

# LTR-3SQW Lens SpectraSync

LITEISTRY 3" SQUARE LENSED WALL WASH (LWW)  
WITH COLOR TUNING

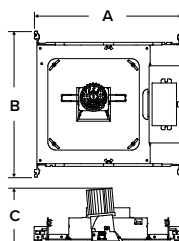
LITEISTRY™

## FEATURES

- 3" architectural LED lensed wall wash delivering 600–1300 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



## CONTROLS TECHNOLOGY



Typical Dimensions and Weights				
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 13L	14.56 (370)	14.39 (366)	5 (127)	7 (3.2)

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
- Reflector assembly with a satin diffuse acrylic lens
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- 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

### ELECTRICAL (CONTINUED)

- 90+ CRI standard
- Long LED life L70 / >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 and indicator light
- Refer to additional spec sheets for information on standard LITEISTRY solutions

### INSTALLATION

- Accommodates ceiling thicknesses 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 fully serviceable from above or below the ceiling; driver and EMR battery pack are serviceable above ceiling only

### CERTIFICATIONS

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

### CERTIFICATIONS (CONTINUED)

- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- 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	
Lumen Range	600–1300
Wattage Range	10–23
Efficacy Range (LPW)	51*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-208 (120V)

\*Based on Specular, 30K, 90 CRI

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## ORDERING GUIDE

Example: LTR-3SQD-H-SL10L-DMTW-LTR-3SQW-T-SL2230TD9LWW-SS

CATALOG #

### HOUSING

LTR-3SQD-H												
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options		Control Options		Voltage	Housing Options	
LTR-3SQD-H	3" Square Downlight / Wall Wash New Construction Housing	SL	Standard Lumen	06L	600	DMTW	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% <sup>1</sup>	<u>NX Lighting Controls</u> <u>Networked Wireless</u> NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <u>Networked Wired</u> NXE NX Wired Dual RJ45 SmartPORTS, without Sensor	<i>Standard 120-277V</i>	CP	Chicago Plenum <sup>5, 6, 7</sup>	
				10L	1000							
				13L	1300							
						DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% <sup>2</sup>				IC	IC rated <sup>5, 6, 7</sup>
											EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light <sup>5, 7</sup>
											F	Fuse <sup>5</sup>
											BAA	Buy American Act (FAR 52.225-9) Compliant
											TAA	Trade Agreements Act (FAR 52.225-11) Compliant

### TRIM

LTR-3SQW-T							
Aperture/Shape/Function		Lumen Package		CCT		CRI	
LTR-3SQW-T	3" Square Wall Wash Light Engine/Trim Assembly	SL	Standard Lumen	2230TD	2200K-3000K SpectraSync™ Dim to Warm	9	90+CRI
				2750T	2700K-5000K SpectraSync™ Tunable White		
				2765T	2700K-6500K SpectraSync™ Tunable White		
						Distribution	
						LWW Lensed Wall Wash	

### TRIM CONTINUED

Reflector Finish		Reflector Color		Flange Color Options		Reflector Options	
Finish not applicable with painted reflectors (WC or BC)		Standard Clear		Standard matches reflector color		AM Antimicrobial Coating <sup>4</sup>	
S Specular		CG Champagne Gold		WT White Flange <sup>3</sup>	BT Black Flange <sup>3</sup>	BAA Buy American Act (FAR 52.225-9) Compliant	TAA Trade Agreements Act (FAR 52.225-11) Compliant
SS Semi-Specular		LW Light Wheat					
VS Softglow®		PW Pewter					
		WC Painted White Cone and Flange					
		BC Painted Black Cone and Flange					

Accessories	
<input type="checkbox"/> B24	Set of two (2) 24" bar hangers for T-bar ceilings
<input type="checkbox"/> B6	Set of two bar hangers for ceiling joist up to 24" centers
<input type="checkbox"/> FMR3-SQ	Flush Mount Flange Mud-In Ring, 3" Square
<input type="checkbox"/> LiteGear	LiteGear® Inverter, 125VA–250VA
<input type="checkbox"/> LPS Series	LightPower Micro-Inverter, 20VA–55VA
<input type="checkbox"/> MOR3-SQ-WH	Metal Oversized Ring, 3" Square, White (6.75" outer dimension)
<input type="checkbox"/> MOR3-SQ-BL	Metal Oversized Ring, 3" Square, Black (6.75" outer dimension)



#### Notes:

- Must select 2230TD with DMTW driver.
- Must select either 2750T or 2765T with DMT driver.
- WT not needed for WC, BT not needed for BC.
- AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- Housing options (except Fuse, BAA/TAA) not available in combination.
- IC, CP available in 06L.
- 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	✓	✓	✓	-	-	✓	✓	✓ <sup>1</sup>		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

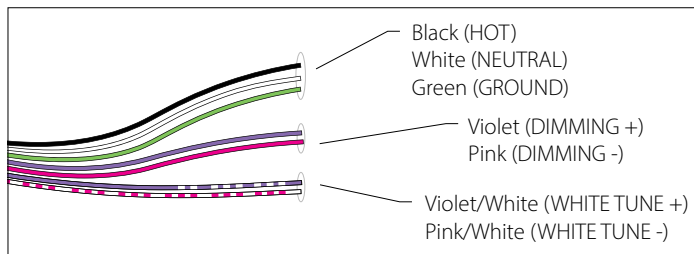
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASync COLOR TUNING TECHNOLOGY		
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.

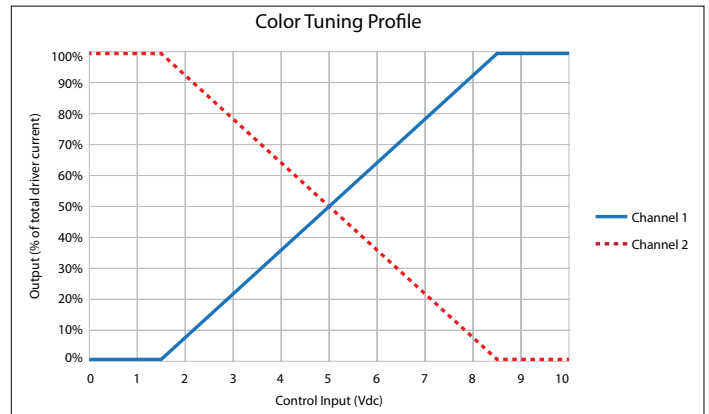


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### 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: DDTV, DVSTV, and NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



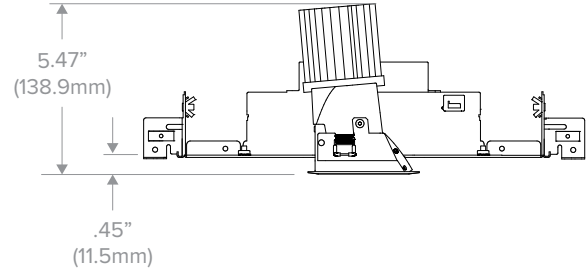
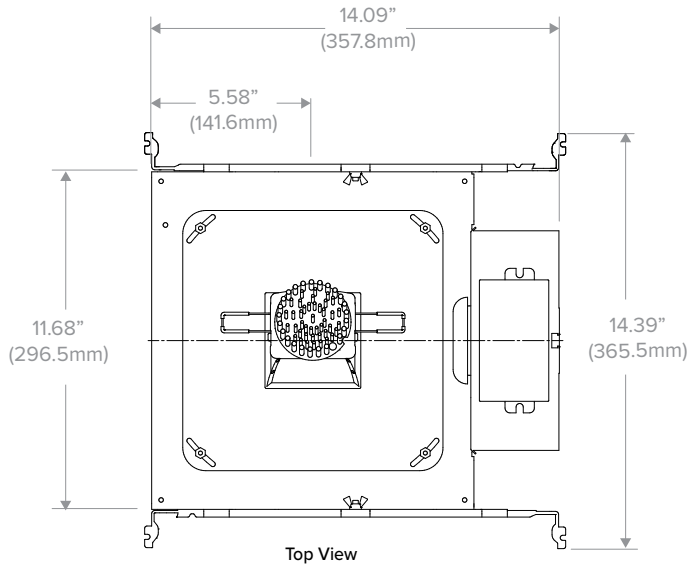
To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

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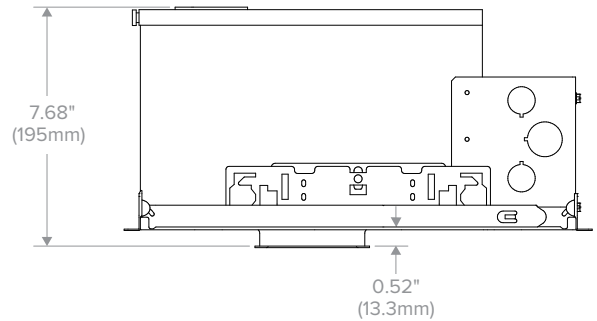
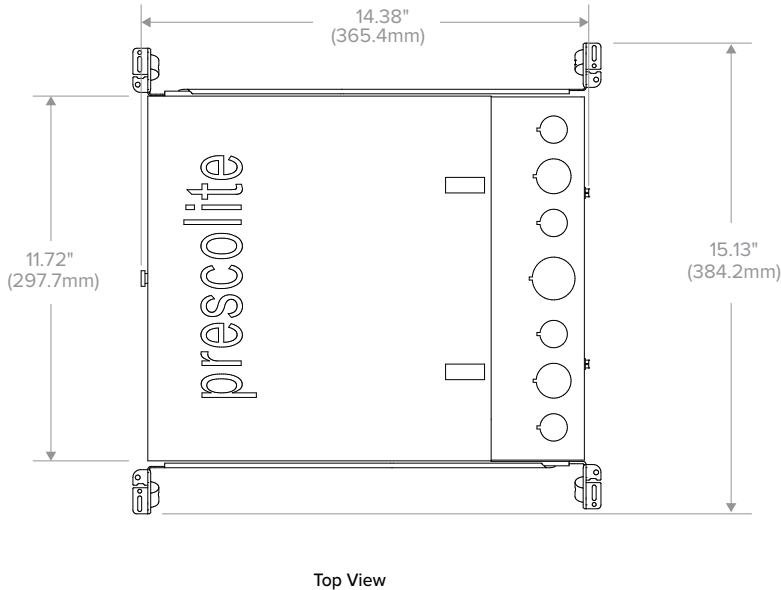
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TYPE:	PROJECT:
CATALOG #:	

## DIMENSIONS



Dimensional Data		
Aperture		2.88" SQ. (73.2mm)
Flange	Standard	3.62" SQ. (91.9mm)
	Flush Mount	3.62" SQ. (91.9mm)
Ceiling Cutout	Standard	3.31" SQ. (84.1mm)
	Flush Mount	3.94" SQ (100.1mm)
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

### LTR-3SQW Lens-H New Construction



Dimensional Data		
Aperture		2.88" SQ. (73.2mm)
Flange	Standard	3.62" SQ. (91.9mm)
	Flush Mount	3.62" SQ. (91.9mm)
Ceiling Cutout	Standard	3.31" SQ. (84.1mm)
	Flush Mount	3.94" SQ (100.1mm)
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

### LTR-3SQW-H Lens IC/CP

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## PHOTOMETRY

LTR-3SQD-H-SL13L-DMT / LTR-3SQW-T-SL2765T9LWWS

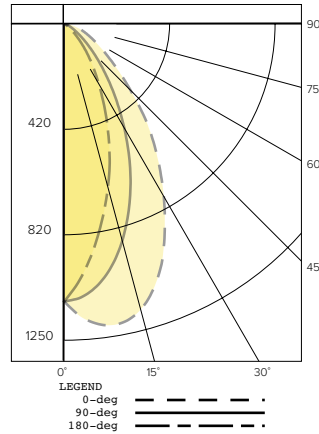
### LUMINAIRE DATA

Test No.	R19.00982-11
Description	3" Lensed Wall-Wash; 1300lm 3000K, 90 CRI
Delivered Lumens	1194
Watts	23.3W
Efficacy	51
Mounting	Recessed

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	909	76.1
0-60	1145	96.0
0-90	1194	100.0
0-180	1194	100.0

### POLAR GRAPH



### CANDELA DISTRIBUTION

Degree	Candela
0	1126
5	1211
15	1198
25	960
35	657
45	377
55	195
65	103
75	45
85	0
90	0

### LUMINANCE DATA\*

Vertical Angle	Average
45°	94886
55°	60636
65°	43502
75°	31123
85°	0

\*Candela/Square Meter

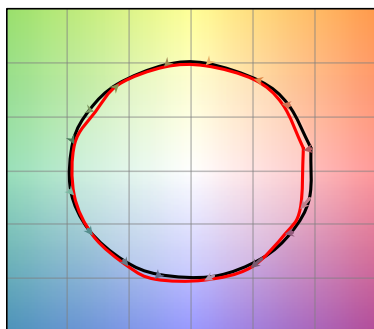
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## TM-30 DATA

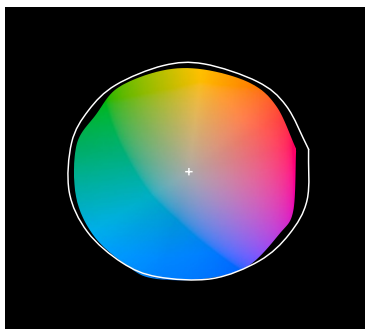
### SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC  
2700K, 90+ CRI



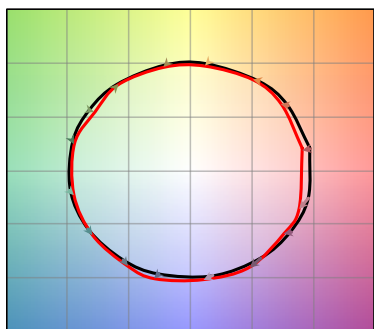
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
2700K, 90+ CRI



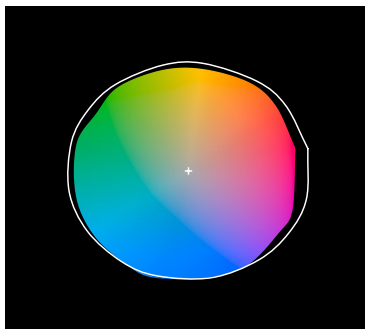
TEST RESULTS - TUNABLE WHITE @ 1300 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	1063	1231	1270
Wattage (W)	23.1	23.0	23.0
Efficacy (lm/W)	46	54	55
R <sub>f</sub>	89	89	88
R <sub>g</sub>	97	98	97
CCT (K)	2875	4615	6504
D <sub>uv</sub>	-0.0021	-0.0057	0.0011
x	0.4427	0.355	0.3135
y	0.4013	0.3486	0.3262
CIE R <sub>a</sub>	90	95	94
CIE R <sub>g</sub>	44	82	72

COLOR VECTOR GRAPHIC  
4600K, 90+ CRI

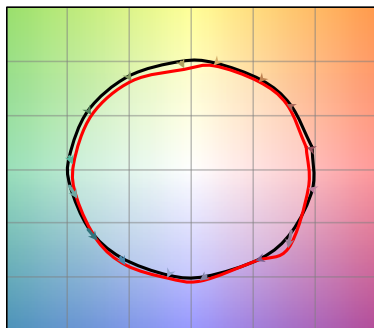


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
4600K, 90+ CRI

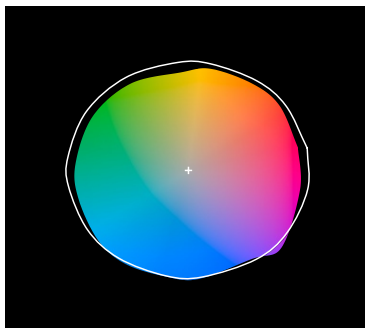


COLOR VECTOR GRAPHIC  
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
6500K, 90+ CRI



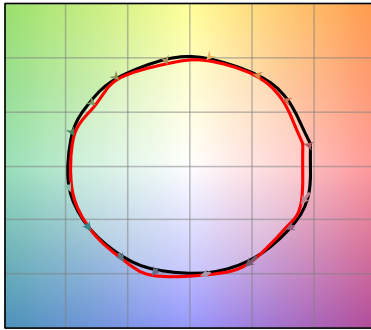
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## TM-30 DATA CONTINUED

### SPECTRASYNCTM DIM TO WARM (2230TD)

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

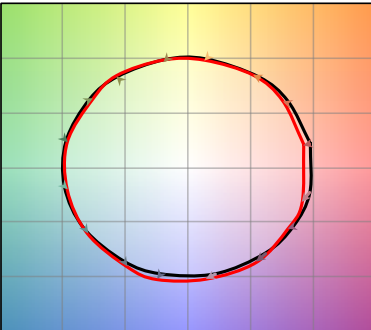


— Reference Illuminant — Test Source

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

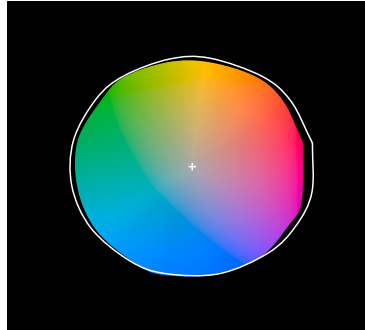


COLOR VECTOR GRAPHIC  
2600K, 90 CRI @ 50% DIM

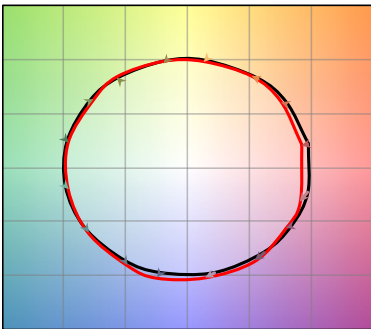


— Reference Illuminant — Test Source

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

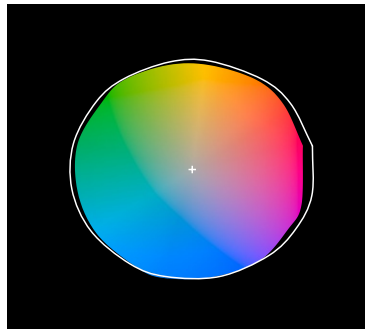


COLOR VECTOR GRAPHIC  
2200K, 90 CRI @ 5% DIM



— 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)	1198	662	52
Wattage (W)	23.07	12.14	2.43
Efficacy (lm/W)	52	55	21
R <sub>f</sub>	89	91	91
R <sub>g</sub>	97	99	99
CCT (K)	3212	2642	2210
D <sub>uv</sub>	-0.0019	-0.0020	-0.0008
x	0.4201	0.4609	0.5035
y	0.3936	0.4058	0.4145
CIE R <sub>a</sub>	91	93	92
CIE R <sub>g</sub>	49	59	58



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## ELECTRICAL DATA

DRIVER DATA	
Input Voltage	120-277V
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](http://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.