

LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

LITEISTRY™

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 Distributed Intelligence™ wired and wireless controls capability available



RELATED PRODUCTS

Ø 3" LITEISTRY Family

Ø 4" LITEISTRY Family

Ø 6" LITEISTRY Family



See Certification Specifications

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

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

OPTICS

- Visually pleasing 50° cutoff to source and source image
- Optical grade silicone lens integral to light engine
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- 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 (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 Distributed Intelligence or Lutron Vive control options available
- Emergency Battery Pack option available with remote test switch and indicator light
- Refer to additional spec sheets for information on standard LITEISTRY or PowerHUBB™ PoE enabled solutions

INSTALLATION

- Accommodates ceiling thickness up to 2"
- Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" 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
- 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	600-1300
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



LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

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% ¹	NXE	NX Enabled, Dual SmartPorts	Standard 120-277V	CP	Chicago Plenum ^{7,8,9}		
				10L	1000	DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% ²	NXWE	NX Wireless Enabled			IC	IC rated ^{7,8,9}	
				13L	1300			NXWD	NX Wireless Enabled, Dual SmartPorts				EMR	Emergency Battery Pack with remote test switch and indicator light ^{7,9}
								LV	Lutron Vive Enabled, 0-10V ⁶		F	Fuse ⁷		

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	NR	Narrow (0.4 SC/29°)
				2750T	2700K-5000K SpectraSync™ Tunable White			MD	Medium (0.7 SC/53°)
				2765T	2700K-6500K SpectraSync™ Tunable White			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>		Standard Clear		<i>Standard matches reflector color</i>		AM Antimicrobial Coating ³	
S	Specular	CG	Champagne Gold	WT	White Flange ⁵		
SS	Semi-Specular	BL	Black	BT	Black Flange ⁵		
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" Round⁴
- 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", White¹⁰

- 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 LV available only with DMTW driver option.
 - 7 Housing options (except Fuse) not available in combination.
 - 8 IC, CP available in 06L
 - 9 Not available with Control options.
 - 10 Specify slope angle 5°-35° in 5° increments. Not available with FMR accessory.



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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:

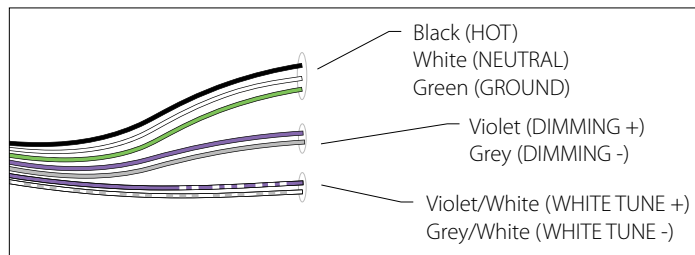
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

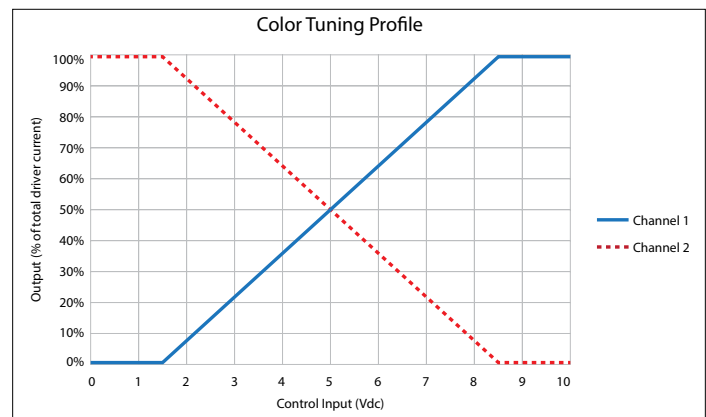


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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.

LTR-3RD SpectraSync

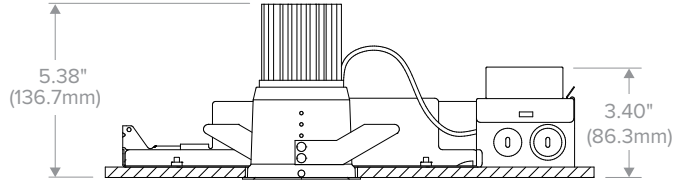
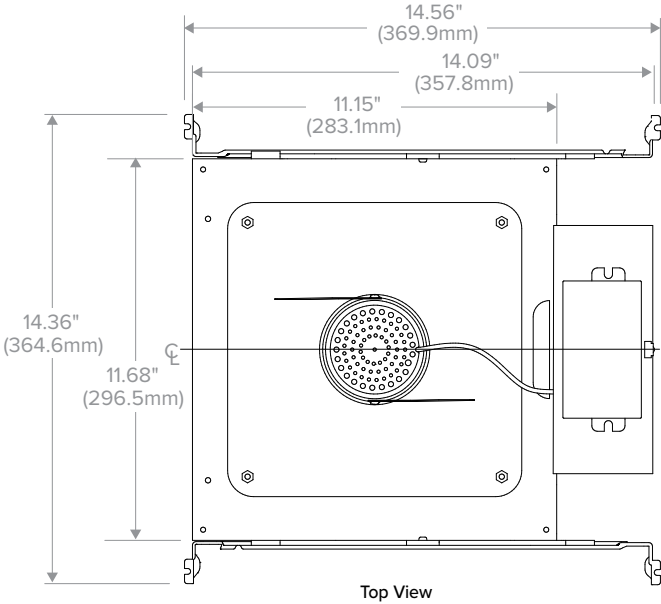
LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

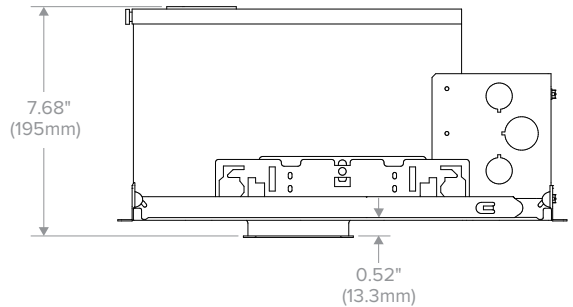
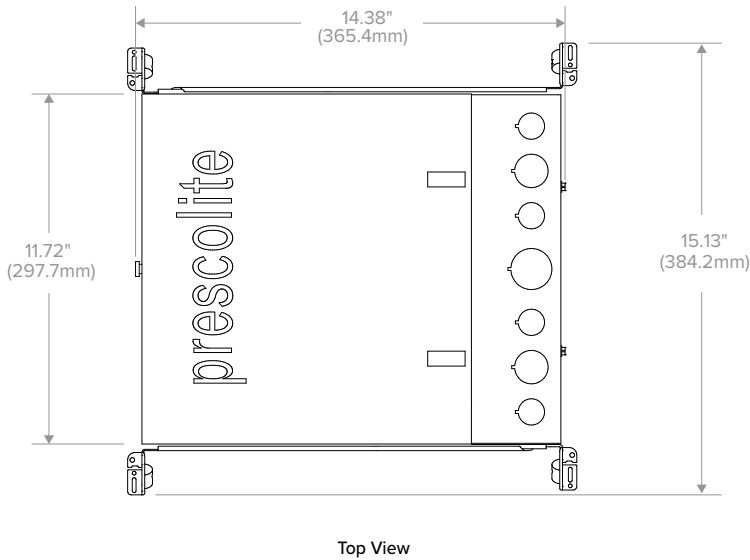
DIMENSIONS



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

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

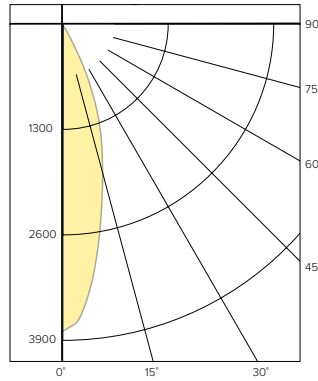
PHOTOMETRY

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

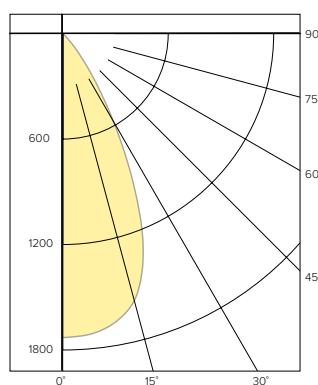
Zone	Lumens	% Luminaire
0-40	1345	98.4
0-60	1366	99.9
0-90	1367	100.0
0-180	1367	100.0

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

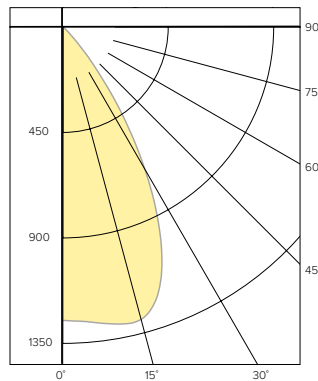
Zone	Lumens	% Luminaire
0-40	1220	97.2
0-60	1253	99.9
0-90	1254	100.0
0-180	1254	100.0

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

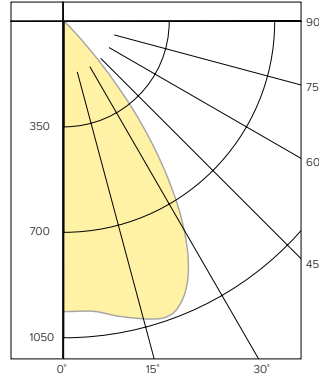
LUMINAIRE DATA

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

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

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

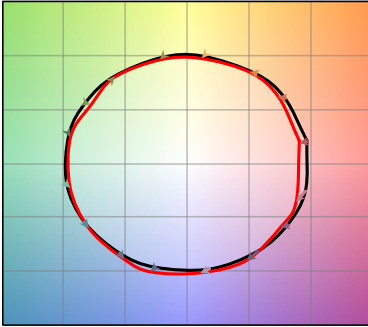
LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

TM-30 DATA

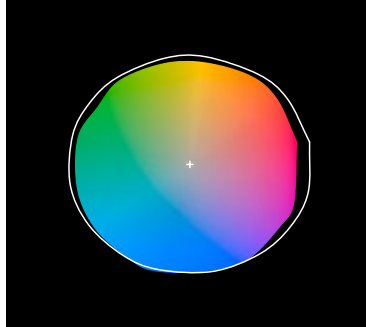
SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

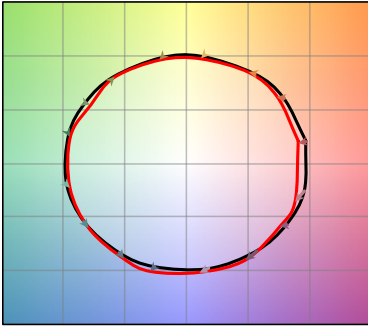


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI

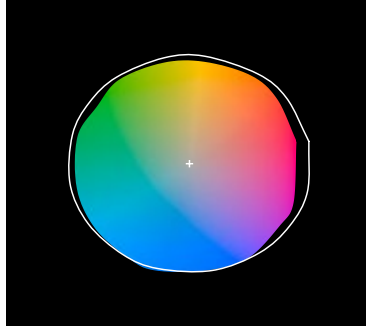


COLOR VECTOR GRAPHIC
4600K, 90+ CRI

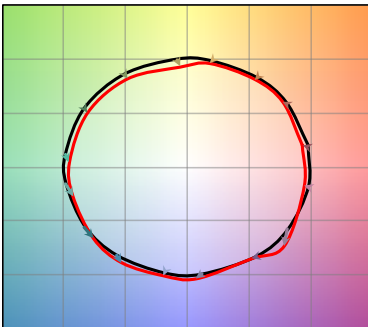


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

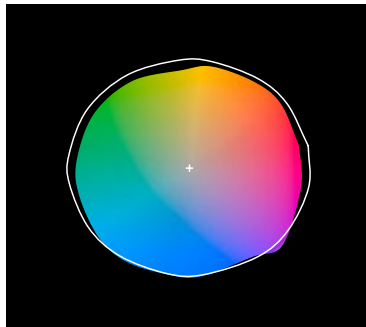


COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— 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 _f	89	89	88
R _g	97	98	97
CCT (K)	2875	4615	6504
D _{UV}	-0.0021	-0.0057	0.0011
x	0.4427	0.355	0.3135
y	0.4013	0.3486	0.3262
CIE R _a	90	95	94
CIE R _g	44	82	72

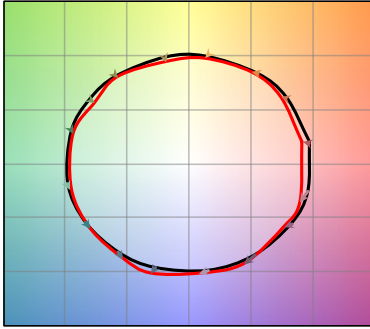
LTR-3RD SpectraSync

LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

TM-30 DATA CONTINUED

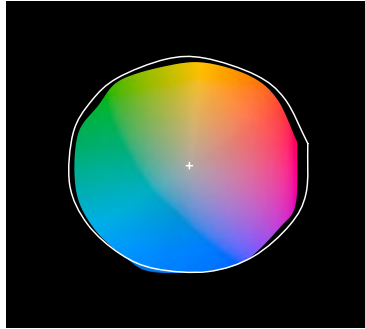
SPECTRASYNCTM DIM TO WARM (2230TD)

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

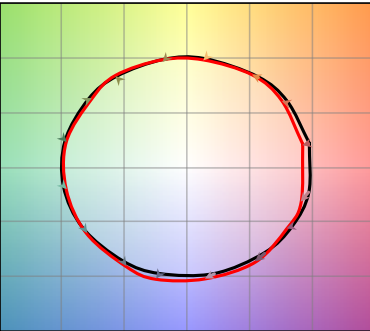


— Reference Illuminant — Test Source

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

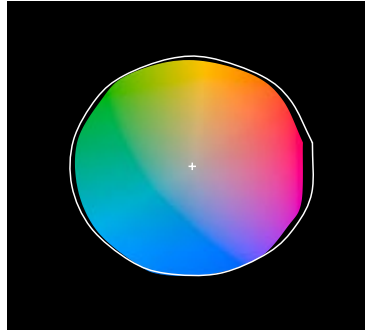


COLOR VECTOR GRAPHIC
2600K, 90 CRI @ 50% DIM

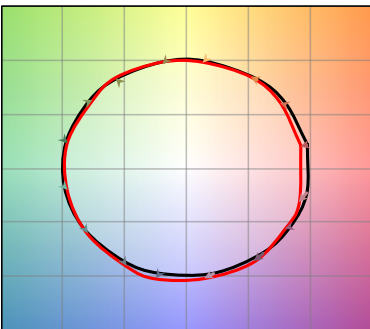


— Reference Illuminant — Test Source

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 _t	89	91	91
R _g	97	99	99
CCT (K)	3212	2642	2210
D _{uv}	-0.0019	-0.0020	-0.0008
x	0.4201	0.4609	0.5035
y	0.3936	0.4058	0.4145
CIE R _a	91	93	92
CIE R _g	49	59	58



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LITEISTRY 3" ROUND DOWNLIGHT WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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

WATTAGE DATA		
Lumen Output	Nominal Lumens	Wattage
06L	600	10
10L	1000	18
13L	1300	23

* 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