![prescolite]

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

LITEISTRY

FEATURES

- 6" architectural LED adjustable accent delivering 600–1500 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

- 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 Lighting Controls wired and wireless controls capability available

CSA C US

BAA (-BAA Option)   TAA (-TAA Option)

CONTROLS TECHNOLOGY

NX WIRELESS   NX WIRED   SpectraSync Color Tuning Technology
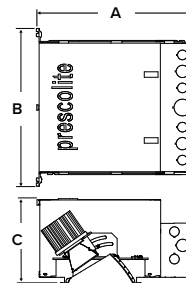
Typical Dimensions

"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)
14.56 (370)	14.36 (365)	8.24 (210)

See DIMENSIONS section for complete details

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 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

- Long LED Life: L70 at >60,000 hours (TM-21)

- 90+ CRI standard

- UL Class 2, inherent short circuit and overload protection

- Flicker free 0–10V dimming to 5%

- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments

- Emergency Battery Pack option available with remote test switch an indicator light

- Refer to additional spec sheets for information on standard LITEISTRY solutions

INSTALLATION
- Accommodates ceiling thickness up to 1.25"

- Universal adjustable mounting brackets also accept ½" EMT conduit or 1 ½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)

- 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 under UL 924 standard for emergency lighting and power equipment

- EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant

- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring

- For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) See Buy America(n) Solutions

- For -TAA Option: Product configurations meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) See Buy America(n) Solutions

WARRANTY
- 5 year warranty

KEY DATA

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

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

ORDERING GUIDE

Example: LTR-6SQA-H-10L2230TD9NR-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]	**NX Lighting Controls** _Networked Wireless_ **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor _Networked Wired_ **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor	_Standard 120-277V_	**CP** Chicago Plenum [8,9,10] **IC** IC rated [8,9,10] **EMR** 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [8,10] **F** Fuse [8] **BAA** Buy American Act (FAR 52.225-9) Compliant **TAA** Trade Agreements Act (FAR 52.225-11) Compliant	

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®	_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] **BAA** Buy American Act (FAR 52.225-9) Compliant **TAA** Trade Agreements Act (FAR 52.225-11) Compliant	

Accessories		Lens/Media Accessories	
☐ **B24**	Set of two (2) 24" bar hangers for T-bar ceilings	☐ **LL4**	Linear Spread Lens for 4" and 6" (MD, WD, XW) [6]
☐ **B6**	Set of two bar hangers for ceiling joist up to 24" centers	☐ **LL4-NR**	Linear Spread Lens for 4" and 6" (NR only) [6]
☐ **FMR6-SQ**	Flush Mount Mud-In Ring, 6" Square	☐ **PL4**	Prismatic Lens for 4" and 6" (MD, WD, XW) [6]
☐ **LiteGear**	LiteGear® Inverter, 125VA-250VA	☐ **PL4-NR**	Prismatic Lens for 4" and 6" (NR only) [6]
☐ **LPS Series**	LightPower Micro-Inverter, 20VA-55VA	☐ **SOL4**	Solite Lens for 4" and 6" (MD, WD, XW) [6]
☐ **MOR6-SQ-WH**	Metal Oversized Ring, 6"Square, White (10.25" outer dimension)	☐ **SOL4-NR**	Solite Lens for 4" and 6" (NR only) [6]
☐ **MOR6-SQ-BL**	Metal Oversized Ring, 6"Square, Black (10.25" outer dimension)	☐ **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. Narrow (NR) available up to 10L.
8. Housing options (except Fuse, BAA/TAA) not available in combination.
9. IC, CP available in 06L.
10. Not available with Control options.

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LTR-6SQA SpectraSync_R03

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

NX LIGHTING CONTROLS

		Control Option Ordering Logic & Description	Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	√	√	√	–	–	√	√	√		NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	√	√	√	–	–	√	√	√₁		NXDSP

1   Requires NXBTC, order separately.

NX LIGHTING CONTROLS APP

The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android   Apple iOS

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Rev 12/17/23
LTR-6SQA SpectraSync_R03

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

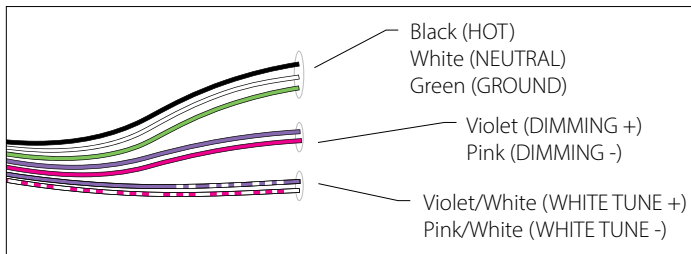## SPECTRASYNC™ COLOR TUNING TECHNOLOGY

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.

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

Violet (DIMMING +)
Pink (DIMMING -)

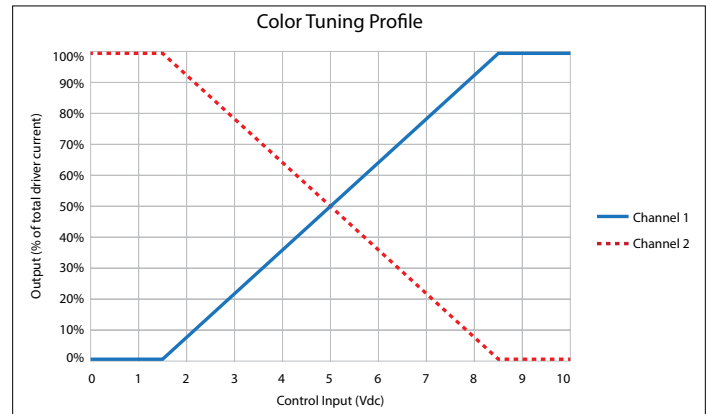Violet/White (WHITE TUNE +)
Pink/White (WHITE TUNE -)

SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/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:
- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile

Channel 1
Channel 2

Output (% of total driver current)
Control Input (Vdc)

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

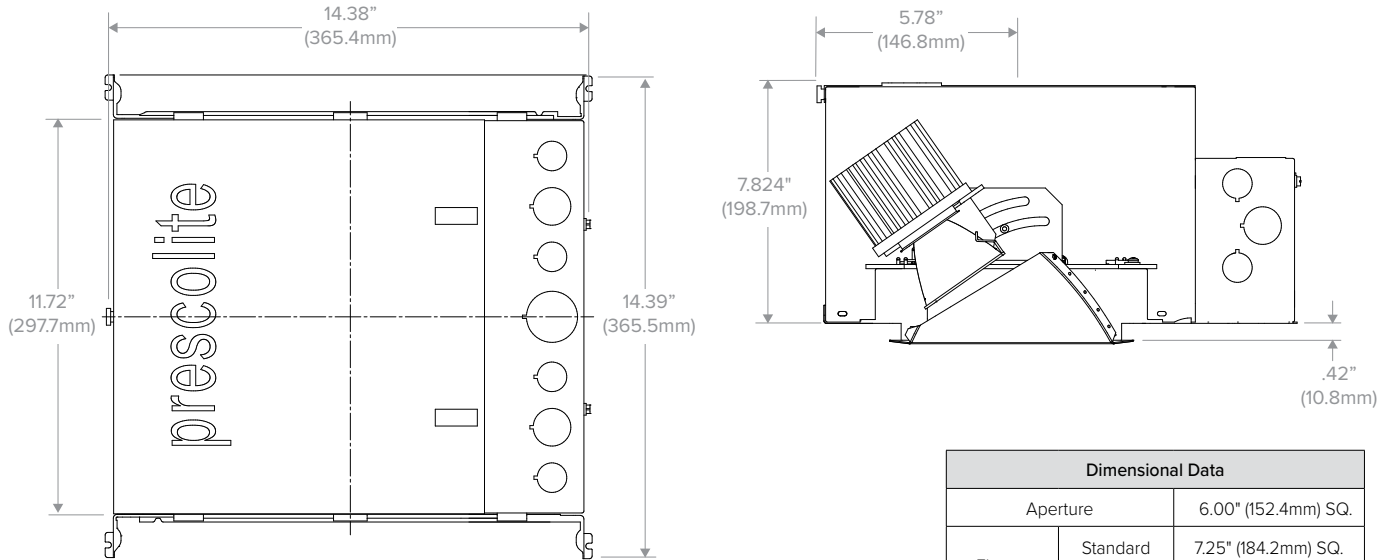# prescolite

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)

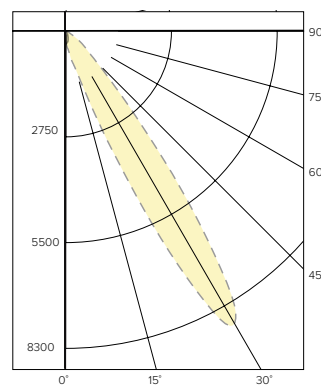| Dimensional Data		
Aperture		6.00" (152.4mm) SQ.
Flange	Standard	7.25" (184.2mm) SQ.
	Flush Mount	6.47" (164.3mm) SQ.
Ceiling Cutout	Standard	6.69" (169.9"mm) SQ.
	Flush Mount	6.88" (174.8mm) SQ.
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

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

90°

75°

60°

45°

2750

5500

8300

0°   15°   30°

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

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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
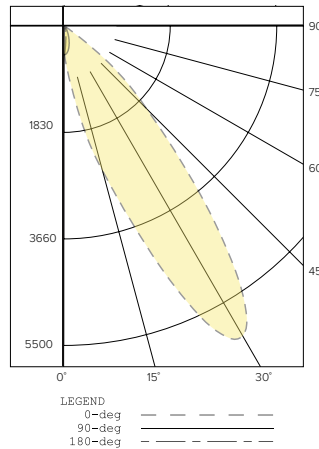
CANDELA DISTRIBUTION

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
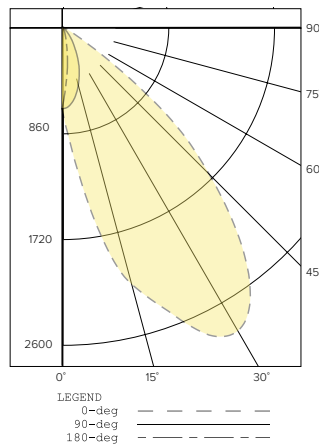
CANDELA DISTRIBUTION

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
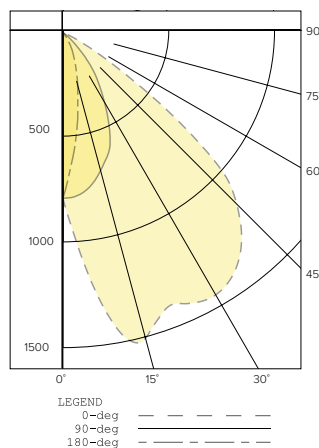
CANDELA DISTRIBUTION

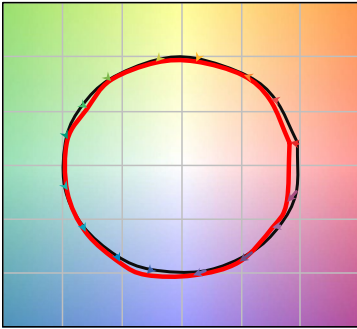| Degree	Candela-0	Candela-45	Candela-90
0	793	793	793
5	1095	994	783
15	1519	1349	688
25	1431	1135	532
35	1418	1001	301
45	1183	679	107
55	471	240	19
65	56	25	2
75	0	1	1
85	0	0	0
90	0	0	0

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LITEISTRY 6" SQUARE ADJUSTABLE WITH COLOR TUNING

TM-30 DATA

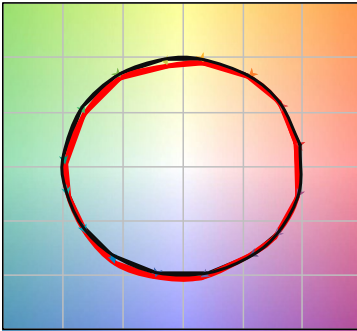**SPECTRASYNC™ TUNABLE WHITE (2765T)**

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

—— Reference Illuminant   —— Test Source

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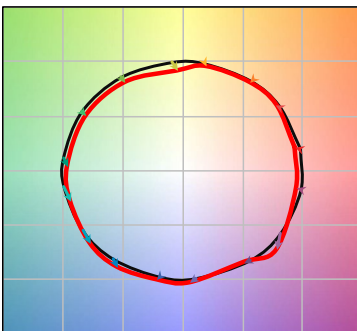**2700K, 90+ CRI**

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

Current ⊚

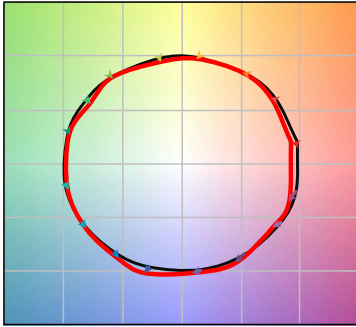**LTR-6SQA SpectraSync_R03**

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

TM-30 DATA CONTINUED

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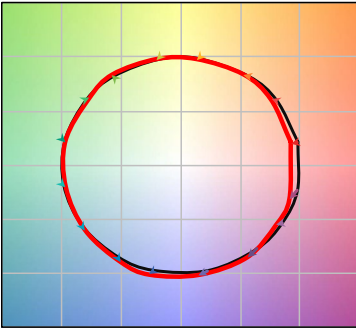
COLOR VECTOR GRAPHIC
3000K, 90+ CRI @ 100%

Reference Illuminant   Test Source
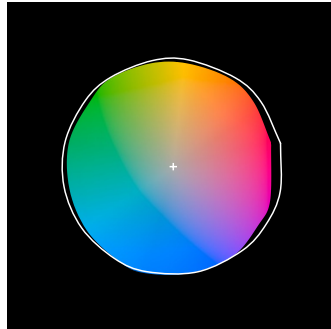
COLOR DISTORTION GRAPHIC
3000K, 90+ CRI @ 100%

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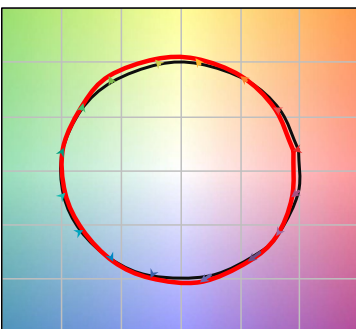**2600K, 90 CRI @ 50% DIM**

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

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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

ADDITIONAL INFORMATION

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

Lumen Output in Emergency Mode
To determine the lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW).
For example, 7W x 120 LPW = 840 lumens in emergency mode.