

# LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

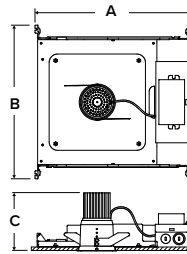
- 3" architectural LED downlight delivering 600 – 1300 lm
- Four beam distributions from 0.4 to 1.1 Spacing Criteria
- Quiet reflector appearance with 50° optical cutoff
- SpectraSync™ Color Tuning technology allows the flexibility to tailor CCT to aesthetic preferences
- Available in Dim to Warm (2200K-3000K) or Tunable White (2700K-5000K or 2700K-6500K), 90+ CRI
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- NX Lighting Controls wired and wireless controls capability available



## CONTROLS TECHNOLOGY



## LITEISTRY™



Typical Dimensions and Weights				
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 13L	14.56 (370)	14.36 (365)	5.38 (137)	7.3 (3.3)

See DIMENSIONS section for complete details

## SPECIFICATIONS

### CONSTRUCTION

- New Construction: Painted black durable steel platform with pre-installed bar hangers
- Light Engine/Trim Assembly: Die cast and spun aluminum construction
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection from driver compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

### OPTICS

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- 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

### 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 2"
- 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 fully serviceable from above or below the ceiling; driver and EMR battery pack are serviceable above ceiling only

### CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling EMR: 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	600-1300
Wattage Range	10-23
Efficacy Range (LPW)	52-59*
Reported Life (Hours)	L70 / >60,000
Input Current (mA)	83-191 (120V)

\*Based on Specular, 30K, 90 CRI

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## ORDERING GUIDE

Example: LTR-3RD-H-SL10L-DMTW-LTR-3RD-T-SL2230TD9MD-S

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

### HOUSING

LTR-3RD-H		Lumen Package		Lumen Output		Driver Options		Control Options		Voltage	Housing Options	
Aperture/Shape/Function		Lumen Package		Lumen Output		Driver Options		Control Options		Voltage	Housing Options	
LTR-3RD-H	3" Round Downlight New Construction Housing	SL	Standard Lumen	06L	600	DMTW	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% <sup>1</sup>	NX Lighting Controls	NXW NX Networked Wireless Radio Module NXR2 and Bluetooth Programming, without Sensor	Standard 120-277V	CP	Chicago Plenum <sup>6,7,8</sup>
				10L	1000	DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% <sup>2</sup>	Networked Wireless			IC	IC rated <sup>6,7,8</sup>
				13L	1300			Networked Wired			EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light <sup>6,8</sup>
								NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor		F	Fuse <sup>6</sup>
											BAA	Buy American Act (FAR 52.225-9) Compliant
											TAA	Trade Agreements Act (FAR 52.225-11) Compliant

### TRIM

LTR-3RD-T		Lumen Package		CCT	CRI	Distribution	
Aperture/Shape/Function		Lumen Package		CCT	CRI	Distribution	
LTR-3RD-T	3" Round Downlight Light Engine/Trim Assembly	SL	Standard Lumen	2230TD	2200K-3000K SpectraSync™ Dim to Warm	9	90+CRI
				2750T	2700K-5000K SpectraSync™ Tunable White	NR	Narrow (0.4 SC/29°)
				2765T	2700K-6500K SpectraSync™ Tunable White	MD	Medium (0.7 SC/53°)
						WD	Wide (0.9 SC/59°)
						XW	Extra Wide (1.1 SC/66°)

### TRIM CONTINUED

Reflector Finish	Reflector Color	Flange Color Options	Reflector Options
<i>Finish not applicable with painted reflectors (WC or BC)</i>	<i>Standard Clear</i>	<i>Standard matches reflector color</i>	AM Antimicrobial Coating <sup>3</sup>
S Specular	CG Champagne Gold	WT White Flange <sup>5</sup>	BAA Buy American Act (FAR 52.225-9) Compliant
SS Semi-Specular	BL Black	BT Black Flange <sup>5</sup>	TAA Trade Agreements Act (FAR 52.225-11) Compliant
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" Round<sup>4</sup>
- 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)
- LTR-SCA3-\_\_\_ Sloped Ceiling Adapter, 3", White<sup>9</sup>



#### Notes:

- 1 Must select 2230TD with DMTW driver.
- 2 Must select either 2750T or 2765T with DMT driver.
- 3 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 4 Flush Mount Flange requires FMR accessory (sold separately).
- 5 WT not needed for WC, BT not needed for BC.
- 6 Housing options (except Fuse, BAA/TAA) not available in combination.
- 7 IC, CP available in 06L.
- 8 Not available with Control options.
- 9 Specify slope angle 5°-35° in 5° increments. Not available with FMR accessory.

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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	✓	✓	✓	-	-	✓	✓	✓ <sup>1</sup>		NXDSP

<sup>1</sup> 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

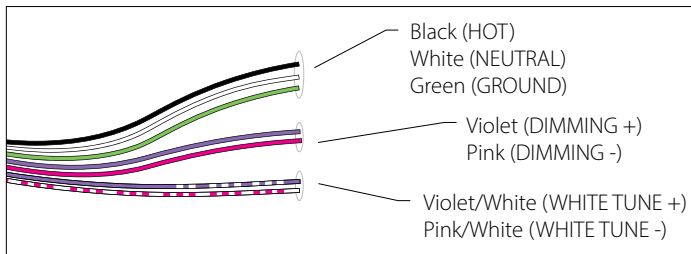
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

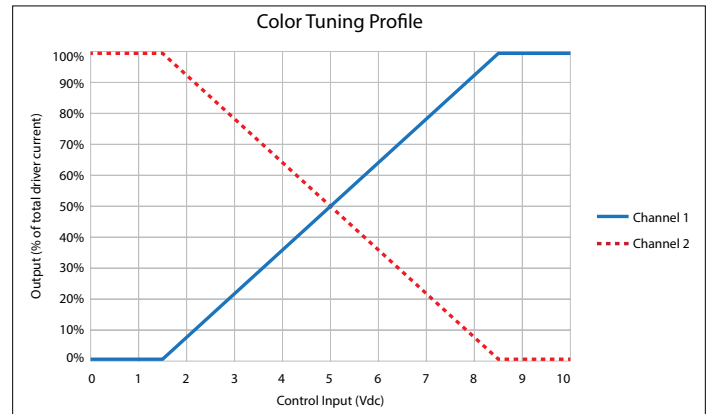


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### 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-3RD SpectraSync

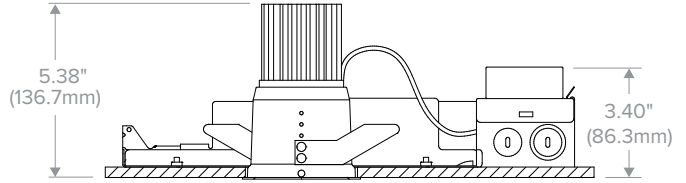
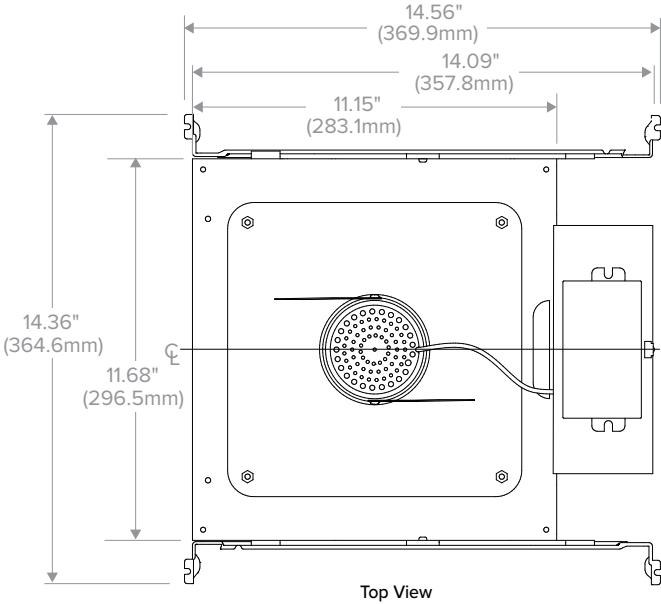
LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

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

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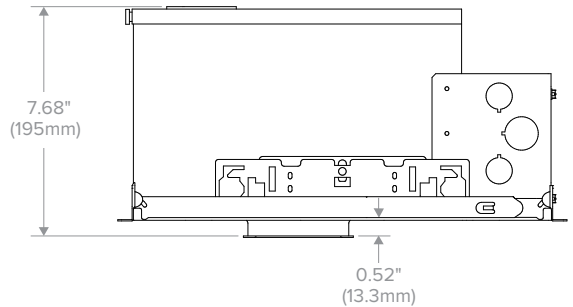
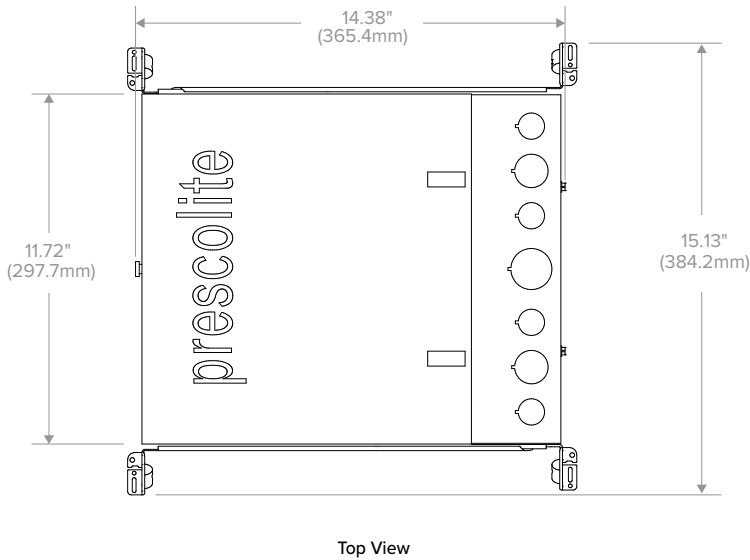
## DIMENSIONS



Dimensional Data		
Aperture		2.88" (73.2mm)
Flange: Standard & Flush Mount		3.68" (93.5mm)
Ceiling Cutout:	Standard	3.38" (85.9mm)
	Flush Mount	4.00" (101.6mm)
Ceiling Thickness:	Standard	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA	0.50" to 1.25" (12.7mm to 31.8mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

### LTR-3RD-H New Construction



Dimensional Data		
Aperture		2.88" (73.2mm)
Flange: Standard & Flush Mount		3.68" (93.5mm)
Ceiling Cutout:	Standard	3.38" (85.9mm)
	Flush Mount	4.00" (101.6mm)
Ceiling Thickness:	Standard	0.50" to 2.00" (12.7mm to 50.8mm)
	With SCA	0.50" to 1.25" (12.7mm to 31.8mm)

SCA Sloped Ceiling Adapter accessory available, see LTR-SCA specification sheet and installation instructions for dimensional data and other details.

### LTR-3RD-H IC/CP

# LTR-3RD SpectraSync

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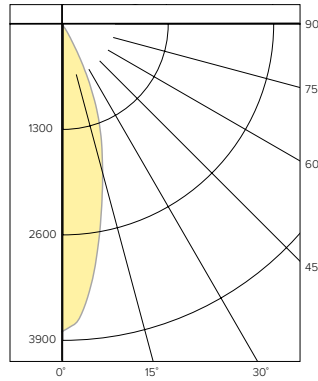
## PHOTOMETRY

### LTR-3RD-H-SL13L-DMTW / LTR-3RD-T-SL2230TD9NRS

#### LUMINAIRE DATA

Test No.	19.01976
Description	1300 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1367
Watts	23.3W
Efficacy	58.6
Mounting	Recessed
Spacing Criterion	0.5
Beam Angle (FWHM)	29

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	3798
5	3554
15	1970
25	855
35	148
45	20
55	2
65	1
75	0
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	6637
55°	818
65°	555
75°	0
85°	0

\*Candela/Square Meter

#### ZONAL LUMEN SUMMARY

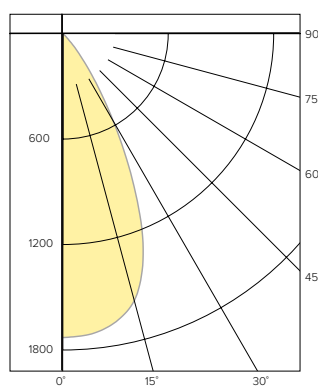
Zone	Lumens	% Luminaire
0-40	1345	98.4
0-60	1366	99.9
0-90	1367	100.0
0-180	1367	100.0

### LTR-3RD-H-SL13L-DMTW / LTR-3RD-T-SL2230TD9MDS

#### LUMINAIRE DATA

Test No.	19.01975
Description	1300 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1254
Watts	23.3W
Efficacy	53.8
Mounting	Recessed
Spacing Criterion	0.8
Beam Angle (FWHM)	44

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	1730
5	1719
15	1573
25	961
35	291
45	30
55	2
65	1
75	0
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	9956
55°	818
65°	555
75°	0
85°	0

\*Candela/Square Meter

#### ZONAL LUMEN SUMMARY

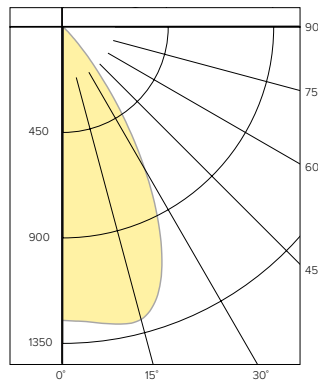
Zone	Lumens	% Luminaire
0-40	1220	97.2
0-60	1253	99.9
0-90	1254	100.0
0-180	1254	100.0

### LTR-3RD-H-SL13L-DMTW / LTR-3RD-T-SL2230TD9WDS

#### LUMINAIRE DATA

Test No.	19.01974
Description	1300 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1218
Watts	23.3W
Efficacy	52.2
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	61

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	1252
5	1263
15	1291
25	982
35	401
45	39
55	3
65	1
75	0
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	12943
55°	1227
65°	555
75°	0
85°	0

\*Candela/Square Meter

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1173	96.3
0-60	1217	99.9
0-90	1218	100.0
0-180	1218	100.0

# LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

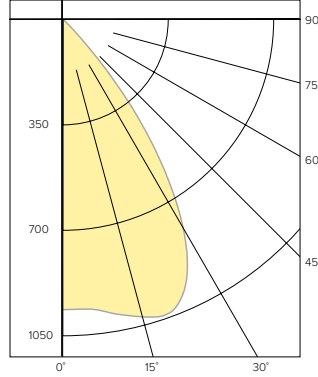
## PHOTOMETRY CONTINUED

### LTR-3RD-H-SL13L-DMTW / LTR-3RD-T-SL2230TD9XWS

#### LUMINAIRE DATA

Test No.	19.01973
Description	1300 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1210
Watts	23.4W
Efficacy	51.8
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	78

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	963
5	965
15	1022
25	965
35	544
45	43
55	3
65	1
75	0
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	14270
55°	1227
65°	555
75°	0
85°	0

\*Candela/Square Meter

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1149	94.9
0-60	1209	99.9
0-90	1210	100.0
0-180	1210	100.0

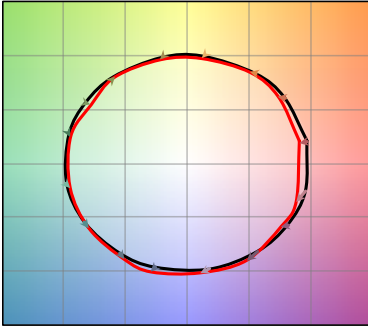
# LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

## TM-30 DATA

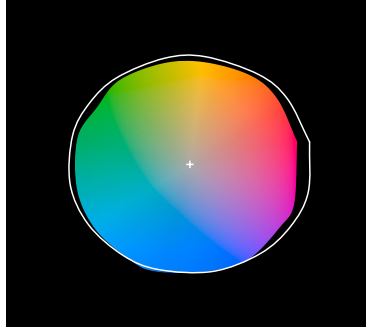
### SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC  
2700K, 90+ CRI

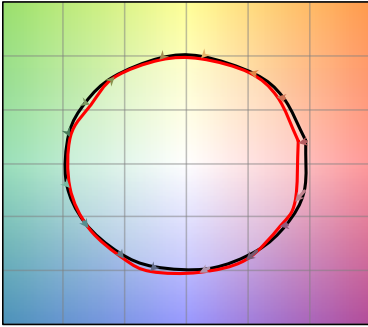


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
2700K, 90+ CRI

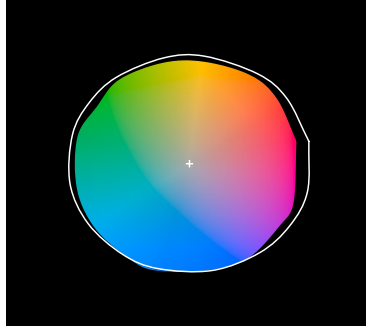


COLOR VECTOR GRAPHIC  
4600K, 90+ CRI

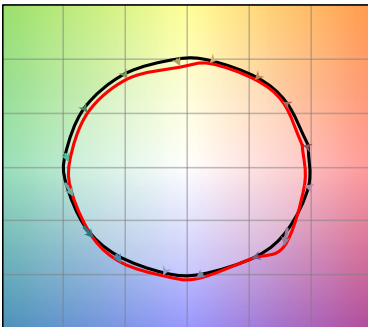


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
4600K, 90+ CRI

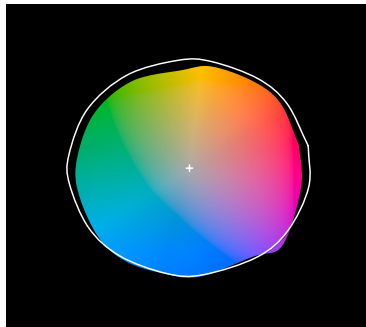


COLOR VECTOR GRAPHIC  
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
6500K, 90+ CRI



TEST RESULTS - TUNABLE WHITE @ 1300 LUMENS (NOMINAL)			
Value	2700K	4600K	6500K
Luminous Flux (lm)	1063	1231	1270
Wattage (W)	23.1	23.0	23.0
Efficacy (lm/W)	46	54	55
R <sub>f</sub>	89	89	88
R <sub>g</sub>	97	98	97
CCT (K)	2875	4615	6504
D <sub>UV</sub>	-0.0021	-0.0057	0.0011
x	0.4427	0.355	0.3135
y	0.4013	0.3486	0.3262
CIE R <sub>a</sub>	90	95	94
CIE R <sub>g</sub>	44	82	72



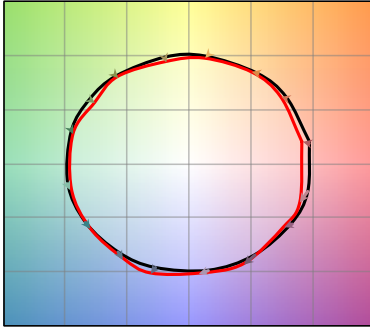
# LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

## TM-30 DATA CONTINUED

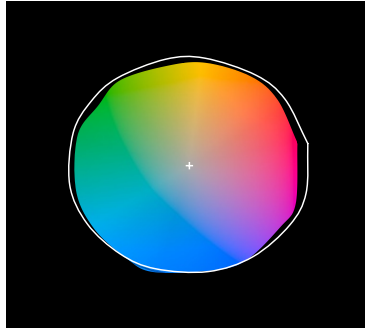
### SPECTRASYNCTM DIM TO WARM (2230TD)

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

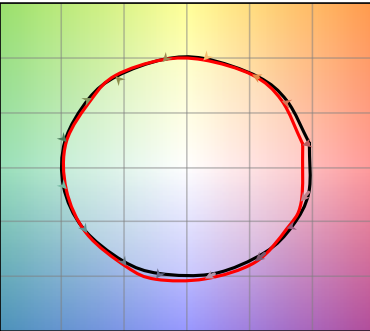


— Reference Illuminant — Test Source

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

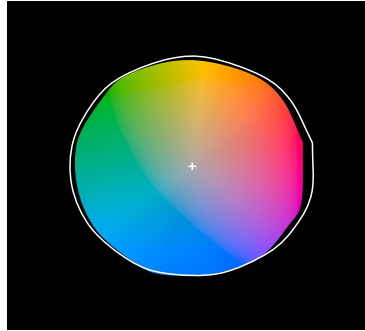


**COLOR VECTOR GRAPHIC**  
2600K, 90 CRI @ 50% DIM

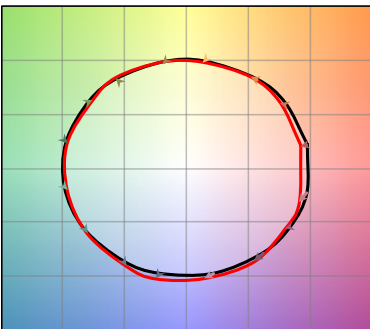


— Reference Illuminant — Test Source

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

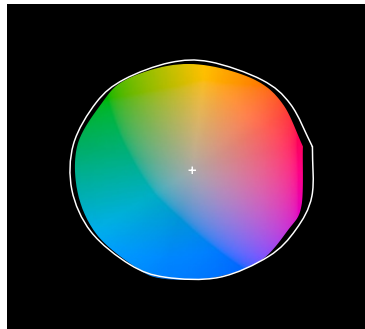


**COLOR VECTOR GRAPHIC**  
2200K, 90 CRI @ 5% DIM



— 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)	1198	662	52
Wattage (W)	23.07	12.14	2.43
Efficacy (lm/W)	52	55	21
R <sub>t</sub>	89	91	91
R <sub>g</sub>	97	99	99
CCT (K)	3212	2642	2210
D <sub>uv</sub>	-0.0019	-0.0020	-0.0008
x	0.4201	0.4609	0.5035
y	0.3936	0.4058	0.4145
CIE R <sub>a</sub>	91	93	92
CIE R <sub>g</sub>	49	59	58

# LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

## 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](http://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.