prescolite

LTR-6RA SpectraSync
LITEISTRY 6" ROUND 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

- Select from three lower trim styles: Angle Cut Cone, Pinhole or Slot

- 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)	7.48 (190)

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 spun 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

- Optional pinhole or slot lower trim styles are available (painted finishes only)

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

- 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 ceiling except with EMR battery pack or Control options which requires top access for component replacement
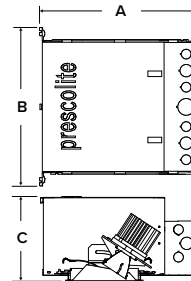
CERTIFICATIONS
- cCSAus certified to UL 1598

- 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

Current ◉

prescolite

DATE:	LOCATION:
TYPE:	PROJECT:
	CATALOG #:

LTR-6RA SpectraSync
LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

ORDERING GUIDE

Example: LTR-6RA-H-10L2230TD9NR-DMTW-LTR-6RA-T-SSCG

CATALOG # [   ]

HOUSING

LTR-6RA-H —

Aperture/Shape/Function		Lumen Output		CCT		CRI		Distribution	
LTR-6RA-H	6" Round 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]	**NX Lighting Controls**		Standard 120-277V	CP	Chicago Plenum [9, 10, 11]
DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% [2]	*Networked Wireless*			IC	IC rated [9, 10, 11]
		NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor		EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [9, 11]
		Networked Wired			F	Fuse [9]
		NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor		BAA	Buy American Act (FAR 52.225-9) Compliant
					TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-6RA-T —

Aperture/Shape/Function		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
LTR-6RA-T	6" Round 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]
		PH	Pinhole [6]	S	Specular	CG	Champagne Gold	WT	White Flange [3]			BAA	Buy American Act (FAR 52.225-9) Compliant
		SLT	Slot [6]	SS	Semi-Specular	BL	Black	BT	Black Flange [3]			TAA	Trade Agreements Act (FAR 52.225-11) Compliant
				MFC	American Matte™	LW	Light Wheat						
				VS	Softglow®	PW	Pewter						
				VSS	SoftSheen™	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
☐ **FMR6-R**	Flush Mount Mud-In Ring, 6" Round
☐ **LiteGear**	LiteGear® Inverter, 125VA-250VA
☐ **LPS Series**	LightPower Micro-Inverter, 20VA-55VA
☐ **MOR6-R-WH**	Metal Oversized Ring, 6" Round, White (10" outside diameter)
☐ **MOR6-R-BL**	Metal Oversized Ring, 6" Round, Black (10" outside diameter)

Lens/Media Accessories	
☐ **LL4**	Linear Spread Lens for 4" and 6" (MD, WD, XW) [7]
☐ **LL4-NR**	Linear Spread Lens for 4" and 6" (NR only) [7]
☐ **PL4**	Prismatic Lens for 4" and 6" (MD, WD, XW) [7]
☐ **PL4-NR**	Prismatic Lens for 4" and 6" (NR only) [7]
☐ **SOL4**	Solite Lens for 4" and 6" (MD, WD, XW) [7]
☐ **SOL4-NR**	Solite Lens for 4" and 6" (NR only) [7]
☐ **HL4**	Hexcell Louver Black for 4" and 6" (MD, WD, XW) [7]
☐ **HL4-NR**	Hexcell Louver Black for 4" and 6" (NR only) [7]

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. Pinhole and Slot available only in WC or BC painted colors.
7. Lens holder supplied with fixture accommodates up to 2 media (0.25" max. total thickness).
8. Narrow (NR) available up to 10L.
9. Housing options (except Fuse, BAA/TAA) not available in combination.
10. IC, CP available in 06L.
11. Not available with Control options.

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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

LTR-6RA SpectraSync_R02

LTR-6RA SpectraSync
LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

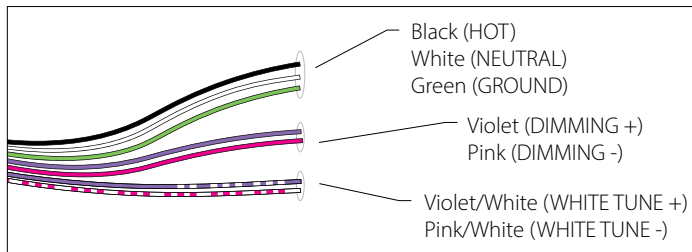## SPECTRASYNC™ COLOR TUNING TECHNOLOGY

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 +)
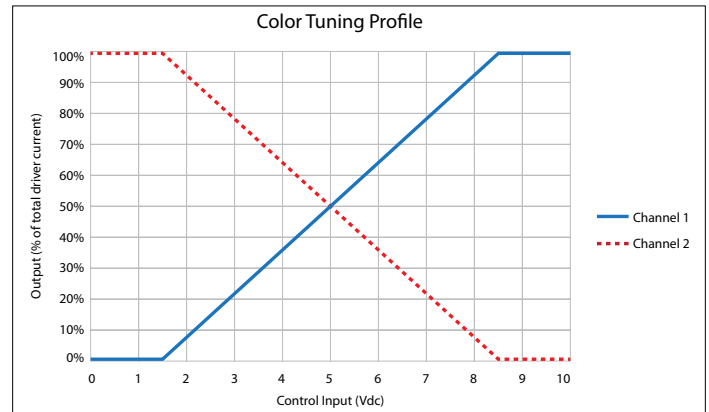Pink/White (WHITE TUNE -)

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

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

— Channel 1
----- Channel 2

To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.
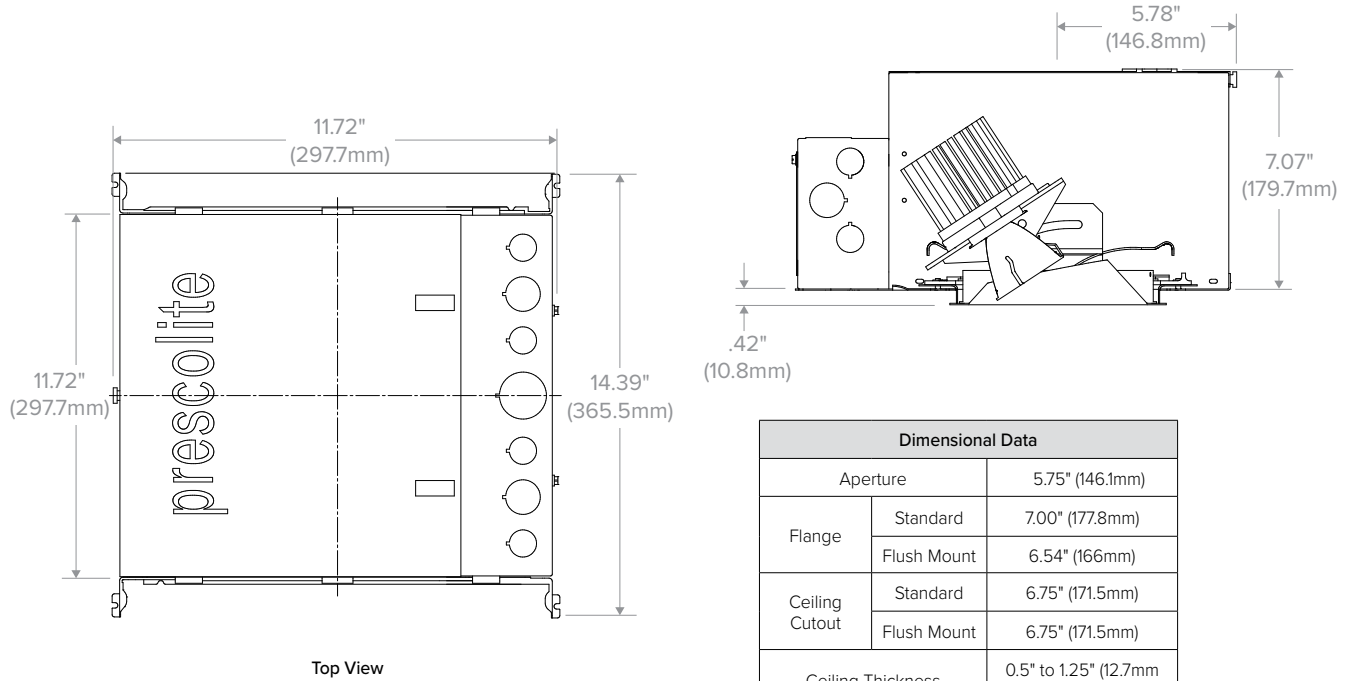
LTR-6RA SpectraSync_R02

LTR-6RA SpectraSync
LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

DIMENSIONS

Top View

Dimensional Data		
Aperture		5.75" (146.1mm)
Flange	Standard	7.00" (177.8mm)
	Flush Mount	6.54" (166mm)
Ceiling Cutout	Standard	6.75" (171.5mm)
	Flush Mount	6.75" (171.5mm)
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

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

LUMINAIRE DATA

Test No.	19.01220
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1025
Watts	18W
Efficacy	57
Mounting	Recessed
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	841	82.1
0-60	1023	100.0
0-90	1025	100.0
0-180	1025	100.0

POLAR GRAPH

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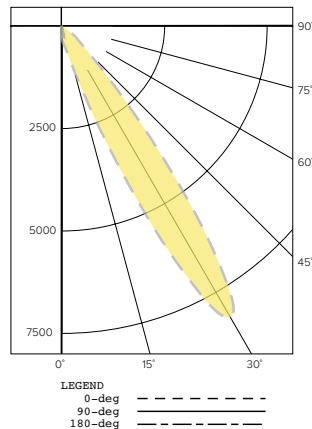
CANDELA DISTRIBUTION

Degree	Candela
0	297
5	405
15	973
25	5814
35	6083
45	1037
55	284
65	9
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	87461
55°	29536
65°	1215
75°	265
85°	0

*Candela/Square Meter

DATE: LOCATION:

TYPE: PROJECT:

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PHOTOMETRY CONTINUED

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

LUMINAIRE DATA

Test No.	19.01338
Description	1500 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1470
Watts	26.7W
Efficacy	55
Mounting	Recessed
Beam Angle (FWHM)	24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1112	76.0
0-60	1464	100.0
0-90	1470	100.0
0-180	1956	100.0

POLAR GRAPH
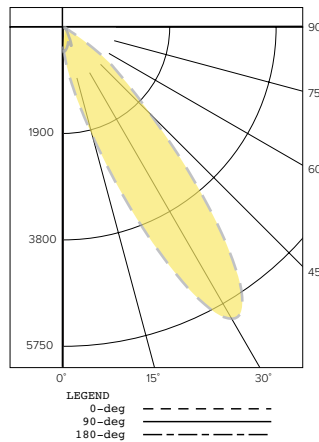
CANDELA DISTRIBUTION

Degree	Candela
0	360
5	672
15	1941
25	4828
35	5248
45	2114
55	551
65	23
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	178292
55°	57274
65°	3181
75°	520
85°	0

*Candela/Square Meter

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

LUMINAIRE DATA

Test No.	19.01339
Description	1500 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1410
Watts	26.7W
Efficacy	53
Mounting	Recessed
Beam Angle (FWHM)	36

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	997	70.7
0-60	1395	99
0-90	1410	100.0
0-180	1410	100.0

POLAR GRAPH
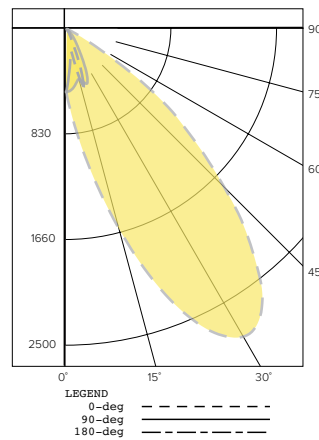
CANDELA DISTRIBUTION

Degree	Candela
0	509
5	788
15	1696
25	2674
35	2758
45	1801
55	739
65	55
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	151905
55°	76789
65°	7724
75°	673
85°	0

*Candela/Square Meter

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

LUMINAIRE DATA

Test No.	19.01186
Description	1500 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1365
Watts	26.7W
Efficacy	51
Mounting	Recessed
Beam Angle (FWHM)	52

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	926	68.0
0-60	1333	98.0
0-90	1365	100.0
0-180	1365	100.0

POLAR GRAPH
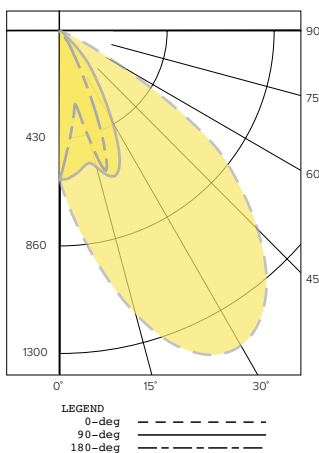
CANDELA DISTRIBUTION

Degree	Candela
0	619
5	805
15	1215
25	1487
35	1464
45	1174
55	716
65	121
75	6
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	99071
55°	74464
65°	17141
75°	1294
85°	0

*Candela/Square Meter

DATE: LOCATION:

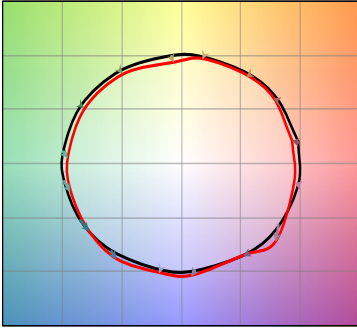TYPE: PROJECT:

CATALOG #:

LTR-6RA SpectraSync
LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING
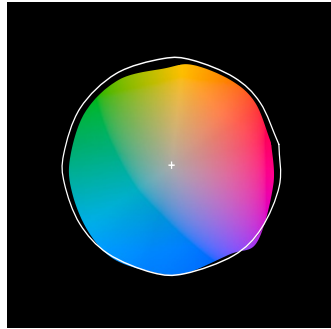
TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)
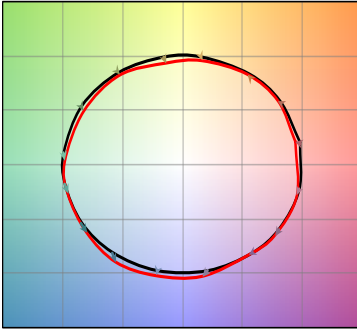
COLOR VECTOR GRAPHIC
2700K, 90+ CRI

—— Reference Illuminant   —— Test Source
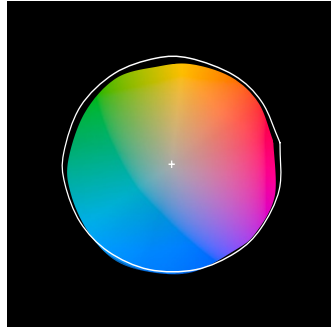
COLOR DISTORTION GRAPHIC
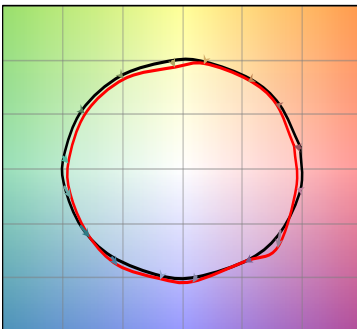### 2700K, 90+ CRI

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 @ 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_9	48	83	73

LTR-6RA SpectraSync
LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

TM-30 DATA CONTINUED

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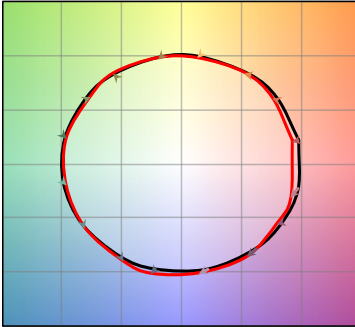
COLOR VECTOR GRAPHIC
3000K, 90+ CRI @ 100%
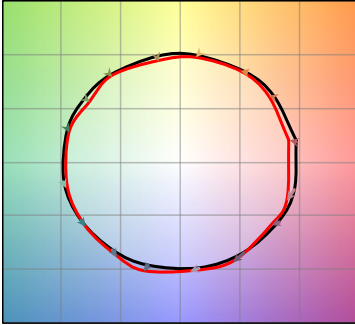
— Reference Illuminant   — Test Source

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

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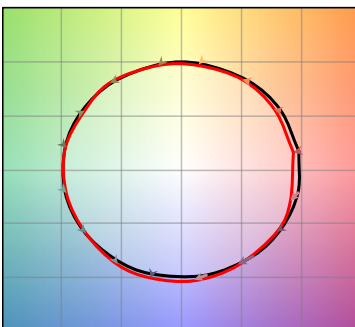**2600K, 90 CRI @ 50% DIM**

— Reference Illuminant   — Test Source

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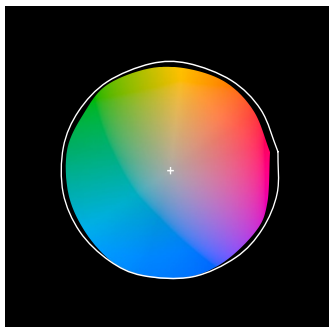**2600K, 90 CRI @ 50% DIM**

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)	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_9	52	60	57

DATE:	LOCATION:
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LTR-6RA SpectraSync
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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

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.