

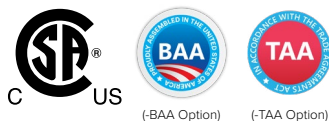
LTR-4SQA SpectraSync

LITEISTRY 4" SQUARE ADJUSTABLE WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- 4" 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



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
- 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

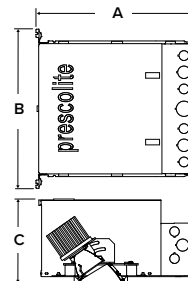
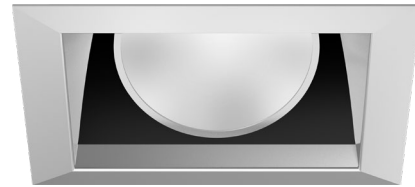
ELECTRICAL

- 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 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/Driver serviceable from above or below ceiling except with EMR battery pack or Control options which requires top access for 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	600-1500
Wattage Range	10-27
Efficacy Range (LPW)	49-56*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-225 (120V)

*Based on Specular, 30K, 90 CRI

LTR-4SQA SpectraSync

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ORDERING GUIDE

Example: LTR-4SQA-H-10L2230TD9NR-DMTW-LTR-4SQA-T-SSCG

CATALOG #

HOUSING

LTR-4SQA-H							
Aperture/Shape/Function		Lumen Output	CCT		CRI	Distribution	
LTR-4SQA-H	4" Square Adjustable New Construction Housing	06L 600	2230TD	2200K-3000K SpectraSync™ Dim to Warm	9 90+CRI	NR	Narrow 15° 7
		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	<u>NX Lighting Controls</u>		<i>Standard 120-277V</i>	CP	Chicago Plenum ^{8, 9, 10}
		<u>Networked Wireless</u>			IC	IC rated ^{8, 9, 10}
DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% ²	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 ^{8, 10}
		<u>Networked Wired</u>			F	Fuse ⁸
		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-4SQA-T							
Aperture/Shape/Function		Lower Trim Style	Reflector Finish	Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
LTR-4SQA-T	4" Square 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
			S Specular	CG Champagne Gold	WT White Flange ³		BAA Buy American Act (FAR 52.225-9) Compliant
			SS Semi-Specular	BL Black	BT Black Flange ³		TAA Trade Agreements Act (FAR 52.225-11) Compliant
			VS Softglow®	LW Light Wheat			
				PW Pewter			
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
- ☐ **FMR4-SQ** Flush Mount Mud-In Ring, 4" Square
- ☐ **LiteGear** LiteGear® Inverter, 125VA-250VA
- ☐ **LPS Series** LightPower Micro-Inverter, 20VA-55VA
- ☐ **MOR4-SQ-WH** Metal Oversized Ring, 4" Square, White (8.25" outer dimension)
- ☐ **MOR4-SQ-BL** Metal Oversized Ring, 4" Square, Black (8.25" outer dimension)

Lens/Media Accessories

- | | | |
|--------------------------|----------------|--|
| <input type="checkbox"/> | LL4 | Linear Spread Lens for 4" and 6" (MD, WD, XW) ⁶ |
| <input type="checkbox"/> | LL4-NR | Linear Spread Lens for 4" and 6" (NR only) ⁶ |
| <input type="checkbox"/> | PL4 | Prismatic Lens for 4" and 6" (MD, WD, XW) ⁶ |
| <input type="checkbox"/> | PL4-NR | Prismatic Lens for 4" and 6" (NR only) ⁶ |
| <input type="checkbox"/> | SOL4 | Solite Lens for 4" and 6" (MD, WD, XW) ⁶ |
| <input type="checkbox"/> | SOL4-NR | Solite Lens for 4" and 6" (NR only) ⁶ |
| <input type="checkbox"/> | HL4 | Hexcell Louver Black for 4" and 6" (MD, WD, XW) ⁶ |
| <input type="checkbox"/> | 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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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

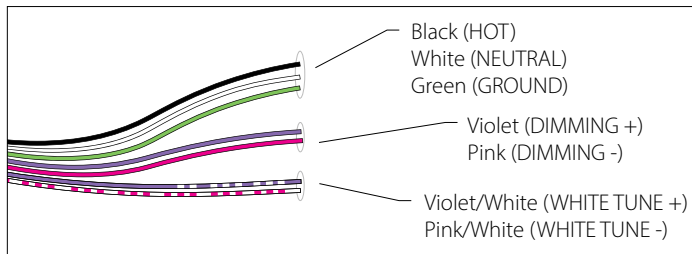
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

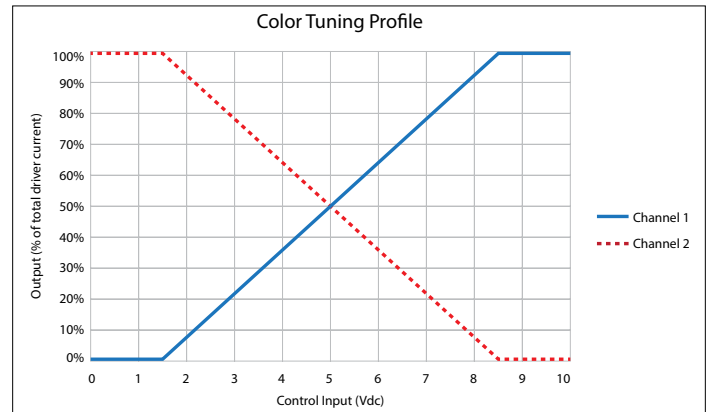


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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: 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 SpectraSync technical sheet.

LTR-4SQA SpectraSync

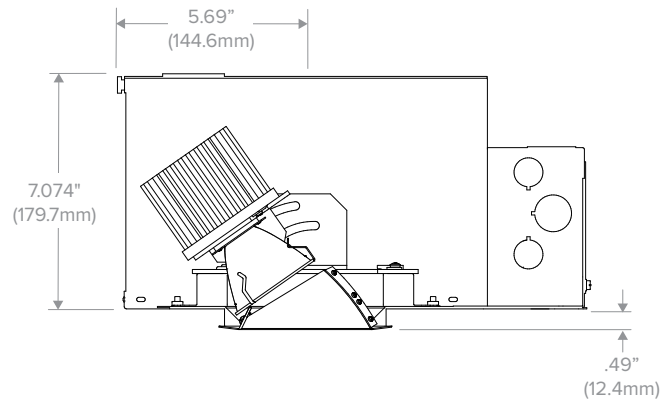
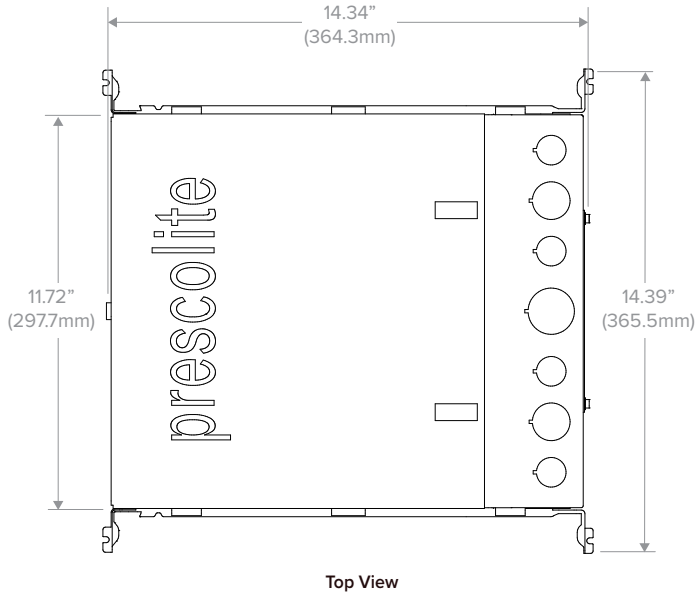
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DIMENSIONS



Dimensional Data		
Aperture		4.00" (101.6mm) SQ
Flange	Standard	5.25" (133.4mm) SQ
	Flush Mount	4.69" (119.1mm) SQ
Ceiling Cutout	Standard	5.00" (127.0mm) SQ
	Flush Mount	5.00" (127.0mm) SQ
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

LTR-4SQA-H-10L2765T9NR-DMT / LTR-4SQA-T-S

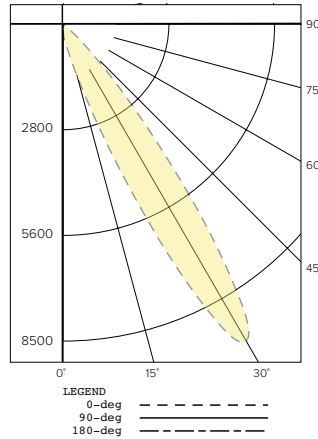
LUMINAIRE DATA

Test No.	R19.01142-01
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1015
Watts	18.0W
Efficacy	56.0
Mounting	Recessed
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	884	87.1
0-60	1013	99.8
0-90	1015	100.0
0-180	1015	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	162	162	162
5	404	344	150
15	1330	553	144
25	6632	613	71
35	6404	423	14
45	947	38	5
55	32	11	2
65	12	3	0
75	1	0	0
85	0	0	0
90	0	0	0

PHOTOMETRY CONTINUED

LTR-4SQA-H-15L2765T9MD-DMT / LTR-4SQA-T-S

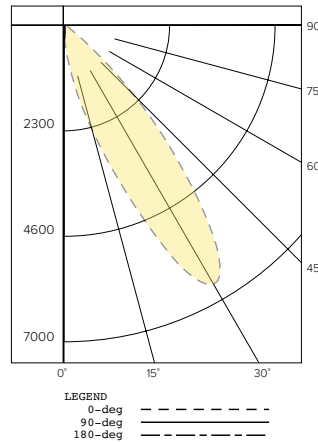
LUMINAIRE DATA

Test No.	R19.01340-01
Description	1500 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1460
Watts	26.7W
Efficacy	55.0
Mounting	Recessed
Beam Angle (FWHM)	24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1185	81.2
0-60	1456	99.7
0-90	1460	100.0
0-180	1460	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	298	298	298
5	693	553	291
15	2392	1214	226
25	5488	1260	110
35	5520	819	38
45	1911	125	12
55	79	29	4
65	13	6	0
75	0	1	0
85	0	0	0
90	0	0	0

LTR-4SQA-H-15L2765T9WD-DMT / LTR-4SQA-T-S

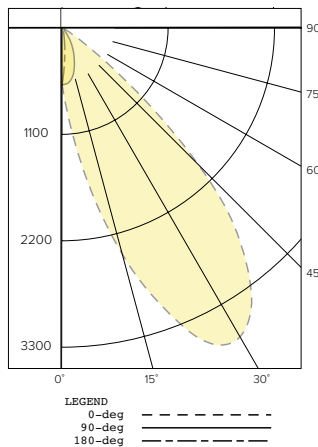
LUMINAIRE DATA

Test No.	R19.01341-01
Description	1500 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1400
Watts	26.7W
Efficacy	52.0
Mounting	Recessed
Beam Angle (FWHM)	35

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1069	76.3
0-60	1392	99.4
0-90	1400	100.0
0-180	1400	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	525	525	525
5	925	789	516
15	2180	1375	417
25	3214	1420	249
35	3056	1008	101
45	1764	337	24
55	257	58	7
65	27	10	1
75	0	1	0
85	0	0	0
90	0	0	0

LTR-4SQA-H-15L2765T9XW-DMT / LTR-4SQA-T-S

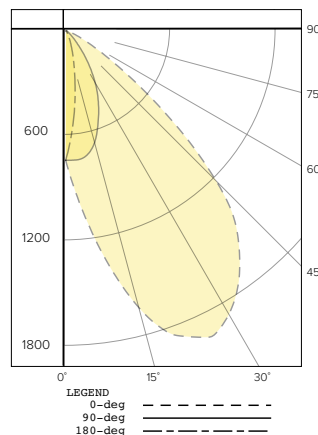
LUMINAIRE DATA

Test No.	R19.01169-01
Description	1500 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1320
Watts	26.7W
Efficacy	49.0
Mounting	Recessed
Beam Angle (FWHM)	47

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	969	73.4
0-60	1301	98.6
0-90	1320	100.0
0-180	1320	100.0

POLAR GRAPH



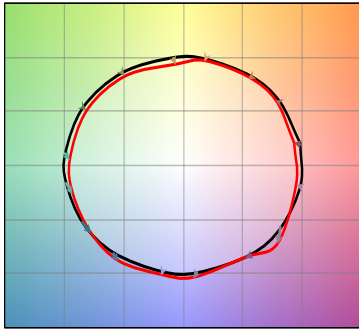
CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	746	746	746
5	1019	941	746
15	1658	1306	654
25	1943	1353	440
35	1735	1042	216
45	1218	501	58
55	393	132	12
65	69	20	1
75	0	1	1
85	0	0	0
90	0	0	0

TM-30 DATA

SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

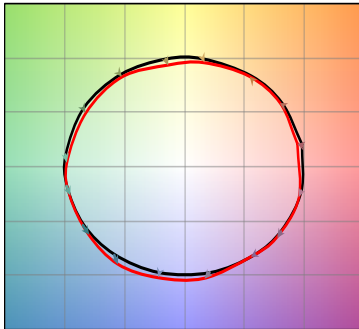


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI



COLOR VECTOR GRAPHIC
4600K, 90+ CRI

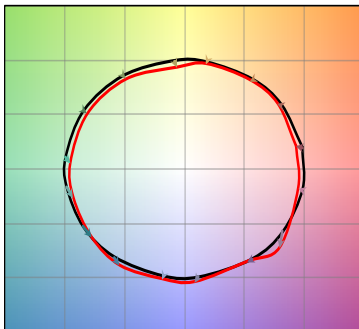


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

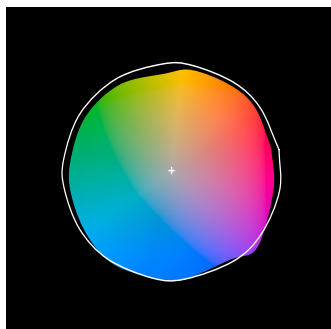


COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
6500K, 90+ CRI

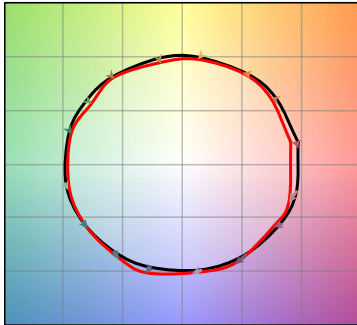


TEST RESULTS - TUNABLE WHITE @ 1000 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	846	941	982
Wattage (W)	17.0	16.8	16.9
Efficacy (lm/W)	50	56	58
R _f	88	89	88
R _g	97	98	97
CCT (K)	2809	4597	6326
D _{uv}	-0.0018	-0.0052	0.0017
x	0.4481	0.3558	0.3163
y	0.4035	0.3502	0.33
CIE R _a	91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

TM-30 DATA CONTINUED

SPECTRASYNCTM DIM TO WARM (2230TD)

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



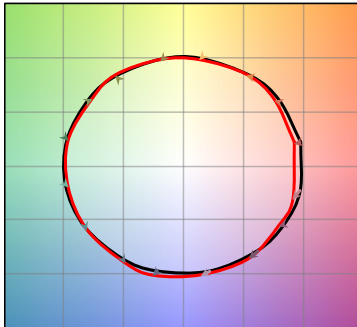
— Reference Illuminant — Test Source

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



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

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

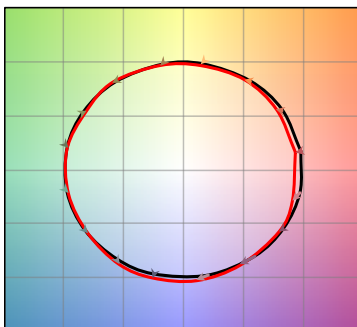


— Reference Illuminant — Test Source

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

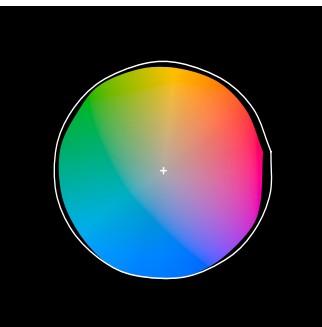


COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— Reference Illuminant — Test Source

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



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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.