

LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

LITEISTRY™

FEATURES

- 4" architectural LED adjustable accent delivering 600–1500 lm
- Four 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
- Accommodates up to two lens media including hexcell louver and linear spread options
- 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 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
- Provides dramatic, crisp highlights without distracting rings or excessive spill light
- Standard angle cut cone: High purity, four-panel aluminum reflector, self-flanged
- 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
- Long LED life: L70 at >60,000 hours (TM-21)
- 90+ CRI standard
- 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

- Universal adjustable mounting brackets also accept ½" EMT conduit or 1½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Accommodates ceiling thicknesses up to 1.25"
- Light Engine/Driver serviceable from above or below ceiling except with EMR battery pack or Controls which requires top access for 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	600-1500
Wattage Range	10-27
Efficacy Range (LPW)	49-56*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-225 (120V)

* Based on Specular, 30K, 90 CRI



LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ORDERING GUIDE

Example: LTR-4SQA-H-10L2230TD9NR-DMTW-LTR-4SQA-T-SSCG

CATALOG #

HOUSING

LTR-4SQA-H		Lumen Output	CCT	CRI	Distribution
Aperture/Shape/Function	LTR-4SQA-H 4" Square Adjustable New Construction Housing	06L 600	2230TD 2200K-3000K SpectraSync™ Dim to Warm	9 90+ CRI	NR Narrow 15° ⁸
		10L 1000	2750T 2700K-5000K SpectraSync™ Tunable White		MD Medium 25°
		15L 1500	2765T 2700K-6500K SpectraSync™ Tunable White		WD Wide 35° XW Extra Wide 45°

HOUSING (CONTINUED)

Driver Options	Control Options	Voltage	Housing Options
DMTW SpectraSync™ Dim to Warm, 0-10V Dimming to 5% ¹	NXE NX, Dual SmartPORTs NXWE NX Wireless Enabled NXWD NX Wireless, Dual SmartPORTs LV Lutron Vive Enabled, 0-10V ⁷	Standard 120-277V	CP Chicago Plenum ^{9,10,11} IC IC rated ^{9,10,11} EMR Emergency Battery Pack with remote test switch and indicator light ^{9,11} F Fuse ⁹
DMT SpectraSync™ Tunable White, 0-10V Dimming to 5% ²			

TRIM

LTR-4SQA-T		Lower Trim Style	Reflector Finish	Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
Aperture/Shape/Function	LTR-4SQA-T 4" Square Adjustable Trim Assembly	Standard Angle Cut Cone	Finish not applicable with painted reflectors (WC or BC)	Standard Clear	Standard matches reflector color	FM Flush Mount Mud-in Ring ⁵	AM Antimicrobial Coating ⁴
			S Specular SS Semi-Specular VS Softglow® VSS SoftSheen™	CG Champagne Gold BL Black LW Light Wheat PW Pewter WC Painted White Cone and Flange BC Painted Black Cone and Flange	WT White Flange ³ BT Black Flange ³		

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 Mud-In Ring, 4" Square
- LiteGear LiteGear® Inverter, 125VA-250VA
- LPS Series LightPower Micro-Inverter, 20VA-55VA
- MOR4-SQ-WH Metal Oversized Ring, 4" Square, White (8.25" outer dimension)
- MOR4-SQ-BL Metal Oversized Ring, 4" Square, Black (8.25" outer dimension)

Lens/Media Accessories

- LL4 Linear Spread Lens for 4" and 6" (MD, WD, XW)⁶
- LL4-NR Linear Spread Lens for 4" and 6" (NR only)⁶
- PL4 Prismatic Lens for 4" and 6" (MD, WD, XW)⁶
- PL4-NR Prismatic Lens for 4" and 6" (NR only)⁶
- SOL4 Solite Lens for 4" and 6" (MD, WD, XW)⁶
- SOL4-NR Solite Lens for 4" and 6" (NR only)⁶
- HL4 Hexcell Louver Black for 4" and 6" (MD, WD, XW)⁶
- HL4-NR Hexcell Louver Black for 4" and 6" (NR only)⁶

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 Lens holder supplied with fixture accommodates up to 2 media (0.25" total max. thickness).
- 7 LV available only with DMTW driver option.
- 8 Narrow (NR) available up to 10L.
- 9 Housing options (except Fuse) not available in combination.
- 10 IC, CP available in 06L
- 11 Not available with Control options.

LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

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:

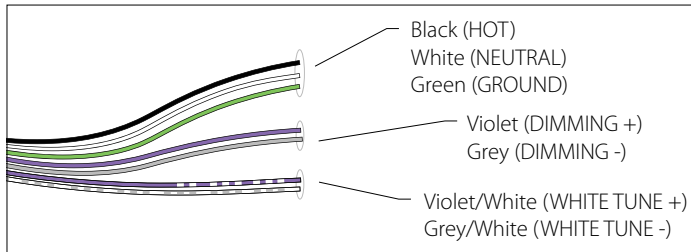
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

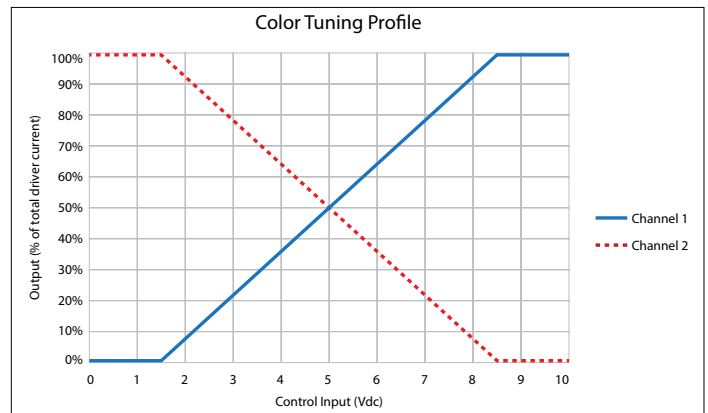


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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 NFTV 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-4SQA SpectraSync

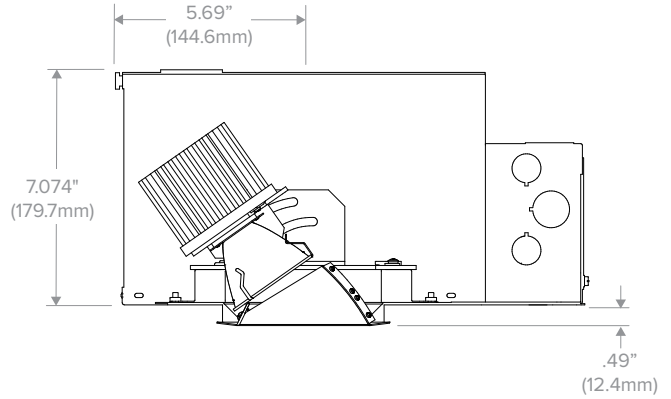
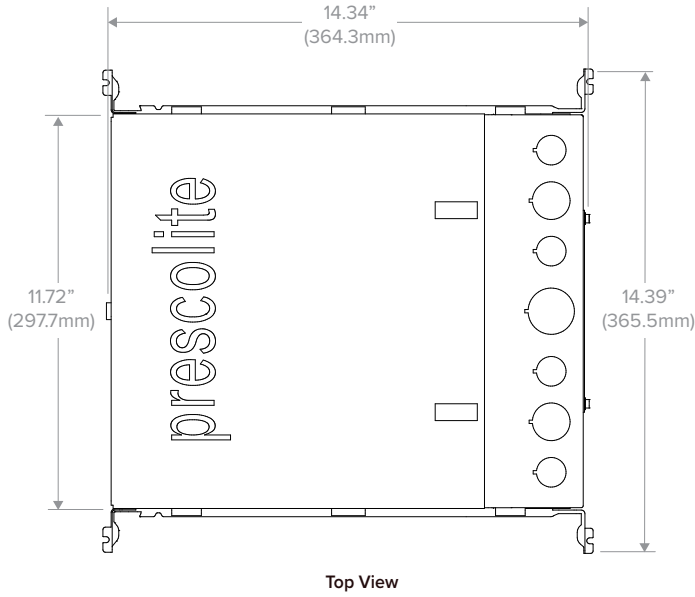
LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

DIMENSIONS



Dimensional Data		
Aperture		4.00" (101.6mm) SQ
Flange	Standard	5.25" (133.4mm) SQ
	Flush Mount	4.69" (119.1mm) SQ
Ceiling Cutout	Standard	5.00" (127.0mm) SQ
	Flush Mount	5.00" (127.0mm) SQ
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

LTR-4SQA-H-10L2765T9NR-DMT / LTR-4SQA-T-S

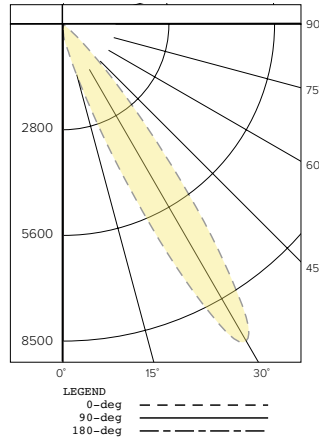
LUMINAIRE DATA

Test No.	R19.01142-01
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1015
Watts	18.0W
Efficacy	56.0
Mounting	Recessed
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	884	87.1
0-60	1013	99.8
0-90	1015	100.0
0-180	1015	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	162	162	162
5	404	344	150
15	1330	553	144
25	6632	613	71
35	6404	423	14
45	947	38	5
55	32	11	2
65	12	3	0
75	1	0	0
85	0	0	0
90	0	0	0

LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

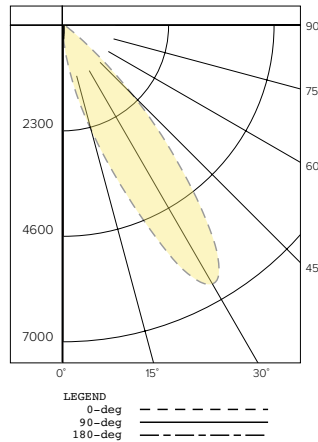
PHOTOMETRY CONTINUED

LTR-4SQA-H-15L2765T9MD-DMT / LTR-4SQA-T-S

LUMINAIRE DATA

Test No.	R19.01340-01
Description	1500 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1460
Watts	26.7W
Efficacy	55.0
Mounting	Recessed
Beam Angle (FWHM)	24

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	298	298	298
5	693	553	291
15	2392	1214	226
25	5488	1260	110
35	5520	819	38
45	1911	125	12
55	79	29	4
65	13	6	0
75	0	1	0
85	0	0	0
90	0	0	0

ZONAL LUMEN SUMMARY

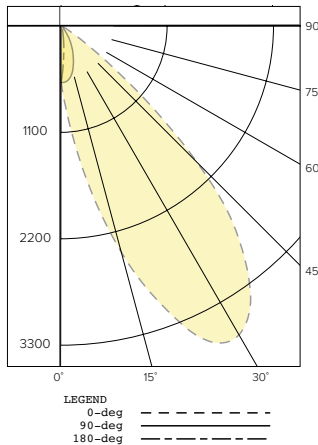
Zone	Lumens	% Luminaire
0-40	1185	81.2
0-60	1456	99.7
0-90	1460	100.0
0-180	1460	100.0

LTR-4SQA-H-15L2765T9WD-DMT / LTR-4SQA-T-S

LUMINAIRE DATA

Test No.	R19.01341-01
Description	1500 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1400
Watts	26.7W
Efficacy	52.0
Mounting	Recessed
Beam Angle (FWHM)	35

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	525	525	525
5	925	789	516
15	2180	1375	417
25	3214	1420	249
35	3056	1008	101
45	1764	337	24
55	257	58	7
65	27	10	1
75	0	1	0
85	0	0	0
90	0	0	0

ZONAL LUMEN SUMMARY

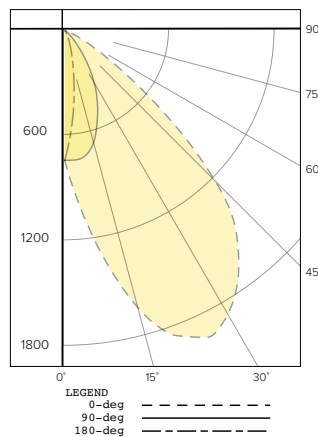
Zone	Lumens	% Luminaire
0-40	1069	76.3
0-60	1392	99.4
0-90	1400	100.0
0-180	1400	100.0

LTR-4SQA-H-15L2765T9XW-DMT / LTR-4SQA-T-S

LUMINAIRE DATA

Test No.	R19.01169-01
Description	1500 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1320
Watts	26.7W
Efficacy	49.0
Mounting	Recessed
Beam Angle (FWHM)	47

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	746	746	746
5	1019	941	746
15	1658	1306	654
25	1943	1353	440
35	1735	1042	216
45	1218	501	58
55	393	132	12
65	69	20	1
75	0	1	1
85	0	0	0
90	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	969	73.4
0-60	1301	98.6
0-90	1320	100.0
0-180	1320	100.0

LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

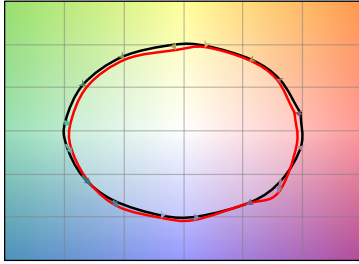
TYPE: _____ PROJECT: _____

CATALOG #: _____

TM-30 DATA

SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

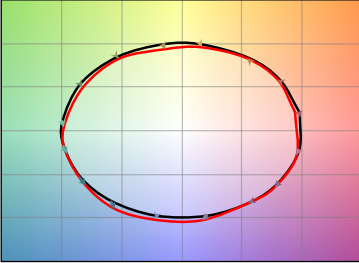


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI

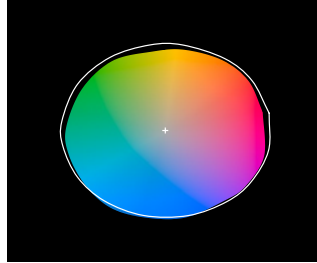


COLOR VECTOR GRAPHIC
4600K, 90+ CRI

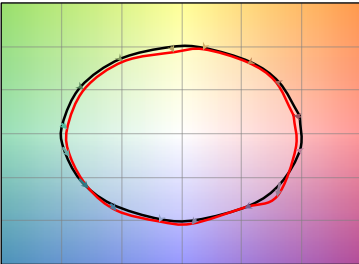


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

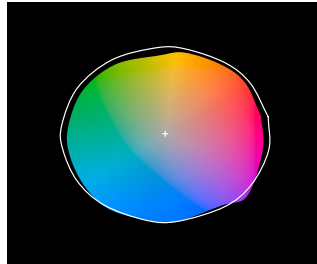


COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— 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

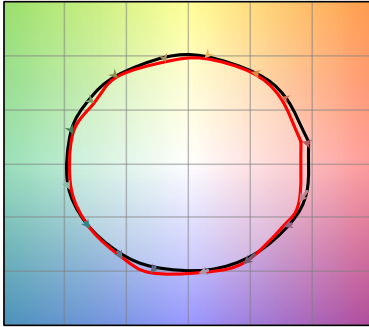
LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

TM-30 DATA CONTINUED

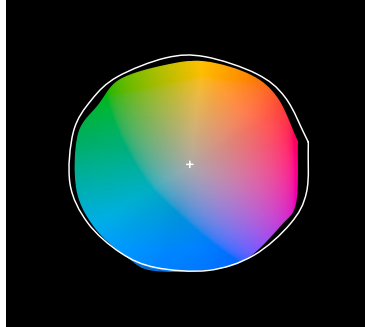
SPECTRASYNCTM DIM TO WARM (2230TD)

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



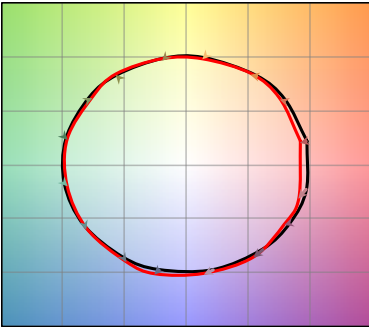
— Reference Illuminant — Test Source

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



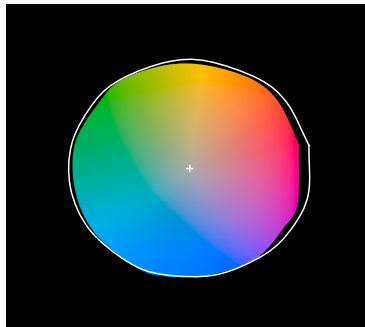
TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS			
Value	100%	50% Dim	5% Dim
Luminous Flux (lm)	945	507	34
Wattage (W)	16.94	9.69	2.43
Efficacy (lm/W)	56	52	14
R _f	90	92	92
R _g	97	99	98
CCT (K)	3136	2650	2204
D _{uv}	-0.0016	-0.0016	-0.0005
x	0.4254	0.461	0.5063
y	0.3965	0.4069	0.4168
CIE R _a	92	93	92
CIE R _g	52	60	57

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

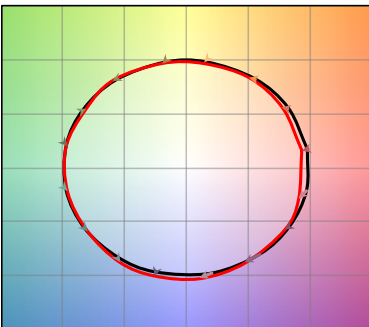


— Reference Illuminant — Test Source

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

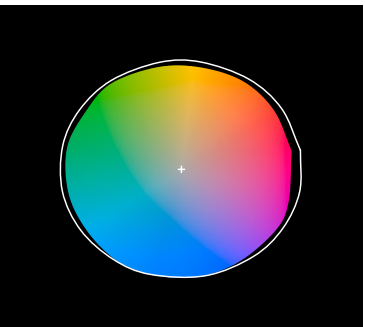


COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— Reference Illuminant — Test Source

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





LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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
15L	1500	27

* 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

All product and company names, logos and product identifiers are trademarks ™ or registered trademarks ® of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.