

LTR-6RD SpectraSync

LITEISTRY 6" ROUND DOWNLIGHT WITH COLOR TUNING

FEATURES

- 6" architectural LED downlight delivering 600 3000 lm
- Four beam distributions from 0.3 to 1.1 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- SpectraSync™ Color Tuning technology allows the flexibility to tailor CCT to aesthetic preferences
- Available in Dim to Warm (2200K-3000K) or Tunable White (2700K-5000K or 2700K-6500K), 90+ CRI
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- · NX Lighting Controls wired and wireless controls capability available



LOCATION:

PROJECT:







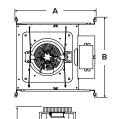








*Select model



DATE:

CATALOG #:

Lumer "A" Length "B" Width Weight Package Inches (mm) Inches (mm) Inches (mm) lbs (ka) 14.56 (370) 14.36 (365) 5.9 (150) 7.8 (3.5) 06L - 15L 14.56 (370) 14.36 (365) 6.68 (170) 20L - 30L 8.2 (3.7)

Typical Dimensions and Weights

See DIMENSIONS section for complete details

CONTROLS TECHNOLOGY







SPECIFICATIONS

CONSTRUCTION

- New Construction: Painted black durable steel platform with pre-installed bar hangers
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- High purity spun aluminum reflector, selfflanged
- Flush Mount flange option with mud-in ring available
- · Large selection of anodized finishes and colors
- · Painted cones and flange options available

ELECTRICAL

- LED array with 3 SDCM color consistency
- Dim to Warm (2200K-3000K) or Tunable White (2700K-5000K or 2700K-6500K) options available
- 90+ CRI standard

ELECTRICAL (CONTINUED)

- Long LED life: L70 at >60,000 hours (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0–10V dimming to 5%
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Emergency Battery Pack option available with remote test switch an indicator light
- Integral and remote controller and battery pack options available
- Refer to additional spec sheets for information on standard LITEISTRY solutions

INSTALLATION

- Accommodates ceiling thickness up to 2" (See DIMENSIONS section for details)
- Universal adjustable mounting brackets also accept ½" EMT conduit or 1½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine and driver serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling EM/EMR: Suitable for damp locations

CERTIFICATIONS (CONTINUED)

- EM/EMR: Certified under UL 924 standard for emergency lighting and power equipment
- EM/EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- When used with CE Bezel Trim Accessories: IP66/IP69K rating; also meets IK10 per IEC 60068-2-75 impact testing
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) See Buy America(n) Solutions
- For -TAA Option: Product configurations meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY

5 year warranty

KEY DATA								
Lumen Range	600-3000							
Wattage Range	10-49							
Efficacy Range (LPW)	49-60*							
Reported Life (Hours)	L70 / >60,000							
Input Current (mA)	83-408 (120V)							

*Based on Specular, 30K, 90 CRI





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: LTR-6RD-H-SL10L-DMTW-LTR-6RD-T-SL2230TD9MD-S CATALOG #

HOUSING

LTR-6RD-H	-					_								-
Aperture/Shape/Function		Lum	nen Package	Lume	n Output		Driver C	Options	Cont	rol Options	Voltage	Hous	sing Options	
LTR-6RD-H 6" Round Downlight New Construction Housing		ML HL	Standard Lumen Medium Lumen High Lumen	06L 10L 15L 20L 25L 30L	600 1000 1500 2000 2500 3000		DMT	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% ¹ SpectraSync™ Tunable White, 0-10V Dimming to 5% ²	Netwo NXW	ghting Controls rked Wireless NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor rked Wired NX Wired Dual RJ45 SmartPORTS, without Sensor	Standard 120-277V	IC EM EMR	Chicago Plenum ^{6,7,8} IC rated ^{6,7,8} 7W Emergency Battery Pack (CEC Title 20 Compliant) with integral test switch and indicator light ^{6,8} 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light ^{6,8} Fuse ⁶ Buy American Act (FAR 52.225-9) Compliant Trade Agreements Act (FAR 52.225-11) Compliant	

TRIM

LTR-6RD-T		_								
Aperture/Shape/Function			Lumei	n Package	ССТ		CRI		Distri	ibution
LTR-6RD-T	6" Round Downlight Light Engine/Trim Assembly		SL ML HL	Standard Lumen Medium Lumen High Lumen	2230TD 2750T 2765T	2200K-3000K SpectraSync [™] Dim to Warm 2700K-5000K SpectraSync [™] Tunable White 2700K-6500K SpectraSync [™] Tunable White	9	90+CRI	MD WD XW	Narrow (0.3 SC/18°) Medium (0.6 SC/37°) Wide (0.9 SC/59°) Extra Wide (1.1 SC/76°)

TRIM CONTINUED

										-
Reflec	tor Finish	Reflec	tor Color	Flange	e Color Options	Lowe	r Trim Options	Refle	ctor Options	
	h not applicable with d reflectors (WC or BC)	CG	Standard Clear Champagne Gold	Stand WT	dard matches reflector color White Flange ³	EM	Pre-punched reflector for EM integral test switch and	AM BAA	Antimicrobial Coating ⁴ Buy American Act	
s ss	Specular Semi-Specular	BL LW	Black Light Wheat	вт	Black Flange ³	FM	indicator Flush Mount Mud-in Ring ⁵	TAA	(FAR 52.225-9) Compliant Trade Agreements Act	
MFC VS VSS	American Matte™ Softglow® SoftSheen™	PW WC BC	Pewter Painted White Cone and Flange Painted Black Cone and Flange						(FAR 52.225-11) Compliant	

Accessories					
☐ B24	Set of two (2) 24" bar hangers for T-bar ceilings				
□ B6	Set of two bar hangers for ceiling joist up to 24" centers				
FMR6-R	Flush Mount Mud-In Ring, 6" Round				
LiteGear	LiteGear® Inverter, 125VA-250VA				
LPS Series	LightPower Micro-Inverter, 20VA-55VA				
MOR6-R-WH	Metal Oversized Ring, 6" Round, White (10" outside diameter)				
MOR6-R-BL	Metal Oversized Ring, 6" Round, Black (10" outside diameter)				
LTR-SCA6	Sloped Ceiling Adapter, 6", White 9				
(See next page for Bezel Trim Accessories for Complex Environments) 10					

Notes:

- 1 Must select 2230TD with DMTW driver.
- 2 Must select either 2750T or 2765T with DMT driver.
- WT not needed for WC, BT not needed for BC.
- 4 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 5 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- Housing options (except Fuse, BAA/TAA) not available in combination.
- IC, CP available in 06L.
- 8 Not available with Control options.
- Specify slope angle $5^{\circ}\text{-}35^{\circ}$ in 5° increments. Not available with EM or FM options.
- See next page for option restrictions when using with bezel trim accessories.





DATE:	LOCATION:
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ACCESSORIES CONTINUED

Bezel Trim Accessories 1,2,3,4

For more demanding environments, LITEISTRY™ offers bezel trim accessories that can be field installed onto standard housing/trim assemblies and are available with antimicrobial trim finish and/or vandal resistant hardware options.

FEATURES:

- · Marine grade die cast aluminum bezel trim with low-copper alloy for durability
- Shatter resistant, 1/4" clear polycarbonate lens, completely flush for easy wipe down
- · Closed cell silicone gasket protects against dust and water ingress
- · Suitable for wet locations, covered ceiling
- IP66/IP69K rated (room side) when properly installed per installation instructions
- Meets IK10 per IEC 60068-2-75 impact testing
- · Optional anti-microbial (AM) trim finish











Complex Environment (Includes stainless steel Philips head screws)								
LTR-6RD-CE-WT	Bezel Trim Accessory, IP66/IP69K, 6" Round, White							
LTR-6RD-CE-WTAM	Bezel Trim Accessory, IP66/IP69K, 6" Round, White Antimicrobial							
Vandal Resistant (Includes s	Vandal Resistant (Includes stainless steel Torx® screws with tamper resistant center pin reject)							
LTR-6RD-CEVR-WT	Bezel Trim Accessory, Vandal Resistant/IP66/IP69K, 6" Round, White							
LTR-6RD-CEVR-WTAM	Bezel Trim Accessory, Vandal Resistant/IP66/IP69K, 6" Round,							

Dimensional Data							
Aperture Opening	Ø 5.75" (146.1 mm)						
Overall Flange	Ø 9.42" (293.3 mm)						
Trim Height	0.42" (10.7 mm)						
Ceiling Cutout	Ø 8.25" (209.6 mm)						
Ceiling Thickness	0.50" to 2.00"(12.7 mm to 50.8 mm)						

Notes:

- Available up to 4000 Max Lumens.
- Not available in combination with EM or FM options.
- Not available in combination with FMR, LTR-MOR or LTR-SCA accessories.
- Refer to all Installation Instructions for complete details.

NX LIGHTING CONTROLS

					Contro	l Optio						
	Control Option Ordering Logic & Description			Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Control Option Components	
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	√	✓	-	-	✓	/	√	8	NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	√	✓	_	_	✓	√	√ ₁	25	NXDSP

¹ Requires NXBTC, order separately.

NX LIGHTING CONTROLS APP





The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.





Android

Apple iOS



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DATE:	LOCATION:
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SPECTRASYNC™ COLOR TUNING TECHNOLOGY

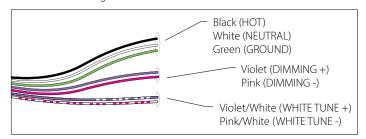
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNC COLOR TUNING TECHNOLOGY									
Mode	Kelvin Range	Description							
Dim to Warm	2200K-3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed							
Tunable White	2700K-5000K 2700K-6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space							
Scheduled White	2700K-5000K 2700K-6500K	Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being							

SpectraSync Tunable White

Available in two options: 2750T (2700K-5000K) or 2765T (2700K-6500K). Requires two 0-10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

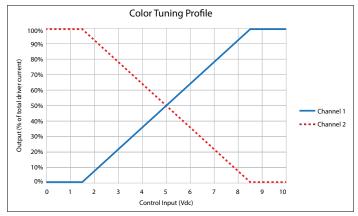


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



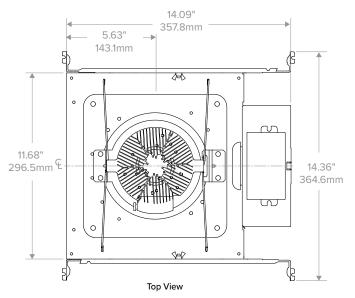
To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync





DIMENSIONS

Lumen Package	"A"
06L-10L	5.90" (149.9mm)
15L-20L	7.86" (199.6mm)
25L-30L	9.04" (229.6mm)

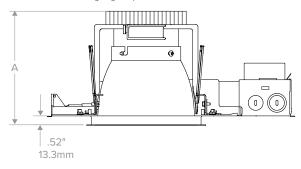


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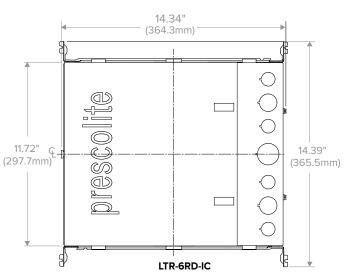
Dimensional Data		
Aperture 5.75" (146.1mm)		5.75" (146.1mm)
	Standard	7.00" (177.8mm)
Flange:	Flush Mount	6.54" (166.0mm)
With Bezel Trim Accessory**		Ø 9.42" (293.3 mm)
	Standard	6.50" (165.1mm)
Ceiling Cutout:	Flush Mount	6.75" (171.5mm)
	With Bezel Trim Accessory**	Ø 8.25" (209.6 mm)
	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
Ceiling Thickness:	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)
	With Bezel Trim Accessory**	0.50" to 2.00"(12.7 mm to 50.8 mm)

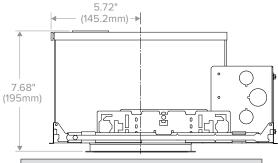
SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

** For complete details on Bezel Trim Accessories, see Accessory section on Page 3 and Bezel Trim Installation Instructions on currentlighting.com/prescolite.



LTR-6RD-H New Construction





Dimensional Data		
Aperture		5.75" (146.1mm)
Florida	Standard	7.00" (177.8mm)
Flange:	Flush Mount	6.54" (166.0mm)
Ceiling	Standard	6.50" (165.1mm)
Cutout:	Flush Mount	6.75" (171.5mm)
Ceiling	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
Thickness:	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.



LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

LTR-6RD-H-ML20L-DMT / LTR-6RD-T-ML2765T9NRS

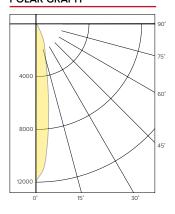
LUMINAIRE DATA

Test No.	R19.02201-C01
Description	2000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	2146
Watts	35.2W
Efficacy	61.0
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2083	97.1
0-60	2146	100.0
0-90	2146	100.0
0-180	2146	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	7976
5	6898
15	2784
25	1179
35	263
45	72
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6072
55°	0
65°	0
75°	0
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DMT / LTR-6RD-T-ML2765T9MDS

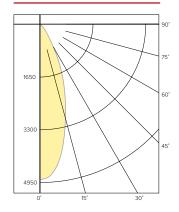
LUMINAIRE DATA

Test No.	R19.02200-C01
Description	2000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	2077
Watts	35.4W
Efficacy	59.0
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	37

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1992	95.9
0-60	2074	99.9
0-90	2077	100.0
0-180	2077	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4221
5	4036
15	2741
25	1362
35	369
45	91
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	7675
55°	624
65°	282
75°	230
85°	0

*Candela/Square Meter

LTR-6RD-H-ML20L-DMT / LTR-6RD-T-ML2765T9WDS

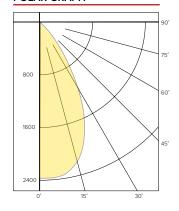
LUMINAIRE DATA

Test No.	R19.02199-C01
Description	2000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1989
Watts	35.3W
Efficacy	56.0
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	59

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1833	92.1
0-60	1985	99.8
0-90	1989	100.0
0-180	1989	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2069
5	2080
15	1973
25	1454
35	677
45	168
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14168
55°	1040
65°	423
75°	230
85°	0

*Candela/Square Meter





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY CONTINUED

LTR-6RD-H-ML20L-DMT / LTR-6RD-T-ML2765T9XWS

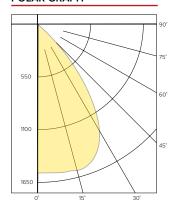
LUMINAIRE DATA

Test No.	R19.00586-20
Description	2000 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1951
Watts	35.3W
Efficacy	55.0
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	76

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1711	87.7
0-60	1946	99.8
0-90	1951	100.0
0-180	1951	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1411
5	1416
15	1437
25	1333
35	919
45	275
55	8
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	23154
55°	853
65°	386
75°	210
85°	0

*Candela/Square Meter



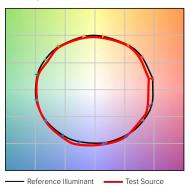
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CATALOG #:

TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI

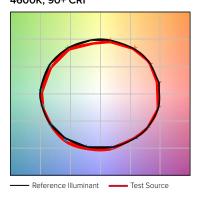


COLOR DISTORTION GRAPHIC 2700K, 90+ CRI



TEST RESULTS - TUNABLE WHITE @ 1500 LUMENS (NOMINAL) 4600K 6500K Value 2700K Luminous Flux (Im) 1407 1604 1660 24.6 Wattage (W) 23.9 24.3 Efficacy (Im/W) 59 66 68 R_{f} 90 89 87 R_{a} 97 98 96 CCT (K) 2817 4588 6518 -0.0013 -0.0040 0.0018 D_{uv} 0.4482 0.3565 0.3131 Χ 0.4047 0.3531 0.3273 У CIE R 91 95 94 CIE R 47 81 76

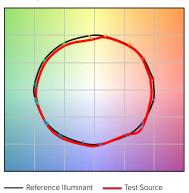
COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI





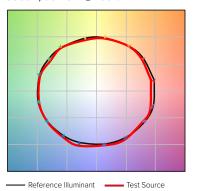
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TYPE:	PROJECT:

CATALOG #:

TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

COLOR VECTOR GRAPHIC 3000K, 90+ CRI @ 100%



COLOR DISTORTION GRAPHIC 3000K, 90+ CRI @ 100%



Luminous Flux (Im) 1501 772 53 Wattage (W) 24.3 14 3.4 Efficacy (Im/W) 62 55 16 91 R_{f} 90 92 R_{a} 97 99 102 CCT (K) 3123 2590 2282 -0.0017 -0.0015 -0.0029 D_{uv} 0.4261 0.4662 0.4907 Χ 0.3965 0.4082 0.4068 У CIE R 92 93 93

53

TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS 100%

Value

CIE R_o

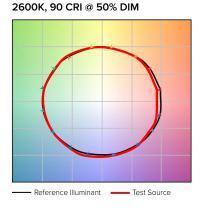
50% Dim

60

5% Dim

64

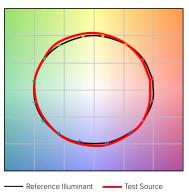
COLOR VECTOR GRAPHIC



COLOR DISTORTION GRAPHIC 2600K, 90 CRI @ 50% DIM



COLOR VECTOR GRAPHIC 2200K, 90 CRI @ 5% DIM



COLOR DISTORTION GRAPHIC 2200K, 90 CRI @ 5% DIM





DATE:	LOCATION:
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ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	
Input Frequency	50/60 Hz	
Power Factor	≥0.90	
THD	<20%	
EMI Filtering (FCC 47 CFR Part 15)	Class A	

ADDITIONAL INFORMATION

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite for your Central Lighting Inverter options. Please contact your local Current representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

Bezel Trim Accessories for Complex Environments

See installation instructions on currentlighting.com/prescolite for complete details.

Lumen Output in Emergency Mode

To determine the lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW). For example, $7W \times 120 \text{ LPW} = 840 \text{ lumens in emergency mode.}$

