LTR-6SQA SpectraSync
LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

LITEISTRY

FEATURES

- 6" 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%

- Variety of dimming protocol options including 0-10V, DALI, DMX, Lutron Forward Phase and EcoSystem

- NX Distributed Intelligence™ wired and wireless controls capability available

![CSA C US certification mark] ![BUY AMERICAN SOLUTIONS — See Certification Specifications]

RELATED PRODUCTS

- 3" LITEISTRY Family
- 4" LITEISTRY Family
- 6" LITEISTRY Family

CONTROL TECHNOLOGY

![NX Distributed Intelligence] ![SpectraSync Color Tuning 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

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

- 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 an indicator light

- Refer to additional spec sheets for information on standard **LITE**ISTRY or PowerHUBB™ PoE enabled solutions

INSTALLATION
- Accommodates ceiling thicknesses up to 1.25"

- 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)

INSTALLATION (CONTINUED)
- Light Engine/Driver serviceable from above or below ceiling except with EMR battery pack or Control options which requires top access for component replacement

CERTIFICATIONS
- cCSAus certified to UL 1598

- Suitable for damp locations

- EMR: Certified 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)	51–57*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-225 (120V)

* Based on Specular, 30K, 90 CRI

![HUBBELL Lighting]

prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-6SQA SpectraSync

LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

ORDERING GUIDE

Example: LTR-6SQA-H-10L2230TD9MNR-DMTW-LTR-6SQA-T-SSCG

CATALOG #

HOUSING

LTR-6SQA-H						–
Aperture/Shape/Function		**Lumen Output**	**CCT**	**CRI**	**Distribution**	
LTR-6SQA-H	6" Square Adjustable New Construction Housing	**06L** 600 **10L** 1000 **15L** 1500	**2230TD** 2200K-3000K SpectraSync™ Dim to Warm **2750T** 2700K-5000K SpectraSync™ Tunable White **2765T** 2700K-6500K SpectraSync™ Tunable White	**9** 90+CRI	**NR** Narrow 15° [7] **MD** Medium 25° **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] **DMT** SpectraSync™ Tunable White, 0-10V Dimming to 5% [2]	**NXE** NX, Dual SmartPORTs **NXWE** NX Wireless Enabled **NXWD** NX Wireless, Dual SmartPORTs **LV** Lutron Vive Enabled, 0-10V (requires 0-10V driver) [8]	*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]

TRIM

LTR-6SQA-T							–
Aperture/Shape/Function	**Lower Trim Style**	**Reflector Finish**	**Reflector Color**	**Flange Color Options**	**Lower Trim Options**	**Reflector Options**	
LTR-6SQA-T 6" Square Adjustable Trim Assembly	*Standard Angle Cut Cone*	*Finish not applicable with painted reflectors (WC or BC)* **S** Specular **SS** Semi-Specular **VS** Softglow® **VSS** SoftSheen™	*Standard Clear* **CG** Champagne Gold **BL** Black **LW** Light Wheat **PW** Pewter **WC** Painted White Cone and Flange **BC** Painted Black Cone and Flange	*Standard matches reflector color* **WT** White Flange [3] **BT** Black Flange [3]	**FM** Flush Mount Mud-in Ring [5]	**AM** Antimicrobial Coating [4]	

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
☐	**LiteGear**	LiteGear® Inverter, 125VA-250VA
☐	**FMR6-SQ**	Flush Mount Mud-In Ring, 6" Square
☐	**LPS Series**	LightPower Micro-Inverter, 20VA-55VA
☐	**MOR6-SQ-WH**	Metal Oversized Ring, 6" Square, White (10.25" outer dimension)
☐	**MOR6-SQ-BL**	Metal Oversized Ring, 6" Square, Black (10.25" 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. Clear reflector or WC only, 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. Narrow (NR) available up to 20L.
8. LV available only with DMTW driver option.
9. Housing options (except Fuse) not available in combination.
10. IC, CP available in 06L
11. Not available with Control options.

HUBBELL Lighting

LTR-6SQA SpectraSync

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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 DISTRIBUTED™ INTELLIGENCE

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.
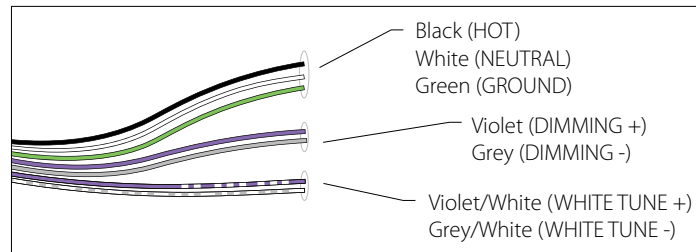
SpectraSync Color Tuning Technology

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.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Grey (DIMMING -)

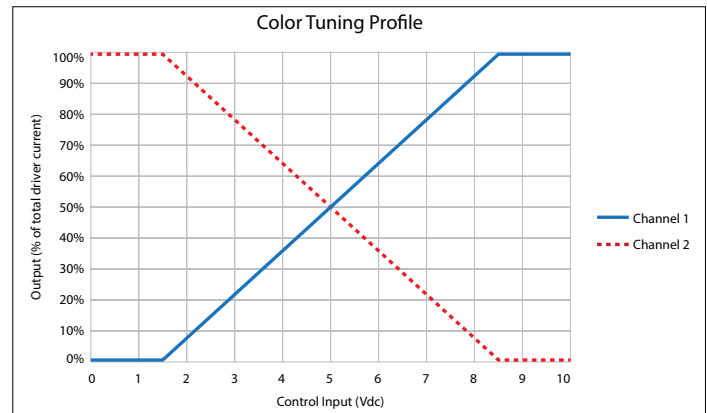Violet/White (WHITE TUNE +)
Grey/White (WHITE TUNE -)

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: DVTV, DVSTV, and NFTV dimmers
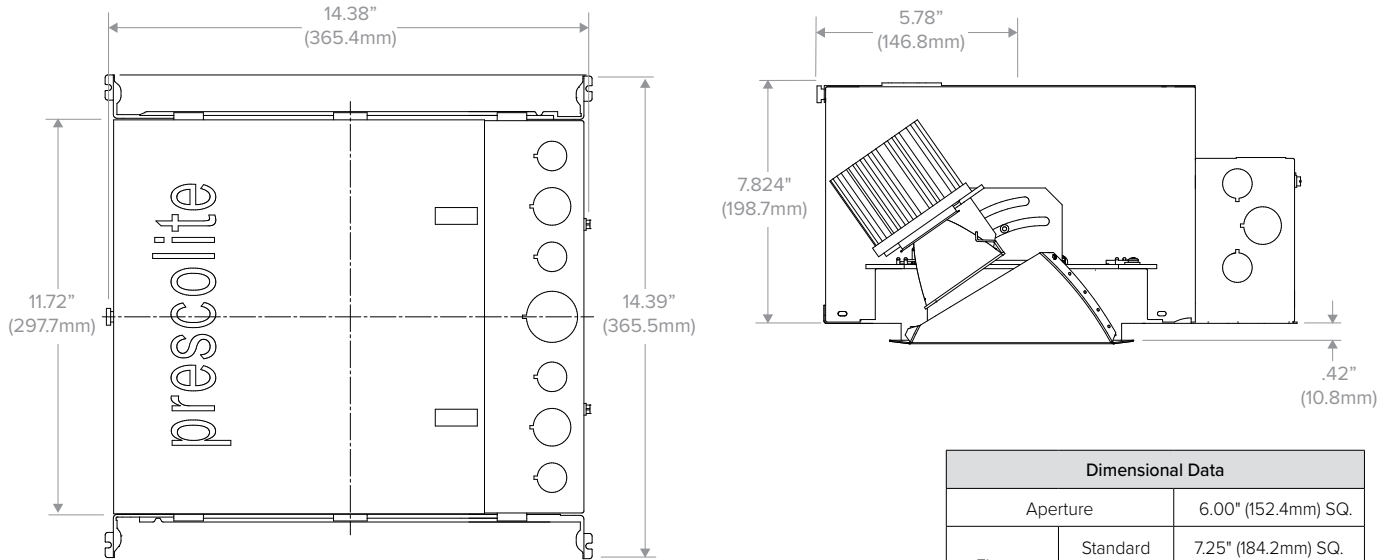- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile

Output (% of total driver current): 100%, 90%, 80%, 70%, 60%, 50%, 40%, 30%, 20%, 10%, 0%

Control Input (Vdc): 0 1 2 3 4 5 6 7 8 9 10

— Channel 1
--- Channel 2

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

HUBBELL Lighting

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-6SQA SpectraSync
LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

DIMENSIONS

14.38"
(365.4mm)

11.72"
(297.7mm)

14.39"
(365.5mm)

5.78"
(146.8mm)

7.824"
(198.7mm)

.42"
(10.8mm)

Dimensional Data		
Aperture		6.00" (152.4mm) SQ.
Flange	Standard	7.25" (184.2mm) SQ.
	Flush Mount	6.47" (164.3mm) SQ.
Ceiling Cutout	Standard	6.69" (169.9"mm) SQ.
	Flush Mount	6.88" (174.8mm) SQ.
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

LTR-6SQA-H-10L2765T9NR-DMT/ LTR-6SQA-T-S

LUMINAIRE DATA

Test No.	R19.01342-01
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1035
Watts	18.0W
Efficacy	57.0
Mounting	Recessed
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	857	82.8
0-60	1033	99.8
0-90	1035	100.0
0-180	1035	100.0

POLAR GRAPH

LEGEND
0–deg
90–deg
180–deg
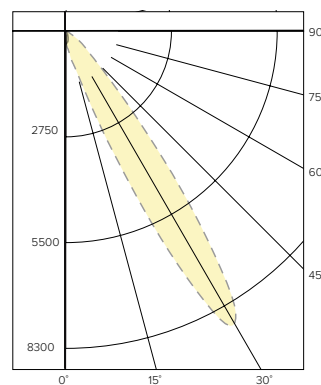
CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	333	333	333
5	454	419	318
15	1151	662	227
25	6100	569	82
35	5589	440	23
45	932	277	9
55	97	16	3
65	6	4	1
75	0	0	0
85	0	0	0
90	0	0	0

HUBBELL Lighting

prescolite

LTR-6SQA SpectraSync

LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

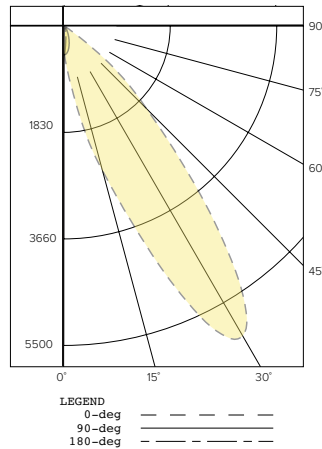## PHOTOMETRY CONTINUED

LTR-6SQA-H-15L2765T9MD-DMT / LTR-6SQA-T-S

LUMINAIRE DATA

Test No.	R19.01343-01
Description	1500 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1465
Watts	26.7W
Efficacy	55.0
Mounting	Recessed
Beam Angle (FWHM)	24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1149	78.4
0-60	1461	99.7
0-90	1465	100.0
0-180	1465	100.0

POLAR GRAPH

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

CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	464	464	464
5	835	695	439
15	2472	1308	293
25	5191	1221	134
35	4832	817	50
45	1861	357	19
55	148	42	6
65	12	8	1
75	0	0	0
85	0	0	0
90	0	0	0

LTR-6SQA-H-15L2765T9WD-DMT / LTR-6SQA-T-S

LUMINAIRE DATA

Test No.	R19.01344-01
Description	1500 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1405
Watts	26.7W
Efficacy	53.0
Mounting	Recessed
Beam Angle (FWHM)	38

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1025	73.0
0-60	1395	99.3
0-90	1405	100.0
0-180	1405	100.0

POLAR GRAPH

LEGEND
0-deg — — — —
90-deg ————
180-deg — - — - —
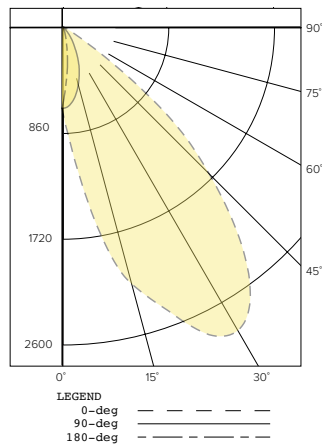
CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	656	656	656
5	1029	889	636
15	2122	1437	493
25	2702	1281	307
35	2619	979	144
45	1654	541	46
55	364	115	10
65	22	13	1
75	0	0	0
85	0	0	0
90	0	0	0

LTR-6SQA-H-15L2765T9XW-DMT / LTR-6SQA-T-S

LUMINAIRE DATA

Test No.	R19.01345-01
Description	1500 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1360
Watts	26.7W
Efficacy	51.0
Mounting	Recessed
Beam Angle (FWHM)	55

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	940	69.1
0-60	1339	98.5
0-90	1360	100.0
0-180	1360	100.0

POLAR GRAPH

LEGEND
0-deg — — — —
90-deg ————
180-deg — - — - —
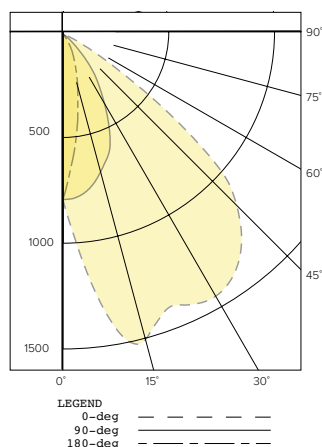
CANDELA DISTRIBUTION

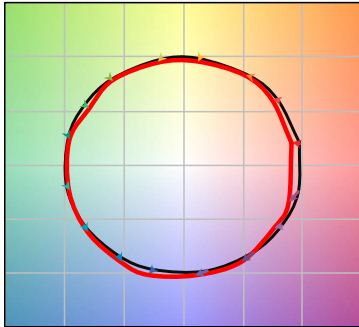| Degree	Candela-0	Candela-45	Candela-90
0	793	793	793
5	1095	994	783
15	1519	1349	688
25	1431	1135	532
35	1418	1001	301
45	1183	679	107
55	471	240	19
65	56	25	2
75	0	1	1
85	0	0	0
90	0	0	0

HUBBELL Lighting

LTR-6SQA SpectraSync

LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

TM-30 DATA

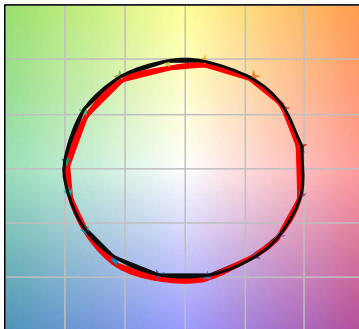**SPECTRASYNC™ TUNABLE WHITE (2765T)**

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

— Reference Illuminant   — Test Source

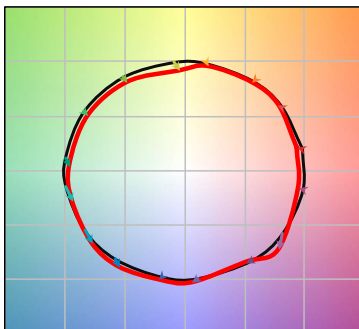**COLOR DISTORTION GRAPHIC**
2700K, 90+ CRI

COLOR VECTOR GRAPHIC
4600K, 90+ CRI

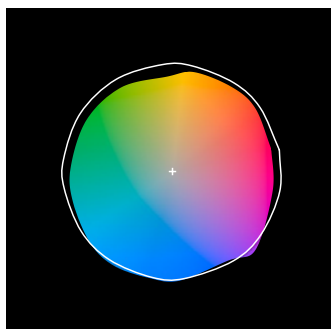— Reference Illuminant   — Test Source

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_f	90	89	87
R_g	97	98	96
CCT (K)	2817	4588	6518
D_{uv}	-0.0013	-0.0040	0.0018
x	0.4482	0.3565	0.3131
y	0.4047	0.3531	0.3273
CIE R_a	91	95	94
CIE R_9	47	81	76

HUBBELL Lighting

DATE:

LOCATION:

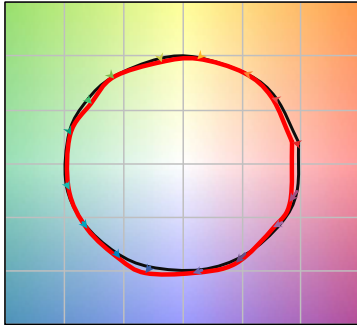TYPE:

PROJECT:

CATALOG #:

LTR-6SQA SpectraSync

LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING
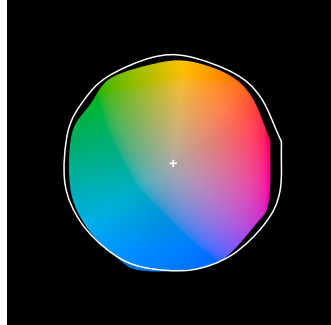
TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)
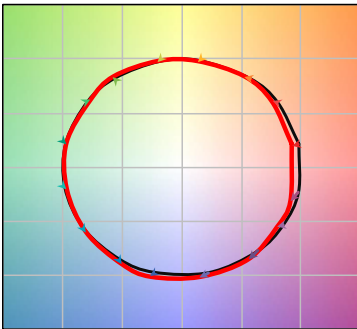
COLOR VECTOR GRAPHIC
3000K, 90+ CRI @ 100%

—— Reference Illuminant —— Test Source

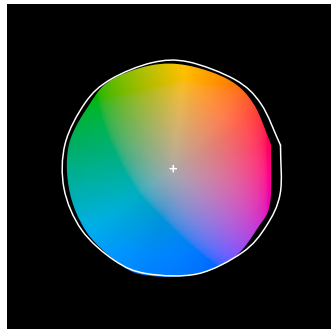**COLOR DISTORTION GRAPHIC**
3000K, 90+ CRI @ 100%

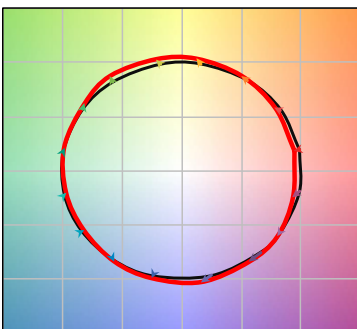**COLOR VECTOR GRAPHIC**
2600K, 90 CRI @ 50% DIM

—— Reference Illuminant —— Test Source

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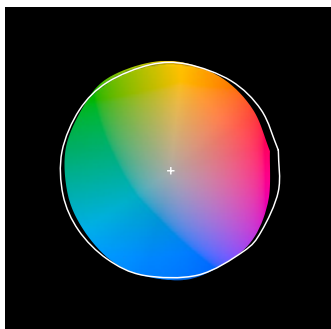**2600K, 90 CRI @ 50% DIM**

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)	1501	772	53
Wattage (W)	24.3	14	3.4
Efficacy (lm/W)	62	55	16
R_f	90	92	91
R_g	97	99	102
CCT (K)	3123	2590	2282
D_{UV}	-0.0017	-0.0015	-0.0029
x	0.4261	0.4662	0.4907
y	0.3965	0.4082	0.4068
CIE R_a	92	93	93
CIE R_9	53	60	64

HUBBELL
Lighting

LTR-6SQA SpectraSync

LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

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

HUBBELL Lighting