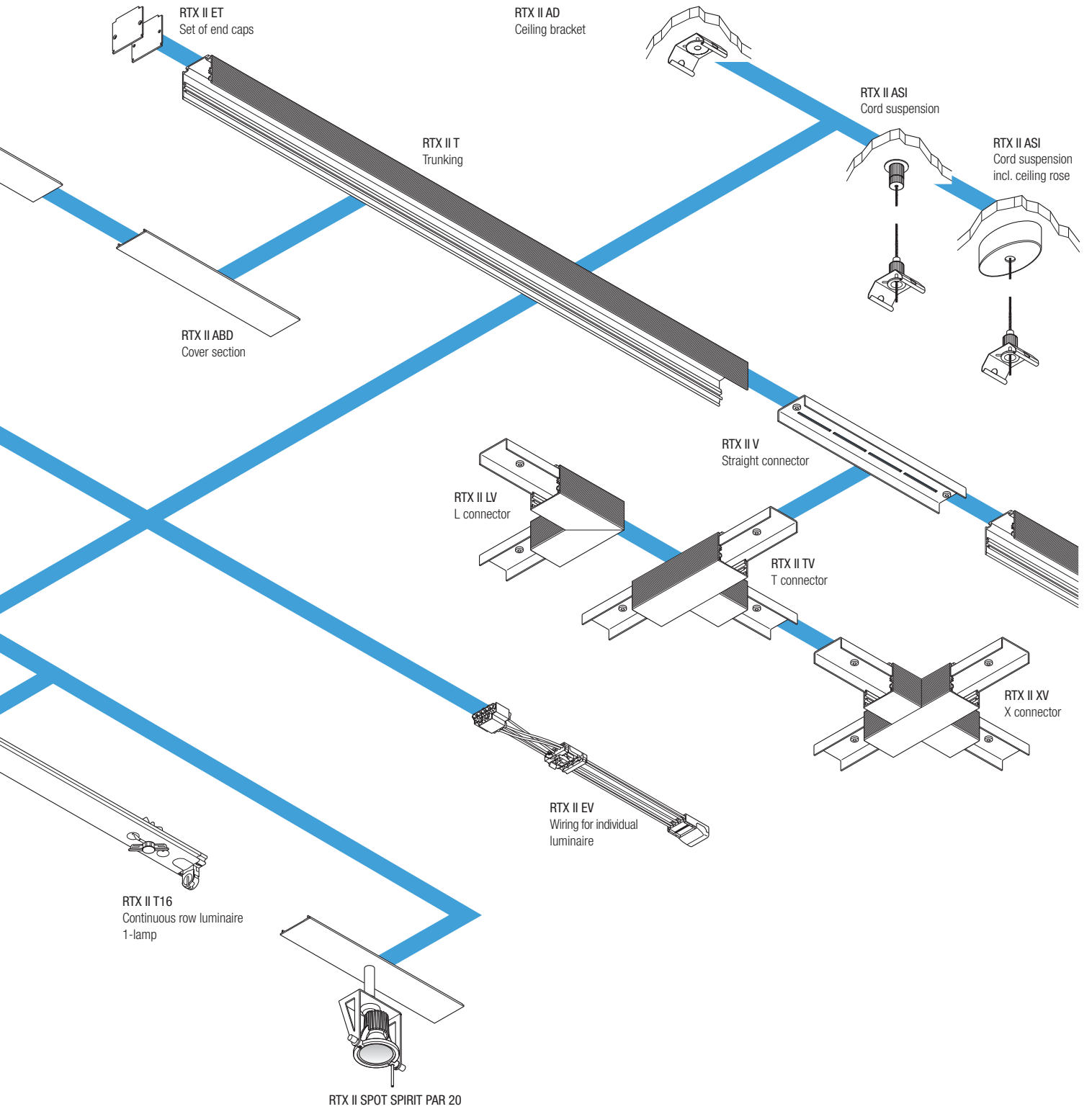
500 Lux
(evening school and technical colleges)

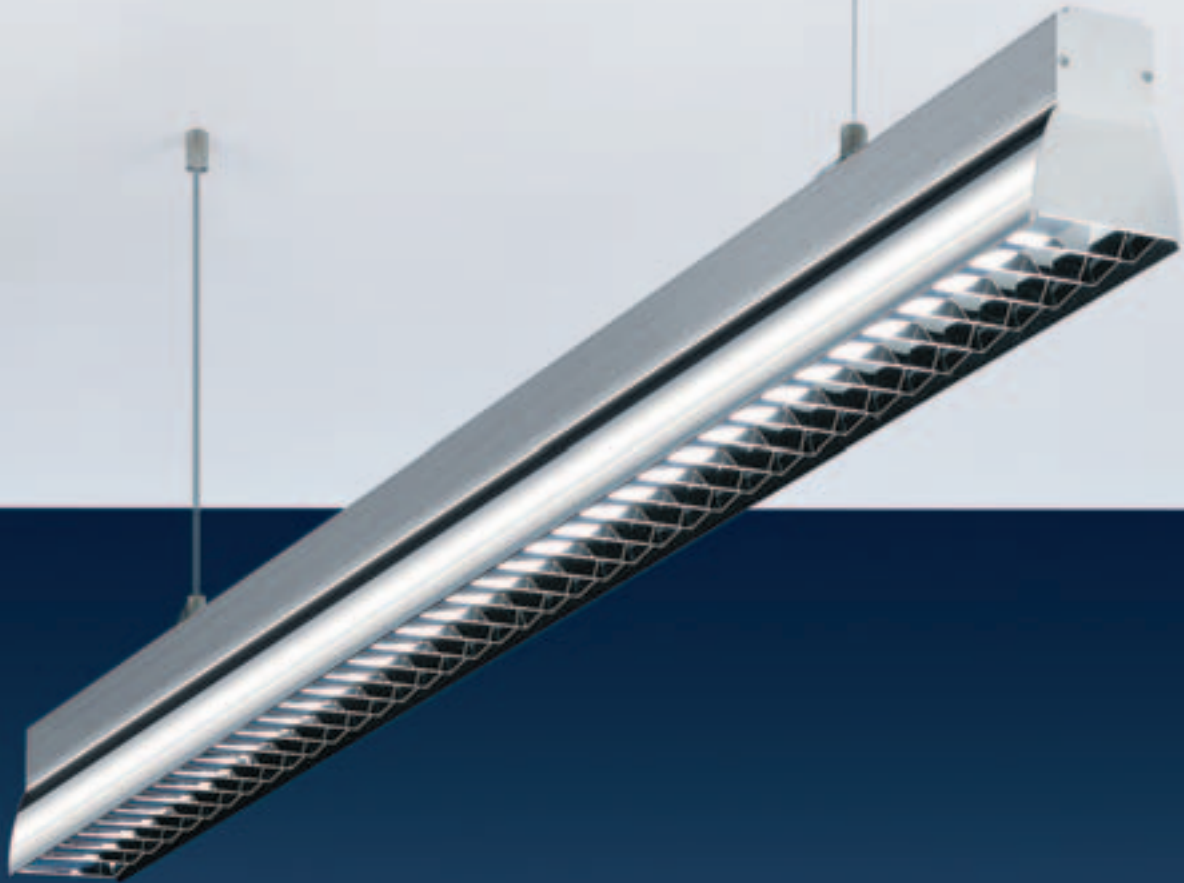


* Depending on architectural parameters and luminaire configuration.

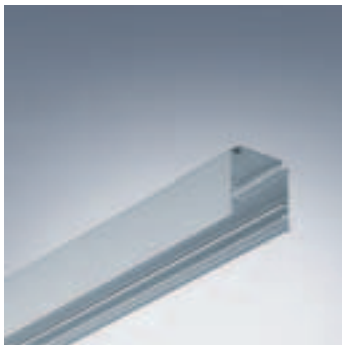
RTX II system overview







RTX II trunking units

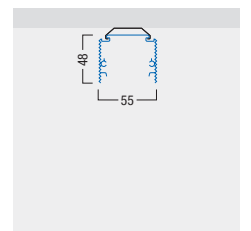


Trunking for individual and continuous row arrangement

- Extruded aluminium section in a natural anodised finish, with lateral ribbing
- Uniform cross-section of trunking for 1-lamp and 2-lamp individual luminaires as well as continuous row systems
- Three electric feed options at the rear with 13.5 mm diameter per mounting track
- Maximum spacing 2 m

Cat. no.	L	kg	Order no.
1-length trunking			
T 28/54	1177	1.0	22 156 739
T 35/49/80	1477	1.2	22 156 740
2-length trunking			
T 2x28/54	2354	1.9	22 156 741
T 2x35/49/80	2954	2.4	22 156 742
3-length trunking			
T 3x28/54	3531	2.9	22 156 743
T 3x35/49/80	4431	3.6	22 156 744

Please order end-cap set, wiring components and connectors separately.



To specify e.g.: *RTX II trunking units* T 28/54 22 156 739

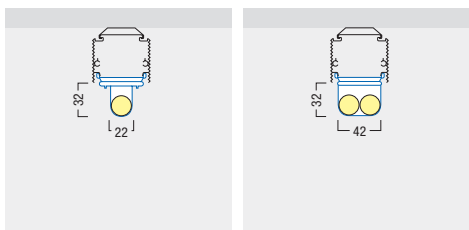
RTX II continuous row luminaires



T16 850 °C

Continuous row luminaires

- Roll-formed sheet steel with white polyester resin enamel coating
- Attractive closure with preassembled transparent lampholder shells fitted with T16 lampholders
- Phase selection on connector for 3 phase loops
- No-tool electrical and physical connection to trunking unit
- Fastened using "CLIX" mechanism, with retractable, easy-to-use rotary toggles
- "Dimmable DALI" luminaires are fitted with a DALI-controllable electronic ballast



Cat. no.	L/W/H	kg	Order no.	Order no.
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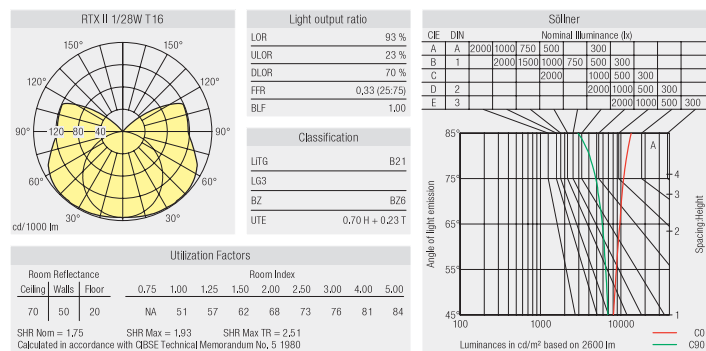
1-lamp with electronic ballast

1/28 W	1/35 W	1/49 W *	1/54 W	1/80 W	electronic dimmable Dali
1177/49/37	1477/49/37	1477/49/37	1177/49/37	1477/49/37	42 156 745 42 157 181 42 156 747 42 157 182 42 156 751 42 157 186 42 156 749 42 157 185 42 156 753 42 157 187

Twin-lamp with electronic ballast

2/28 W	2/35 W	2/49 W *	2/54 W	electronic dimmable Dali
1177/49/37	1477/49/37	1477/49/37	1177/49/37	42 156 746 42 157 183 42 156 748 42 157 184 42 156 752 42 157 189 42 156 750 42 157 188

* Dimmable luminaire (can only be controlled with DALI signal).



RTX II SPIRIT spotlight



OPAR20 G110 OPAR-CB20 G210 0,7 m 960 °C

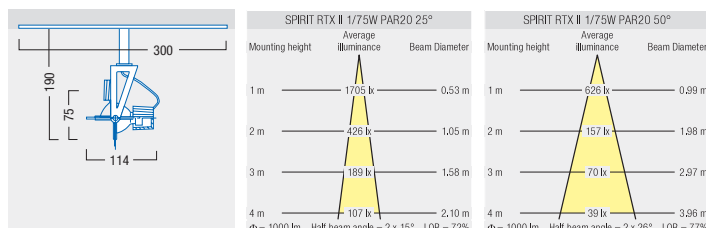
Spotlight for RTX II

- Lampholder housing made of die-cast aluminium
- Spotlight and electrical system can be mounted as a complete unit by means of the Clix mechanism
- Consistent aluminium look and flush closure within system
- Lampholder: GZ 10
- Rotates through 365°, pivots through ± 90°

Cat. no.	L/W/H	kg	Order no.
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Spotlight for RTX II

1/75 W PAR 20/PAR-CB 20	300/95/190	0,4	60 710 117
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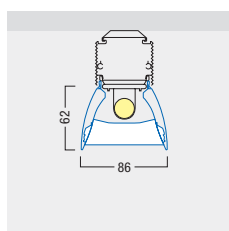
RTX II D highly specular darklight BIVERGENT reflector optic



T16 850 °C

Louvre for 1-lamp and 2-lamp luminaires

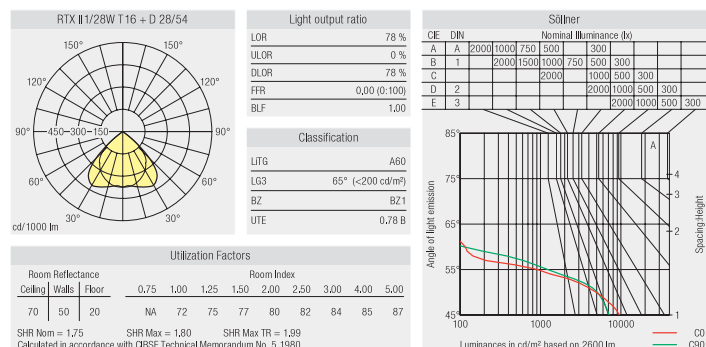
- BIVERGENT darklight reflector optic in highly specular anodised aluminium
- Single- and twin-lamp louvre in same cross-section
- Purely direct light distribution characteristics
- Glare limitation for DSE L < 1,000 cd/m² at 65°. For details, please refer to the current CD-ROM.
- Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs



Cat. no.	L	kg	Order no.
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Darklight reflector optic

D 28/54	1177	0,5	22 156 757
D 35/49/80	1477	0,6	22 156 758



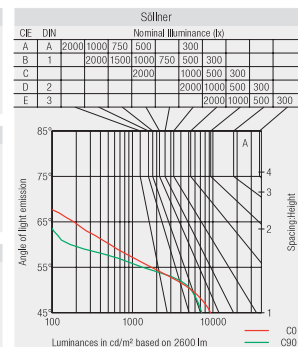
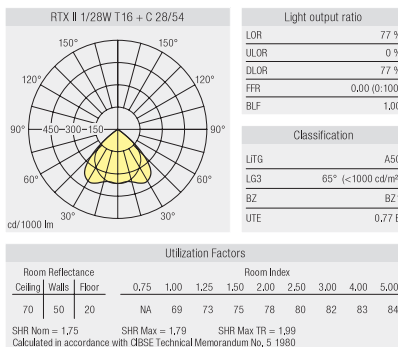
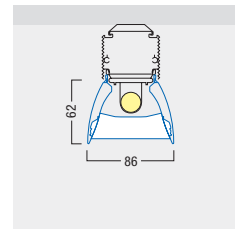
To specify e.g.: RTX II continuous row luminaires 1/28 W 42 157 181

RTX II C matt BIVERGENT reflector



- Louvre for 1-lamp and 2-lamp luminaires
- Matt bivergent reflector optic in aluminium with a matt anodised finish
 - Single- and twin-lamp louvre in same cross-section
 - Purely direct light distribution characteristics
 - Glare limitation for DSE $L < 1,000 \text{ cd/m}^2$ at 65° . For details, please refer to the current CD-ROM.
 - Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L	kg	Order no.
Matt bivergent reflector optic			
C 28/54	1177	0.5	22 156 755
C 35/49/80	1477	0.6	22 156 756

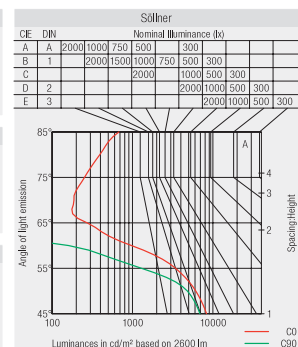
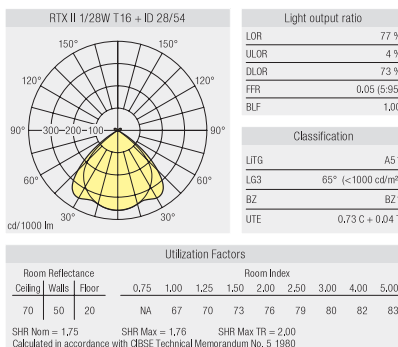
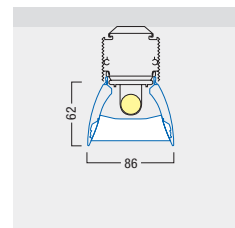


RTX II C I/D indirect/direct



- Louvre for 1-lamp and 2-lamp luminaires
- Matt bivergent reflector optic in aluminium with a matt anodised finish
 - Direct light beam characteristics with ceiling illumination via perforated louvre side pieces
 - Single- and twin-lamp louvre in same cross-section
 - Glare reduction for DSE $L < 1000 \text{ cd/m}^2$ at 65° : 1/28 W; 1/35 W; 1/54 W; 1/49 W; 2/28 W; 2/35 W for details see current CD-ROM
 - Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L/W/H	kg	Order no.
Indirect/direct louvre			
C I/D 28/54	1177/86/62	0.5	22 156 759
C I/D 35/49/80	1477/86/62	0.6	22 156 760

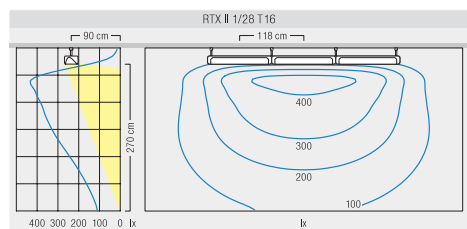
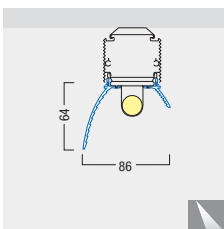


RTX II WW wallwasher optic



- Optic for 1-lamp and 2-lamp luminaires
- 1-lamp and 2-lamp wallwasher optic in same cross-section
 - Asymmetrical light distribution characteristics
 - Wallwasher made of anodised aluminium, with stepped reflector
 - Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L	kg	Order no.
Wallwasher			
WW 28/54	1177	1.0	22 156 761
WW 35/49/80	1477	1.2	22 156 762



To specify e.g.: RTX II C matt BIVERGENT reflector C 28/54 22 156 755

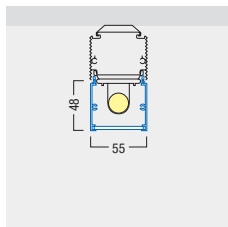
RTX II Artline



T16 650 °C

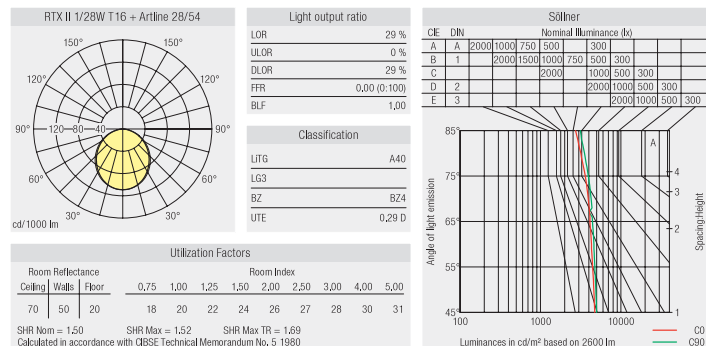
Optic for 1-lamp luminaires

- Decorative optic made of natural anodised aluminium extrusion, with central controller in diffuser-pearl material
- Symmetrical light distribution characteristics
- Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

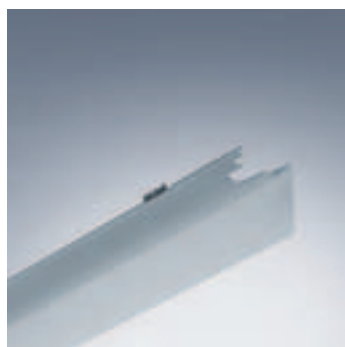


Cat. no.	L	kg	Order no.
Artline			
Artline 1/28/54	1177	1.0	22 156 769
Artline 1/35/49/80	1477	1.3	22 156 770

For a flush finish, the Artline end-cap set must be ordered separately.



RTX II WW Artline

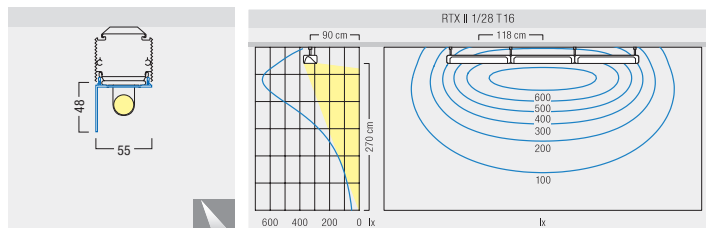


T16 650 °C

Optic for 1-lamp luminaires

- Decorative optic in aluminium extrusion, natural anodised finish
- Asymmetrical light distribution characteristics
- Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L/W/H	kg	Order no.
Artline wallwasher			
Artline-WW 1/28/54	1177/55/48	0.5	22 156 771
Artline-WW 1/35/49/80	1477/55/48	0.7	22 156 772



RTX II ET end-cap set trunking



End-cap set

- Made of aluminium in a natural anodised finish
- Fixed to trunking using 2 torque screws supplied

Cat. no.	Order no.
End caps	
ET Set	22 128 084

Please order end-cap set separately (1 set = 2 end caps with 4 torque screws).

RTX II Artline end-cap set



Artline end-cap set

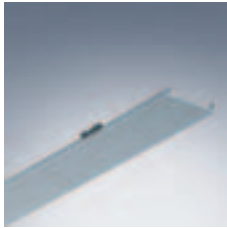
- Front-end cover for closing symmetrical Artline optic flush with trunking
- Fixed using 2 torque screws

Cat. no.	Order no.
End caps	
E Artline Set (pair)	22 157 147

Please order end-cap set separately (1 set = 2 end caps).

To specify e.g.: RTX II Artline Artline 1/28/54 22 156 769

RTX II cover section



- Cover section**
- Made of extruded aluminium section, natural anodised finish
 - Mounted to trunking by means of CLIX mechanism, via 2 pre-assembled springs

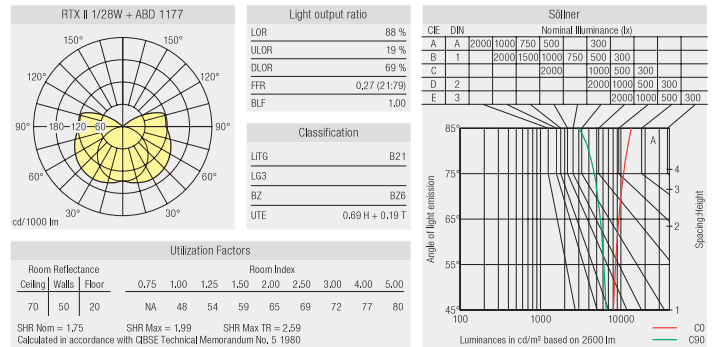
Cat. no.	L/W/H	kg	Order no.
Cover section			
ABD 1177	1177/55/52	0.3	22 156 773
ABD 1477	1477/55/52	0.4	22 156 774
ABD 589	590/55/52	0.2	22 156 775
ABD 739	740/55/52	0.2	22 156 776

RTX II cover section individual batten luminaire

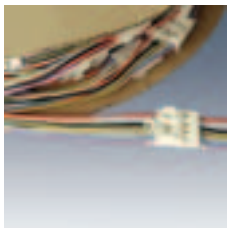


- Cover section for lighting insert**
- Made of extruded aluminium section, natural anodised finish
 - For use as individual batten luminaire with open light distribution
 - 1-lamp and 2-lamp cover identical

Cat. no.	L/W/H	kg	Order no.
Cover section			
ABD 1177	1177/55/52	0.3	22 157 145
ABD 1477	1477/55/52	0.4	22 157 146



RTX II through-wiring

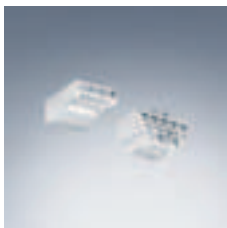


- Continuous row through-wiring**
- Continuous row system through-wiring without conductor interfaces for greater electrical safety
 - Heat-resistant up to 105 °C
 - 3 phase loops and 1 control loop
 - Only from the reel (number of luminaires required = number of through-wirings required)

Cat. no.	Order no.
Through-wiring	
DV 7x1.5 mm ² 28/54	22 156 777
DV 7x1.5 mm ² 35/49/80	22 156 781

Please order feed-in set separately.

RTX II E feed-in set



- Feed-in set**
- 7-pole terminal block and insulator

Cat. no.	Order no.
Feed-in set	
E Set	22 156 782

For continuous row system and row system with gaps, the feed-in set must be ordered separately. With individual luminaires, the feed-in set is included in the supply.

RTX II wiring for individual luminaires



- Wiring for individual luminaire**
- Heat-resistant up to 105 °C
 - 1 phase loop and 1 control loop

Cat. no.	Order no.
Individual luminaire wiring	
EV 5x1.5 mm ² 28/54	22 066 685
EV 5x1.5 mm ² 35/49/80	22 156 783

Feed-in set included in wiring.

To specify e.g.: RTX II cover section ABD 1177 22 156 773

RTX II connectors

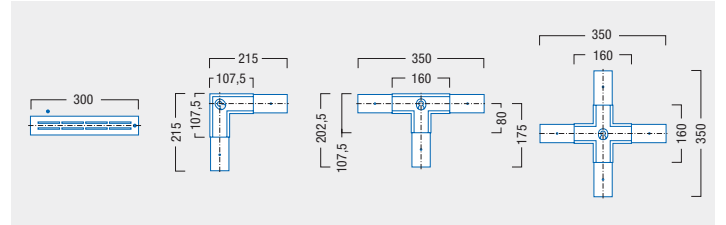


Connector

- Straight connector, galvanised
- L, T and X connectors made of mitred aluminium extrusions, galvanised load-bearing element
- Feed possible in area of angle

Cat. no.		kg	Order no.
LV	L-connector anodized	0.5	22 156 793
TV	T-connector anodized	0.6	22 156 794
XV	X-connector anodized	0.8	22 156 795
V	Straight connector Zinc	0.3	22 156 792

Please order connectors separately.



RTX II ASI cord suspension with ceiling rose, white/silver

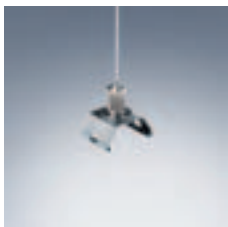


Cord suspension for RTX II luminaires

- Elliptical ceiling rose made of plastic, with terminal device for 6 poles and earth
- Made of galvanised steel cord
- Diameter: 1.8 mm
- Cord suspension and ceiling bracket are nickel-plated
- V2A spring clip
- Continuous height adjustment
- Fastening spring made of stainless steel
- Maximum spacing 2 m

Cat. no.		L	Order no.
Suspension cord, white			
ASI1000		1000	22 156 788
ASI2000		2000	22 156 789
Suspension cord, silver			
ASI1000		1000	22 157 368
ASI2000		2000	22 157 369

RTX II ASI cord suspension



Cord suspension for RTX II luminaires

- Made of galvanised steel cord
- Diameter: 1.8 mm
- Cord suspension and ceiling bracket are nickel-plated
- V2A spring clip
- Continuous height adjustment
- Fastening spring made of stainless steel
- Maximum spacing 2 m

Cat. no.		L	Order no.
Cord suspension			
TECTON ASI 1000 mm O-L		1000	22 128 443
TECTON ASI 2000 mm O-L		2000	22 128 459

RTX II AD ceiling bracket

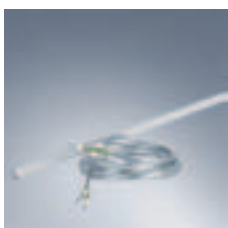


Ceiling bracket

- Fastening spring made of stainless steel
- Fastened to trunking using "CLIX" mechanism
- Maximum spacing 2 m

Cat. no.		L/W/H	Order no.
TECTON AD		28/42/9	22 128 005

RTX II transparent feed cable



Cat. no.		L	Order no.
Transparent feed cable			
3x0.75	1.0 m transparent	1000	42 120 919
3x0.75	1.5 m transparent	1500	42 120 900
3x0.75	10.0 m transparent	10000	22 127 714
5x0.75	1.0 m transparent	1000	22 125 146
5x0.75	1.5 m transparent	1500	22 125 152
5x0.75	10.0 m transparent	10000	22 127 720

Please note: The transparent feed cable is only suitable for connection of 1 luminaire. For through-wiring, 1.5 mm² must be used for safety reasons.

To specify e.g.: RTX II connectors LV 22 156 793

**INDUSTRY
AND ENGINEERING**



**SPORT
AND LEISURE**



**TRANSIT AREAS
AND CAR PARKS**



**OFFICES
AND EDUCATION**



**PRESENTATION
AND RETAIL**



**HOTELS
AND CATERING**



**ART
AND CULTURE**



**HEALTH &
CARE**



Throughout the world, Zumtobel Staff is the competent reliable partner for innovative lighting solutions in all areas of application of professional interior lighting:

- Industry and Engineering
- Sport and Leisure
- Transit areas and Car parks
- Offices and Education
- Presentation and Retail
- Hotels and Catering
- Art and Culture
- Health & Care
- Orientation and Safety
- Active Light

With production plants in Austria, Germany, Australia and the USA, and sales organisations in all major European markets as well as commercial agencies in most regions of the world, Zumtobel Staff is one of the biggest international enterprises in the lighting sector.

As a leader in innovation, we guarantee our customers global competence in lighting consulting and design assistance, superior product quality and future-proof technologies – from individual luminaires to electronic lighting management systems.

Corporate goal: We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment.



Track and spots

Lighting systems

Downlights/uplights

Recessed luminaires

Surface-mounted and pendant luminaires

Wallwashers

Uplights, wall lights and task lights

Batten luminaires and continuous row luminaires

High-bay reflector luminaires

Luminaires of higher protection

Lighting management

Emergency lighting

Hospital trunking

United Kingdom

Zumtobel Staff Lighting Ltd.
 Unit 4 - The Argent Centre,
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 Hayes/Middlesex UB3 3BL
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Flex

page 1 of 8

DATE

TYPE



The Flex can be specified as a single, double, triple or quad configuration. Multiple arm and extension designs are available. (quad shown)

Architectural Area Lighting

14249 Artesia Blvd / La Mirada, CA 90638
714.994.2700 / fax 714.994.0522 / www.aal.net
Ref: Flex.pdf copyright 2005, design patented

FIXTURE	BALLAST	COLOR	OPTIONS	ARM	POLE
1	2	3	4	5	6
EXAMPLES					
FH3	PSB250	BLK	•	LS5XP	PR5-5R20
2-FH5	100MH	MAT	•	TSC4	PR4-4R16, BC5-4
FH2	150MH	CRT	LDL	WSSEP	•

1	FIXTURE
<input type="checkbox"/>	FH2 Type 2 horizontal (semi specular reflector for T-6 & ED-17 lamps, specular reflector for ED-28 lamps)
<input type="checkbox"/>	FH3 Type 3 horizontal (semi specular reflector for T-6 & ED-17 lamps, specular reflector for ED-28 lamps)
<input type="checkbox"/>	FH4 Type 4 horizontal (semi specular reflector for T-6 & ED-17 lamps, specular reflector for ED-28 lamps)
<input type="checkbox"/>	FH5 Type 5 horizontal (semi specular reflector for T-6 & ED-17 lamps, specular reflector for ED-28 lamps)
<input type="checkbox"/>	70MH 70 watt metal halide 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	70MHEB 70 watt electronic metal halide ballast, 120 or 277 volt. Use clear ED-17 lamps.
<input type="checkbox"/>	70MHT6 70 watt metal halide 120/277 volt ballast. Uses a G12 base, clear T-6 lamp.
<input type="checkbox"/>	70MHT6EB 70 watt electronic metal halide ballast, 120 or 277 volt. Uses a G12 base, clear T-6 lamp.
<input type="checkbox"/>	100MH 100 watt metal halide 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	150MH 150 watt metal halide 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	150MHEB 150 watt electronic metal halide ballast, 120 or 277 volt. Use clear ED-17 lamps.
<input type="checkbox"/>	150MHT6 150 watt metal halide 120/208/240/277 volt ballast. Uses a G12 base, T-6 MH lamp.
<input type="checkbox"/>	150MHT6EB 150 watt electronic metal halide ballast, 120 or 277 volt. Uses a G12 base, T-6 MH lamp.
<input type="checkbox"/>	175MH 175 watt metal halide 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	250MH 250 watt metal halide 120/208/240/277 volt ballast. Use clear ED-28 pin oriented lamps.
<input type="checkbox"/>	400MH 400 watt metal halide 120/208/240/277 volt ballast. Use clear ED-28 pin oriented lamps. For pole mounted fixtures only.
<input type="checkbox"/>	250PSMH Pulse start ballast for 250 watt, horizontal burning, pulse start metal halide lamp - mogul base ED-28 (M135). 120/208/240/277 volt.
<input type="checkbox"/>	400PSMH Pulse start ballast for 400 watt, horizontal burning, pulse start metal halide lamp - mogul base ED-28 (M138). 120/208/240/277 volt. For pole mounted fixtures only.
<input type="checkbox"/>	70HPS 70 watt high pressure sodium 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	100HPS 100 watt high pressure sodium 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	150HPS 150 watt high pressure sodium 120/208/240/277 volt ballast. Use clear ED-17 lamps.
<input type="checkbox"/>	200HPS 200 watt high pressure sodium 120/208/240/277 volt ballast. Use clear ED-18 lamps.
<input type="checkbox"/>	250HPS 250 watt high pressure sodium 120/208/240/277 volt ballast. Use clear ED-18 lamps.
<input type="checkbox"/>	400HPS 400 watt high pressure sodium 120/208/240/277 volt ballast. Use clear ED-18 lamps. For pole mounted fixtures only.

NOTE: All ballasts are factory wired for 277 volts.

SOLD TO	PO #	JOB NAME
/	/	/

Approvals



HSS

HOUSE SIDE SHIELD
House side shield to cutoff light behind the pole and shield the lamp from view.



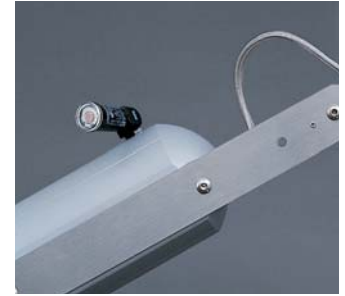
LDL

LIGHTLY DIFFUSED LENS
Frosted, flat glass lens has a lightly diffused finish to minimize the lamp and reflector brightness.



RCK

ROCK GUARD
Rock guard factory installed on the lens frame, black finish.



BPC12 120 volt

BPC27 208/240/277 volt

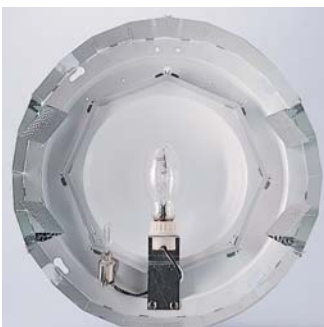
PHOTOCELL
Button type photocell with adjustable swivel for aiming. Requires field wiring.

ELECTRICAL OPTIONS

347 120/277/347 volt ballast option for metal halide and high pressure sodium lamps.

EGRESS AND EMERGENCY OPTIONS

Egress lighting codes require an illuminated path to allow occupants to get a safe distance from the building during a power failure or other emergency. In conjunction with the proper wiring, these two options can be implemented to provide egress lighting.



QRS

RESTRIKE CONTROLLER
Quartz restrike controller and socket for a T-4 mini-cand halogen lamp, maximum 150 watt. Not for use with electronic metal halide ballasts.



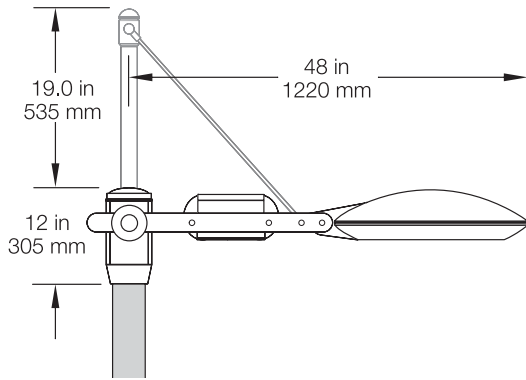
QL

HALOGEN LAMP CIRCUIT
Socket for a T-4 mini-cand halogen lamp, maximum 150 watt. Must be field wired to a separate 120 volt circuit.

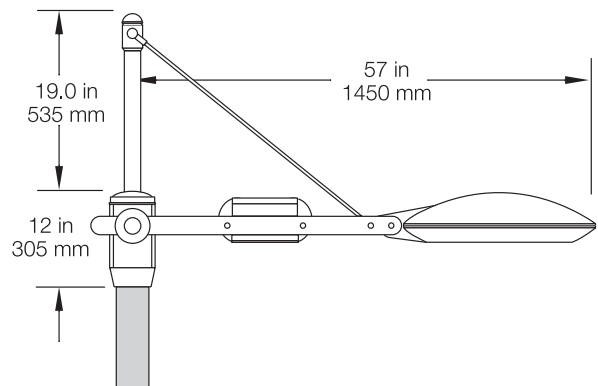
COLORS

- WHT** White
- LGY** Light Grey
- MAL** Matte Aluminum
- MDG** Medium Grey
- ATG** Antique Green
- VGR** Verde Green
- WRZ** Weathered Bronze
- DGN** Dark Green
- CRT** Corten
- BRM** Metallic Bronze
- DBZ** Dark Bronze
- BLK** Black
- MTB** Matte Black
- RAL #:**
- CUSTOM:**

SHORT STRAIGHT ARM - SS



LONG STRAIGHT ARM - LS



SHORT STRAIGHT ARM - SS

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> SS4	short straight arm, slips over a 4"/100mm pole	52	1.85
<input type="checkbox"/> SS5	short straight arm, slips over a 5"/127mm pole	52	1.85
<input type="checkbox"/> TSS4	twin, short straight arm slips over a 4"/100mm pole	98	3.27
<input type="checkbox"/> TSS5	twin, short straight arm slips over a 5"/127mm pole	98	3.27
<input type="checkbox"/> PSS4	3-way, short straight arm - T configuration, arm in the horizontal position only, slips over a 4"/100mm pole	144	4.75
<input type="checkbox"/> PSS5	3-way, short straight arm - T configuration, arm in the horizontal position only, slips over a 5"/127mm pole	144	4.75
<input type="checkbox"/> QSS4	4-way, short straight arm, slips over a 4"/100mm pole	190	4.72
<input type="checkbox"/> QSS5	4-way, short straight arm, slips over a 5"/127mm pole	190	4.72

LONG STRAIGHT ARM - LS

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> LS4	long straight arm, slips over a 4"/100mm pole	52	1.85
<input type="checkbox"/> LS5	long straight arm, slips over a 5"/127mm pole	52	1.85
<input type="checkbox"/> TLS4	twin, long straight arm slips over a 4"/100mm pole	98	3.27
<input type="checkbox"/> TLS5	twin, long straight arm slips over a 5"/127mm pole	98	3.27
<input type="checkbox"/> PLS4	3-way, long straight arm - T configuration, arm in the horizontal position only, slips over a 4"/100mm pole	144	4.75
<input type="checkbox"/> PLS5	3-way, long straight arm - T configuration, arm in the horizontal position only, slips over a 5"/127mm pole	144	4.75
<input type="checkbox"/> QLS4	4-way, long straight arm, slips over a 4"/100mm pole	190	4.72
<input type="checkbox"/> QLS5	4-way, long straight arm, slips over a 5"/127mm pole	190	4.72

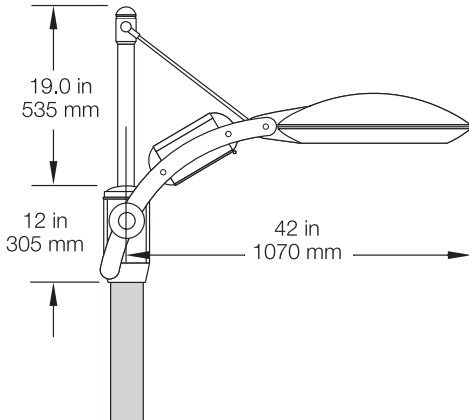
SHORT STRAIGHT ARM WITH EXTENSION - SS XP

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> SS4XP	short straight arm, with an extended post slips over a 4"/100mm pole	56	2.25
<input type="checkbox"/> SS5XP	short straight arm with an extended post slips over a 5"/127mm pole	56	2.25
<input type="checkbox"/> TSS4XP	twin short straight arm with an extended post slips over a 4"/100mm pole	106	3.68
<input type="checkbox"/> TSS5XP	twin short straight arm, with an extended post slips 5"/127mm pole	106	3.68
<input type="checkbox"/> PSS4XP	3-way - T configuration, short straight arm, with an extended post slips over a 4"/100mm pole	156	5.35
<input type="checkbox"/> PSS5XP	3-way - T configuration, short straight arm, with an extended post slips 5"/127mm pole	156	5.35
<input type="checkbox"/> QSS4XP	4-way short straight arm, with an extended post slips over a 4"/100mm pole	206	5.12
<input type="checkbox"/> QSS5XP	4-way short straight arm, with an extended post slips over a 5"/127mm pole	206	5.12

LONG STRAIGHT ARM WITH EXTENSION - LS XP

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> LS4XP	long straight arm, with an extended post slips over a 4"/100mm pole	56	2.25
<input type="checkbox"/> LS5XP	long straight arm with an extended post slips over a 5"/127mm pole	56	2.25
<input type="checkbox"/> TLS4XP	twin long straight arm with an extended post slips over a 4"/100mm pole	106	3.68
<input type="checkbox"/> TLS5XP	twin long straight arm, with an extended post slips 5"/127mm pole	106	3.68
<input type="checkbox"/> PLS4XP	3-way -T configuration, long straight arm, with an extended post slips over a 4"/100mm pole	156	5.35
<input type="checkbox"/> PLS5XP	3-way - T configuration, long straight arm, with an extended post slips 5"/127mm pole	156	5.35
<input type="checkbox"/> QLS4XP	4-way long straight arm, with an extended post slips over a 4"/100mm pole	206	5.12
<input type="checkbox"/> QLS5XP	4-way long straight arm, with an extended post slips over a 5"/127mm pole	206	5.12

SHORT CURVED ARM - SC



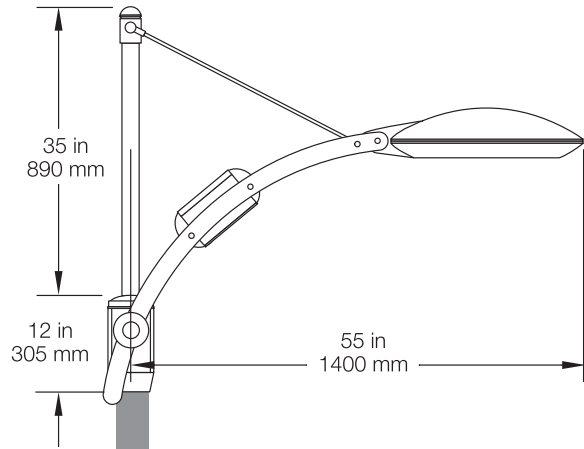
SHORT CURVED ARM - SC

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> SC4	short curved arm, slips over a 4"/100mm pole	52	1.85
<input type="checkbox"/> SC5	short curved arm, slips over a 5"/127mm pole	52	1.85
<input type="checkbox"/> TSC4	twin, short curved arm slips over a 4"/100mm pole	98	3.27
<input type="checkbox"/> TSC5	twin, short curved arm slips over a 5"/127mm pole	98	3.27
<input type="checkbox"/> PSC4	3-way - T configuration, short curved arm slips over a 4"/100mm pole	144	4.75
<input type="checkbox"/> PSC5	3-way - T configuration, short curved arm slips over a 5"/127mm pole	144	4.75
<input type="checkbox"/> QSC4	4-way, short curved arm slips over a 4"/100mm pole	190	4.72
<input type="checkbox"/> QSC5	4-way, short curved arm slips over a 5"/127mm pole	190	4.72

SHORT CURVED ARM WITH EXTENSION - SC XP

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> SC4XP	short curved arm, with an extended post slips over a 4"/100mm pole	56	2.25
<input type="checkbox"/> SC5XP	short curved arm with an extended post slips over a 5"/127mm pole	56	2.25
<input type="checkbox"/> TSC4XP	twin short curved arm, with an extended post slips over a 4"/100mm pole	106	3.68
<input type="checkbox"/> TSC5XP	twin short curved arm, with an extended post slips 5"/127mm pole	106	3.68
<input type="checkbox"/> PSC4XP	3-way - T configuration, short curved arm, with an extended post slips over a 4"/100mm pole	156	5.35
<input type="checkbox"/> PSC5XP	3-way - T configuration, short curved arm, with an extended post slips 5"/127mm pole	156	5.35
<input type="checkbox"/> QSC4XP	4-way short curved arm, with an extended post slips over a 4"/100mm pole	206	5.12
<input type="checkbox"/> QSC5XP	4-way short curved arm, with an extended post slips over a 5"/127mm pole	206	5.12

LONG CURVED ARM - LC



LONG CURVED ARM - LC

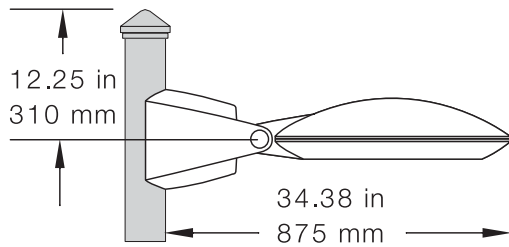
CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> LC4	long curved arm, slips over a 4"/100mm pole	52	1.85
<input type="checkbox"/> LC5	long curved arm, slips over a 5"/127mm pole	52	1.85
<input type="checkbox"/> TLC4	twin, long curved arm slips over a 4"/100mm pole	98	3.27
<input type="checkbox"/> TLC5	twin, long curved arm slips over a 4"/100mm pole	98	3.27
<input type="checkbox"/> PLC4	3-way - T configuration, long curved arm slips over a 4"/100mm pole	144	4.75
<input type="checkbox"/> PLC5	3-way - T configuration,, long curved arm slips over a 5"/127mm pole	144	4.75
<input type="checkbox"/> QLC4	4-way, long curved arm slips over a 4"/100mm pole	190	4.72
<input type="checkbox"/> QLC5	4-way, long curved arm slips over a 5"/127mm pole	190	4.72

LONG CURVED ARM WITH EXTENSION - LC XP

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> LC4XP	long curved arm, with an extended post slips over a 4"/100mm pole	56	2.25
<input type="checkbox"/> LC5XP	long curved arm with an extended post slips over a 5"/127mm pole	56	2.25
<input type="checkbox"/> TLC4XP	twin long curved arm, with an extended post slips over a 4"/100mm pole	106	3.68
<input type="checkbox"/> TLC5XP	twin long curved arm, with an extended post slips over a 5"/127mm pole	106	3.68
<input type="checkbox"/> PLC4XP	3-way - T configuration, long curved arm, with an extended post slips over a 4"/100mm pole	156	5.35
<input type="checkbox"/> PLC5XP	3-way - T configuration, long curved arm, with an extended post slips 5"/127mm pole	156	5.35
<input type="checkbox"/> QLC4XP	4-way long curved arm, with an extended post slips over a 4"/100mm pole	206	5.12
<input type="checkbox"/> QLC5XP	4-way long curved arm, with an extended post slips over a 5"/127mm pole	206	5.12

Architectural Area Lighting

FIXED ARM - FA

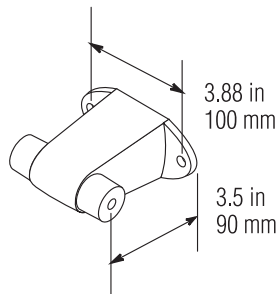


SHORT STRAIGHT ARM - SS

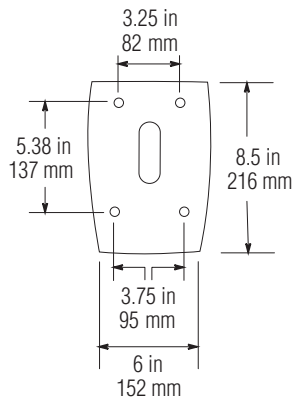
CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> FA4	fixed arm, attaches to the side of a 4"/100mm pole	55	1.0
<input type="checkbox"/> FA5	fixed arm, attaches to the side of a 5"/127mm pole	55	1.0

* Two individual arms can be mounted to a pole at a 180 degree orientation.

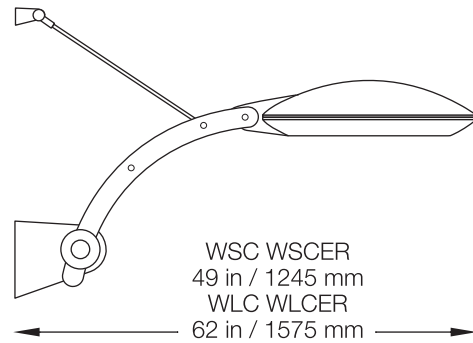
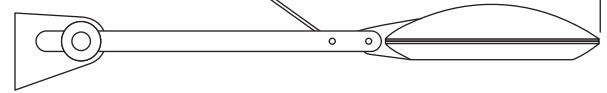
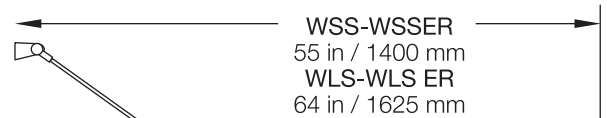
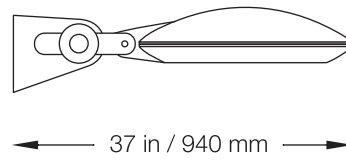
EXTENSION ROD PLATE



WALL MOUNTED BALLAST HOUSING



WALL MOUNT ARMS - W



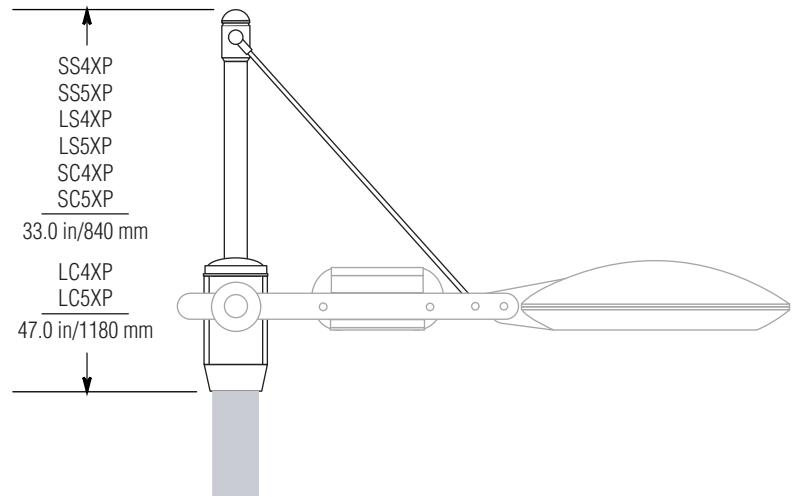
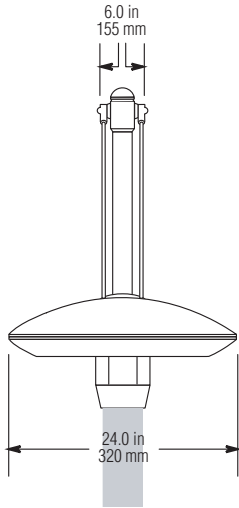
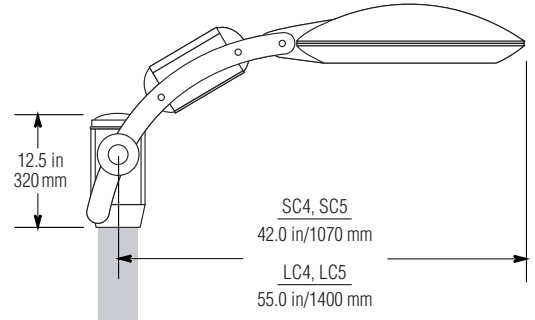
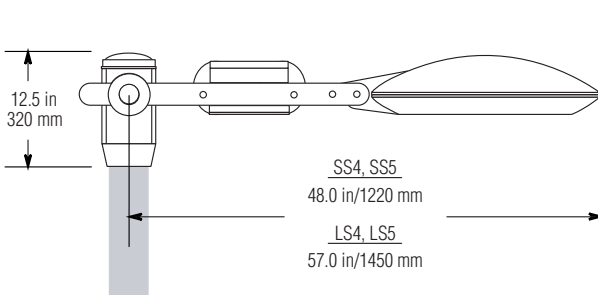
WALL MOUNT ARM - W

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> WVSS	very short straight arm	48	.75
<input type="checkbox"/> WSS	short straight arm	53	1.23
<input type="checkbox"/> WLS	long straight arm	55	1.55
<input type="checkbox"/> WSC	short curved arm	53	1.23
<input type="checkbox"/> WLC	long curved arm	56	1.55

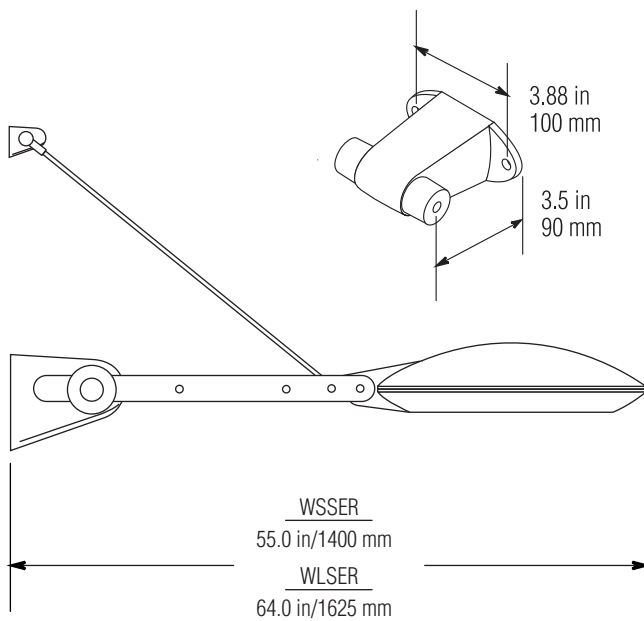
WALL MOUNT ARM WITH EXTENSION ARM - W ER

CAT NO	DESCRIPTION	WT	EPA
<input type="checkbox"/> WSSER	short straight arm with extension rods and wall plate	50	.85
<input type="checkbox"/> WLSER	long straight arm with extension rods and wall plate	57	1.65
<input type="checkbox"/> WSCER	short curved arm with extension rods and wall plate	55	.85
<input type="checkbox"/> WLCER	long curved arm with extension rods and wall plate	58	1.65

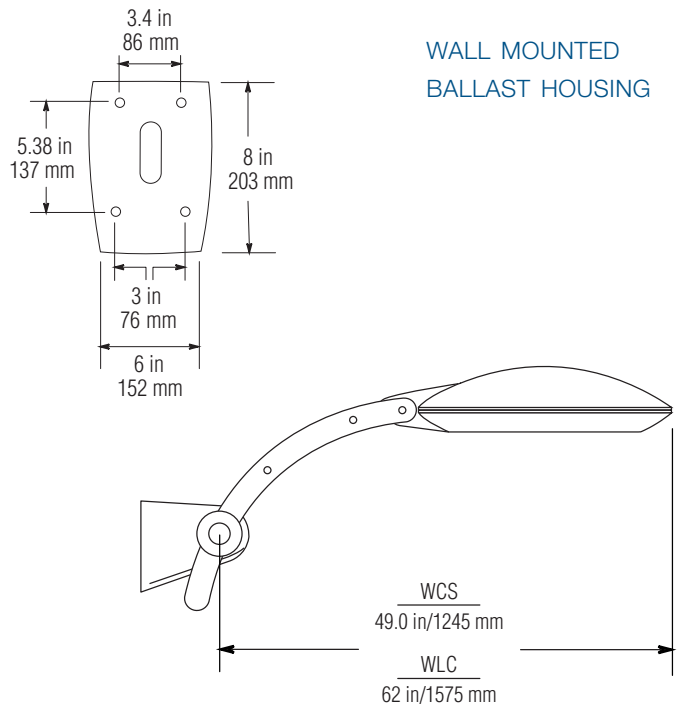
* For extended rod configurations, to properly mount the arm and wall plate, hardware shall be provided by others.



EXTENSION ROD PLATE



WALL MOUNTED BALLAST HOUSING



Architectural Area Lighting

SPECIFICATIONS

LAMP MODULE

The lamp housing shall be two piece die cast aluminum. The internal reflector module is sealed from the outer housing with a molded silicone gasket. Two push button latches release the hinged door that swings down to allow access to the lamp. The lamp module shall be attached to the arm module with four stainless steel bolts.

The reflector module shall be composed of faceted, specular and semi specular anodized aluminum panels rigidly attached in an aluminum tray. The reflector tray shall be aluminum. The reflector shall be easily removed by loosening four screws and lifting it out the tray. The reflector tray shall be rotatable on 90° centers for orienting the light distribution. The reflectors shall meet ANSI-IES standards for full cutoff reflector systems.

BALLAST MODULE

The ballast housing shall be two piece die cast aluminum. The ballast door shall swing down for servicing by loosening two captive bolts. The door shall be removable by a lift and shift motion. The ballast shall be mounted on a prewired tray with a quick disconnect plug and removed by loosening two captive screws. HID ballasts are high power factor, rated for -30°F starting. Electronic ballasts for metal halide lamps are sound rated A. Sockets are medium base for ED-17 lamps, G12 for use with T6 lamps, mogul base for ED-18 high pressure sodium lamps and position oriented (POMB) sockets for 250 (M58, ED28) and 400 (M59, ED28) watt metal halide lamps. Pulse start lamps, 250 (M138, ED28) or 400 (M135, ED28) watt metal halide shall use a mogul base with the optional pulse start ballast. All sockets are pulse rated porcelain. Ballasts are multi-tap, wired at the factory for 277 volts.

ARM MODULE

The arm module shall consist of two stainless steel rails that attach to the lamp module, ballast module and post top (or wall mounted) module. The cables between modules shall be sheathed in a flexible stainless steel hose with stainless steel fittings. The extended post arms shall have a cast post extension and top cap with two stainless steel tubes. The tubes shall be field trimmed to fit straight arms that are pivoted up 30°.

INSTALLATION & MOUNTING

The Flex shall be factory supplied as a complete, prewired assembly including the lamp module, ballast, arm and post top (or wall mounted). The post top shall slip over a 4"/100mm or 5"/125mm open top pole and be secured with six stainless steel set screws. The set screws are also used to level the assembly on the pole.

FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

The fixture shall be listed with ETL for outdoor, wet location use. Conforms to UL1598 and Canadian CSA Std. C22.2 No.250. IP=65.

WARRANTY

Fixture shall be warranted for three years. Ballast components carry the ballast manufacturer's limited warranty.

AAL Concrete Bollards

Architectural Area Lighting concrete bollards are designed to be sensitive to the physical and aesthetic environment. The natural materials harmonize with virtually any site design. Available in many sizes, shapes, heights and finishes to compliment any site design. Standard surface treatments include natural colored concrete with an etched finish or exposed aggregate. Options include custom colors, tile, signage and logos.

AAL concrete bollards are maintenance free due to their inherent strength and natural finishes. The reinforced concrete bases and tops, matched with cast aluminum grills make the bollards virtually indestructible. These bollards are highly resistant to abuse and inadvertent damage from grounds keeping. The concrete surfaces are treated with an anti-graffiti coating to minimize damage from vandals.



CB9R

FIXTURE/SHAPE 1/2	OAH 3	GRILL 4	TOP 5	BALLAST 6	FINISH 7	COLOR 8	MOUNTING 9	OPTIONS 10
----------------------	----------	------------	----------	--------------	-------------	------------	---------------	---------------

3 OAH 4 GRILL 5 TOP WT (LBS.)

<input type="checkbox"/> 24	8" CUTOFF	FLAT	120
<input type="checkbox"/> 36	8" CUTOFF	FLAT	140
<input type="checkbox"/> 42	8" CUTOFF	FLAT	160
<input type="checkbox"/> 26	8" CUTOFF	DOME	120
<input type="checkbox"/> 38	8" CUTOFF	DOME	140
<input type="checkbox"/> 42	8" CUTOFF	DOME	160

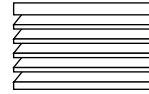
<input type="checkbox"/> 26	12" CUTOFF	FLAT	130
<input type="checkbox"/> 38	12" CUTOFF	FLAT	150
<input type="checkbox"/> 44	12" CUTOFF	FLAT	170
<input type="checkbox"/> 26	12" CUTOFF	DOME	130
<input type="checkbox"/> 38	12" CUTOFF	DOME	150
<input type="checkbox"/> 44	12" CUTOFF	DOME	170

6 BALLAST

<input type="checkbox"/> 50MH	50 watt metal halide ballast, 120/277 volt. Use medium base, clear ED-17 lamps.
<input type="checkbox"/> 70MH	70 watt metal halide ballast, 120/208/240/277 volt. Use medium base, clear ED-17 lamps.
<input type="checkbox"/> 100MH	100 watt metal halide 120/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.
<input type="checkbox"/> 50HPS	50 watt high pressure sodium 120/277 volt ballast. Use medium base, clear ED-17 lamps.
<input type="checkbox"/> 70HPS	70 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.
<input type="checkbox"/> 100HPS	100 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.

GRILL REFERENCE

Cutoff



7 FINISH

- MSB Medium Sandblast finish
- AGR Exposed Aggregate finish

8 COLOR OF GRILL

- WHT white
- BLK black
- MTB matte black
- DGN dark green
- DBZ dark bronze
- WRZ weathered bronze
- BRM metallic bronze
- VGR verde green
- CRT corten
- MAL matte aluminum
- MDG medium grey
- ATG antique green
- LGY light warm gray
- CUSTOM/RAL: _____
- OTHER: _____

SOLD TO

PO #

JOB NAME

Approvals

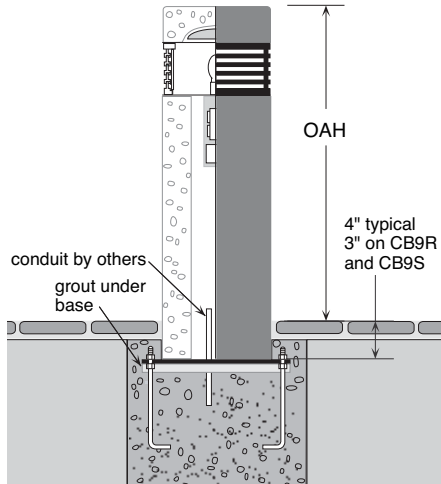
Architectural Area Lighting

14249 Artesia Blvd / La Mirada, CA 90638
714 994.2700 / fax 714 994.0522 / www.aal.net

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9 MOUNTING

EXTERNAL MOUNTING



10 OPTIONS

- Tile** _____
- Logos/Signage** _____
- Colored Concrete**
From Davis color chart only _____
- RBC - a single gang junction box, cast in place, weather proof cover only.**

INTERNAL OPTION

- HSS** House side shield (Contact Factory for Option Details)

SPECIFICATIONS

Concrete body and cap

The body and caps are composed of precast concrete reinforced with an internal cage structure of steel. The concrete bodies are one piece castings with a minimum wall thickness of three inches. All threaded inserts are welded to the steel reinforcing cage and cast in place. The base plate for anchoring is 1/4" hot dipped galvanized steel. Surface finish is natural concrete with a medium sandblast etch or exposed aggregate. Medium sandblast finish includes a clear anti-vandal sealer.

GRILL

Grills are cast aluminum, minimum wall thickness of .250 inches. All castings are pure aluminum #356 alloy, free of any foreign material or porosity. Grills have cast in place, integral mounting lugs for attachment to the concrete base. The inner lens of clear or opal DR acrylic, is sealed to the grill frame. The grill assembly has a silicone gasket on the top and bottom for weather tight operation. Recessed stainless steel screws are loosened to remove the top cap for relamping. An upper reflector is installed on the inside of all top caps for optimum luminaire efficiency. Finish is a seven stage TGIC polyester powder coat.

ELECTRICAL MODULE

The electrical module consists of the ballast module and lamp housing. All housing parts are aluminum with stainless steel hardware. The ballast module is prewired on an aluminum strap mounted to the underside of the lamp housing. Ballasts are high power factor, rated for -30 degree starting. The socket is a 4 KV pulse rated, medium base porcelain. The electrical module is silicone gasketed for weather tight operation.

All bollards are UL or ETL listed for wet location use.

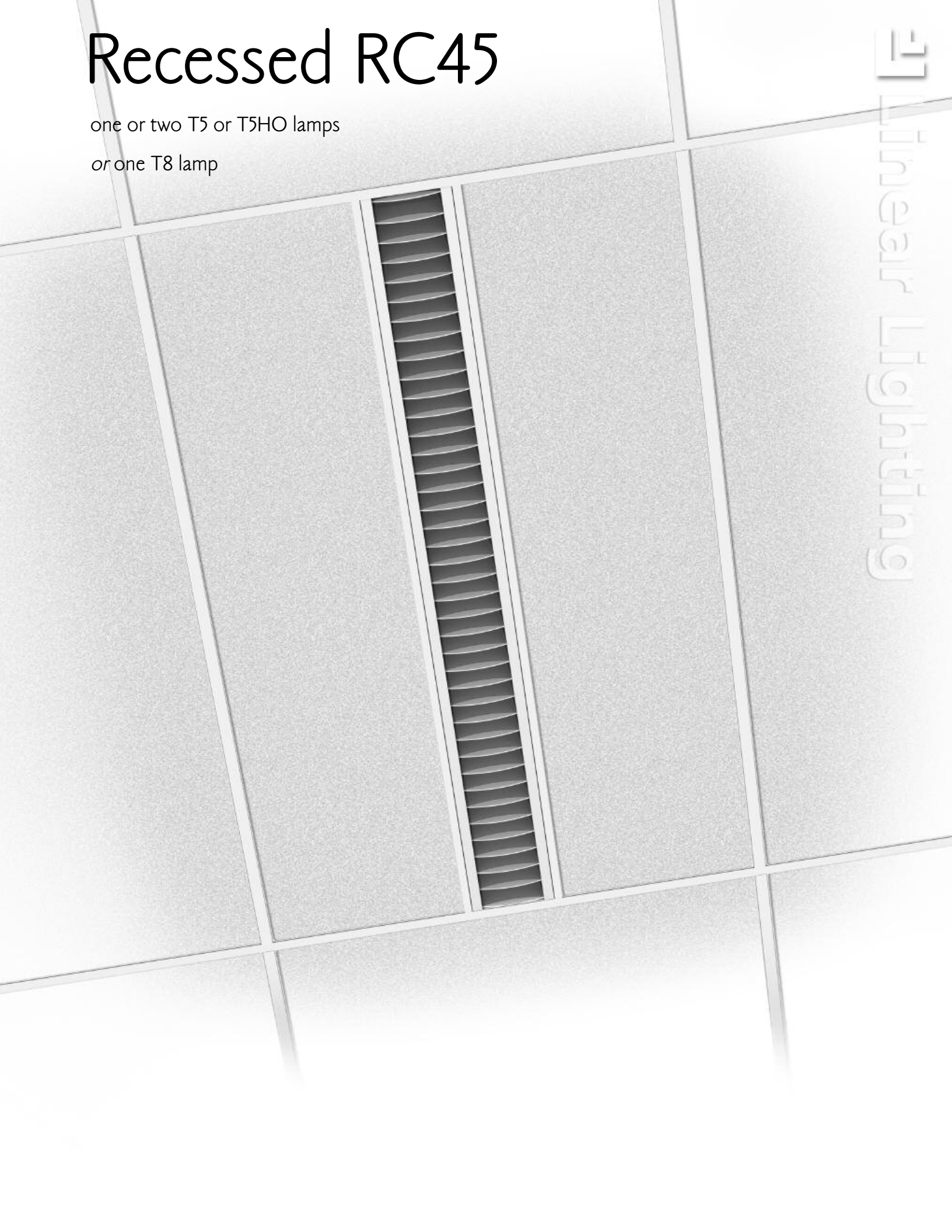
WARRANTY

Fixture shall be warranted to be free of defects for three years. Ballast components shall carry the ballast manufacturer's limited warranty.

Recessed RC45

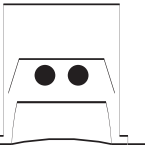
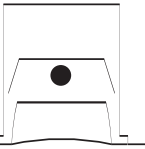
one or two T5 or T5HO lamps
or one T8 lamp

Linear Lighting

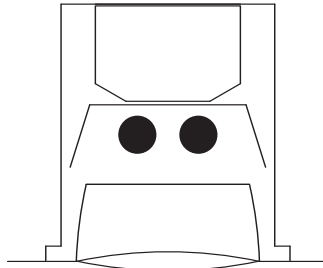
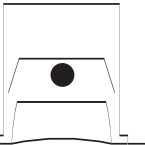


Recessed RC45

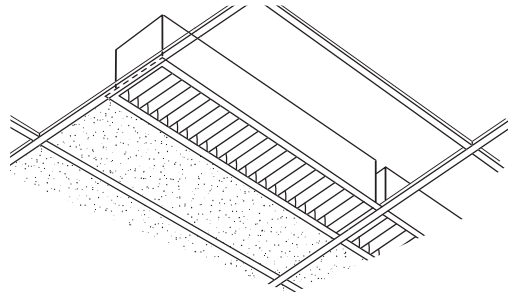
T5 options



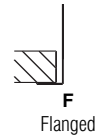
T8 options



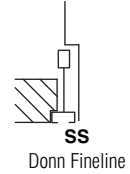
Grid mount
5 1/4" W. x 4 1/4" H.



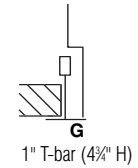
For design use only. Not for construction. See www.linearltg.com for engineering drawings specific to job.



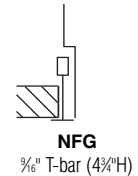
F
Flanged



SS
Donn Fineline

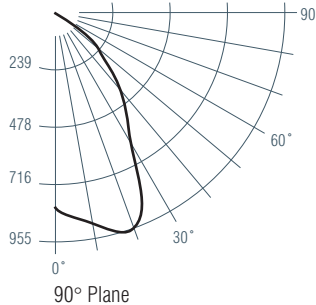


G
1" T-bar (4 3/4" H)



NFG
3/8" T-bar (4 3/4" H)

- Pre-painted white steel housing
- 1 or 2 T5 or T5HO or 1 T8 lamps
- 3" aperture
- Factory pre-wired
- IBEW Local 3 and UL/CUL labels
- Fixture weight: 3.3 lbs. approx.



RC45-D-1-ET5-PBL

Efficiency: 55%

Max. candlepower at 20°: 955

See www.linearltg.com for complete photometrics.

Catalog No.	Dir. Lamps Ballast Voltage	Shielding Mounting Color	Add'l options	Row length
RC45 Fixture	D - - - - Lamps & Electrical Options	- - - - BW Mechanical & Aesthetic Options	- - - - Add'l	- - - - Feet
	Direction Direct Lamps 1 or 2 T5/T5HO 1 T8 Ballast ET5 Electronic T5 ET5HO High Output T5 ET8 Electronic T8 Voltage 120, 277 347	Shielding MBL, MBP, PBL, LW, SBL, DIF, AL, PVL, PXL, PVL_IC, PVL_IG <i>See tab for lower illustrations</i> Mounting G 1" T-bar NFG 3/8" T-bar SS Donn Fineline F Flanged Color BW Baked White	NO No Option FU Fusing EC Emergency Circuits NL Night Light ED Electronic Dimming* EM Emergency Ballast** SC Separate Circuits LO Louver Overlay RA Asymmetric Reflector† ISB10 Instant Start Ballast <10%†† PSB10 Program Start Ballast <10%†† SF Special Feature <i>Please define</i>	Fixture lengths Grid 2, 3, 4, 5' Flanged 2, 3, 4, 5, 6, 8

* Dimming ballasts may not be available for all T5/T5HO lamp lengths. Consult factory.

** EM packs may not be available for all T5/T5HO lamp lengths. Consult factory.

† Available with 1-T5 configuration only.

†† ISB10 and PSB10 available with T8 only.

Designed for acoustical ceilings.

See www.linearltg.com for IES files and additional information.

Linear Lighting Corp.

31-30 Hunters Point Ave., Long Island City, NY 11101 ©9/04

718-361-7552 Fax 718-937-2747 Web: www.linearltg.com