

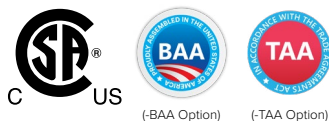
LTR-3RA SpectraSync

LITEISTRY 3" ROUND ADJUSTABLE WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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
- 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



CONTROLS 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
- Painted cones and flange options available
- Optional pinhole or slot lower trim styles are available (painted finishes only)

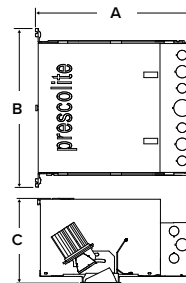
ELECTRICAL

- 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
- 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 and 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 serviceable from above or below ceiling. Top access required for driver, EMR battery pack or Controls component replacement

LITEISTRY™



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

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	
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

LITEISTRY 3" ROUND ADJUSTABLE WITH COLOR TUNING

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

CATALOG #

HOUSING

LTR-3RA-H							
Aperture/Shape/Function		Lumen Output	CCT		CRI	Distribution	
LTR-3RA-H	3" Round Adjustable New Construction Housing	06L 600 10L 1000	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° ⁸ 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	<u>NX Lighting Controls</u> <u>Networked Wireless</u> NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <u>Networked Wired</u> NXE NX Wired Dual RJ45 SmartPORTS, without Sensor	<i>Standard 120-277V</i>	CP Chicago Plenum ^{7,8,9} IC IC rated ^{7,8,9} EMR 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light ^{7,9} F Fuse ⁷ BAA Buy American Act (FAR 52.225-9) Compliant TAA Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-3RA-T									
Aperture/Shape/Function		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color 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>	
		PH	Pinhole ⁵	S	Specular	CG	Champagne Gold	WT	White Flange ³
		SLT	Slot ⁵	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

- | | |
|--|--|
| <input type="checkbox"/> B24 | Set of two (2) 24" bar hangers for T-bar ceilings |
| <input type="checkbox"/> B6 | Set of two bar hangers for ceiling joist up to 24" centers |
| <input type="checkbox"/> FMR3-R | Flush Mount Mud-In Ring, 3" Round |
| <input type="checkbox"/> LiteGear | LiteGear® Inverter, 125VA-250VA |
| <input type="checkbox"/> LPS Series | LightPower Micro-Inverter, 20VA-55VA |
| <input type="checkbox"/> MOR3-R-WH | Metal Oversized Ring, 3" Round, White (6.75" outside diameter) |
| <input type="checkbox"/> MOR3-R-BL | Metal Oversized Ring, 3" Round, Black (6.75" outside diameter) |

Lens/Media Accessories

- ☐ **LL3** Linear Spread Lens for 3" ⁶
- ☐ **PL3** Prismatic Lens for 3" ⁶
- ☐ **SOL3** Solite Lens for 3" ⁶
- ☐ **HL3** Hexcell Louver Black for 3" 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 Pinhole and Slot available only in WC or BC painted colors.
- 6 Lens holder supplied with fixture accommodates up to 2 media (0.25" max. total thickness).
- 7 Housing options (except Fuse, BAA/TAA) not available in combination.
- 8 IC, CP available in 06L.
- 9 Not available with Control options.

LTR-3RA SpectraSync

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LOCATION:

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PROJECT:

CATALOG #:

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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SPECTRASync™ COLOR TUNING TECHNOLOGY

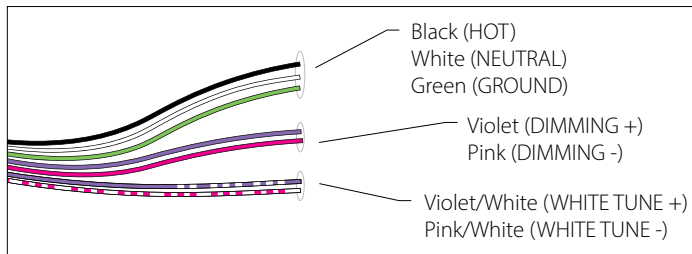
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

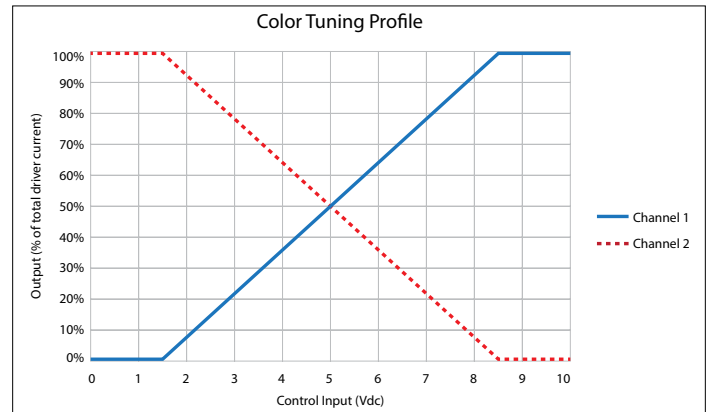


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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: DDTV, DVSTV, and NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



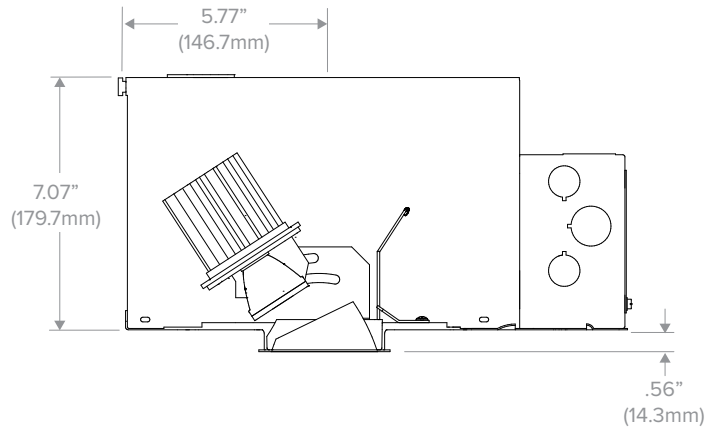
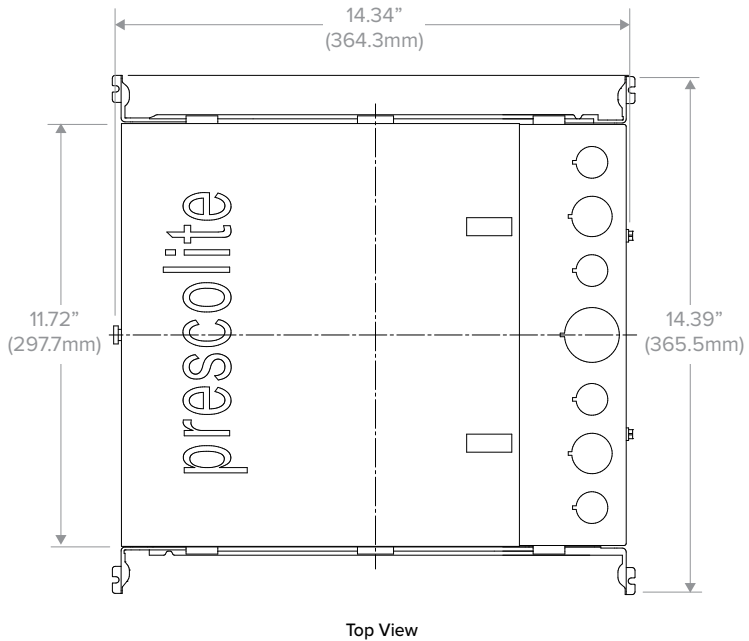
To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

LTR-3RA SpectraSync

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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

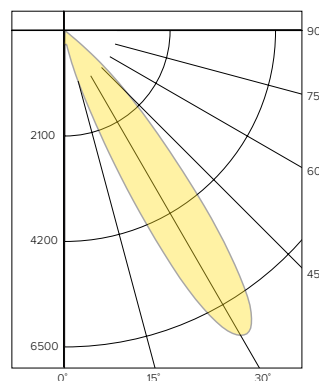
LUMINAIRE DATA

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

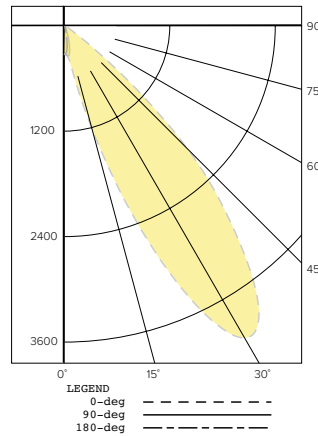
PHOTOMETRY CONTINUED

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

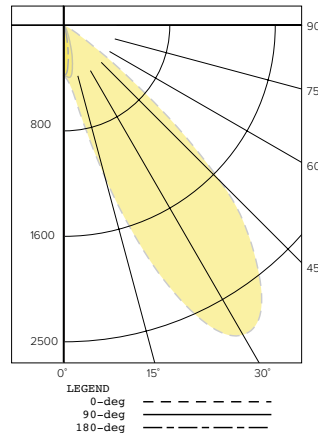
Zone	Lumens	% Luminaire
0-40	728	78.0
0-60	936	100.0
0-90	940	100.0
0-180	940	100.0

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

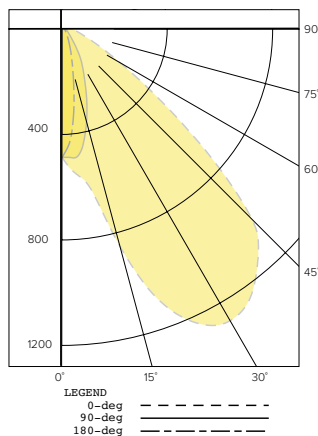
Zone	Lumens	% Luminaire
0-40	662	75.3
0-60	876	100.0
0-90	880	100.0
0-180	1262	100.0

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

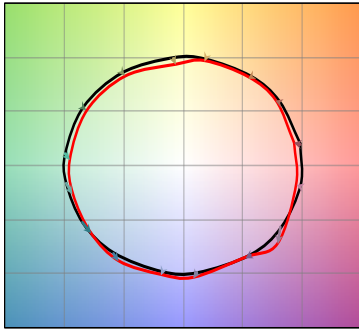
ZONAL LUMEN SUMMARY

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

TM-30 DATA

SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

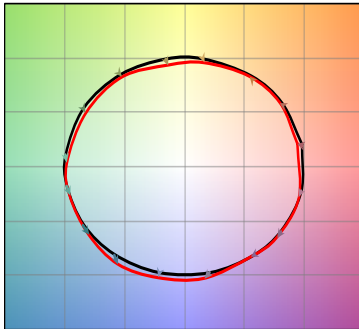


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI



COLOR VECTOR GRAPHIC
4600K, 90+ CRI

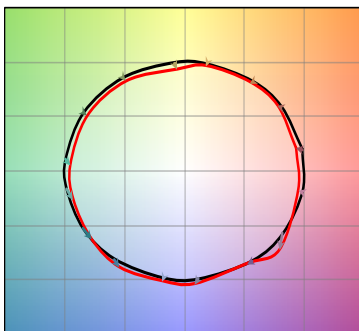


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI



COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
6500K, 90+ CRI

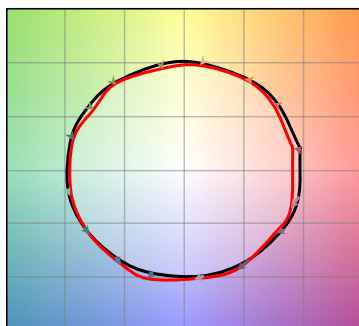


TEST RESULTS - TUNABLE WHITE @ 1000 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	846	941	982
Wattage (W)	17.0	16.8	16.9
Efficacy (lm/W)	50	56	58
R _f	88	89	88
R _g	97	98	97
CCT (K)	2809	4597	6326
D _{uv}	-0.0018	-0.0052	0.0017
x	0.4481	0.3558	0.3163
y	0.4035	0.3502	0.33
CIE R _a	91	95	94
CIE R _g	48	83	73

TM-30 DATA CONTINUED

SPECTRASYNCTM DIM TO WARM (2230TD)

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

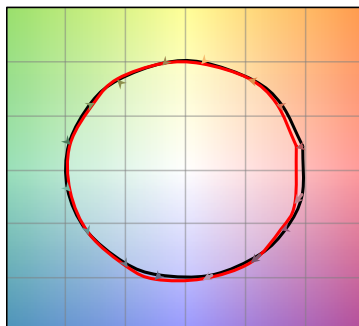


— Reference Illuminant — Test Source

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



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

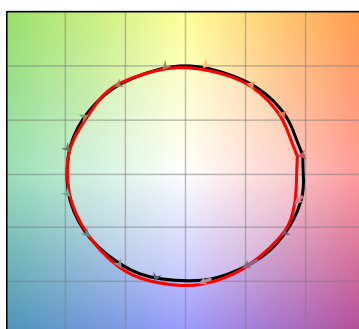


— Reference Illuminant — Test Source

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 _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 _g	52	60	57

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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.