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LTR-4RW Lens SpectraSync
LITEISTRY 4" ROUND LENSED WALL WASH (LWW)
WITH COLOR TUNING

LITEISTRY™

FEATURES

- 4" architectural LED lensed wall wash delivering 600–2000 lm

- Provides smooth, uniform vertical illumination

- 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

WET LOCATION   C CSA US   BAA (-BAA Option)   TAA (-TAA Option)

CONTROLS TECHNOLOGY

NX WIRELESS   NX WIRED   SpectraSync Color Tuning Technology
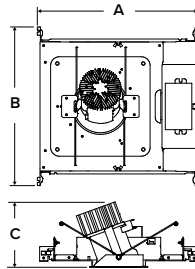
Typical Dimensions and Weights

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)	4.97 (126)	7.4 (3.3)
20L	14.56 (370)	14.36 (365)	6.15 (156)	7.8 (3.6)

See DIMENSIONS section for complete details

SPECIFICATIONS

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
- Provides excellent uniformity down the wall

- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition

- High purity spun 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

- Long LED life: L70 at >60,000 hours (TM-21)

ELECTRICAL (CONTINUED)
- 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 and indicator light

- Refer to additional spec sheets for information on standard LITEISTRY solutions

INSTALLATION
- Accommodates ceiling thickness up to 1.25"

- Universal adjustable mounting brackets also accept ½" EMT conduit or 1 ½" or ¾" 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 EMR: Suitable for damp locations

- EMR: Certified under UL 924 standard for emergency lighting and power equipment

CERTIFICATIONS (CONTINUED)
- EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant

- 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

KEY DATA	
Lumen Range	600-2000
Wattage Range	10-36
Efficacy Range (LPW)	44*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-300 (120V)

*Based on Specular, 30K, 90 CRI

Current

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ORDERING GUIDE

Example: LTR–4RD–H–SL10L–DMTW–LTR–4RW–T–SL2230TD9LWW–S

CATALOG #

HOUSING

LTR-4RD-H								
Aperture/Shape/Function		**Lumen Package**	**Lumen Output**	**Driver Options**	**Control Options**	**Voltage**	**Housing Options**	
LTR-4RD-H	4" Round Downlight / Wall Wash New Construction Housing	SL　Standard Lumen	06L　600	DMTW　SpectraSync™ Dim to Warm, 0-10V Dimming to 5% [1]	**NX Lighting Controls**	*Standard 120-277V*	CP	Chicago Plenum [6, 7, 8]
			10L　1000		**Networked Wireless**		IC	IC rated [6, 7, 8]
		ML　Medium Lumen	15L　1500	DMT　SpectraSync™ Tunable White, 0-10V Dimming to 5% [2]	NXW　NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor		EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [6, 8]
			20L　2000		**Networked Wired**		F	Fuse [6]
					NXE　NX Wired Dual RJ45 SmartPORTS, without Sensor		BAA	Buy American Act (FAR 52.225-9) Compliant
							TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-4RW-T					
Aperture/Shape/Function		**Lumen Package**	**CCT**	**CRI**	**Distribution**
LTR-4RW-T	4" Round Wall Wash Light Engine/Trim Assembly	SL　Standard Lumen	2230TD　2200K-3000K SpectraSync™ Dim to Warm	9　90+CRI	LWW　Lensed Wall Wash
		ML　Medium Lumen	2750T　2700K-5000K SpectraSync™ Tunable White		
			2765T　2700K-6500K SpectraSync™ Tunable White		

TRIM CONTINUED

Reflector Finish		Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
Finish not applicable with painted reflectors (WC or BC)		*Standard Clear*		*Standard matches reflector color*		FM	Flush Mount Mud-in Ring [3]	AM	Antimicrobial Coating [5]
S	Specular	CG	Champagne Gold	WT	White Flange [4]			BAA	Buy American Act (FAR 52.225-9) Compliant
SS	Semi-Specular	BL	Black	BT	Black Flange [4]			TAA	Trade Agreements Act (FAR 52.225-11) Compliant
MFC	American Matte™	LW	Light Wheat						
VS	Softglow®	PW	Pewter						
VSS	SoftSheen™	WC	Painted White Cone and Flange						
		BC	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
☐ **FMR4-R**	Flush Mount Flange Mud-In Ring, 4" Round
☐ **LiteGear**	LiteGear® Inverter, 125VA-250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA-55VA
☐ **MOR4-R-WH**	Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
☐ **MOR4-R-BL**	Metal Oversized Ring, 4" Round, Black (8.25" outside diameter)

Notes:
1. Must select 2230TD with DMTW driver.
2. Must select either 2750T or 2765T with DMT driver.
3. Flush Mount Flange (FM) requires FMR accessory (sold separately).
4. WT not needed for WC, BT not needed for BC.
5. AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
6. Housing options (except Fuse, BAA/TAA) not available in combination.
7. IC, CP available in 06L.
8. Not available with Control options.

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NX LIGHTING CONTROLS

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

1   Requires NXBTC, order separately.

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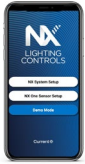
The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android   Apple iOS

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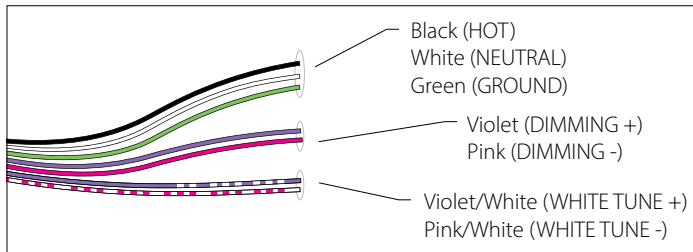## SPECTRASYNC™ COLOR TUNING TECHNOLOGY

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

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.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Pink (DIMMING -)

Violet/White (WHITE TUNE +)
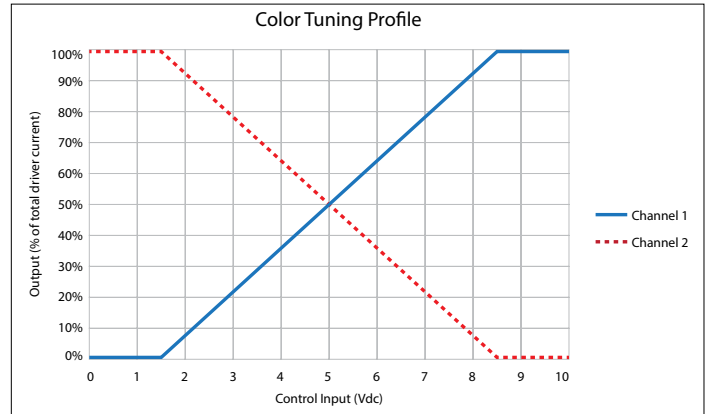Pink/White (WHITE TUNE -)

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
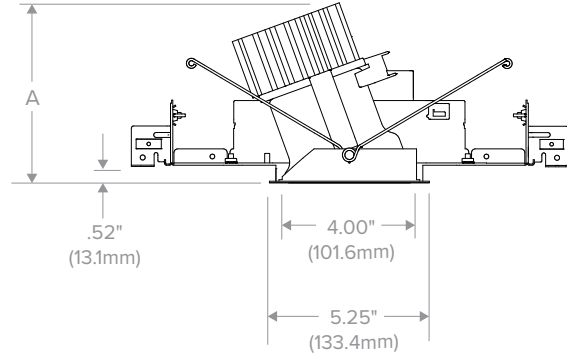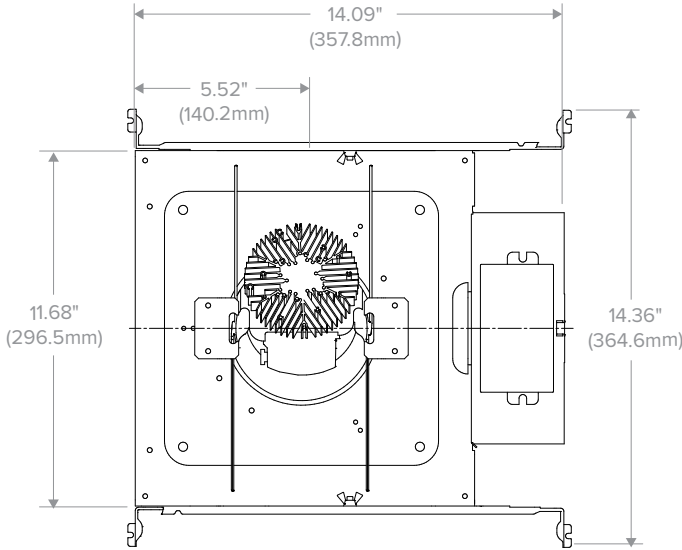- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile

Output (% of total driver current) vs Control Input (Vdc)

— Channel 1
---- Channel 2

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

LTR-4RW Lens SpectraSync_R02

LTR-4RW Lens SpectraSync

LITEISTRY 4" ROUND LENSED WALL WASH (LWW)
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DIMENSIONS

14.09"
(357.8mm)

5.52"
(140.2mm)

11.68"
(296.5mm)

14.36"
(364.6mm)

A

.52"
(13.1mm)

4.00"
(101.6mm)

5.25"
(133.4mm)

Dimensional Data		
Aperture		4.00" (101.6mm)
Flange:	Standard	5.25" (133.4mm)
	Flush Mount	4.50" (114.3mm)
Ceiling Cutout:	Standard	5.00" (127.0mm)
	Flush Mount	5.12" (130.0mm)
Ceiling Thickness:		0.50" to 1.25" (12.7mm to 31.8mm)

Lumen Package	"A"
06L-10L	4.72" (119.9mm)
15L-20L	6.97" (177.0mm)

LTR-4RW LENS-H
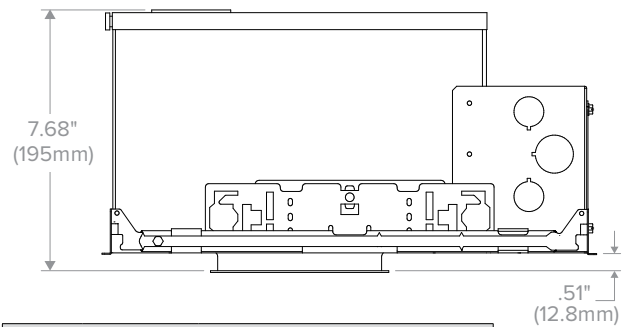
14.34"
(364.3mm)

7.18"
(182.3mm)

11.72"
(297.7mm)

14.39"
(365.5mm)

7.68"
(195mm)

.51"
(12.8mm)

Top View

Dimensional Data		
Aperture		4.00" (101.6mm)
Flange:	Standard	5.25" (133.4mm)
	Flush Mount	4.50" (114.3mm)
Ceiling Cutout:	Standard	5.00" (127.0mm)
	Flush Mount	5.12" (130.0mm)
Ceiling Thickness:		0.50" to 1.25" (12.7mm to 31.8mm)

LTR-4RW LENS - H IC/CP

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LTR-4RW Lens SpectraSync

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PHOTOMETRY

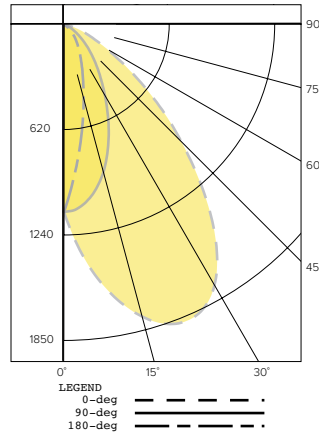### LTR-4RD-H-ML20L-DMT / LTR-4RW-T-ML2765T9LWWS

LUMINAIRE DATA

Test No.	R19.00821-16
Description	4" Lensed Wall-Wash; 2000lm 3000K, 90 CRI
Delivered Lumens	1598
Watts	36.4
Efficacy	44
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1109	69.4
0-60	1521	95.2
0-90	1598	100.0
0-180	1598	100.0

POLAR GRAPH

LEGEND
0–deg
90–deg
180–deg

CANDELA DISTRIBUTION

Degree	Candela
0	1082
5	1357
15	1746
25	1841
35	1529
45	961
55	468
65	181
75	57
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	157432
55°	94576
65°	49718
75°	25370
85°	0

*Candela/Square Meter

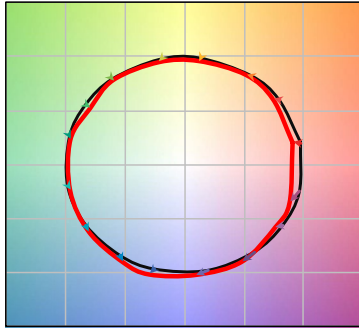| DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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TM-30 DATA

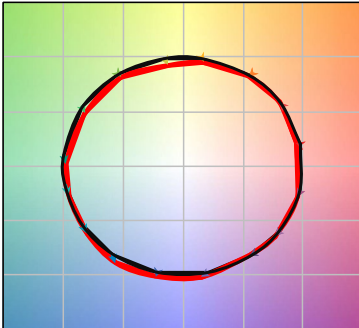### SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

— Reference Illuminant   — Test Source
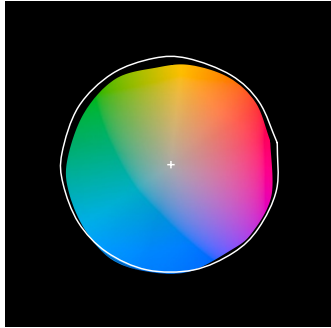
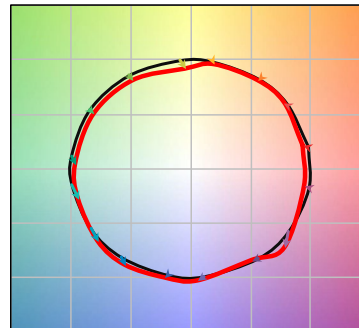**COLOR DISTORTION GRAPHIC**
2700K, 90+ CRI

COLOR VECTOR GRAPHIC
4600K, 90+ CRI

— Reference Illuminant   — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

COLOR VECTOR GRAPHIC
6500K, 90+ CRI

— Reference Illuminant   — Test Source

COLOR DISTORTION GRAPHIC
6500K, 90+ CRI

| TEST RESULTS - TUNABLE WHITE @ 1500 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	1407	1604	1660
Wattage (W)	23.9	24.3	24.6
Efficacy (lm/W)	59	66	68
R_f	90	89	87
R_g	97	98	96
CCT (K)	2817	4588	6518
D_{UV}	-0.0013	-0.0040	0.0018
x	0.4482	0.3565	0.3131
y	0.4047	0.3531	0.3273
CIE R_a	91	95	94
CIE R_9	47	81	76

LTR-4RW Lens SpectraSync
**LITEISTRY 4" ROUND LENSED WALL WASH (LWW)
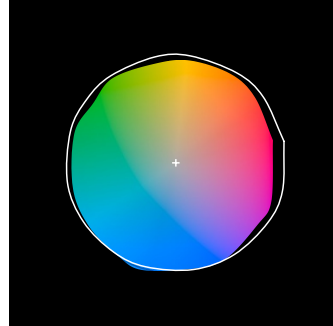WITH COLOR TUNING**

TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

**COLOR VECTOR GRAPHIC
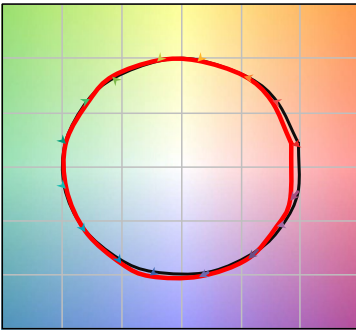3000K, 90+ CRI @ 100%**
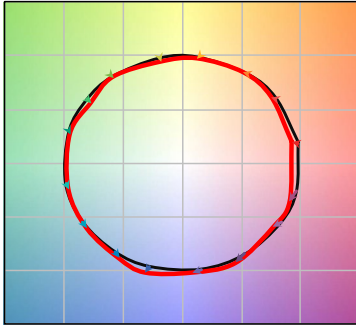
— Reference Illuminant   — Test Source

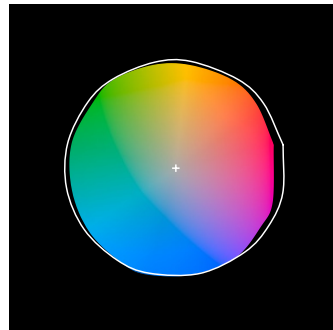**COLOR DISTORTION GRAPHIC
3000K, 90+ CRI @ 100%**

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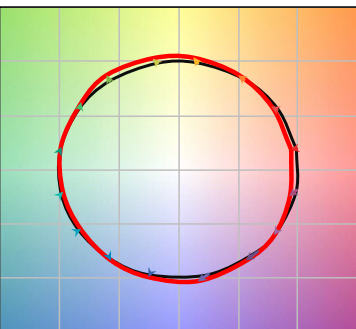2600K, 90 CRI @ 50% DIM**

— Reference Illuminant   — Test Source

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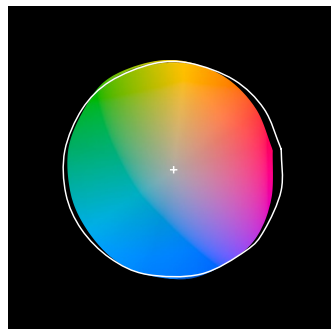2600K, 90 CRI @ 50% DIM**

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

— Reference Illuminant   — Test Source

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

TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS			
Value	100%	50% Dim	5% Dim
Luminous Flux (lm)	1501	772	53
Wattage (W)	24.3	14	3.4
Efficacy (lm/W)	62	55	16
R_f	90	92	91
R_g	97	99	102
CCT (K)	3123	2590	2282
D_{UV}	-0.0017	-0.0015	-0.0029
x	0.4261	0.4662	0.4907
y	0.3965	0.4082	0.4068
CIE R_a	92	93	93
CIE R_9	53	60	64

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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.

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 x 120 LPW = 840 lumens in emergency mode.