

LTR-6SQD SpectraSync

LITEISTRY 6" SQUARE DOWNLIGHT WITH COLOR TUNING

FEATURES

- 6" architectural LED downlight delivering 600 3000 lm
- Four beam distributions from 0.6 to 1.2 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















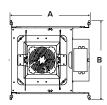


CONTROLS TECHNOLOGY









DATE: TYPE:

CATALOG #:



	Typical Dimensions and Weights										
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)							
06L - 15L	14.56 (370)	14.36 (365)	6 (152)	8 (3.6)							
20L - 30L	14.56 (370)	14.36 (365)	6.78 (172)	8.4 (3.8)							

See DIMENSIONS section for complete details

LITEISTRY

LOCATION:

PROJECT:

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 four-panel aluminum reflector, self-flanged
- 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
- Refer to additional spec sheets for information on standard LITEISTRY solutions

- Accommodates ceiling thicknesses up to 1.25" (See DIMENSIONS section for details)
- Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6).
- Light Engine/Driver fully 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 vear warrantv

KEY DATA								
Lumen Range	600-3000							
Wattage Range	10-49							
Efficacy Range (LPW)	51-58*							
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-6SQD-H-SL10L-DMTW-LTR-6SQD-T-SL2230TD9MD-SS CATALOG #

HOUSING

LTR-6SQD-H 6" Square Downlight New Construction Housing HL High Lumen 30L 3000 Lumen Package Lumen Output Driver Options Control Options Voltage Housing Options NX Lighting Controls Networked Wireless NXW NX Networked Wireless NXW NX Networked Wireless NXRM2 and Bluetooth Programming, without Sensor Networked Wireless Nation N	LTR-6SQD-H	4	-					-								_
Downlight New Construction Housing Lumen 10L 1000 1000 10L 1000	Aperture/Sha	pe/Function		Lum	en Package	Lume	n Output		Driver C	Options	Cont	rol Options	Voltage	Hou	sing Options	
NXE NX Wired Dual RJ45 SmartPORTS, without Sensor F Fuse 6 BAA Buy American Act (FAR 52.225-9) Compliant TAI Trade Agreements Act (FAR 52.225-11) Compliant		Downlight New Construction		ML	Lumen Medium Lumen High	10L 15L 20L 25L	1000 1500 2000 2500			Dim to Warm, 0-10V Dimming to 5%¹ SpectraSync™ Tunable White, 0-10V Dimming	Netwo	nked Wireless NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor orked Wired NX Wired Dual RJ45 SmartPORTS, without		EMR F BAA	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	

LTR-6SQD-T	_							-
Aperture/Shape/Function		Lumen Package	ССТ		CRI		Distr	bution
LTR-6SQD-T 6" Square Downlight Light Engine/Trim Assembly		SL Standard Lumen ML Medium Lumen HL 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 (0.6 SC/36°) Medium (0.7 SC/43°) Wide (1.0 SC/65°) Extra Wide (1.2 SC/69°)

TRIM CONTINUED

									-
Refle	ctor Finish	Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
	sh not applicable with ad reflectors (WC or BC) Specular Semi-Specular Softglow®	CG BL LW PW	Standard Clear Champagne Gold Black Light Wheat Pewter Painted White Cone and Flange	Stand WT BT	dard matches reflector color White Flange ³ Black Flange ³	EM FM	Pre-punched reflector for EM integral test switch and indicator Flush Mount Mud-in Ring ⁵	AM BAA TAA	Antimicrobial Coating ⁴ Buy American Act (FAR 52.225-9) Compliant Trade Agreements Act (FAR 52.225-11) Compliant
		BC	Painted White Cone and Flange Painted Black Cone and Flange						

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-SQ	Flush Mount Mud-In Ring, 6" Square					
LiteGear	LiteGear® Inverter, 125VA-250VA					
LPS Series	LightPower Micro-Inverter, 20VA-55VA					
MOR6-SQ-WH	Metal Oversized Ring, 6" Square, White (10.25" outer dimension)					
MOR6-SQ-BL	Metal Oversized Ring, 6" Square, Black (10.25" outer dimension)					
(See next page for Bezel Trim Accessories for Complex Environments) 9						

Notes:

- 1 Must select 2230TD with DMTW driver.
- Must select either 2750T or 2765T with DMT driver.
- 3 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.
- Flush Mount Flange (FM) requires FMR accessory (sold separately).
- Housing options (except Fuse, BAA/TAA) not available in combination.
- IC, CP available in 06L.
- Not available with Control options.
- See next page for option restrictions when using with bezel trim accessories.





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #	

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)						
Bezel Trim Accessory, IP66/IP69K, 6" Square, White						
Bezel Trim Accessory, IP66/IP69K, 6" Square, White Antimicrobial						
Vandal Resistant (Includes stainless steel Torx® screws with tamper resistant center pin reject)						
Bezel Trim Accessory, Vandal Resistant/IP66/IP69K, 6" Square, White						

White Antimicrobial

Bezel Trim Accessory, Vandal Resistant/IP66/IP69K, 6" Square,

Dimensional Data							
Aperture Opening	□ 6.00" (152.4 mm)						
Overall Flange	□ 9.69" (246.1 mm)						
Trim Height	0.42" (10.7 mm)						
Ceiling Cutout	□ 8.50" (215.9 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 or LTR-MOR accessories.
- Refer to all Installation Instructions for complete details.

NX LIGHTING CONTROLS

LTR-6SQD-CEVR-WTAM

				1	Contro	l Optio	n Func					
	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	/	✓	/	-	-	✓	/	✓	6	NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	/	√	/	-	-	✓	/	√ ₁	22	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





LOCATION: DATE: PROJECT: TYPE: CATALOG #:

SPECTRASYNC™ COLOR TUNING TECHNOLOGY

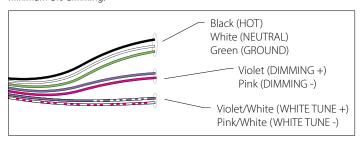
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

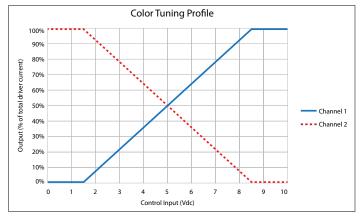


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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

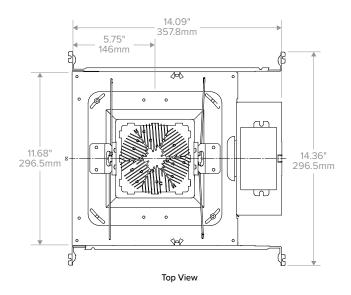


To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync



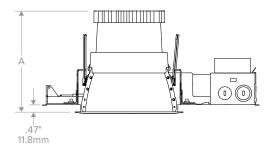


DIMENSIONS



LTR-6SQD-H New Construction

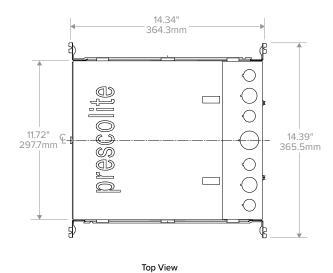
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CATALOG #:	



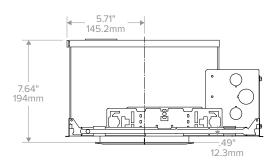
Dimensional Data		
Ap	Aperture 6.00" (152.4mm) S	
	Standard	7.25" (184.2mm) SQ
Flange	Flush Mount	6.47" (164.3mm) SQ
3.	With Bezel Trim Accessory**	□ 9.69" (246.1 mm)
	Standard	6.69" (169.9mm) SQ
Ceiling	Flush Mount	6.88" (174.8mm) SQ
Cutout	With Bezel Trim Accessory**	□ 8.50" (215.9 mm)
Ceiling	0.50" to 1.25" (12.7mm to 31.8mm)	
Thickness	With Bezel Trim Accessory**	0.50" to 2.00" (12.7 mm to 50.8 mm)

Lumen Package	"A"
06L-10L	6.00" (152.4mm)
15L-20L	7.96" (202.2mm)
25L-30L	9.14" (232.2mm)

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



LTR-6SQD-H IC/CP



Dimensional Data		
Aperture		6.00" (152.4mm) SQ
Florido	Standard	7.25" (184.2mm) SQ
Flange	Flush Mount	6.47" (164.3mm) SQ
Ceiling	Standard	6.69" (169.9mm) SQ
Cutout	Flush Mount	6.88" (174.8mm) SQ
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)





LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

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

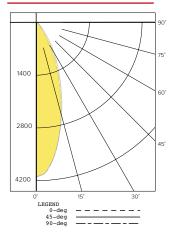
LUMINAIRE DATA

Test No.	R19.00935-21
Description	2000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	2035
Watts	35.3W
Efficacy	58.0
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	43

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1919	94.3
0-60	2028	99.7
0-90	2035	100.0
0-180	2035	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	4127	4127	4127
5	3890	3892	3890
15	2530	2597	2535
25	1205	1389	1214
35	309	567	311
45	89	121	91
55	17	23	17
65	4	5	4
75	2	2	2
85	0	1	0
90	0	0	0

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

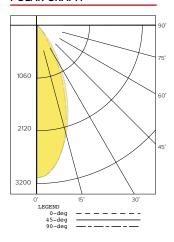
LUMINAIRE DATA

Test No.	R19.01046-21
Description	2000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	2023
Watts	35.3W
Efficacy	57.0
Mounting	Recessed
Spacing Criterion	0.7
Beam Angle (FWHM)	65

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1891	93.5
0-60	2016	99.7
0-90	2023	100.0
0-180	2023	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	3315	3315	3315
5	3197	3198	3196
15	2392	2447	2386
25	1272	1460	1270
35	378	627	378
45	103	142	103
55	18	27	18
65	4	5	5
75	2	2	2
85	0	1	0
90	0	0	0

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

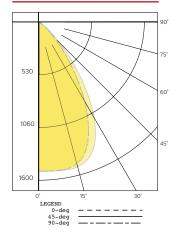
LUMINAIRE DATA

Test No.	R19.00936-21
Description	2000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1853
Watts	35.3W
Efficacy	52.0
Mounting	Recessed
Spacing Criterion	1.0
Beam Angle (FWHM)	69

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1613	87.0
0-60	1843	99.5
0-90	1853	100.0
0-180	1853	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1548	1548	1548
5	1552	1553	1552
15	1525	1556	1518
25	1218	1369	1210
35	640	835	636
45	187	281	189
55	28	49	29
65	5	6	5
75	3	3	3
85	1	1	1
90	0	0	0





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

PHOTOMETRY CONTINUED

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

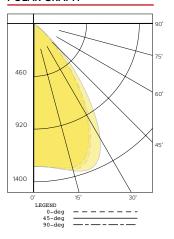
LUMINAIRE DATA

Test No.	R19.01047-21
Description	2000 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1802
Watts	35.3W
Efficacy	51.0
Mounting	Recessed
Spacing Criterion	1.2
Beam Angle (FWHM)	69

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1523	84.5
0-60	1792	99.4
0-90	1802	100.0
0-180	1802	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela - 0	Candela - 45	Candela - 90
0	1235	1235	1235
5	1244	1245	1243
15	1306	1318	1289
25	1163	1310	1127
35	707	885	681
45	223	335	219
55	33	58	33
65	6	7	6
75	3	3	3
85	1	1	1
90	0	0	0



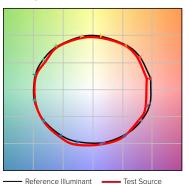


LOCATION: DATE: TYPE: PROJECT: CATALOG #:

TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI

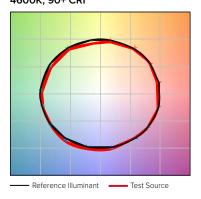


COLOR DISTORTION GRAPHIC 2700K, 90+ CRI



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

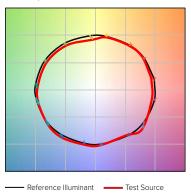
COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI



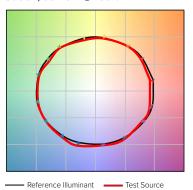


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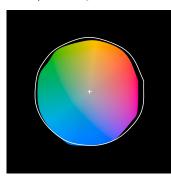
TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

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

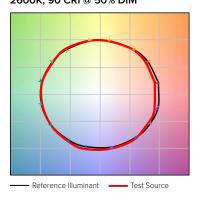


COLOR DISTORTION GRAPHIC 3000K, 90+ CRI @ 100%



TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS 100% 50% Dim 5% Dim Value 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 CIE R_o 53 60 64

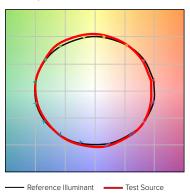
COLOR VECTOR GRAPHIC 2600K, 90 CRI @ 50% DIM



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 currentlgihting.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, $7W \times 120 \text{ LPW} = 840 \text{ lumens in emergency mode.}$

