



REMEMBER THE '80s?
BIG HAIR, REAGAN,
PAC-MAN®, RUBIK'S
CUBE®, WHEN MTV USED
TO PLAY MUSIC VIDEOS?

WHAT AN ERA.

It was also during the '80s that Peerless
Lighting trademarked Softshine Optic,
a breakthrough in optical technology
engineered by one of the lighting
world's rock stars, Peter Ngai.

Well, since mom jeans, Ray-Ban®
Wayfarer® sunglasses and shoulder
pads have made a comeback, we
decided to reintroduce an **UPDATED**
Softshine Optic.

SOFTSHINE IS A
HIGH PERFORMANCE,
EYEBALL FRIENDLY
OPTIC NOW
AVAILABLE WITH

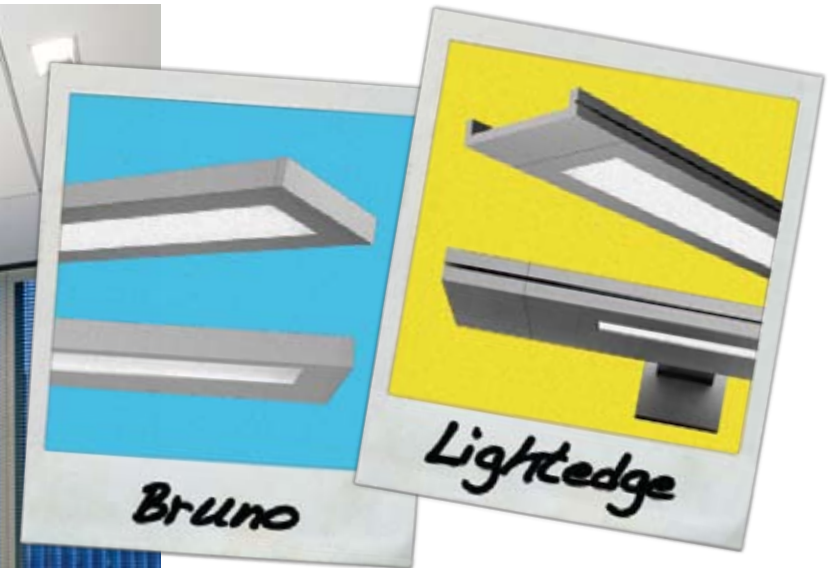
BRUNO,
LIGHTEDGE
RECTANGULAR,
TULIP AND
LIGHTLINE
DIRECT.



SOFTSHINE™

PEERLESS®
An Acuity Brands Company

2



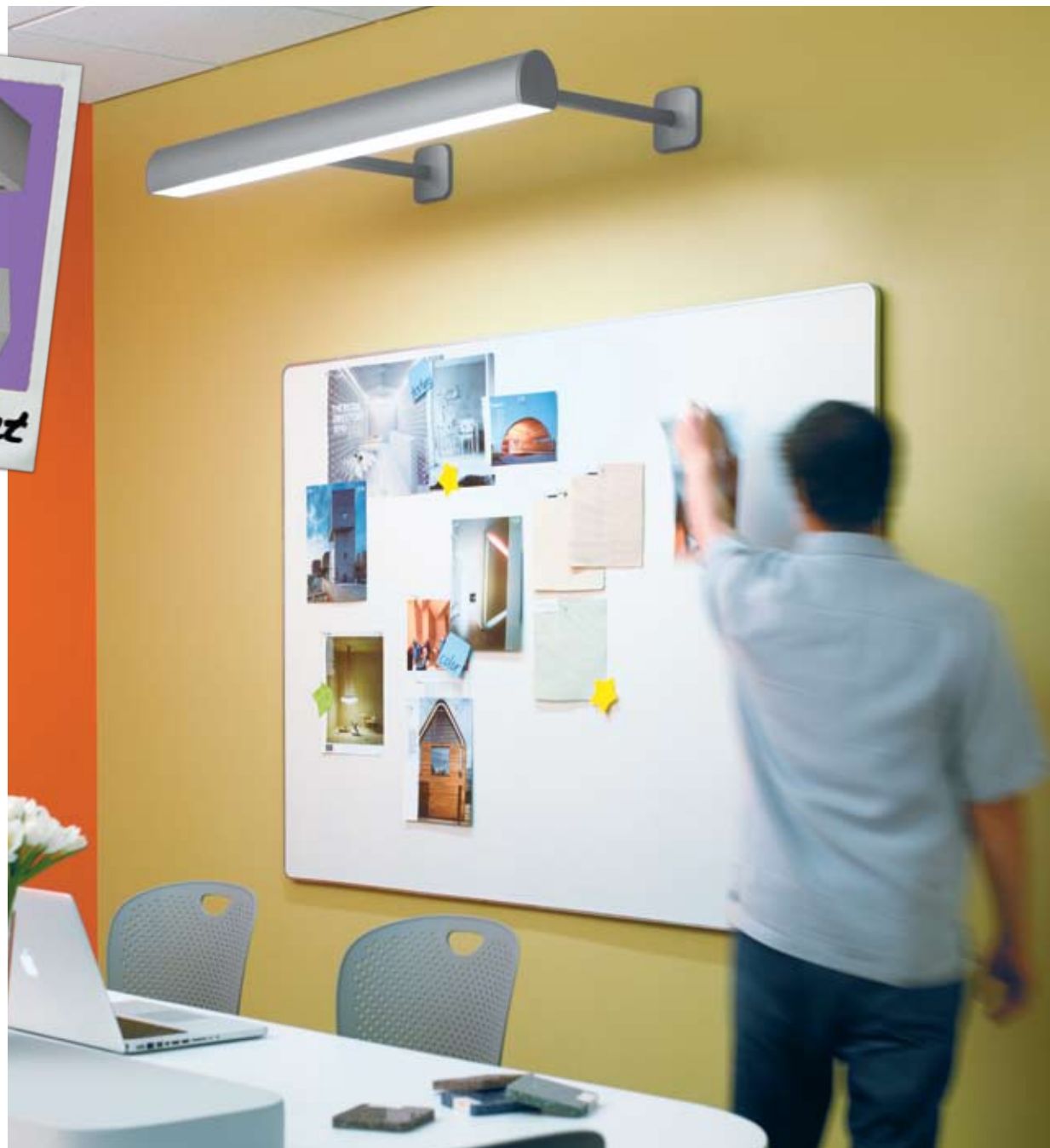
Softshine allows a comfortable **25-30 PERCENT (NOMINAL) DOWNLIGHT** by optically managing the distribution. The uniformly luminous lens guides the light, controlling nasty glare — that's the **EYEBALL FRIENDLY** part. And for those eyeballs that are all about aesthetics, voilà, an indirect/direct distribution without a louver. Nothing against louvers, but we are in the 21st Century.

With **ENERGY CODES** and corresponding power density limits attempting to rule the lighting world, the need for more indirect/direct luminaires has sprung. Increasing the percentage of direct light to insure average footcandles on a workplane with the minimum amount of energy doesn't have to mean reduced quality lighting (a.k.a. glare bombs.)



As always, Peerless maintains our focus on **LIGHTING FOR PEOPLE** by creating visually comfortable environments. The Peerless Lighting for People philosophy translates into minimizing high angle glare with our 100% direct luminaires.

Softshine controls glare and provides a uniformly luminous feature that's easy on the eyes, in more ways than one. **STAGGERED LAMPS** create the consistent luminous effect across the length of the lens for an individual section or a continuous row with Tulip and Lightline Direct with Softshine.



SOFTSHINE™

PEERLESS®
An **Acuity** Brands Company

Lambertian

$$\sqrt{(\text{input angle})^2 + (\text{diffusion angle})^2}$$

Low Clarity

$$D = \log_{10}(1/\tau)$$

LAMP

ACRYLIC

SOFTSHINE
OPTIC

COOL
STUFF

PMMA

SOFT, GLARE | FREE

micro-structures

$$I = I_0 \tau^d$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

High
Haze

Snell's Law

HOW SOFTSHINE WORKS:

An advanced diffusion film provides
**HIGH UNIFORMITY
ACROSS THE LENS,**
achieved through a combination of
**LOW CLARITY, HIGH
TRANSMISSION, AND
HIGH HAZE.**

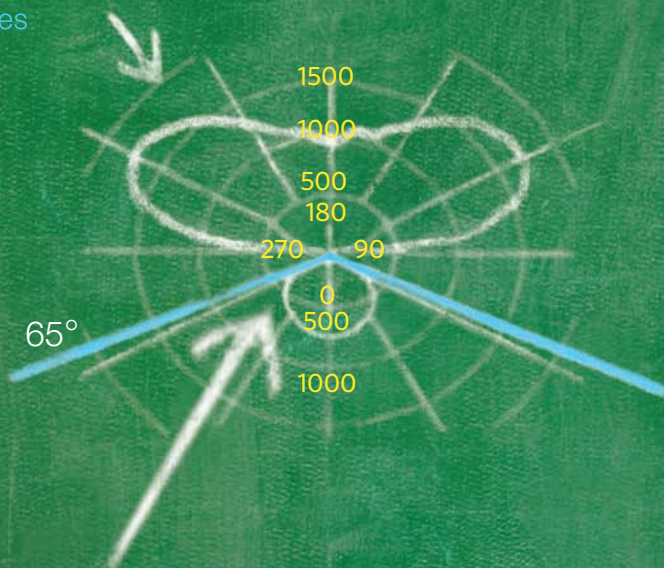
This triple threat combination results in
an indirect/direct luminaire with
**HIGH EFFICIENCY AND
AWESOME**
(we're channeling the 80's)
**OPTICAL
PERFORMANCE.**

THE ILLUMINATING ENGINEERING SOCIETY RECOMMENDED
PRACTICE FOR OFFICE LIGHTING (RP-1-04) PROVIDES
3 PRIMARY DESIGN GUIDELINES FOR INDIRECT/DIRECT LIGHTING:

1. Maximum ceiling luminance should not exceed 850 cd/m² (250 lm/ft²)

Achieved with a low peak candela angle (batwing distribution) which translates into wider row spacing and fewer luminaires

2. Ceiling uniformity should not exceed more than 8:1 (max: min); luminance ratios of 10:1 or 12:1 are acceptable if a smooth gradient on the ceiling is achieved with increased luminaire spacing (i.e. 12-15ft)



3. Luminous intensity should not exceed 300 candela at 65° from vertical for VDT normal offices. A VDT normal office uses a mix of paper and non-critical computer monitor tasks.

Refer to ANSI/IESNA RP-1-04 for all the finer details and exceptions when lighting offices.

SOFTSHINE = HIGH PERFORMANCE, EYEBALL FRIENDLY

The indirect/direct luminaires with Softshine that meet RP-1 guidelines include:

Bruno (1, 2, 3) T8

Bruno (1, 2) T5, T5HO

Lightedge (1, 2) T5, T5HO

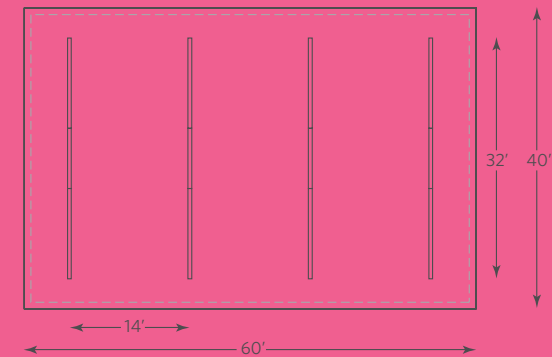
VARIABLE DISTRIBUTION REFLECTORS (VDR'S)

Dark, ugly or cluttered ceilings do exist, we know. If you don't have a ceiling conducive to substantial indirect lighting, top reflectors (VDR's) are available with Bruno Softshine to alter the standard (nominal) 75/25 indirect/direct distribution to either 20/80 or 0/100.

Note: A VDR reduces the overall efficiency of the luminaire, but ultimately it's about putting light where you need it, not just what percentage of lumens exit the luminaire.



TYPICAL APPLICATIONS OPEN OFFICE



Luminaire	Lamping	Overall Suspension	2.5' work plane Average Illuminance	Ceiling Uniformity (max:min)	Max Ceiling Brightness (lm/ft²)	Power Density	% Direct
Bruno Softshine	(2) T5	18"	42	6.8:1	109	0.80 w/ft2	23.3
	(2) T5	21"	43	4.9:1	94	0.80 w/ft2	23.3
	(1) T5HO	18"	42	8.9:1	142	0.83 w/ft2	21.8
	(1) T5HO	21"	42	6.1:1	122	0.83 w/ft2	21.8
	(2) T8	21"	42	10.7:1	128	0.80 w/ft2	30.2
Lightedge Softshine	(2) T5	18"	49	12.4:1	173	0.80 w/ft2	27.6
	(2) T5	21"	50	9.3:1	149	0.80 w/ft2	27.6
	(1) T5HO	18"	41	9.4:1	141	0.83 w/ft2	26.1
	(1) T5HO	21"	42	7.1:1	121	0.83 w/ft2	26.1

OFFICE

Calculations based on: 60' x 40' x 9' open office
(4) 32' rows
80/50/20 ceiling/walls/floor reflectance
14' on center spacing

Light Loss Factors: **T5/T5HO** **T8**
0.79 LLF includes 0.69 LLF includes
0.95 LLD 0.95 LLD
0.88 LDD 0.88 LDD
0.94 RSDD 0.94 RSDD
1.0 BF 0.88 BF

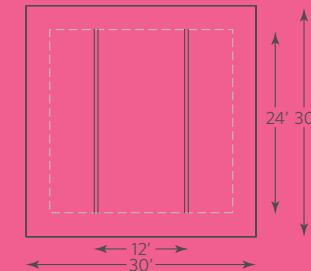
T5HO lamps: 5000 lumens, 62 input watts

T5 lamps: 2900 lumens, 30 input watts

T8 lamps: 2850 lumens, 30 input watts



TYPICAL APPLICATIONS CLASSROOM



Luminaire	Lamping	Overall Suspension	2.5' Work Plane		Power Density	% Direct
			Average Illuminance	Uniformity (max:min)		
Bruno Softshine	(1) T5HO	18"	41	2.3:1	0.83 w/ft2	21.8
	(1) T5HO	21"	40	2.3:1	0.83 w/ft2	21.8
	(1) T5HO	24"	40	2.3:1	0.83 w/ft2	21.8
	(2) T5	18"	40	2.2:1	0.80 w/ft2	23.3
	(2) T5	21"	40	2.3:1	0.80 w/ft2	23.3
	(2) T5	24"	40	2.3:1	0.80 w/ft2	23.3
	(2) T8	18"	41	2.3:1	0.80 w/ft2	30.2
	(2) T8	21"	41	2.4:1	0.80 w/ft2	30.2
	(2) T8	24"	41	2.6:1	0.80 w/ft2	30.2

CLASSROOM

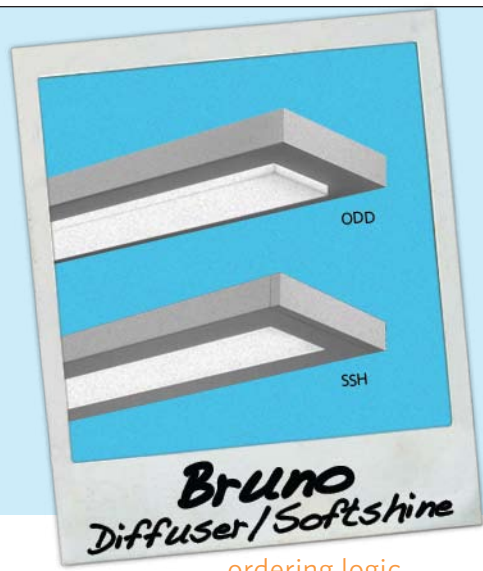
Calculations based on: 30' x 30' x 10' classroom
 (2) 24' rows
 80/50/20 ceiling/walls/floor reflectance
 12' on center spacing
 18-24" overall suspension

Light Loss Factors: **T5/T5HO** **T8**
 0.79 LLF includes 0.69 LLF includes
 0.95 LLD 0.95 LLD
 0.88 LDD 0.88 LDD
 0.94 RSDD 0.94 RSDD
 1.0 BF 0.88 BF

T5HO lamps: 5000 lumens, 62 input watts

T5 lamps: 2900 lumens, 30 input watts

T8 lamps: 2850 lumens, 30 input watts



BRM9

specifications

CONSTRUCTION — Housing is a nominal 8 1/4" x 1 1/16" rectangular channel formed from cold-rolled steel. 5/8" thick aluminum die cast end caps are standard, 4" sculpted die cast aluminum end caps are optional.

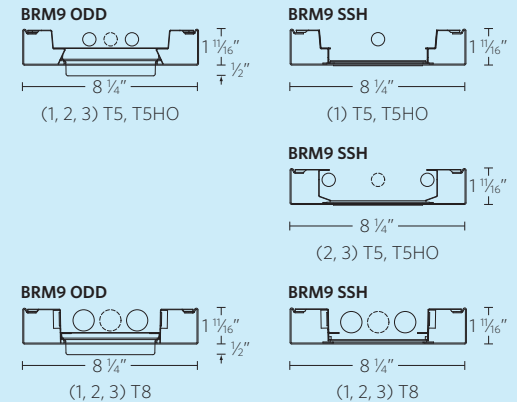
REFLECTORS — Die formed specular reflector with 95% reflectance.

SHIELDING — Die formed drop acrylic diffuser or flush Softshine™ high performance lens.

FINISH — Fine textured white polyester powder paint is standard. Consult factory for special finish requirements.

FIXTURE LENGTH — 4' 3/8", 8' and 12' lengths in a single section for nominal support spacing of 4'-0", 8'-0", and 12'-0". For total fixture length, add 5/8" for each flat end cap and 4" for each sculpted end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer rows.

dimensions / lamping



ordering logic

Sample Catalog Number: BRM9 2 32 SPR ODD 40FT R8 277 GEB10 DCT LP835 F1/18 C210 SCEP

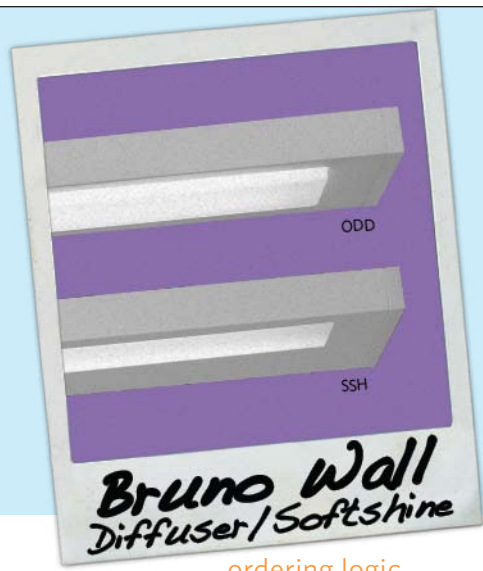
Fixture	# of Lamps in Cross Section	Lamp Type	Reflector	Distribution ^{2,3}	Shielding	Nominal Row Length	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules	▶▶▶
BRM9	1 2 3	28T5 54T5HO 32 (T8)	SPR Specular Reflector	Blank Standard; 70 Up; 30% Down 20/80 20% Up; 80% Down 0/100 ⁸ 0% Up; 100% Down	ODD Opal Drop Diffuser SSH Softshine™ High Performance Lens	___FT <i>Must be in 4' increments</i>	R4 4' R8 8' R12 12'	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ ^{1,5} Advance Mark 10 dimming ECO10 ¹ Lutron ECO-10 dimming OSDIM ^{14,5} Osram 0-10V dimming ADZT ^{1,5,7} Advance Mark VII dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections	
▶▶ Emergency Type ⁶	Switching	Lamp color	Mounting Type	Overall Suspension	Finish	Options					
(Blank) None EL ¹ Emergency Battery Pack EC Emergency / Night Light Circuit EN ¹ Emergency Battery Pack with Night Light Circuit	SCT Single Circuit DCT Dual Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI Available with T8 only: LP730 3000K 70+ CRI LP735 3500K 70+ CRI LP741 4100K 70+ CRI Available with T5 only: LP830P 3000K 80+ CRI Premier Lamp LP835P 3500K 80+ CRI Premier Lamp LP841P 4100K 80+ CRI Premier Lamp <i>Reference Lamp Chart on website or consult factory for other options.</i>	F1 T-Bar Ceiling (Universal Mounting Bracket) F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard Ceiling (Horizontal J-Box) F3 Stem Mount F4A IDS Clip 15/16" Tee F4B IDS Clip 9/16" Tee F4C IDS Clip Screw Slot	12 12" 15 15" 18 18" 21 21" 24 24" XX XX"	C210 Standard White White (fine-textured low gloss) C110 Painted to match Aluminum Finish C099 Custom Color	ACG Adjustable Cable Grippers BLK Black Cord, Cord Manager and Canopies CP Chicago Plenum DL Damp Location Label (not available w/ EL or EN) DPC ^{1,2,3} Daylight Photocell DU ^{8,9,10} Dust Cover ELH EM Through Wire Harness ELS EM Through Wire Harness With Single Feed ELS2 Normal feed w/ EM Separate Neutral GLR Fast Blow Fuse GMF Slow Blow Fuse MCS Matching Feed Canopy at Support NYC New York City Code OJB Offset Junction Box SCEP Sculptured End Cap SLP ^{11,12} Sloped Ceiling 10-45°					

Notes: 1 Not available in 347 volt. 2 Nominal distribution. Refer to photometric reports for exact distribution. 3 Available with SSH (Softshine) only. 4 Not Available with T8 Lamp Type. 5 Not Available with 28T5 Lamp Type. 6 EL and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELS/ELH/ELS2 is specified. 7 Not Available with 54T5HO Lamp Type. 8 Not Available with 3 lamp. 9 Ambient conditions not to exceed 35° C for 2 or 3 Lamp 54T5HO. 10 Not available with 20/80 or 0/100 Distribution. 11 Available with F2 Mounting Type only. 12 Must order with OJB option. 13 Photocell installed approx. 4ft from the beginning of the row. DPC must be used w/ 0-10V dimming ballast.

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SOFTSHINE™

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ordering logic

BRW9

specifications

CONSTRUCTION — Housing is a nominal 8 1/4" x 1 1/16" rectangular channel formed from cold-rolled steel. 5/8" thick aluminum die cast end cap is standard, 4" sculpted die cast aluminum end cap is optional.

REFLECTORS — Die formed white painted reflector.

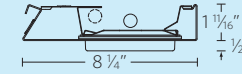
SHIELDING — Die formed opal drop diffuser or flush Softshine™ high performance lens.

FINISH — Fine textured white polyester powder paint is standard. Consult factory for special finish requirements.

FIXTURE LENGTH — 4' 1/16", 8' and 12' lengths in a single section. For total fixture length, add 5/8" for each flat end cap and 4" for each sculpted end cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer rows.

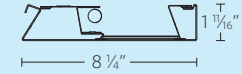
dimensions / lamping

BRW9 ODD



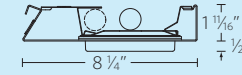
(1, 2) T5, T5HO

BRW9 SSH



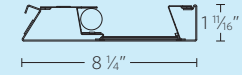
(1) T5, T5HO

BRW9 ODD



(1, 2) T8

BRW9 SSH



(1) T8

Sample Catalog Number: BRW9 2 28T5 WHR SSH 40FT R8 GEB10 DCT LP835 SCEP

Fixture	# of Lamps in Cross Section	Lamp Type	Reflector	Shielding	Nominal Row Length	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules
BRW9	1 2	28T5 54T5HO 32 (T8)	WHR White Reflector	ODD Opal Drop Diffuser SSH Softshine™ High Performance Lens	___FT <i>Must be in 4' increments</i>	R4 4' R8 8' R12 12'	120 277 347	GEB ^{2,5} <20% THD ELECTRONIC GEB10 <10% THD ELECTRONIC ADEZ ^{3,5} Advance Mark 10 dimming ECO10 ³ Lutron ECO-10 dimming ADZT ^{2,3,5} Advance Mark VII dimming DMHL ^{3,4,5} Lutron Hi-lume OSDIM ^{3,4,5} Osram 0-10V dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections

Emergency Type ⁶	Switching	Lamp color	Finish	Options
(Blank) None EL ³ Emergency Battery Pack EC Emergency / Night Light Circuit EN ³ Emergency Battery Pack with Night Light Circuit	SCT Single Circuit DCT Dual Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI Available with T8 only: LP730 3000K 70+ CRI LP735 3500K 70+ CRI LP741 4100K 70+ CRI Available with T5 only LP830P 3000K 80+ CRI Premier Lamp LP835P 3500K 80+ CRI Premier Lamp LP841P 4100K 80+ CRI Premier Lamp <i>Reference Lamp Chart on website or consult factory for other options.</i>	C210 Standard White White (fine-textured low gloss) C110 Painted to match Aluminum Finish C099 Custom Color	DL Damp Location Label (not available w/ EL or EN) DU ⁷ Dust Cover ELH EM Through Wire Harness ELS EM Through Wire Harness With Single Feed ELS2 Normal feed w/ EM Separate Neutral GLR Fast Blow Fuse GMF Slow Blow Fuse NYC New York City Code SCEP Sculptured End Cap

Notes: 1 SSH only available in 1 Lamp cross section. 2 Not available with T5HO Lamp Type. 3 Not available in 347 volt. 4 Not available with T8 Lamp Type. 5 Not available with 28T5 Lamp Type. 6 Emergency type is installed in last 4' of fixture sections and are not available concurrently. Separate feed required unless ELS/ELH/ELS2 is specified. 7 Ambient conditions not to exceed 35° C for 2 Lamp 54T5HO.

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EGRM9

specifications

CONSTRUCTION — Housing and endcap extruded aluminum forming an 8 1/8" x 1 1/2" rectangular channel.

REFLECTORS — Die-formed white painted reflector (nominal reflectance 90%) and specular aluminum side reflector.

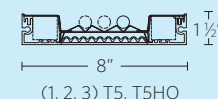
SHIELDING — Crenulated GrateOptic™ diffuser or flush Softshine™ high performance lens.

FINISH — Satin anodized standard; custom colors available.

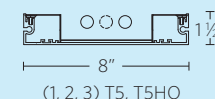
FIXTURE LENGTH — 4' and 8' lengths in a single section for exact suspension spacing of 4' and 8'. For total fixture length add 4" for each end-cap. Using internal joiners, 4' and 8' sections can be joined to form longer-length fixtures.

dimensions / lamping

EGRM9 GTO



EGRM9 SSH



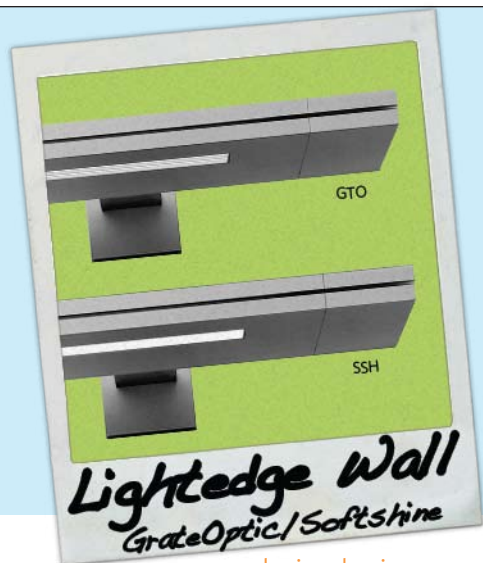
ordering logic

Sample Catalog Number: EGRM9 2 54T5HO SSH 32FT R8 277 GEB10 DCT L/LP F2/15 C100 ACG

Fixture	# of Lamps in Cross Section	Lamp Type	Shielding	Nominal Row Length	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules	
EGRM9	1 2 3	28T5 54T5HO	GTO Crenulated GrateOptic Diffuser SSH Softshine High Performance Lens	____FT <i>Must be in 4' increments</i>	R4 4' section R8 8' section	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ ^{1,2} Advance Mark 10 dimming ECO10 ¹ Lutron ECO-10 dimming OSDIM ^{1,2} Osram 0-10v dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections	▶▶▶
▶▶ Emergency Type ³		Switching	Lamp color	Mounting Type / Overall Suspension		Finish	Options		
(Blank) None EL ¹ Emergency Battery Pack EC Emergency Circuit EN ¹ Emergency Battery Pack w/ Night Light Circuit	SCT Single Circuit DCT Dual Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI Available with T5 only LP830P 3000K 80+ CRI Premier Lamp LP835P 3500K 80+ CRI Premier Lamp LP841P 4100K 80+ CRI Premier Lamp <i>Reference Lamp Chart on website or consult factory for other options.</i>	F1 T-Bar Ceiling (Universal Mounting Bracket) F1A T-Bar Ceiling (UMB with Integrated J-Box) 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" 15 15" 18 18" 21 21" 24 24" XX XX"	C100 Satin Anodized Finish (Standard) C041 White White (Low Gloss) C099 Custom Color (consult factory)	ACG Adjustable Cable Grippers BLK Black Cord, Cord Manager and Canopies CP Chicago Plenum DL Damp Location Label (not available w/ EL or EN) DU ^{4,5} Dust Cover GLR Fast Blow Fuse GMF Slow Blow Fuse ELH EM Through Wire Harness ELS EM Through Wire Harness With Single Feed ELS2 Normal feed w/ EM Separate Neutral MCS Matching Feed Canopy at Support OJB Offset Junction Box SLP ^{6,7} Sloped Ceiling 10–45°			

Notes: 1 Not available in 347 volt. 2 Not available with 28T5 Lamp Type. 3 EL, EN and EC not available with DCT in 4' sections. EL and EC are installed in last 4' of fixture sections and are not available concurrently. Separate feed required for each EL or EC unless ELS/ELH is specified. 4 Not available with 3 Lamps. 5 Ambient conditions not to exceed 35° C for 2 Lamp 54T5HO. 6 Available with F2 Mounting Type only. 7 Must order with OJB option.

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EGRW9

specifications

CONSTRUCTION — Housing and endcap extruded aluminum forming an 7 1/2" x 1 1/2" rectangular channel.

REFLECTORS — Die-formed white painted reflector (nominal reflectance 90%) and hammertone specular aluminum. Prismatic acrylic kicker lens.

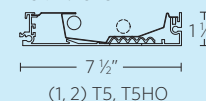
SHIELDING — Crenulated GrateOptic™ diffuser or Softshine™ lens.

FINISH — Satin anodized standard; custom colors available.

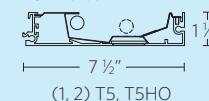
FIXTURE LENGTH — 4', 8' and 12' lengths in a single section. For total fixture length add 4" for each end-cap. Using internal joiners, 4', 8' and 12' sections can be joined to form longer-length fixtures.

dimensions / lamping

EGRW9 GTO



EGRW9 SSH



ordering logic

Sample Catalog Number: EGRW9 1 54T5HO SSH R12 120 GEB10 2SE EL SCT LP835 C100

Fixture	# of Lamps in Cross Section	Lamp Type	Shielding	Nominal Row Length	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules		
EGRW9	1 2	28T5 54T5HO	GTO Crenulated GrateOptic Diffuser SSH Softshine High Performance Lens	____FT <i>Must be in 4' increments</i>	R4 4' section R8 8' section R12 12' section	120 277 347	GEB10 <10% THD ELECTRONIC ADEZ ^{1,2} Advance Mark 10 dimming ECO10 ¹ Lutron ECO-10 dimming OSDIM ^{1,2} Osram 0-10v dimming <i>Reference Ballast Chart on website or consult factory for other options.</i>	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections		
▶▶ Emergency Type ³		Switching	Lamp color			Finish	Options			
(Blank) None EL ¹ Emergency Battery Pack EC Emergency Circuit/ Night Light EN ¹ Emergency Battery Pack w/ Night Light Circuit		SCT Single Circuit DCT Dual Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI Available with T5 only LP830P 3000K 80+ CRI Premier Lamp LP835P 3500K 80+ CRI Premier Lamp LP841P 4100K 80+ CRI Premier Lamp <i>Reference Lamp Chart on website or consult factory for other options.</i>			C100 Satin Anodized Finish (Standard) C041 White White (Low Gloss) C099 Custom Color (consult factory)	DL Damp Location Label (not available w/ EL or EN) DU ⁴ Dust Cover GLR Fast Blow Fuse GMF Slow Blow Fuse ELH EM Through Wire Harness ELS EM Through Wire Harness With Single Feed ELS2 Normal feed w/ EM Separate Neutral EXT 3" Extended Mount			

Notes: 1 Not available in 347 volt. 3 Not available with 28T5 Lamp Type. 3 EL, EN and EC not available with DCT in 4' sections.

4 Ambient conditions not to exceed 35° C for 2 Lamp 54T5HO.

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TLML

specifications

CONSTRUCTION — Extruded aluminum housing forms a 3 5/8" x 4" curved channel. Die-cast aluminum end caps mechanically attach with no exposed fasteners.

REFLECTORS — High reflectance white painted reflector system.

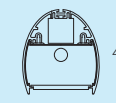
SHIELDING — Softshine™ high performance lens controls light distribution. Uniform luminance along the length of the lens is achieved with staggered lamps.

FINISH — Satin anodized finish consists of satin anodized housing with end caps painted to match.

FIXTURE LENGTH — Stand alone sections are 3'10" (R4), 7'3" (R8), and 10'8" (R12). Rows are comprised of starter, joiner and ender sections of various lengths. Refer to planning guide for details. For total fixture length, add 3/8" for each end cap or 1" for each sculptured end cap (SCEP) when F3 stem mount or option ELS2 is specified.

dimensions / lamping

TLML



(1) T5, T5HO

ordering logic

Sample Catalog Number: TLML 1 28T5 SSH 34FT7IN R8 120 GEB10 SCT LP835 F1/18 C100

Fixture	# of Lamps in Cross Section	Lamp Type	Shielding	Row Length¹			Maximum Section Length Nominal	Voltage	Ballast Type	# of Emergency Modules	▶▶▶
TLML	1	54T5HO 28T5	SSH Softshine Lens	3FT10IN 7FT3IN 10FT8IN 14FT11IN 17FT6IN 20FT11IN 24FT4IN 27FT9IN 31FT2IN 34FT7IN 38FT0IN 41FT5IN	Individual (R4) Individual (R8) Individual (R12)	44FT10IN 48FT3IN 51FT8IN 55FT1IN 58FT6IN 61FT11IN 65FT4IN 68FT9IN 72FT2IN	75FT7IN 79FT0IN 82FT5IN 85FT10IN 89FT3IN 92FT8IN 96FT1IN 99FT6IN	R4 4' Section R8 8' Section R12 12' Section	120 277 347	GEB10 <10% THD ELECTRONIC Dimming Ballasts Available: ADEZ²,³ Advance Mark 10 ECO10² Lutron ECO-10 ADZT²,³ Mark 7 (0-10 Volt) OSDIM²,³ Osram 0-10V dim S5² SIMPLYSTM Reference Ballast Chart on website or consult factory for other options.	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections
▶▶											
Emergency Type⁵		Switching	Lamp color	Mounting Type	/	Overall Suspension	Finish	Options			
(Blank) None EL²,⁶ Emergency Battery Pack EC Emergency Circuit EN²,⁶ Emergency Battery Pack with Night Light	SCT Single Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI T5 Only: LP830P 3000K 80+ CRI Premier LP835P 3500K 80+ CRI Premier LP841P 4100K 80+ CRI Premier Reference Lamp Chart on website or consult factory for other options.	F1 T-Bar Ceiling (Universal Mounting Bracket) F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard ceiling horizontal J-box F35 Stem Mount F4A IDS Clip 15/16" Tee F4B IDS Clip 9/16" Tee F4C IDS Clip Screw Slot	12 12" 15 15" 18 18" 21 21" 24 24" XX XX"	C100 Satin Anodized Finish C041 White White (low gloss) C099 Custom Finish	ACG Adjustable Cable Grippers CP Chicago Plenum DL Damp Location Label ELH EM Through Wire Harness ELS EM Through Wire Harness with Single Feed ELS2⁵ Normal feed w/ EM separate neutral GLR Fast Blow Fuse GMF Slow Blow Fuse MCS Matching feed canopy at support NYC New York City Code OJB Offset Junction Box					

Notes: 1 Consult factory for row lengths greater than 99FT6IN. 2 Not available in 347 volt. 3 Not available with 28T5 Lamp Type. 4 Emergency type is installed in the last 4' of fixture sections. Separate feed unless ELS/ELH is specified. 5 1" sculptured end cap (SCEP) used. 6 Not available with DL option.

PEERLESS®
An Acuity Brands Company



Tulip Wall
Softshine

ordering logic

TLWL

specifications

Construction — Extruded aluminum housing forms a 3 5/8" x 4" curved channel. Die-cast aluminum end caps mechanically attach with no exposed fasteners. Extended arm mount (option "X") is extruded aluminum and die-cast aluminum, extending 21".

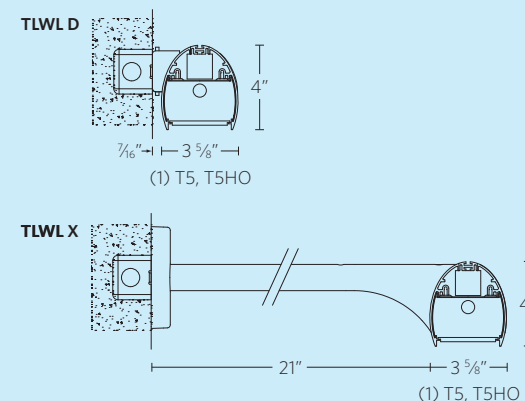
Reflectors — High reflectance white painted reflector system.

Shielding — Softshine™ high performance lens controls light distribution. Uniform luminance along the length of the lens is achieved with staggered lamps.

Finish — Satin anodized finish consists of satin anodized housing with end caps painted to match.

Fixture Length — Stand alone sections are 3'10" (R4), 7'3" (R8), and 10'8" (R12). Rows are comprised of starter, joiner and ender sections of various lengths. Refer to planning guide for details. For total fixture length, add 3/8" for each end cap.

dimensions / lamping



Sample Catalog Number: TLWL D 1 28T5 SSH 34FT7IN R8 277 GEB10 SCT LP835 C100

Fixture	Mounting Type	# of Lamps in Cross Section	Lamp Type	Shielding	Row Length ¹	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules	▶▶▶
TLWL	D Wall Spacer X 21" extended arm mount	1	54T5HO 28T5	SSH Softshine Lens	3FT10IN Individual (R4) 7FT3IN Individual (R8) 10FT8IN Individual (R12) 14FT1IN 44FT10IN 75FT7IN 17FT6IN 48FT3IN 79FT0IN 20FT11IN 51FT8IN 82FT5IN 24FT4IN 55FT1IN 85FT10IN 27FT9IN 58FT6IN 89FT3IN 31FT2IN 61FT11IN 92FT8IN 34FT7IN 65FT4IN 96FT1IN 38FT0IN 68FT9IN 99FT6IN 41FT5IN 72FT2IN	R4 4' R8 8' R12 12'	120 277 347	GEB10 <10% THD ELECTRONIC Dimming Ballasts Available: ADEZ^{2,3} Advance Mark 10 ECO10² Lutron ECO-10 ADZT^{2,3} Mark 7 (0-10 Volt) OSDIM^{2,3} Osram 0-10V dim SS² SIMPLY5™ <i>Reference Ballast Chart on website or consult factory for other options.</i>	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections	
▶▶ Emergency Type ⁴	Switching	Lamp color	Finish	Options						
(Blank) None EL^{2,5} Emergency Battery Pack EC Emergency Circuit EN^{2,5} Emergency Battery Pack with Night Light	SCT Single Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI T5 Only: LP830P 3000K 80+ CRI Premier LP835P 3500K 80+ CRI Premier LP841P 4100K 80+ CRI Premier <i>Reference Lamp Chart on website or consult factory for other options.</i>	C100 Satin Anodized Finish C041 White White (low gloss) C099 Custom Finish	DL Damp Location Label ELH EM Through Wire Harness ELS EM Through Wire Harness with Single Feed ELS2 Normal feed w/ EM separate neutral GLR Fast Blow Fuse GMF Slow Blow Fuse NYC New York City Code						

Notes: ¹ Consult factory for row lengths greater than 99FT6IN. ² Not available in 347 volt. ³ Not available with 28T5 Lamp Type. ⁴ Emergency type is installed in the last 4' of fixture sections. Separate feed unless ELS/ELH is specified. ⁵ Not available with DL option.

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LLML

specifications

CONSTRUCTION — Extruded aluminum housing forms a 3 5/8" x 4 1/16" curved channel. Die-cast aluminum end caps mechanically attach with no exposed fasteners.

REFLECTORS — High reflectance white painted reflector system.

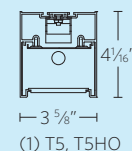
SHIELDING — Softshine™ high performance lens controls light distribution. Uniform luminance along the length of the lens is achieved with staggered lamps.

FINISH — Satin anodized finish consists of satin anodized housing with end caps painted to match.

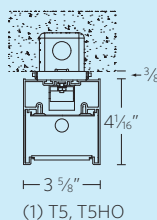
FIXTURE LENGTH — Stand alone sections are 3'10" (R4), 7'3" (R8), and 10'8" (R12). Rows are comprised of starter, joiner and ender sections of various lengths. Refer to planning guide for details. For total fixture length, add 7/8" for each end cap.

dimensions / lamping

LLML



LLML



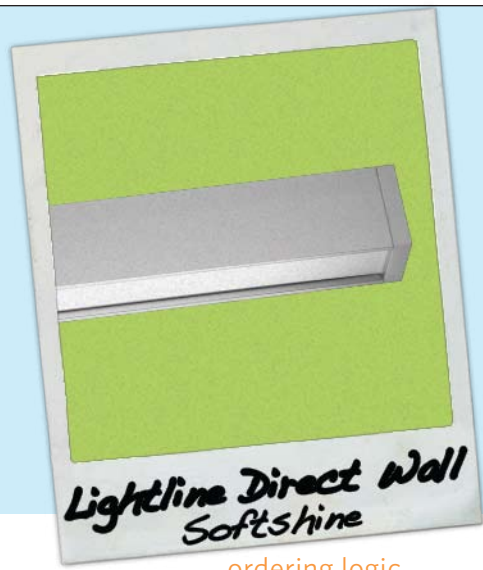
ordering logic

Sample Catalog Number: LLML 1 28T5 SSH 34FT7IN R8 120 GEB10 SCT LP835 F1/18 C100

Fixture	Mounting Type	# of Lamps in Cross Section	Lamp Type	Shielding	Row Length ²	Maximum Section Length	Voltage	Ballast Type	# of Emergency Modules	▶▶▶
LLML	(Blank) Suspended S ¹ Surface	1	54T5HO 28T5	SSH Softshine Lens	3FT10IN Individual (R4) 7FT3IN Individual (R8) 10FT8IN Individual (R12) 14FT1IN 44FT10IN 75FT7IN 17FT6IN 48FT3IN 79FT0IN 20FT11IN 51FT8IN 82FT5IN 24FT4IN 55FT1IN 85FT10IN 27FT9IN 58FT6IN 89FT3IN 31FT2IN 61FT11IN 92FT8IN 34FT7IN 65FT4IN 96FT1IN 38FT0IN 68FT9IN 99FT6IN 41FT5IN 72FT2IN	R4 4' R8 8' R12 12'	120 277 347	GEB10 <10% THD ELECTRONIC Dimming Ballasts Available: ADEZ ^{3,4} Advance Mark 10 ECO10 ³ Lutron ECO-10 ADZT ^{3,4} Mark 7 (0-10 Volt) OSDIM ^{3,4} Osram 0-10V dim SS ³ SIMPLY5™ Reference Ballast Chart on website or consult factory for other options.	(Blank) None 1SE 1 section 2SE 2 sections XSE X sections	
▶▶ Emergency Type ⁵	Switching	Lamp color	Mounting Type / Overall Suspension	Finish	Options					
(Blank) None EL ^{3,6} Emergency Battery Pack EC Emergency Circuit EN ^{3,6} Emergency Battery Pack with Night Light	SCT Single Circuit	L/LP No Lamp LP830 3000K 80+ CRI LP835 3500K 80+ CRI LP841 4100K 80+ CRI T5 Only: LP830P 3000K 80+ CRI Premier LP835P 3500K 80+ CRI Premier LP841P 4100K 80+ CRI Premier Reference Lamp Chart on website or consult factory for other options.	(Blank) "S" Surface Mount F1 T-Bar Ceiling (Universal Mounting Bracket) F1A T-Bar Ceiling (UMB with Integrated J-Box) F2 Hard ceiling horizontal J-box F3 Stem Mount F4A IDS Clip 15/16" Tee F4B IDS Clip 9/16" Tee F4C IDS Clip Screw Slot	C100 Satin Anodized Finish C041 White White (low gloss) C099 Custom Finish	ACG Adjustable Cable Grippers CP Chicago Plenum DL Damp Location Label ELH EM Through Wire Harness ELS EM Through Wire Harness with Single Feed ELS2 Normal feed w/ EM separate neutral GLR Fast Blow Fuse GMF Slow Blow Fuse MCS Matching feed canopy at support NYC New York City Code OJB Offset Junction Box					

Notes: 1 Available with individual units only (3FT10IN, 7FT3IN, 10FT8IN). 2 Consult factory for row lengths greater than 99FT6IN. 3 Not available in 347 volt. 4 Not available with 28T5 Lamp Type. 5 Emergency type is installed in the last 4' of fixture sections. Separate feed unless ELS/ELH is specified. 6 Not available with DL option.

PEERLESS®
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LLWL

specifications

CONSTRUCTION — Extruded aluminum housing forms a 3 5/8" x 4 1/16" rectangular channel. Die-cast aluminum end caps mechanically attach with no exposed fasteners. Extended arm mount (option "X") is extruded aluminum extending 21".

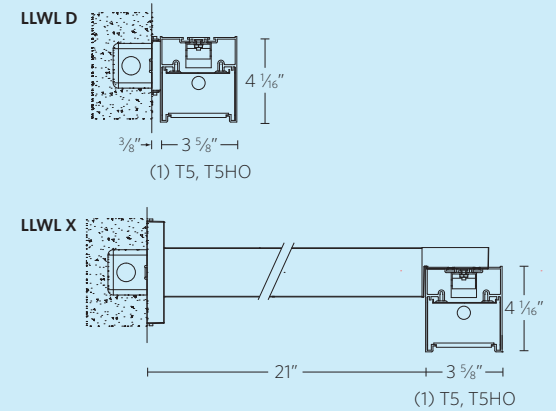
REFLECTORS — High reflectance white painted reflector system.

SHIELDING — Softshine™ high performance lens controls light distribution. Uniform luminance along the length of the lens is achieved with staggered lamps.

FINISH — Satin anodized finish consists of satin anodized housing with end caps painted to match.

FIXTURE LENGTH — Stand alone sections are 3'10" (R4), 7'3" (R8), and 10'8" (R12). Rows are comprised of starter, joiner and ender sections of various lengths. Refer to planning guide for details. For total fixture length, add 7/8" for each end cap.

dimensions / lamping



ordering logic

Sample Catalog Number: LLWL D 1 28T5 SSH 34FT7IN R8 277 GEB10 SCT LP835 C100

Fixture	Mounting Type		# of Lamps in Cross Section	Lamp Type	Shielding	Row Length ¹			Maximum Section Length		Voltage	Ballast Type		# of Emergency Modules	▶▶▶			
LLWL	D	Wall Spacer	1	54T5HO 28T5	SSH Softshine Lens	3FT10IN	Individual (R4)		R4	4'	120	GEB10	<10% THD ELECTRONIC		(Blank) None 1SE 1 section 2SE 2 sections XSE X sections			
	X	21" extended arm mount				7FT3IN	Individual (R8)		R8	8'	277	ADEZ ^{2,3} Advance Mark 10						
						10FT8IN	Individual (R12)		R12	12'	347	ECO10 ² Lutron ECO-10						
						14FT1IN	44FT10IN	75FT7IN			ADZT ^{2,3} Mark 7 (0-10 Volt)							
						17FT6IN	48FT3IN	79FT0IN			OSDIM ^{2,3} Osram 0-10V dim							
						20FT11IN	51FT8IN	82FT5IN			SS ² SIMPLY TM							
						24FT4IN	55FT1IN	85FT10IN			Reference Ballast Chart on website or consult factory for other options.							
						27FT9IN	58FT6IN	89FT3IN										
						31FT2IN	61FT11IN	92FT8IN										
						34FT7IN	65FT4IN	96FT1IN										
						38FT0IN	68FT9IN	99FT6IN										
						41FT5IN	72FT2IN											
▶▶ Emergency Type ⁴		Switching				Lamp color		Finish		Options								
(Blank)	None	SCT Single Circuit	L/LP	No Lamp	C100 Satin Anodized Finish CO41 White White (low gloss) CO99 Custom Finish	DL	Damp Location Label											
EL ^{2,5}	Emergency Battery Pack		LP830	3000K 80+ CRI		ELH	EM Through Wire Harness											
EC	Emergency Circuit		LP835	3500K 80+ CRI		ELS	EM Through Wire Harness with Single Feed											
EN ^{2,5}	Emergency Battery Pack with Night Light		LP841	4100K 80+ CRI		ELS2	Normal feed w/ EM separate neutral											
			T5 Only: LP830P 3000K 80+ CRI Premier LP835P 3500K 80+ CRI Premier LP841P 4100K 80+ CRI Premier Reference Lamp Chart on website or consult factory for other options.	GLR		Fast Blow Fuse												
				GMF	Slow Blow Fuse													
						NYC	New York City Code											

Notes: 1 Consult factory for row lengths greater than 99FT6IN. 2 Not available in 347 volt. 3 Not available with 28T5 Lamp Type. 4 Emergency type is installed in the last 4' of fixture sections. Separate feed unless ELS/ELH is specified. 5 Not available with DL option.

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