

# 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 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 0.50" 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 in a large selection of anodized finishes and colors
- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes and colors

### OPTICS (CONTINUED)

- 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, 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

- Accommodates ceiling thickness up to 1.25"
- Universal adjustable mounting brackets also accept 0.25" EMT conduit or 1.5" or 0.75" 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
- 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



# LTR-6RA SpectraSync

LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG #: \_\_\_\_\_

## ORDERING GUIDE

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

CATALOG # \_\_\_\_\_

### HOUSING

LTR-6RA-H		Lumen Output		CCT		CRI		Distribution		
Aperture/Shape/Function										
LTR-6RA-H	6" Round Adjustable New Construction Housing	06L	600	2230TD	2200K-3000K SpectraSync™		9	90+CRI	NR	Narrow 15° <sup>9</sup>
		10L	1000		Dim to Warm			MD	Medium 25°	
		15L	1500	2750T	2700K-5000K SpectraSync™		WD	Wide 35°		
		Tunable White			XW	Extra Wide 45°				
				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% <sup>1</sup>	NXE	NX Enabled, Dual SmartPorts	Standard 120-277V		CP	Chicago Plenum <sup>10, 11, 12</sup>
DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% <sup>2</sup>	NXWE	NX Wireless Enabled			IC	IC rated <sup>10, 11, 12</sup>
		NXWD	NX Wireless Enabled, Dual SmartPorts			EMR	Emergency Battery Pack with remote test switch and indicator light <sup>10, 12</sup>
		LV	Lutron Vive Enabled, 0-10V <sup>8</sup>			F	Fuse <sup>10</sup>

### TRIM

LTR-6RA-T		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
LTR-6RA-T	6" Round 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>		FM	Flush Mount Mud-In Ring <sup>5</sup>	AM	Antimicrobial Coating <sup>4</sup>
		PH	Pinhole <sup>6</sup>	S	Specular	CG	Champagne Gold	WT	White Flange <sup>3</sup>				
		SLT	Slot <sup>6</sup>	SS	Semi-Specular	BL	Black	BT	Black Flange <sup>3</sup>				
				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		Lens/Media Accessories		Notes:	
<input type="checkbox"/> B24	Set of two (2) 24" bar hangers for T-bar ceilings	<input type="checkbox"/> LL4	Linear Spread Lens for 4" and 6" (MD, WD, XW) <sup>7</sup>	<input type="checkbox"/> SOL4	Solite Lens for 4" and 6" (MD, WD, XW) <sup>7</sup>
<input type="checkbox"/> B6	Set of two bar hangers for ceiling joist up to 24" centers	<input type="checkbox"/> LL4-NR	Linear Spread Lens for 4" and 6" (NR only) <sup>7</sup>	<input type="checkbox"/> SOL4-NR	Solite Lens for 4" and 6" (NR only) <sup>7</sup>
<input type="checkbox"/> FMR6-R	Flush Mount Mud-In Ring, 6" Round	<input type="checkbox"/> PL4	Prismatic Lens for 4" and 6" (MD, WD, XW) <sup>7</sup>	<input type="checkbox"/> HL4	Hexcell Louver Black for 4" and 6" (MD, WD, XW) <sup>7</sup>
<input type="checkbox"/> LiteGear	LiteGear® Inverter, 125VA-250VA	<input type="checkbox"/> PL4-NR	Prismatic Lens for 4" and 6" (NR only) <sup>7</sup>	<input type="checkbox"/> HL4-NR	Hexcell Louver Black for 4" and 6" (NR only) <sup>7</sup>
<input type="checkbox"/> LPS Series	LightPower Micro-Inverter, 20VA-55VA				
<input type="checkbox"/> MOR6-R-WH	Metal Oversized Ring, 6" Round, White (10" outside diameter)				
<input type="checkbox"/> MOR6-R-BL	Metal Oversized Ring, 6" Round, Black (10" outside diameter)				



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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
<b>NX Networked – Wired</b>								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires <a href="#">NXBTC/R</a> <sup>1</sup>
<b>NX Networked – Wireless</b>								
NXWE <sup>2</sup>	N/A	Yes	Yes	No	No	Yes	Yes	No <sup>3</sup>
<b>NX Networked – Wired/Wireless</b>								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires <a href="#">NXBTC/R</a> <sup>1,3</sup>

- 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:

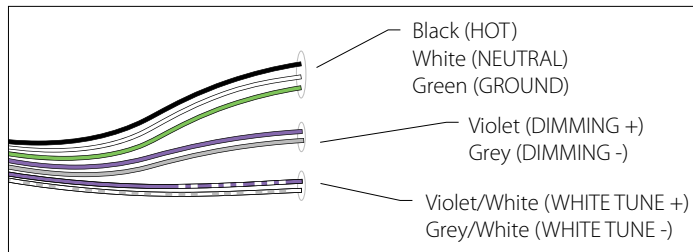
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

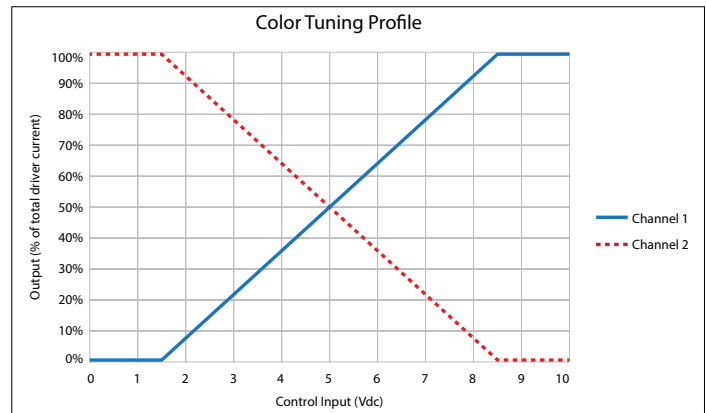


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### 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-6RA SpectraSync

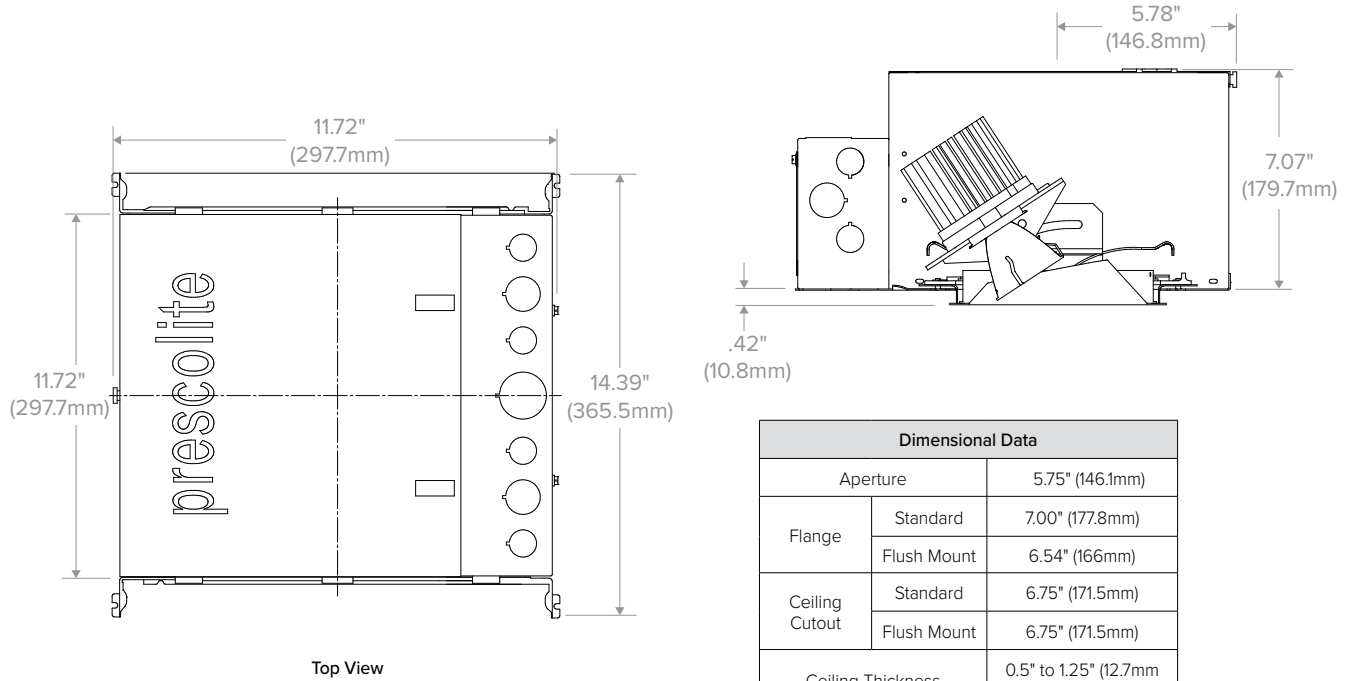
LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG #: \_\_\_\_\_

## DIMENSIONS



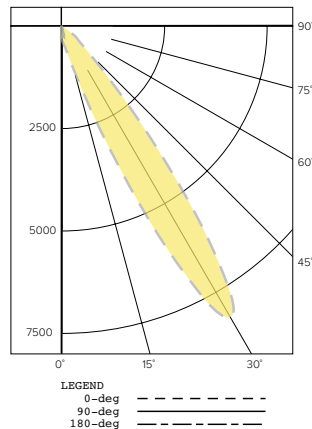
## PHOTOMETRY

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

### POLAR GRAPH



### 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

### 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

# LTR-6RA SpectraSync

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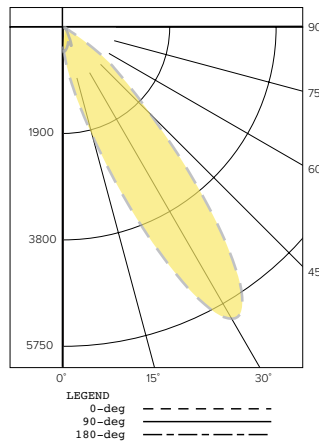
## PHOTOMETRY CONTINUED

### 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

#### 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

#### ZONAL LUMEN SUMMARY

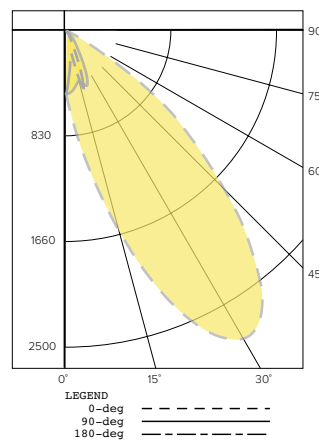
Zone	Lumens	% Luminaire
0-40	1112	76.0
0-60	1464	100.0
0-90	1470	100.0
0-180	1956	100.0

### 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

#### 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

#### ZONAL LUMEN SUMMARY

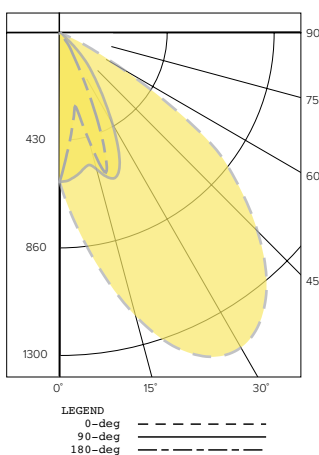
Zone	Lumens	% Luminaire
0-40	997	70.7
0-60	1395	99
0-90	1410	100.0
0-180	1410	100.0

### 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

#### 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

#### 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

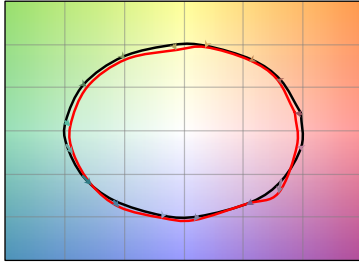
# LTR-6RA SpectraSync

LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

## TM-30 DATA

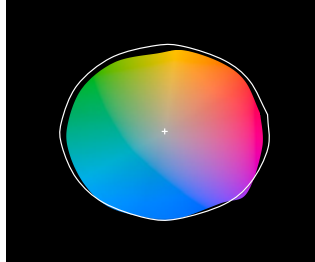
### SPECTRASYNCTM TUNABLE WHITE (2765T)

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

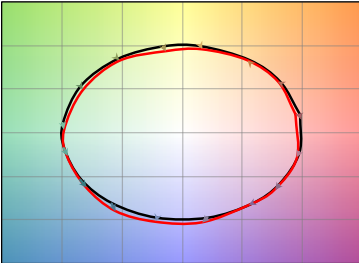


— Reference Illuminant — Test Source

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

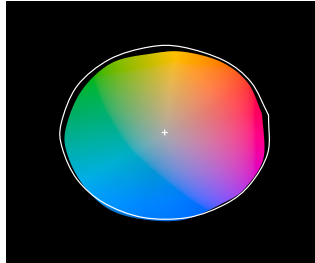


**COLOR VECTOR GRAPHIC**  
4600K, 90+ CRI

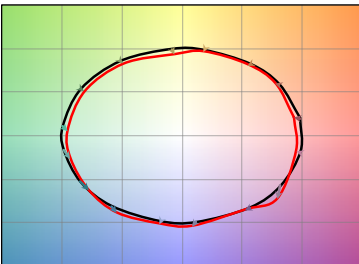


— Reference Illuminant — Test Source

**COLOR DISTORTION GRAPHIC**  
4600K, 90+ CRI

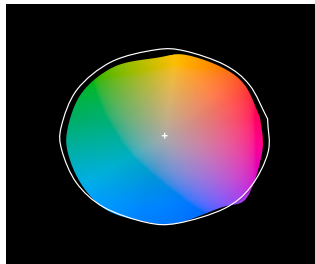


**COLOR VECTOR GRAPHIC**  
6500K, 90+ CRI



— 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 <sub>f</sub>	88	89	88
R <sub>g</sub>	97	98	97
CCT (K)	2809	4597	6326
D <sub>uv</sub>	-0.0018	-0.0052	0.0017
x	0.4481	0.3558	0.3163
y	0.4035	0.3502	0.33
CIE R <sub>a</sub>	91	95	94
CIE R <sub>g</sub>	48	83	73

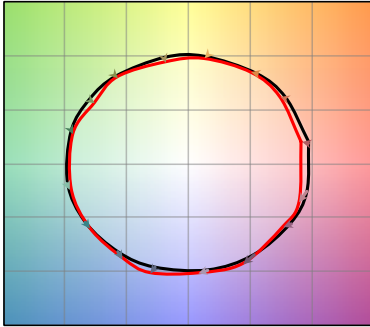
# LTR-6RA SpectraSync

LITEISTRY 6" ROUND ADJUSTABLE WITH COLOR TUNING

## TM-30 DATA CONTINUED

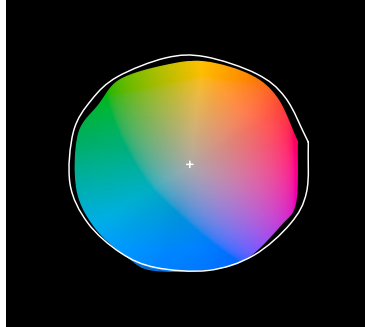
### SPECTRASYNCTM DIM TO WARM (2230TD)

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

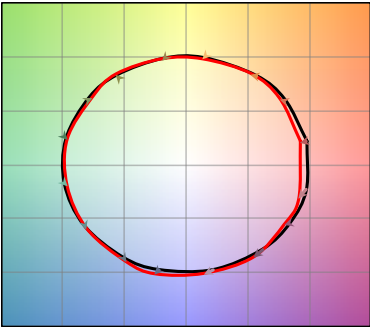


— Reference Illuminant — Test Source

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

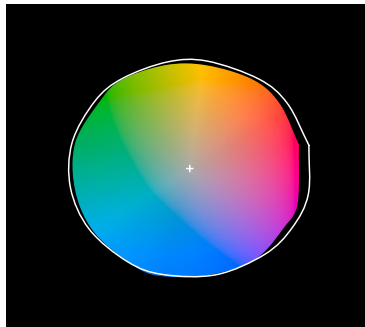


**COLOR VECTOR GRAPHIC**  
2600K, 90 CRI @ 50% DIM

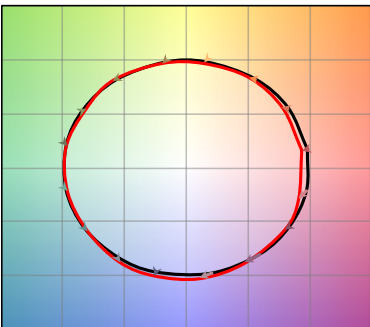


— Reference Illuminant — Test Source

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

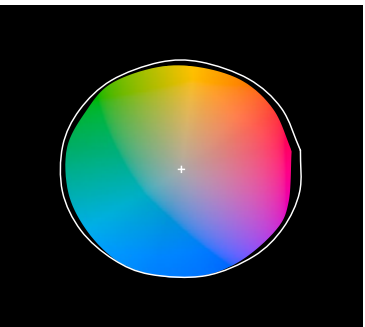


**COLOR VECTOR GRAPHIC**  
2200K, 90 CRI @ 5% DIM



— 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 <sub>f</sub>	90	92	92
R <sub>g</sub>	97	99	98
CCT (K)	3136	2650	2204
D <sub>uv</sub>	-0.0016	-0.0016	-0.0005
x	0.4254	0.461	0.5063
y	0.3965	0.4069	0.4168
CIE R <sub>a</sub>	92	93	92
CIE R <sub>g</sub>	52	60	57



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DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

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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

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](http://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](http://www.dual-lite.com/products/litegear_lg_series)

LPS Series: [www.dual-lite.com/products/lps](http://www.dual-lite.com/products/lps)