

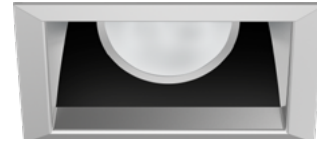
LTR-3SQA SpectraSync

LITEISTRY 3" SQUARE ADJUSTABLE WITH COLOR TUNING

LITEISTRY™

FEATURES

- 3" architectural LED adjustable accent delivering 600–1000 lm
- Four field interchangeable beam distributions from 15° to 45°
- Translating center beam optic allows 0–35° vertical tilt, 362° horizontal rotation
- 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 or Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- Accommodates up to two lens media including hexcell louver and linear spread options
- 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 enclosed steel platform with tool-less top access and pre-installed bar hangers
- Smooth friction adjustment with 0-35° vertical tilt, 362° horizontal rotation without tools
- Precise hot aiming capability, securely locks with thumbscrews for dependable control

OPTICS

- Translating center beam optic ensures full beam optimization from 0.5" to 1.25" ceiling thickness
- Proprietary twist-and-lock upper reflector with diffusion film provides 15°, 25°, 35° or 45° beam distributions
- Optional accessory lens media including linear spread and hexcell louver (order separately)
- Upper reflector can accommodate up to two additional lens media up to 0.25" max. thickness
- All reflectors and lens media are field interchangeable for maximum flexibility
- Provides dramatic, crisp highlights without distracting rings or excessive spill light
- Standard angle cut cone: High purity, four-panel aluminum reflector, self-flanged

OPTICS (CONTINUED)

- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes, colors 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
- 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 an indicator light
- Refer to additional spec sheets for information on [standard LITEISTRY](#) or [PowerHUBB™ PoE enabled](#) solutions

INSTALLATION

- Universal adjustable mounting brackets also accept ½" EMT conduit or ½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Accommodates ceiling thickness up to 1.25"

INSTALLATION (CONTINUED)

- Light Engine serviceable from above or below ceiling. Top access required for driver, EMR battery pack or Controls component replacement

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	600–1000
Wattage Range	11–20
Efficacy Range (LPW)	40–52*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	91–167 (120V)

* Based on Specular, 30K, 90 CRI



LTR-3SQA SpectraSync

LITEISTRY 3" SQUARE ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ORDERING GUIDE

Example: LTR-3SQA-H-10L35K8NR-DMTW-LTR-3SQA-T-SL2230TD9MDSS

CATALOG #

HOUSING

LTR-3SQA-H		Lumen Output		CCT	CRI	Distribution		
Aperture/Shape/Function								
LTR-3SQA-H	3" Square Adjustable New Construction Housing	06L	600	2230TD	2200K-3000K SpectraSync™ Dim to Warm	9	90+ CRI	NR Narrow 15° MD Medium 25° WD Wide 35° XW Extra Wide 45°
		10L	1000	2750T	2700K-5000K SpectraSync™ Tunable White			
				2765T	2700K-6500K SpectraSync™ Tunable White			

HOUSING (CONTINUED)

Driver Options		Control Options		Voltage	Housing Options	
DMTW	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% ¹	NXE	NX, Dual SmartPORTs	<i>Standard 120-277V</i>	CP	Chicago Plenum ^{8,9,10}
DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% ²	NXWE	NX Wireless Enabled		IC	IC rated ^{8,9,10}
		NXWD	NX Wireless, Dual SmartPORTs		EMR	Emergency Battery Pack with remote test switch and indicator light ^{9,10}
		LV	Lutron Vive Enabled, 0-10V ⁷		F	Fuse ⁸

TRIM

LTR-3SQA-T		Lower Trim Style	Reflector Finish	Reflector Color	Flange Color Options	Reflector Options
LTR-3SQA-T	3" Square Adjustable Trim Assembly	<i>Standard Angle Cut Cone</i>	<i>Finish not applicable with painted reflectors (WC or BC)</i>	<i>Standard Clear</i>	<i>Standard matches reflector color</i>	AM Antimicrobial Coating ⁵
			S Specular	CG Champagne Gold	WT White Flange ⁴	
			SS Semi-Specular	BL Black	BT Black Flange ⁴	
			VS Softglow®	LW Light Wheat		
			VSS SoftSheen™	PW Pewter		
				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
- FMR3-SQ** Flush Mount Mud-In Ring, 3" Square³
- LiteGear** LiteGear Inverter, 125VA–250VA
- LPS Series** LightPower Micro-Inverter, 20VA–55VA
- MOR3-SQ-WH** Metal Oversized Ring, 3" Square, White (6.75" outer dimension)
- MOR3-SQ-BL** Metal Oversized Ring, 3" Square, Black (6.75" outer dimension)

Lens/Media Accessories

- LL3** Linear Spread Lens for 3"⁶
- PL3** Prismatic Lens for 3"⁶
- SOL3** Solite Lens for 3"⁶
- HL3** Hexcell Louver Black for 3"⁶

Notes:

- 1 Must select 2230TD with DMTW driver
- 2 Must select either 2750T or 2765T with DMT driver
- 3 Flush Mount Flange 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 Lens holder supplied with fixture accommodates up to 2 media (0.25" total max. thickness).
- 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
NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ¹
NX Networked – Wireless								
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³
NX Networked – Wired/Wireless								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}

- 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:

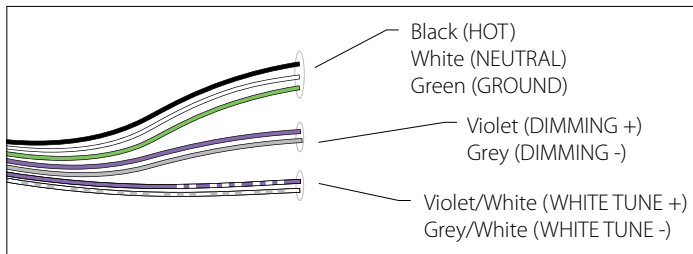
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

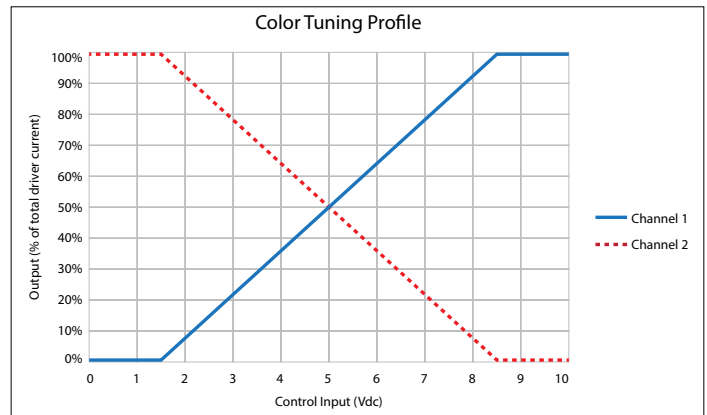


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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



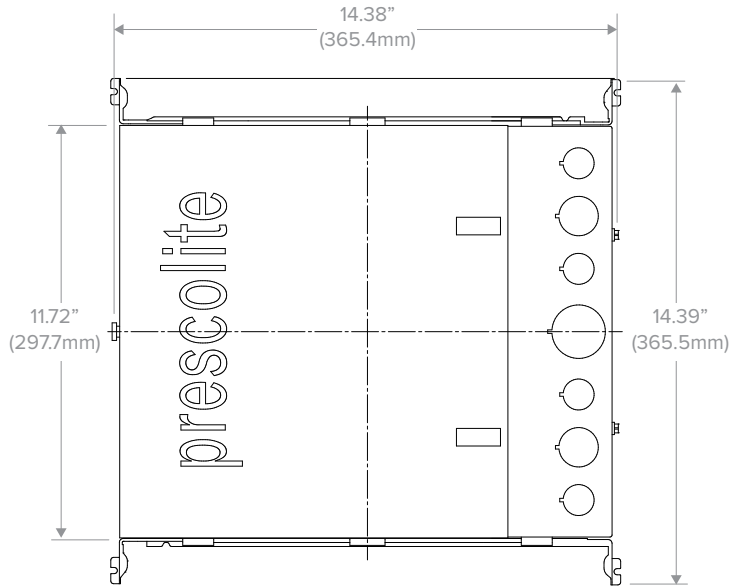
To enable scheduling and for use with NX wall control preset stations please refer to Hubbell Control Solutions NX SpectraSync technical sheet.



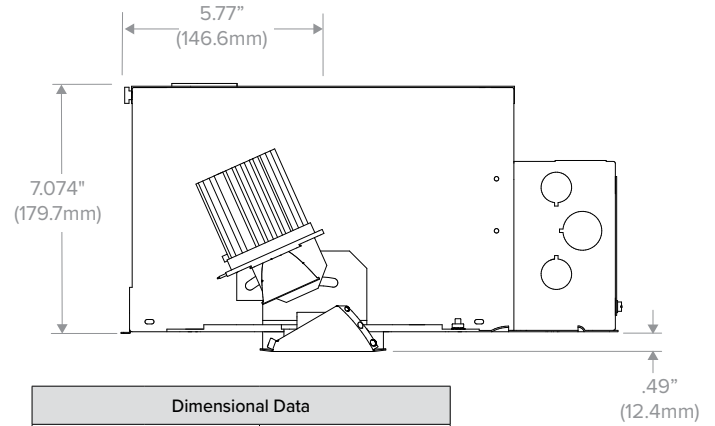
LTR-3SQA SpectraSync

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DIMENSIONS



Top View



Dimensional Data		
Aperture		2.88" (73.2mm)
Flange	Standard	3.62" (91.9mm)
	Flush Mount	3.62" (91.9mm)
Ceiling Cutout	Standard	3.31" (84.1mm)
	Flush Mount	3.94" (100.1mm)
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

LTR-3SQA-H-10L2765T9NR-DMT / LTR-3SQA-T-S

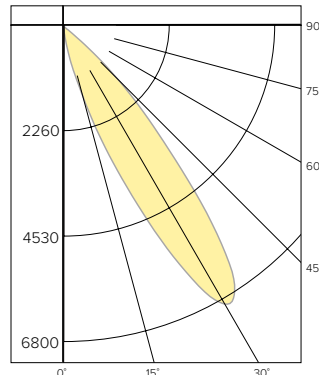
LUMINAIRE DATA

Test No.	R19.01120-01
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1055
Watts	20.2W
Efficacy	52.0
Mounting	Recessed
Beam Angle (FWHM)	20

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	858	81.3
0-60	1053	99.8
0-90	1055	100.0
0-180	1055	100.0

POLAR GRAPH



LEGEND
 0-deg - - - - -
 90-deg - - - - -
 180-deg - - - - -

CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	43	43	43
5	110	75	42
15	1362	497	33
25	4940	971	19
35	5832	460	6
45	1764	37	4
55	54	10	1
65	7	1	1
75	1	1	0
85	0	0	0
90	0	0	0

LTR-3SQA SpectraSync

LITEISTRY 3" SQUARE ADJUSTABLE WITH COLOR TUNING

PHOTOMETRY CONTINUED

LTR-3SQA-H-10L2765T9MD-DMT / LTR-3SQA-T-S

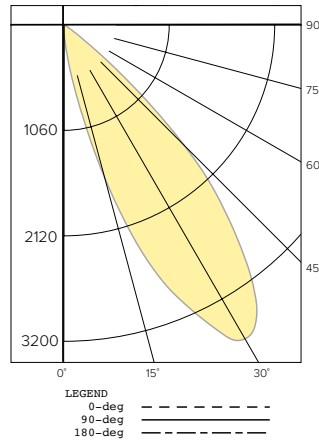
LUMINAIRE DATA

Test No.	R19.01121-01
Description	1000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	960
Watts	20.2W
Efficacy	48.0
Mounting	Recessed
Beam Angle (FWHM)	28

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	749	78.0
0-60	957	99.8
0-90	960	100.0
0-180	960	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	89	89	89
5	259	181	85
15	1620	637	68
25	3261	1006	39
35	3379	547	14
45	1703	76	5
55	118	14	1
65	7	1	1
75	1	1	0
85	0	0	0
90	0	0	0

LTR-3SQA-H-10L2765T9WD-DMT / LTR-3SQA-T-S

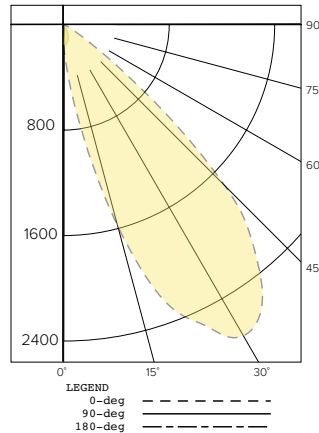
LUMINAIRE DATA

Test No.	R19.01122-01
Description	1000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	915
Watts	20.2W
Efficacy	45.0
Mounting	Recessed
Beam Angle (FWHM)	34

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	680	74.3
0-60	912	99.6
0-90	915	100.0
0-180	915	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	151	151	151
5	372	280	145
15	1485	736	117
25	2360	1031	66
35	2457	636	18
45	1614	139	6
55	223	29	1
65	10	1	1
75	1	1	0
85	0	0	0
90	0	0	0

LTR-3SQA-H-10L2765T9XW-DMT / LTR-3SQA-T-S

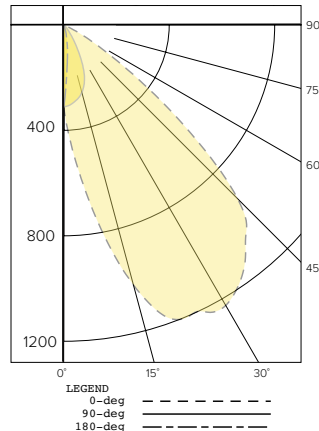
LUMINAIRE DATA

Test No.	R19.00781-01
Description	1000 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	810
Watts	20.2W
Efficacy	40.0
Mounting	Recessed
Beam Angle (FWHM)	45

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	575	71.0
0-60	801	98.9
0-90	810	100.0
0-180	810	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	341	341	341
5	567	489	333
15	1119	801	292
25	1316	927	188
35	1288	684	59
45	1024	285	12
55	325	67	1
65	24	1	1
75	1	1	1
85	0	0	0
90	0	0	0

LTR-3SQA SpectraSync

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DATE: _____ LOCATION: _____

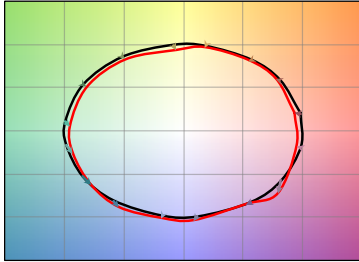
TYPE: _____ PROJECT: _____

CATALOG #: _____

TM-30 DATA

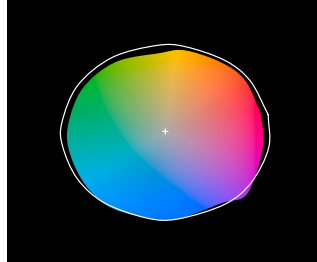
SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

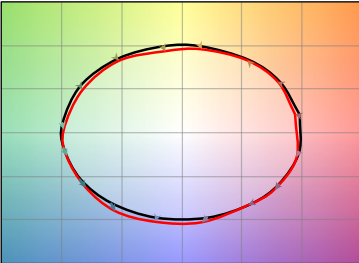


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI

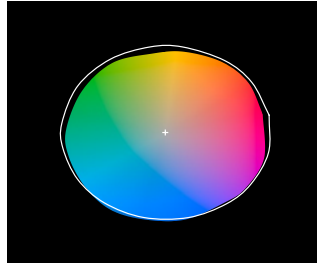


COLOR VECTOR GRAPHIC
4600K, 90+ CRI

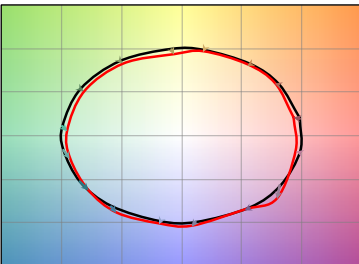


— Reference Illuminant — Test Source

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 @ 1000 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	846	941	982
Wattage (W)	17.0	16.8	16.9
Efficacy (lm/W)	50	56	58
R _f	88	89	88
R _g	97	98	97
CCT (K)	2809	4597	6326
D _{UV}	-0.0018	-0.0052	0.0017
x	0.4481	0.3558	0.3163
y	0.4035	0.3502	0.33
CIE R _a	91	95	94
CIE R _g	48	83	73

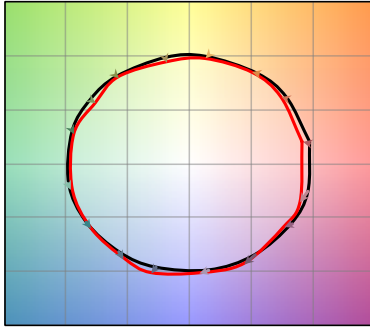
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LITEISTRY 3" SQUARE ADJUSTABLE WITH COLOR TUNING

TM-30 DATA CONTINUED

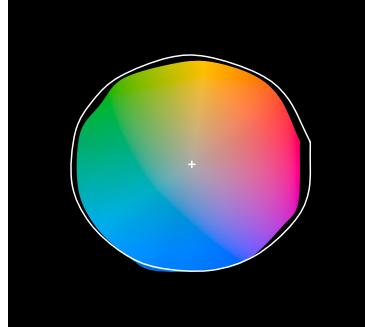
SPECTRASYNCTM DIM TO WARM (2230TD)

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

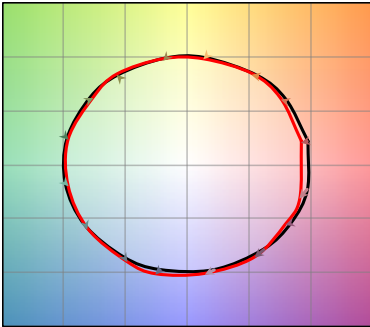


— Reference Illuminant — Test Source

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

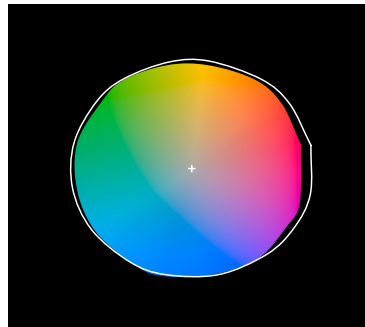


COLOR VECTOR GRAPHIC
2600K, 90 CRI @ 50% DIM

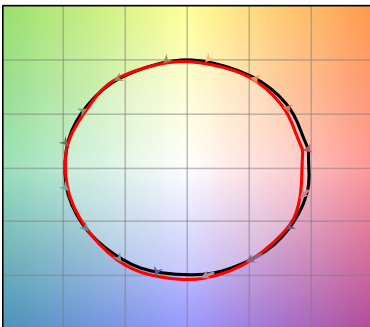


— Reference Illuminant — Test Source

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

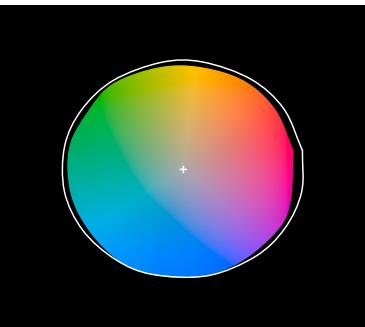


COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— 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)	945	507	34
Wattage (W)	16.94	9.69	2.43
Efficacy (lm/W)	56	52	14
R _f	90	92	92
R _g	97	99	98
CCT (K)	3136	2650	2204
D _{uv}	-0.0016	-0.0016	-0.0005
x	0.4254	0.461	0.5063
y	0.3965	0.4069	0.4168
CIE R _a	92	93	92
CIE R _g	52	60	57



LTR-3SQA SpectraSync

LITEISTRY 3" SQUARE ADJUSTABLE WITH COLOR TUNING

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	11
10L	1000	20

* 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 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

LPS Series: www.dual-lite.com/products/lps