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LTR-4RA SpectraSync
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

LITEISTRY

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

- 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
- For New Construction Non-IC applications

- 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

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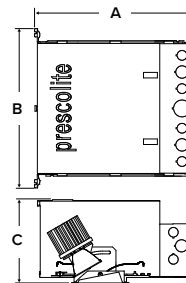
CERTIFICATIONS
- cCSAus certified to UL 1598

- 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)	52-59*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-225 (120V)

*Based on Specular, 30K, 90 CRI

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LTR-4RA SpectraSync
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

ORDERING GUIDE

Example: LTR–4RA–H–10L2230TD9NR–DMTW–LTR–4RA–T–SSCG

CATALOG #

HOUSING

LTR-4RA-H	–					–

Aperture/Shape/Function		Lumen Output	CCT		CRI	Distribution
LTR-4RA-H	4" Round Adjustable New Construction Housing	**06L** 600 **10L** 1000 **15L** 1500	**2230TD**	2200K-3000K SpectraSync™ Dim to Warm [1]	**9** 90+CRI	**NR** Narrow 15° [8] **MD** Medium 25° **WD** Wide 35° **XW** Extra Wide 45°
			2750T	2700K-5000K SpectraSync™ Tunable White [2]		
			2765T	2700K-6500K SpectraSync™ Tunable White [2]		

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]	**NX Lighting Controls** _Networked Wireless_ **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor _Networked Wired_ **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor	_Standard 120-277V_	**CP** Chicago Plenum [9,10,11] **IC** IC rated [9,10,11] **EMR** 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light [9,11] **F** Fuse [9] **BAA** Buy American Act (FAR 52.225-9) Compliant **TAA** Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-4RA-T	–						–

Aperture/Shape/Function	Lower Trim Style	Reflector Finish	Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
LTR-4RA-T 4" Round Adjustable Light Engine/ Trim Assembly	_Standard Angle Cut Cone_ **PH** Pinhole [6] **SLT** Slot [6]	_Finish not applicable with painted reflectors (WC or BC)_ **S** Specular **SS** Semi-Specular **MFC** American Matte™ **VS** Softglow® **VSS** SoftSheen™	_Standard Clear_ **CG** Champagne Gold **BL** Black **LW** Light Wheat **PW** Pewter **WC** Painted White Cone and Flange **BC** Painted Black Cone and Flange	_Standard matches reflector color_ **WT** White Flange [3] **BT** Black Flange [3]	**FM** Flush Mount Mud-in Ring [5]	**AM** Antimicrobial Coating [4] **BAA** Buy American Act (FAR 52.225-9) Compliant **TAA** Trade Agreements Act (FAR 52.225-11) Compliant

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-R** Flush Mount Mud-In Ring, 4" Round
- [ ] **LiteGear** LiteGear® Inverter, 125VA-250VA
- [ ] **LPS Series** LightPower Micro-Inverter, 20VA-55VA
- [ ] **MOR4-R-WH** Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
- [ ] **MOR4-R-BL** Metal Oversized Ring, 4" Round, Black (8.25" 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 Functionality								Control Option Components	
Control Option Ordering Logic & Description			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-4RA SpectraSync_R03

LTR-4RA SpectraSync
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

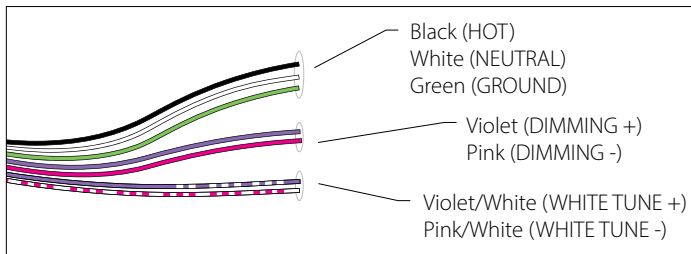## SPECTRASYNC™ COLOR TUNING TECHNOLOGY

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
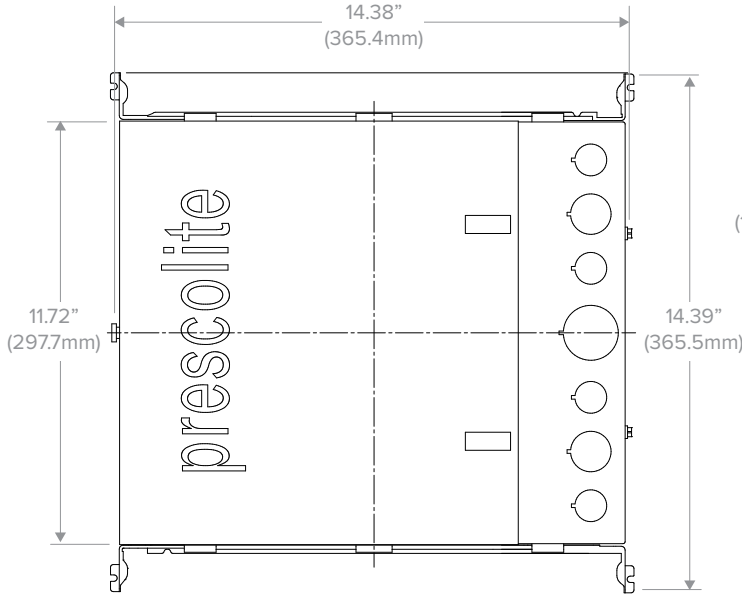- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

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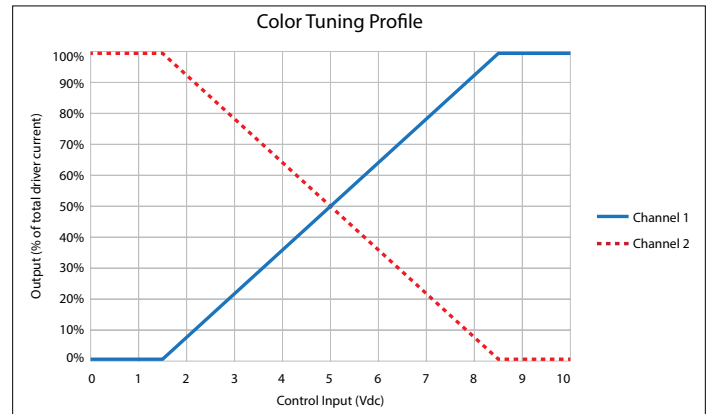
To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

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LTR-4RA SpectraSync
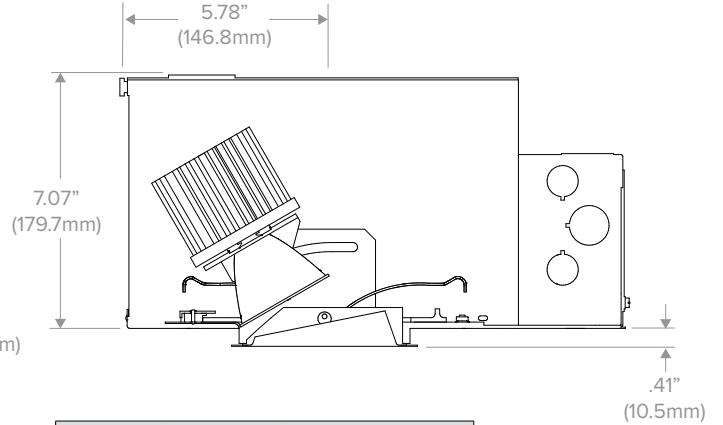LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

DIMENSIONS

14.38"
(365.4mm)

5.78"
(146.8mm)

11.72"
(297.7mm)

14.39"
(365.5mm)

7.07"
(179.7mm)

.41"
(10.5mm)

Top View

Dimensional Data		
Aperture		4.00" (101.6mm)
Flange	Standard	5.25" (133.4mm)
	Flush Mount	4.50" (114.3mm)
Ceiling Cutout	Standard	5.00" (127.0mm)
	Flush Mount	5.12" (130.0mm)
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

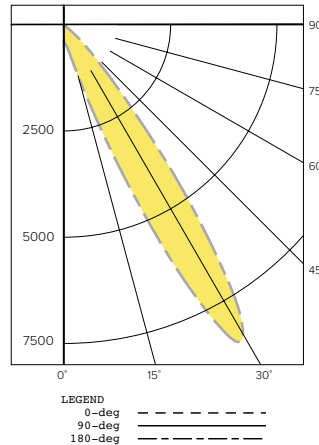### LTR-4RA-H-10L2765T9NR-DMT / LTR-4RA-T-S

LUMINAIRE DATA

Test No.	19.01187
Description	1000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1010
Watts	18.0W
Efficacy	56
Mounting	Recessed
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	894	89.0
0-60	1008	100.0
0-90	1010	100.0
0-180	1010	100.0

POLAR GRAPH

LEGEND
0–deg
90–deg
180–deg

CANDELA DISTRIBUTION

Degree	Candela
0	391
5	486
15	1192
25	6799
35	5660
45	907
55	37
65	8
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	148653
55°	7442
65°	2099
75°	428
85°	0

*Candela/Square Meter

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without notice. All values are design or typical values when measured under laboratory conditions.

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LTR-4RA SpectraSync_R03

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

LTR-4RA SpectraSync
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

PHOTOMETRY CONTINUED

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

LUMINAIRE DATA

Test No.	19.01276
Description	1500 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1455
Watts	27.0W
Efficacy	54
Mounting	Recessed
Beam Angle (FWHM)	23

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1211	83.2
0-60	1451	100.0
0-90	1455	100.0
0-180	1455	100.0

POLAR GRAPH

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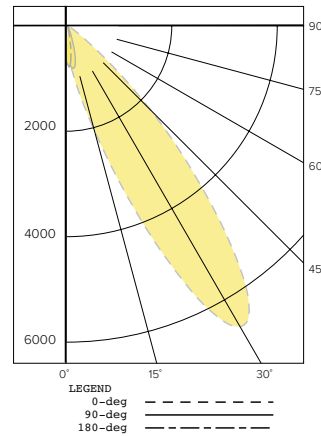
CANDELA DISTRIBUTION

Degree	Candela
0	689
5	728
15	2069
25	5272
35	5503
45	1959
55	91
65	14
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	321101
55°	18390
65°	3744
75°	340
85°	0

*Candela/Square Meter

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

LUMINAIRE DATA

Test No.	19.01277
Description	1500 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1395
Watts	27.0W
Efficacy	52
Mounting	Recessed
Beam Angle (FWHM)	35

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1090	78.1
0-60	1387	99.4
0-90	1395	100.0
0-180	1395	100.0

POLAR GRAPH

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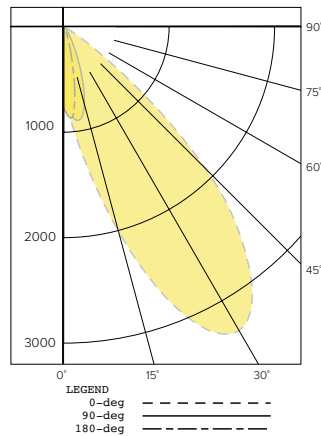
CANDELA DISTRIBUTION

Degree	Candela
0	738
5	902
15	1918
25	3008
35	2973
45	1814
55	319
65	32
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	297206
55°	64513
65°	8798
75°	342
85°	0

*Candela/Square Meter

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

LUMINAIRE DATA

Test No.	19.01223
Description	1500 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1315
Watts	22.4W
Efficacy	59
Mounting	Recessed
Beam Angle (FWHM)	49

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	326	25.0
0-60	1295	99.0
0-90	1315	100.0
0-180	1315	100.0

POLAR GRAPH

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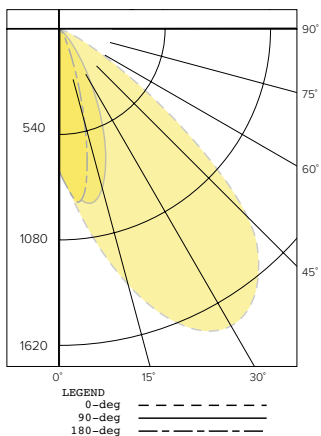
CANDELA DISTRIBUTION

Degree	Candela
0	726
5	888
15	1342
25	1625
35	1697
45	1347
55	481
65	88
75	3
85	0
90	0

LUMINANCE DATA*

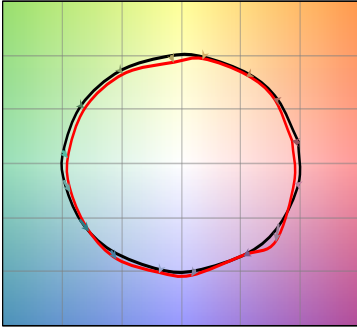| Vertical Angle	Average
45°	220750
55°	97094
65°	24092
75°	1368
85°	0

*Candela/Square Meter

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LTR-4RA SpectraSync
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING
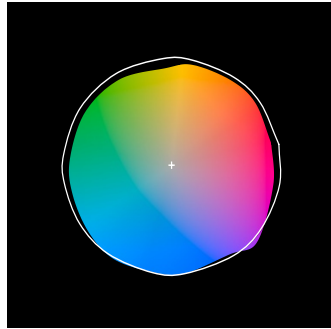
TM-30 DATA

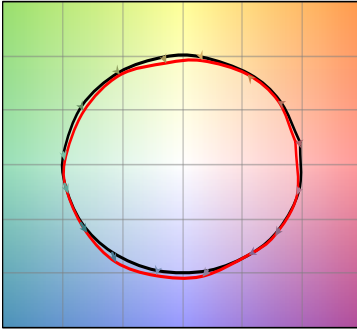### SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

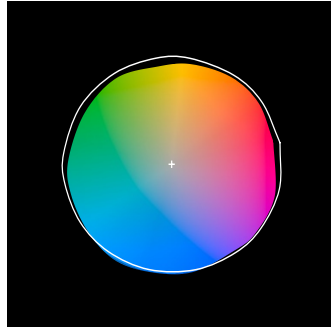—— Reference Illuminant   —— Test Source

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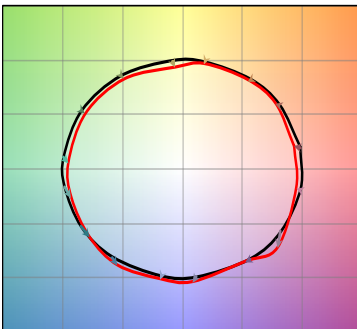**2700K, 90+ CRI**

COLOR VECTOR GRAPHIC
4600K, 90+ CRI

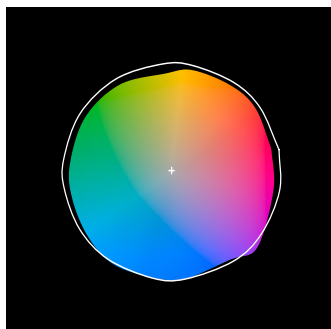—— Reference Illuminant   —— Test Source

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

Current

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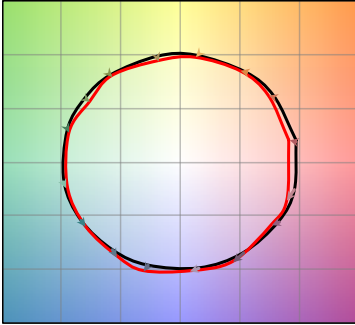| DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

LTR-4RA SpectraSync

LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING
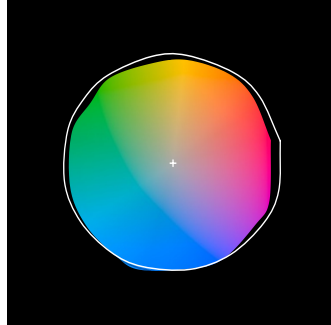
TM-30 DATA CONTINUED

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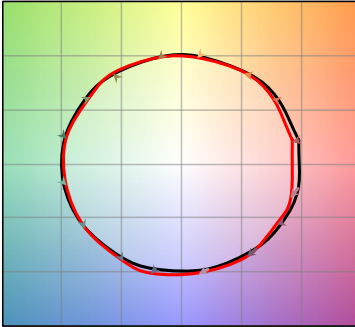
COLOR VECTOR GRAPHIC
3000K, 90+ CRI @ 100%

—— Reference Illuminant   —— Test Source

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

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

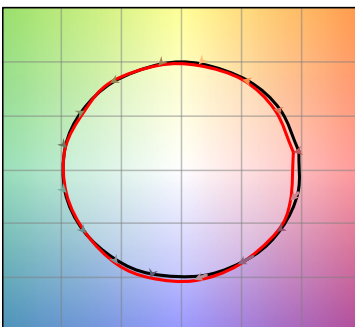**COLOR VECTOR GRAPHIC**
2600K, 90 CRI @ 50% DIM

—— Reference Illuminant   —— Test Source
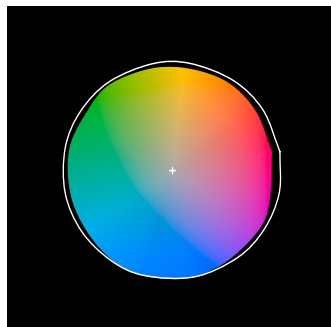
COLOR DISTORTION GRAPHIC
2600K, 90 CRI @ 50% DIM

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

—— Reference Illuminant   —— Test Source

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

LTR-4RA SpectraSync
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

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.