

LTR-3RA SpectraSync

LITEISTRY 3" ROUND ADJUSTABLE WITH COLOR TUNING

FEATURES

- 3" architectural LED adjustable accent delivering 600–1000 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
- Available for New Construction (non-IC), IC or Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- 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
- NX Distributed Intelligence™ wired and wireless controls capability available

LITEISTRY™



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
- All reflectors and lens media are field interchangeable for maximum flexibility
- 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

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
- Long LED life: L70 at > 60,000 hours (TM-21)
- 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 an 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 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)

INSTALLATION (CONTINUED)

- Light Engine serviceable from above or below ceiling. Top access required for driver, EMR battery pack or Controls 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	600-1000
Wattage Range	11-20
Efficacy Range (LPW)	36-51*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	91-167 (120V)

*Based on Specular, 30K, 90 CRI



DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

LTR-3RA SpectraSync

LITEISTRY 3" ROUND ADJUSTABLE WITH COLOR TUNING

ORDERING GUIDE

Example: LTR-3RA-H-10L2230TD9NR-DMTW-LTR-3RA-T-S

CATALOG #

HOUSING

LTR-3RA-H		Lumen Output		CCT		CRI		Distribution	
Aperture/Shape/Function									
LTR-3RA-H	3" Round Adjustable New Construction Housing	06L	600	2230TD	2200K-3000K SpectraSync™ Dim to Warm	9	90+CRI	NR	Narrow 15°
		10L	1000	2750T	2700K-5000K SpectraSync™ Tunable White			MD	Medium 25°
				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 Enabled, Dual SmartPorts	<i>Standard</i>		CP	Chicago Plenum ^{9,10,11}
DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% ²	NXWE	NX Wireless Enabled	<i>120-277V</i>		IC	IC rated ^{9,10,11}
		NXWD	NX Wireless Enabled, Dual SmartPorts			EMR	Emergency Battery Pack with remote test switch and indicator light ^{10,11}
		LV	Lutron Vive Enabled, 0-10V ⁸			F	Fuse ⁹

TRIM

LTR-3RA-T		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Reflector Options	
LTR-3RA-T	3" Round Adjustable Light Engine/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>		AM	Antimicrobial Coating ⁴
		PH	Pinhole ⁶	S	Specular	CG	Champagne Gold	WT	White Flange ³		
		LT	Slot ⁶	SS	Semi-Specular	BL	Black	BT	Black Flange ³		
				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
- FMR3-R** Flush Mount Mud-In Ring, 3" Round⁵
- LiteGear** LiteGear® Inverter, 125VA-250VA
- LPS Series** LightPower Micro-Inverter, 20VA-55VA
- MOR3-R-WH** Metal Oversized Ring, 3" Round, White (6.75" outside diameter)
- MOR3-R-BL** Metal Oversized Ring, 3" Round, Black (6.75" outside diameter)

Lens/Media Accessories

- LL3** Linear Spread Lens for 3" ⁷
- PL3** Prismatic Lens for 3" ⁷
- SOL3** Solite Lens for 3" ⁷
- HL3** Hexcell Louver Black for 3" 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 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.

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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
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:

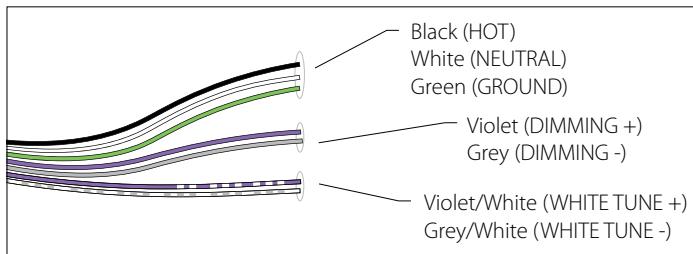
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

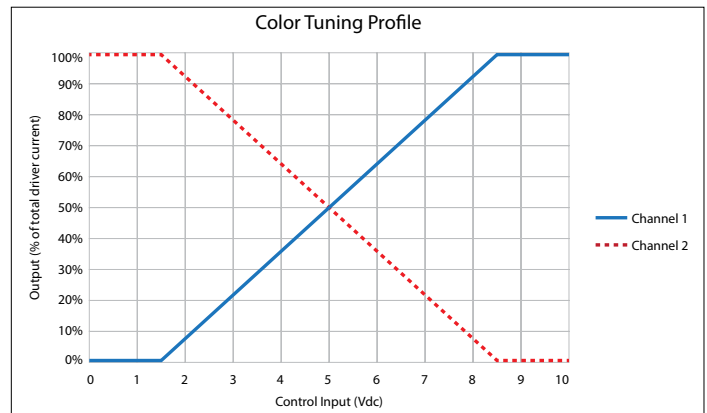


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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

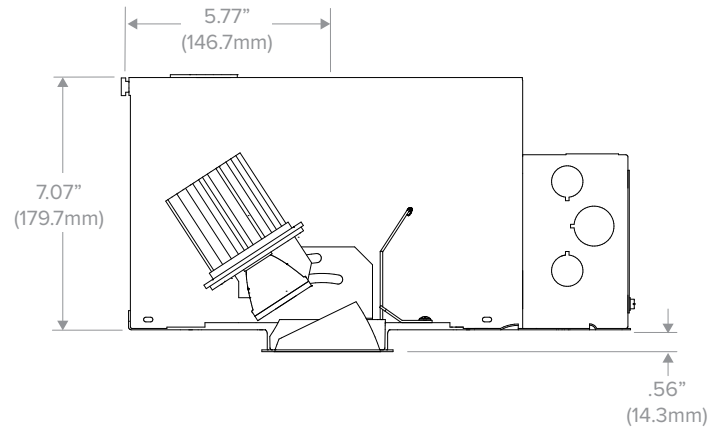
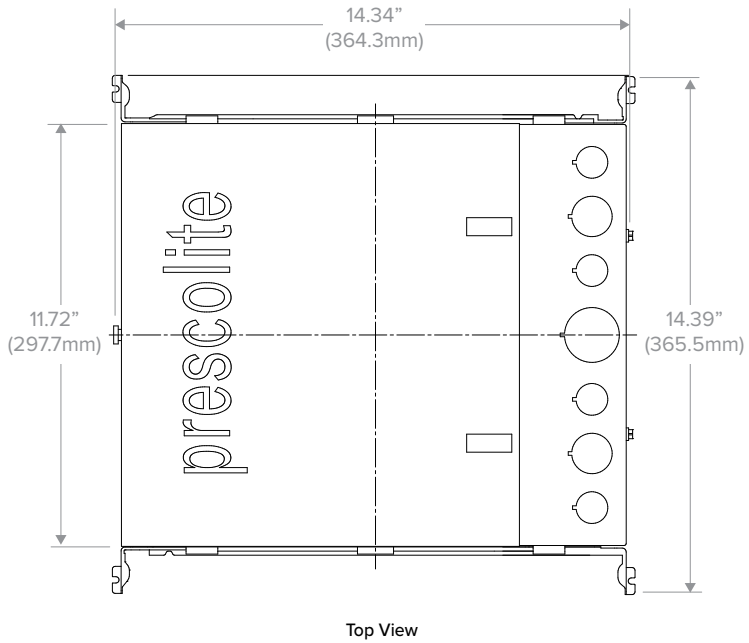


To enable scheduling and for use with NX wall control preset stations please refer to Hubbell Control Solutions NX SpectraSync technical sheet.

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DIMENSIONS



Dimensional Data		
Aperture		2.88" (73.2mm)
Flange	Standard	3.68" (93.5mm)
	Flush Mount	3.68" (93.5mm)
Ceiling Cutout	Standard	3.38" (85.9mm)
	Flush Mount	4.00" (101.6mm)
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

LTR-3RA-H-10L2765T9NR-DMT / LTR-3RA-T-S

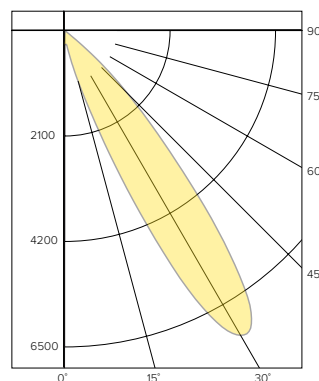
LUMINAIRE DATA

Test No.	19.00778
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1030
Watts	20.2W
Efficacy	51
Mounting	Recessed
Beam Angle (FWHM)	19

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	853	83.0
0-60	1027	100.0
0-90	1030	100.0
0-180	1030	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	274
5	273
15	1049
25	5345
35	6119
45	1742
55	54
65	9
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	577450
55°	22202
65°	4959
75°	1869
85°	0

*Candela/Square Meter

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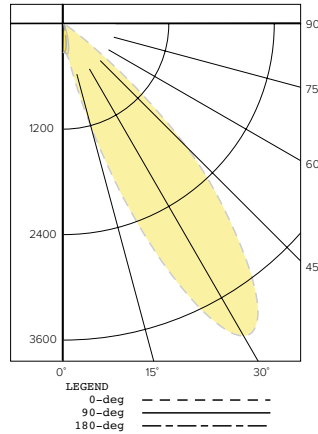
PHOTOMETRY CONTINUED

LTR-3RA-H-10L2765T9MD-DMT / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00779
Description	1000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	940
Watts	20.2W
Efficacy	47
Mounting	Recessed
Beam Angle (FWHM)	27

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	304
5	321
15	1145
25	3232
35	3575
45	1837
55	142
65	10
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	608965
55°	58232
65°	5424
75°	1898
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

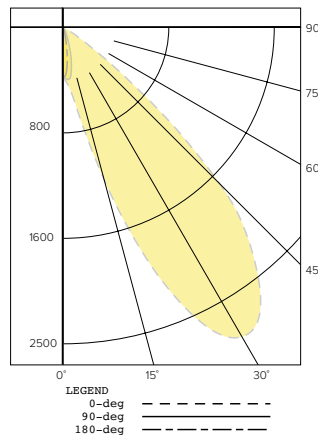
Zone	Lumens	% Luminaire
0-40	728	78.0
0-60	936	100.0
0-90	940	100.0
0-180	940	100.0

LTR-3RA-H-10L2765T9WD-DMT / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00780
Description	1000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	880
Watts	20.2W
Efficacy	44
Mounting	Recessed
Beam Angle (FWHM)	32

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	369
5	420
15	1130
25	2362
35	2504
45	1618
55	229
65	12
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	536371
55°	93485
65°	6576
75°	1264
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

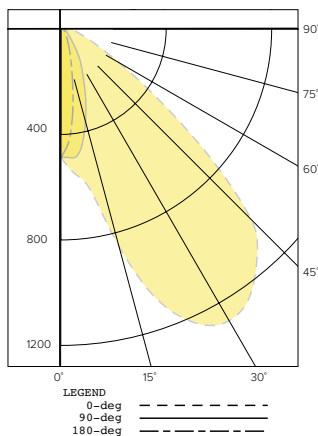
Zone	Lumens	% Luminaire
0-40	662	75.3
0-60	876	100.0
0-90	880	100.0
0-180	1262	100.0

LTR-3RA-H-10L2765T9XW-DMT / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00781
Description	1000 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	730
Watts	20.2W
Efficacy	36.0
Mounting	Recessed
Beam Angle (FWHM)	43

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	481
5	540
15	852
25	1195
35	1190
45	935
55	299
65	27
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	309854
55°	122150
65°	15186
75°	1378
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	532	73.0
0-60	722	99.0
0-90	730	99.0
0-180	730	100.0

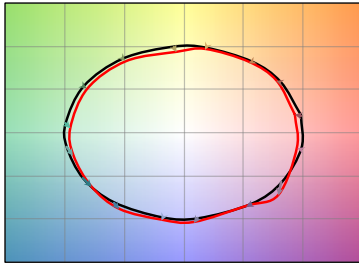
LTR-3RA SpectraSync

LITEISTRY 3" ROUND ADJUSTABLE WITH COLOR TUNING

TM-30 DATA

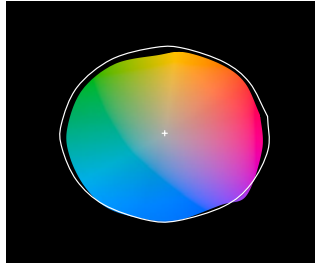
SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

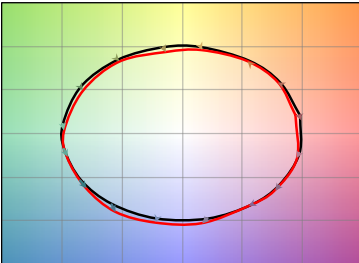


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI

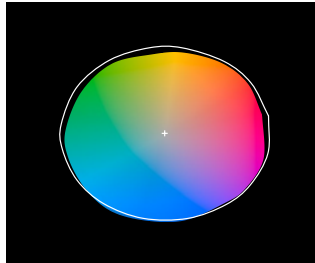


COLOR VECTOR GRAPHIC
4600K, 90+ CRI

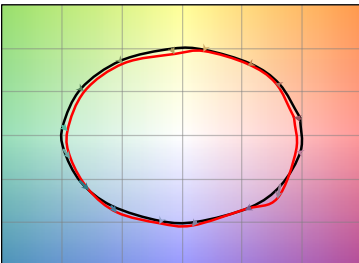


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

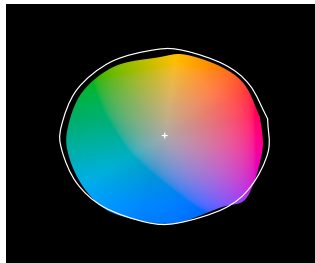


COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— 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 _r	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

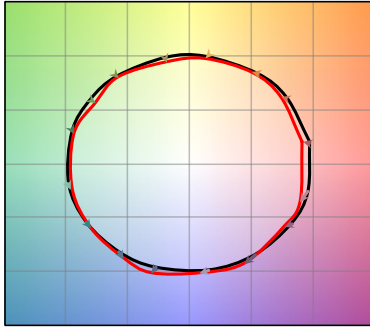
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TM-30 DATA CONTINUED

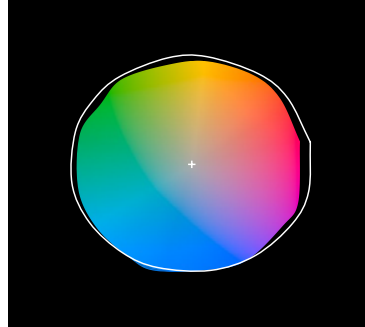
SPECTRASYNCTM DIM TO WARM (2230TD)

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

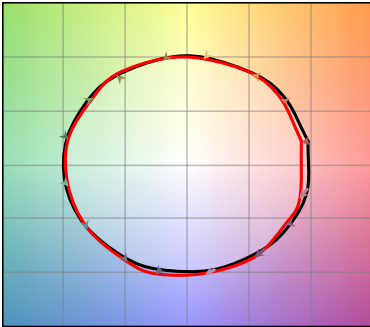


— Reference Illuminant — Test Source

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

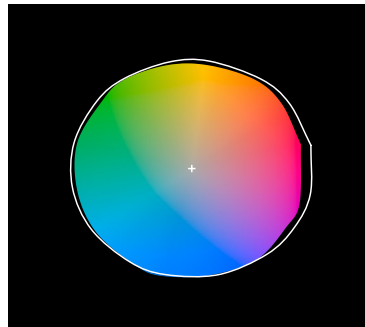


COLOR VECTOR GRAPHIC
2600K, 90 CRI @ 50% DIM

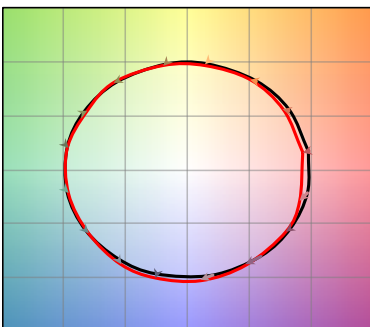


— Reference Illuminant — Test Source

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

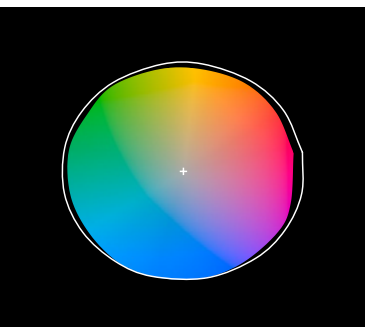


COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— 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 _t	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



LTR-3RA SpectraSync

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DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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	11
10L	1000	20

* 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