

# 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 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

- Reflector assembly with a satin diffuse acrylic lens
- 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 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
- Long LED life L70 / >60,000 hours (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 Distributed Intelligence 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 thicknesses up to 1.25"
- 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 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
- 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	600–1300
Wattage Range	10–23
Efficacy Range (LPW)	51*
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-SL2230TD9MD-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>	NXE	NX Enabled, Dual SmartPorts	Standard 120-277V	CP	Chicago Plenum <sup>7,8,9</sup>		
				10L	1000						IC	IC rated <sup>7,8,9</sup>		
				13L	1300						EMR	Emergency Battery Pack with remote test switch and indicator light <sup>7,9</sup>		
						DMT		NXWE						
							SpectraSync™ Tunable White, 0-10V Dimming to 5% <sup>2</sup>	NXWD						
								LV						
								Standard						
								120-277V						
								CP						
								IC						
								EMR						
								F						

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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>

- 1 NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network  
2 Programming via App requires factory assistance  
3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

### SpectraSync™ Color Tuning Technology:

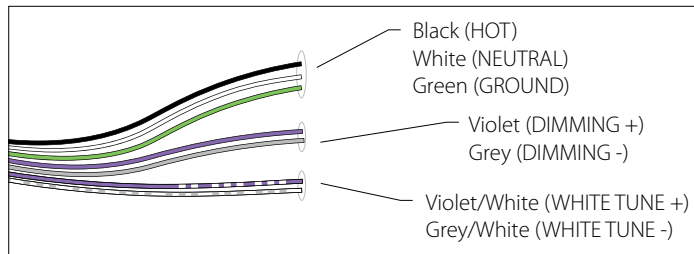
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

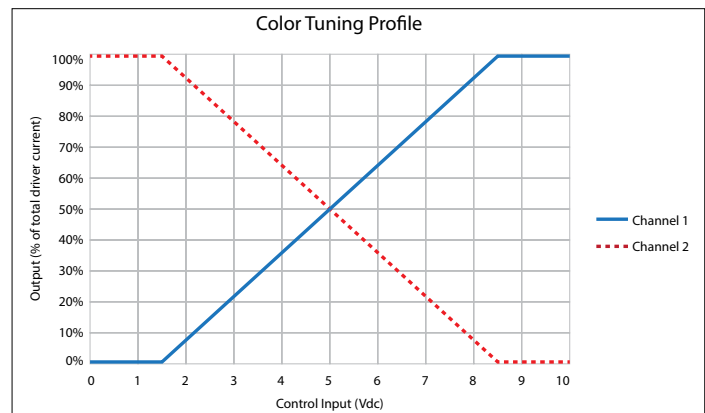


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### 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

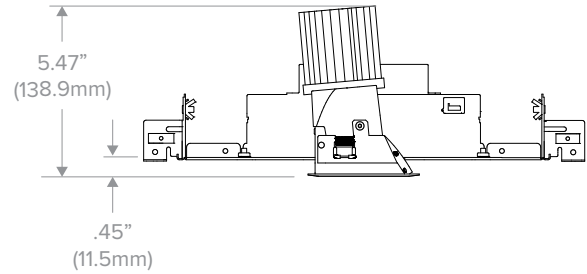
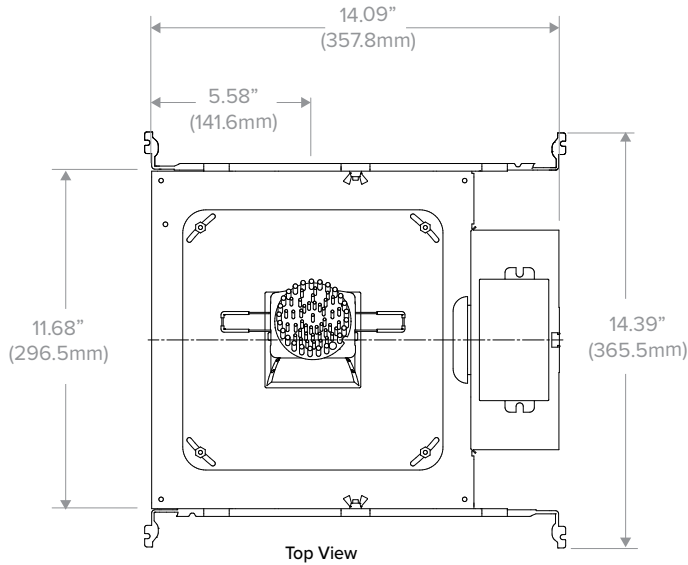


To enable scheduling and for use with NX wall control preset stations please refer to Hubbell Control Solutions NX SpectraSync technical sheet.

# LTR-3SQW Lens SpectraSync

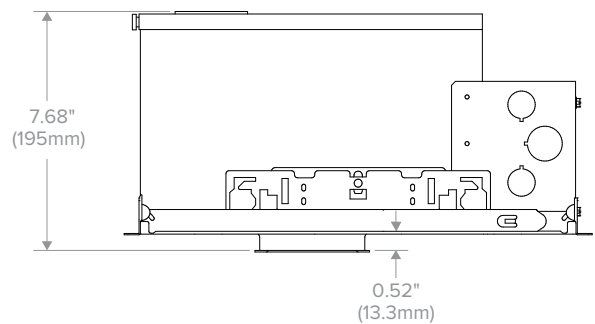
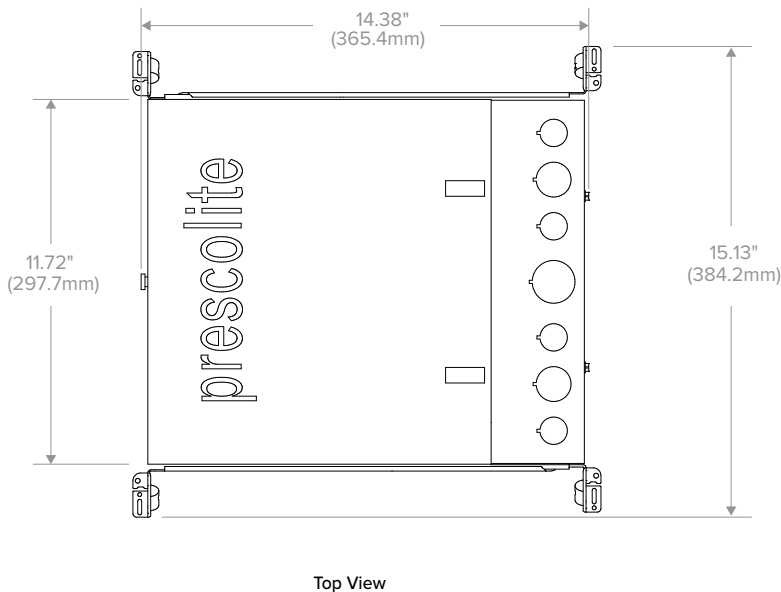
LITEISTRY 3" SQUARE LENSED WALL WASH (LWW) WITH COLOR TUNING

## 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

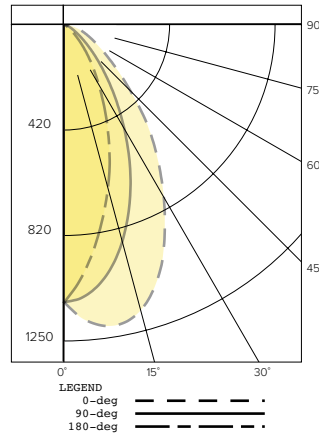
### LUMINAIRE DATA

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

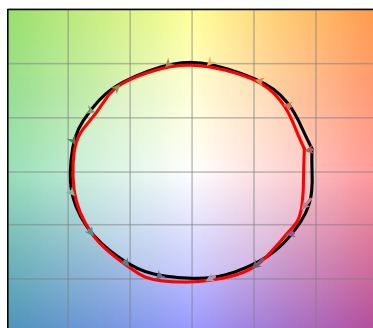
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## TM-30 DATA

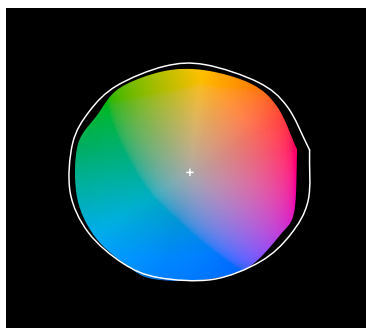
### SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC  
2700K, 90+ CRI

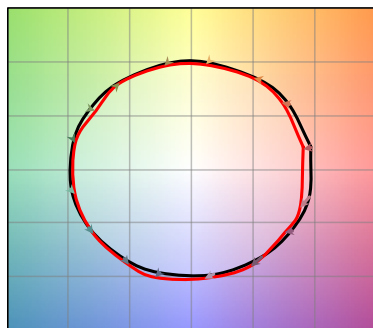


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
2700K, 90+ CRI

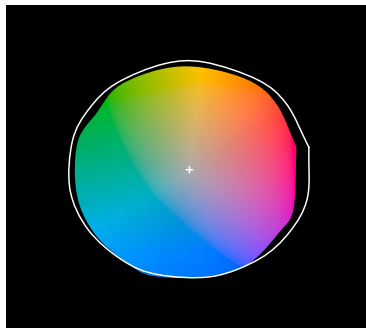


COLOR VECTOR GRAPHIC  
4600K, 90+ CRI

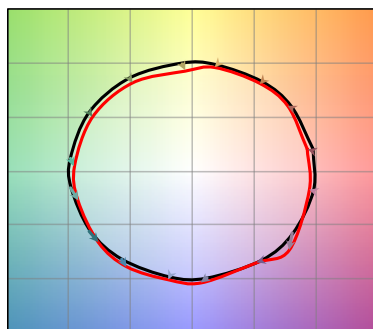


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
4600K, 90+ CRI

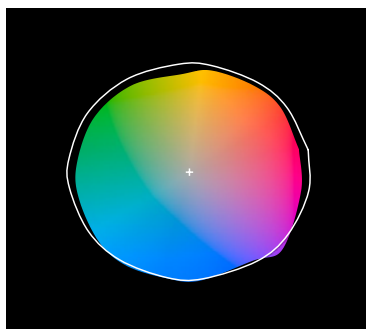


COLOR VECTOR GRAPHIC  
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
6500K, 90+ CRI



TEST RESULTS - TUNABLE WHITE @ 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

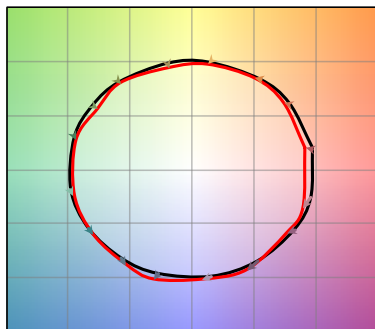
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## TM-30 DATA CONTINUED

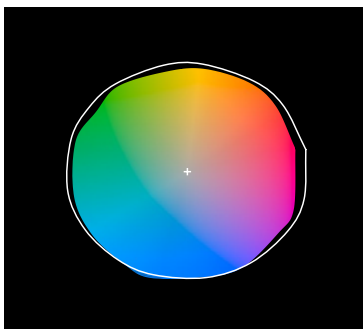
### SPECTRASYNCTM DIM TO WARM (2230TD)

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

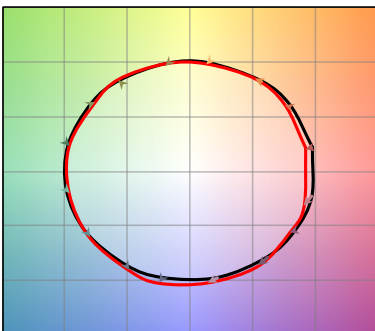


— Reference Illuminant — Test Source

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

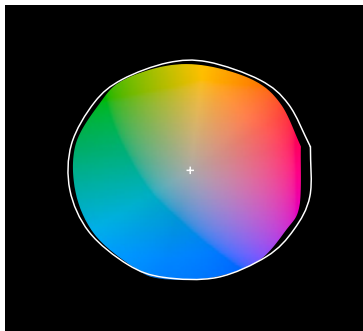


COLOR VECTOR GRAPHIC  
2600K, 90 CRI @ 50% DIM

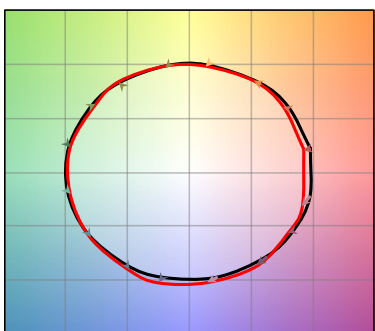


— Reference Illuminant — Test Source

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

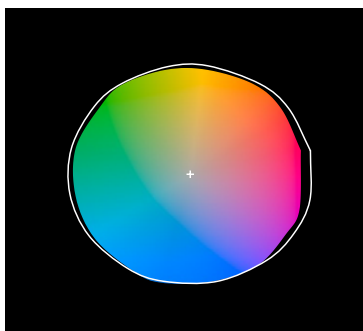


COLOR VECTOR GRAPHIC  
2200K, 90 CRI @ 5% DIM



— 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>t</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

# LTR-3SQW Lens SpectraSync

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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

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	10
10L	1000	18
13L	1300	23

\* 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)