

# LTR-4RW Open SpectraSync

LITEISTRY 4" ROUND OPEN WALL WASH (WW/DWW/CWW) WITH COLOR TUNING

LITEISTRY™

## FEATURES

- 4" architectural LED wall wash delivering 600–2000 lm
- Single, double and corner wall wash solutions
- Provides uniform vertical illumination as well as room side light
- Quiet reflector appearance with 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 in New Construction (non-IC), IC and Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- NX Distributed Intelligence™ wired and wireless controls capability available



## RELATED PRODUCTS

Ø 3" LITEISTRY  
Family

Ø 4" LITEISTRY  
Family

Ø 6" LITEISTRY  
Family



## CONTROL TECHNOLOGY



## 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

- Visually pleasing 50° cutoff to source and source image
- Open cone and kicker reflector assembly with an optical grade silicone lens integral to light engine
- Available in Single, Double, and Corner wall wash distributions
- Provides excellent uniformity down the wall while also contributing to room side lighting
- 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 (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0–10V dimming to 5%
- NX or Lutron Vive control options available
- Emergency battery pack option available with remote test switch and indicator light
- Refer to additional spec sheets for information on [standard LITEISTRY](#) or [PowerHUBB™ PoE enabled](#) solutions

### INSTALLATION

- Accommodates ceiling thickness up to 2" (WW/DWW); up to 1.25" (CWW)
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" 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 damp locations
- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#).

### WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	600-2000
Wattage Range	10-36
Efficacy Range (LPW)	48*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-300 (120V)

\*Based on Specular, 30K, 90 CRI



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# LTR-4RW Open SpectraSync

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WITH COLOR TUNING

## ORDERING GUIDE

Example: LTR-4RD-H-SL10L-DMTW-LTR-4RW-T-SL2230TD9WW-S

CATALOG #	
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### HOUSING

LTR-4RD-H													
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options		Control Options		Voltage		Housing Options	
LTR-4RD-H	4" Round Downlight/WW/DWW Wall Wash New Construction Housing	SL	Standard Lumen	06L	600	DMTW	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% <sup>1</sup>	NXE	NX Enabled, Dual SmartPorts	Standard 120-277V	CP	Chicago Plenum <sup>8, 9, 10</sup>	
				10L	1000								IC
LTR-4RCW-H	4" Round Corner Wall Wash Housing <sup>6</sup>	ML	Medium Lumen	15L	1500	DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% <sup>2</sup>	NXWE	NX Wireless Enabled	NXWD	NX Wireless Enabled, Dual SmartPorts	EMR	
				20L	2000								LV

### 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	WW	Single Wall Wash
		ML	Medium Lumen	2750T	2700K-5000K SpectraSync™ Tunable White			DWW	Double Wall Wash
				2765T	2700K-6500K SpectraSync™ Tunable White			CWW	Corner Wall Wash <sup>6</sup>

### 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		AM	
S	Specular	CG	Champagne Gold	WT	White Flange <sup>3</sup>	Flush Mount Mud-in Ring <sup>5</sup>		Antimicrobial Coating <sup>4</sup>	
SS	Semi-Specular	BL	Black	BT	Black Flange <sup>3</sup>				
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	
<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"/> FMR4-R	Flush Mount Mud-In Ring, 4" Round
<input type="checkbox"/> LiteGear	LiteGear® Inverter, 125VA-250VA
<input type="checkbox"/> LPS Series	LightPower Micro-Inverter, 20VA-55VA
<input type="checkbox"/> MOR4-R-WH	Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
<input type="checkbox"/> 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 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).
- 6 CWW must use LTR-4RCW-H housing.
- 7 LV available only with DMTW driver option.
- 8 Housing options (except Fuse) not available in combination.
- 9 IC, CP available in 06L.
- 10 Not available with Control options.

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## CONTROLS

### NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
<b>NX Networked – Wired</b>								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires <a href="#">NXBTC/R</a> <sup>1</sup>
<b>NX Networked – Wireless</b>								
NXWE <sup>2</sup>	N/A	Yes	Yes	No	No	Yes	Yes	No <sup>3</sup>
<b>NX Networked – Wired/Wireless</b>								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires <a href="#">NXBTC/R</a> <sup>1,3</sup>

<sup>1</sup> NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network

<sup>2</sup> Programming via App requires factory assistance

<sup>3</sup> To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

### 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.



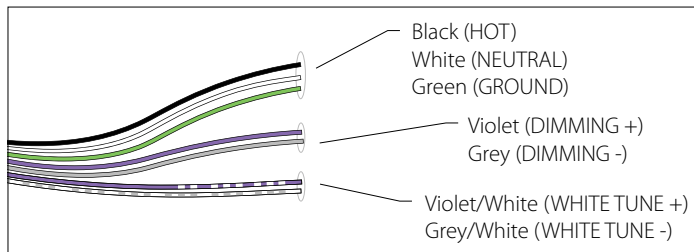
SPECTRASYNCH COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Dim to Warm	2200K-3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed
Tunable White	2700K-5000K 2700K-6500K	Offers users the ability to tailor CCT to their personal preference, 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.

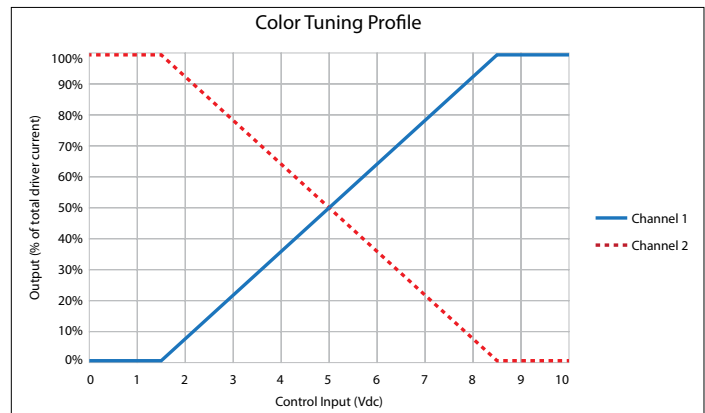


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### Controller Manufacturer Data

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

- Hubbell Control Solutions (HCS): NX Distributed Intelligence™ Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, DVSTV, and NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



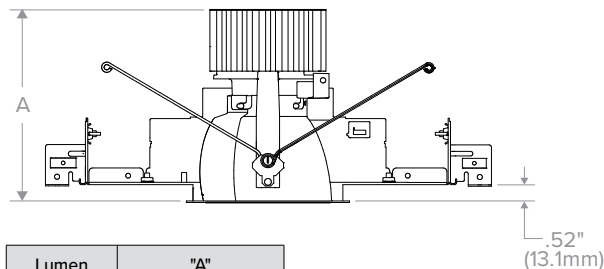
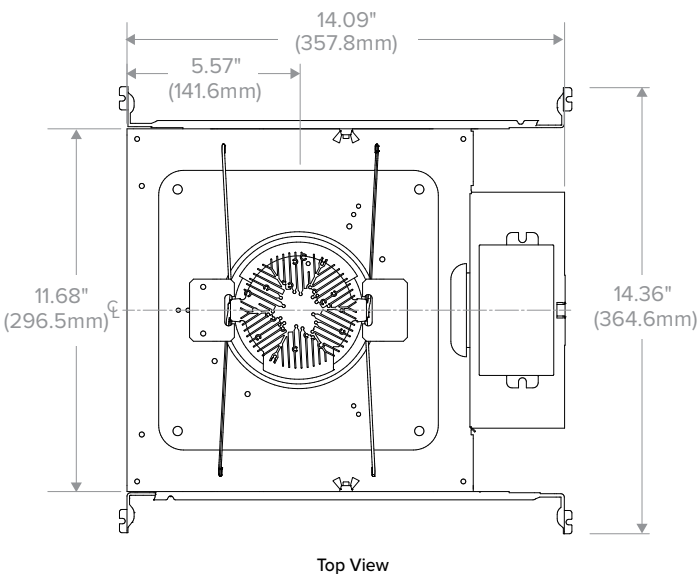
To enable scheduling and for use with NX wall control preset stations please refer to Hubbell Control Solutions NX SpectraSync technical sheet.



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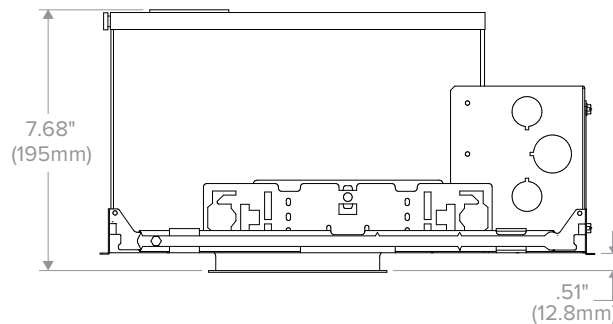
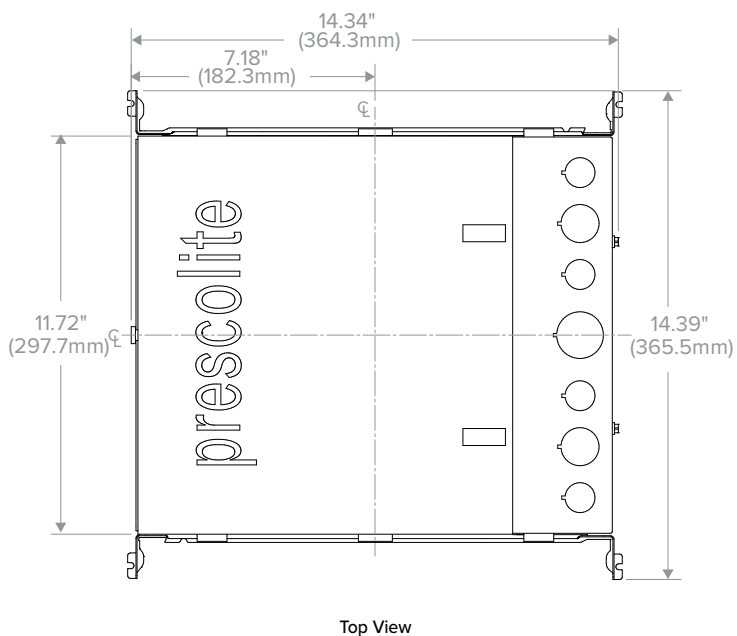
## DIMENSIONS



Lumen Package	"A"
06L-10L	4.97" (126.2mm)
15L-20L	7.33" (186.2mm)

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	WW/DWW	0.50" to 2.00" (12.7mm to 50.8mm)
	CWW	0.50" to 1.25" (12.7mm to 31.8mm)

## LTR-4RW-H



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	WW/DWW	0.50" to 2.00" (12.7mm to 50.8mm)
	CWW	0.50" to 1.25" (12.7mm to 31.8mm)

## LTR-4RD-H IC/CP

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## PHOTOMETRY

### LTR-4RD-H-ML20L-DMT / LTR-4RW-T-ML2765T9WWS

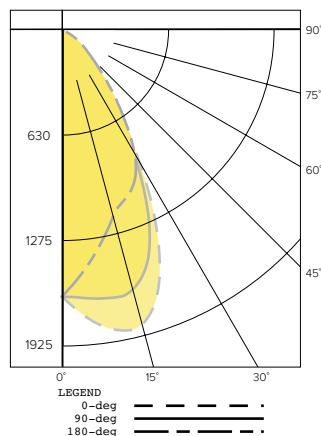
#### LUMINAIRE DATA

Test No.	R19.00750-16
Description	Single Wall Wash, 2000 lm, 3000K, 90 CRI
Delivered Lumens	1734
Watts	36.4W
Efficacy	48.0
Mounting	Recessed

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1549	89.3
0-60	1708	98.5
0-90	1734	100.0
0-180	1734	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	1656
5	1508
15	1212
25	1055
35	683
45	314
55	151
65	60
75	11
85	2
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	51430
55°	30468
65°	16493
75°	5074
85°	2319

\*Candela/Square Meter

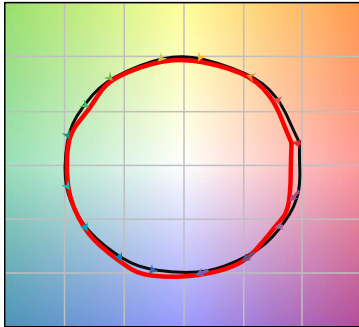
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## TM-30 DATA

### SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC  
2700K, 90+ CRI

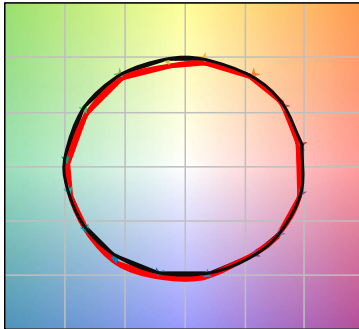


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
2700K, 90+ CRI

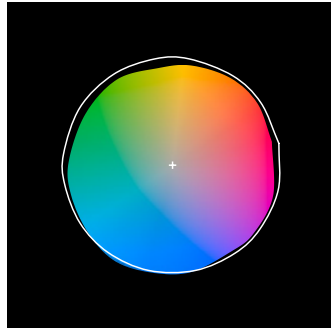


COLOR VECTOR GRAPHIC  
4600K, 90+ CRI

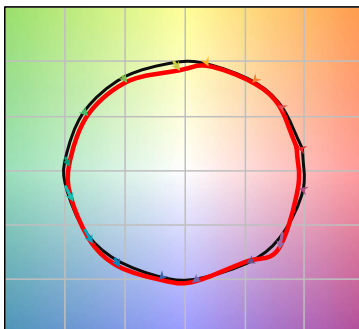


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
4600K, 90+ CRI

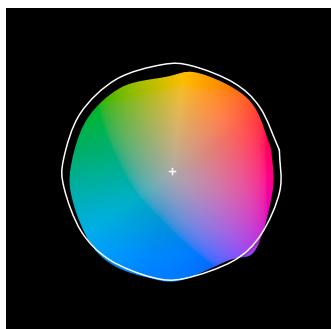


COLOR VECTOR GRAPHIC  
6500K, 90+ CRI



— 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 <sub>f</sub>	90	89	87
R <sub>g</sub>	97	98	96
CCT (K)	2817	4588	6518
D <sub>uv</sub>	-0.0013	-0.0040	0.0018
x	0.4482	0.3565	0.3131
y	0.4047	0.3531	0.3273
CIE R <sub>a</sub>	91	95	94
CIE R <sub>g</sub>	47	81	76

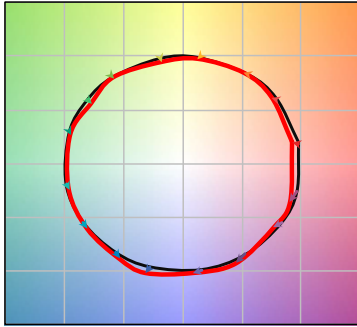
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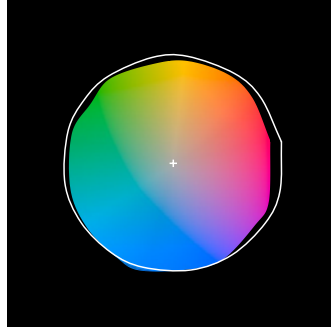
## TM-30 DATA CONTINUED

### SPECTRASYNCTM DIM TO WARM (2230TD)

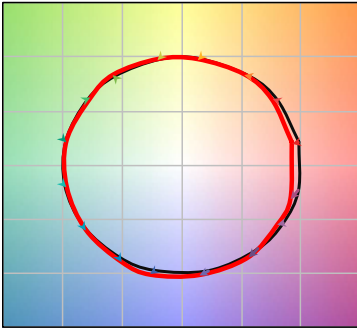
COLOR VECTOR GRAPHIC  
3000K, 90+ CRI @ 100%



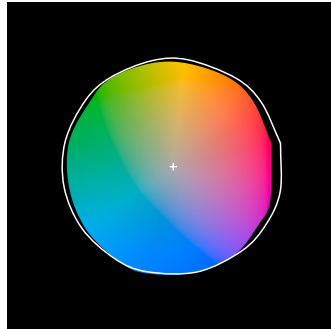
COLOR DISTORTION GRAPHIC  
3000K, 90+ CRI @ 100%



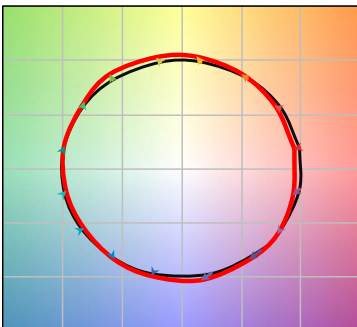
COLOR VECTOR GRAPHIC  
2600K, 90 CRI @ 50% DIM



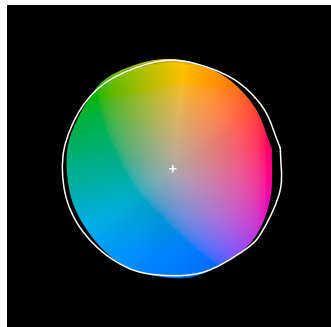
COLOR DISTORTION GRAPHIC  
2600K, 90 CRI @ 50% DIM



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



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



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 <sub>t</sub>	90	92	91
R <sub>g</sub>	97	99	102
CCT (K)	3123	2590	2282
D <sub>uv</sub>	-0.0017	-0.0015	-0.0029
x	0.4261	0.4662	0.4907
y	0.3965	0.4082	0.4068
CIE R <sub>a</sub>	92	93	93
CIE R <sub>g</sub>	53	60	64



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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## 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

WATTAGE DATA		
Lumen Output	Nominal Lumens	Wattage
06L	600	10
10L	1000	18
15L	1500	25
20L	2000	36

\* Wattage may vary based on configuration and options selected

## ADDITIONAL INFORMATION

### Central Inverters

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

LiteGear: [www.dual-lite.com/products/litegear\\_lg\\_series](http://www.dual-lite.com/products/litegear_lg_series)

LPS Series: [www.dual-lite.com/products/lps](http://www.dual-lite.com/products/lps)