

LTR-4RD-RFH SpectraSync

LITEISTRY 4" ROUND DOWNLIGHT WITH COLOR TUNING

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

LITEISTRY

FEATURES

- 4" architectural LED downlight delivering 600 1500 lm
- Four beam distributions from 0.4 to 1.2 Spacing Criteria
- Quiet reflector appearance with superior 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 Retrofit (non-IC) applications
- Standard with 0-10V dimming to 5%









CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- · Die cast aluminum mounting ring with 5 axis adjustable junction box
- · Retrofit housing allows below ceiling installation without removing the existing fixture
- 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
- · 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%
- Refer to additional spec sheets for information on standard LITEISTRY solutions

INSTALLATION

- · Accommodates ceiling thickness up to 2"
- · Light Engine/Driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- · cCSAus certified to UL 1598
- · Suitable for wet locations, covered ceiling
- · 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.

WARRANTY

5 year warranty

KEY DATA						
Lumen Range	600-1500					
Wattage Range	10-25					
Efficacy Range (LPW)	52-64*					
Reported Life (Hours)	L70 / >60,000					
Input Current (mA)	83-208 (120V)					

*Based on Specular, 30K, 90 CRI





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Example: LTR-4RD-RFH-SL10L-DMTW-LTR-4RD-T-SL2230TD9MD-S

CATALOG #

HOUSING

LTR-4RD-RFH		_[_					
Aperture/Shape/I	Function		Lum	en Package	Lume	n Output		Driver O	ptions	Voltage	Housin	g Options
LTR-4RD-RFH	4" Round Downlight		SL	Standard Lumen	06L 10L	600 1000		DMTW	SpectraSync™ Dim to Warm, 0-10V Dimming	Standard 120-277V	F	Fuse
	Retrofit Housing ⁵		ML	Medium Lumen	15L	1500			to 5% ¹			
LTR-4RD-RFHW	4" Round Downlight Retrofit Housing (for Wide Diameter) ⁵							DMT	SpectraSync™ Tunable White, 0-10V Dimming to 5% ²			

TRIM

LTR-4RD-T		_							
Aperture/Sh	ape/Function	Lum	nen Package	ССТ		CR		Distri	bution
LTR-4RD-T	4" Round Downlight Light Engine/Trim Assembly	SL ML	Standard Lumen Medium Lumen	2230TD 2750T 2765T	2200K-3000K SpectraSync [™] Dim to Warm 2700K-5000K SpectraSync [™] Tunable White 2700K-6500K SpectraSync [™] Tunable White	9	90+CRI	NR MD WD XW	Narrow (0.4 SC/29°) Medium (0.7 SC/44°) Wide (0.9 SC/61°) Extra Wide (1.2 SC/78°)

TRIM CONTINUED

									-
Reflec	tor Finish	Reflec	tor Color	Flange	Color Options	Lowe	er Trim Options	Refle	ector Options
	sh not applicable with ed reflectors (WC or BC)		Standard Clear	Stand	ard matches reflector color	WF	Wide Flange	АМ	Antimicrobial Coating 4
,	,	CG	Champagne Gold	WT	White Flange ³				
S	Specular	BL	Black	вт	Black Flange ³				
SS	Semi-Specular	LW	Light Wheat		Black Flange				
MFC	American Matte™		ğ ,						
VS	Softglow®	PW	Pewter						
	· ·	WC	Painted White Cone and Flange						
VSS	SoftSheen™	вс	Painted Black Cone and Flange						

Accessories LiteGear LiteGear® Inverter, 125VA-250VA LightPower Micro-Inverter, 20VA-55VA LPS Series Metal Oversized Ring, 4" Round, White (8.25" outside diameter) MOR4-R-WH MOR4-R-BL Metal Oversized Ring, 4" Round, Black (8.25" outside diameter)

Notes:

- Must select 2230TD with DMTW driver.
- Must select either 2750T or 2765T with DMT driver.
- WT not needed for WC, BT not needed for BC.
- AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- See line art for compatibility with existing aperture diameters.





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CONTROLS

SpectraSync™ Color Tuning Technology:

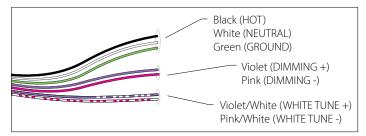
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



	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.

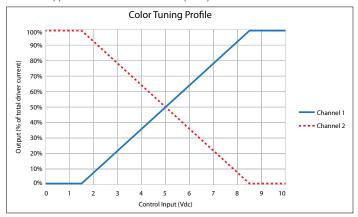


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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

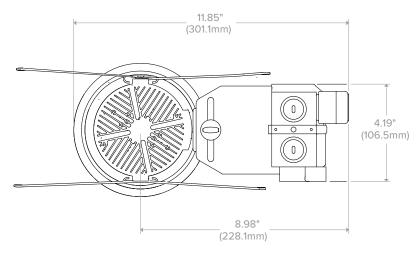




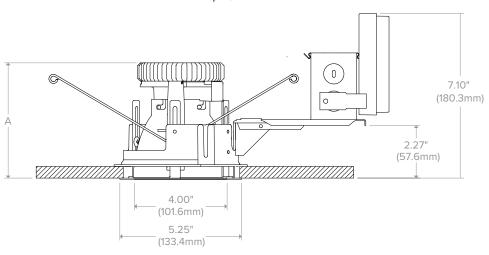
DATE: LOCATION: TYPE: PROJECT:

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DIMENSIONS



Top View



Housing Compatibility Guide								
Existing Fram	ne Opening**	Use	Use Flange					
MIN	MAX	Housing	Option					
4.75" (120.7mm)	75" (120.7mm) 5.00" (127.0mm)		(Standard)					
5.00" (127.0mm)	5.50" (139.7mm)	-RFHW	WF					

	Dimensional Data							
A	oerture	4.00" (101.6mm)						
Біллен	Standard	5.25" (133.4mm)						
Flange:	Wide (WF)	5.75" (146.1mm)						
Ceiling Cutout:	Standard	5.00" (127.0mm)						
Ceiling	Thickness:	0.50" to 2.00" (12.7mm to 50.8mm)						

Lumen Package	"A"
06L-10L	4.97" (126.2mm)
15L	7.33" (186.2mm)

LTR-4RD-RFH/-RFHW





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PHOTOMETRY

LTR-4RD-RFH-ML15L-DMTW / LTR-4RD-T-ML2230TD9NRS

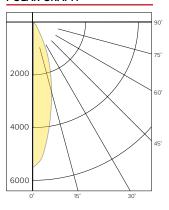
LUMINAIRE DATA

Test No.	R19.01948-C01
Description	1500 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	1608
Watts	25.0W
Efficacy	64.0
Mounting	Pendant
Spacing Criterion	0.5
Beam Angle (FWHM)	29

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2208	98.6
0-60	2237	99.9
0-90	1608	100.0
0-180	1608	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	5179
5	4571
15	2396
25	920
35	163
45	16
55	1
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	2823
55°	316
65°	215
75°	0
85°	0

*Candela/Square Meter

LTR-4RD-RFH-ML15L-DMTW / LTR-4RD-T-ML2230TD9MDS

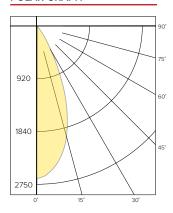
LUMINAIRE DATA

Test No.	R19.01974-C01
Description	1500 lm, Medium, 3000K, 90 CRI
Delivered Lumens	1477
Watts	25.0W
Efficacy	59.0
Mounting	Pendant
Spacing Criterion	0.7
Beam Angle (FWHM)	44

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1449	98.1
0-60	1476	99.9
0-90	1477	100.0
0-180	1477	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2654
5	2561
15	2081
25	1035
35	258
45	25
55	2
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	4363
55°	475
65°	215
75°	0
85°	0

*Candela/Square Meter

LTR-4RD-RFH-ML15L-DMTW / LTR-4RD-T-ML2230TD9WDS

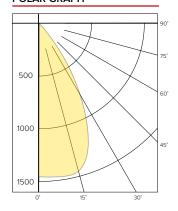
LUMINAIRE DATA

Test No.	R19.01946-C01
Description	1500 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1321
Watts	25.0W
Efficacy	53.0
Mounting	Pendant
Spacing Criterion	1.0
Beam Angle (FWHM)	61

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1275	96.5
0-60	1320	99.9
0-90	1321	100.0
0-180	1321	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1405
5	1412
15	1409
25	1052
35	445
45	40
55	3
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6926
55°	633
65°	429
75°	0
85°	0

*Candela/Square Meter



DATE:	LOCATION:
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PHOTOMETRY CONTINUED

LTR-4RD-RFH-ML15L-DMTW / LTR-4RD-T-ML2230TD9XWS

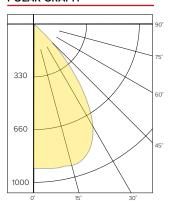
LUMINAIRE DATA

Test No.	R19.01945-C01
Description	1500 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1303
Watts	25.0W
Efficacy	52.0
Mounting	Pendant
Spacing Criterion	1.2
Beam Angle (FWHM)	78

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1160	89.0
0-60	1301	99.9
0-90	1303	100.0
0-180	1303	100.0

POLAR GRAPH



CATALOG #:

CANDELA DISTRIBUTION

Degree	Candela
0	809
5	822
15	905
25	943
35	647
45	155
55	4
65	1
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	26926
55°	790
65°	429
75°	350
85°	0

*Candela/Square Meter



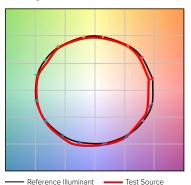
CATALOG #:

DATE:	LOCATION:
TYPE:	PROJECT:

TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI

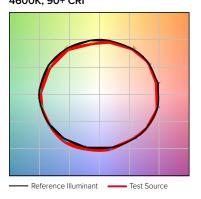


COLOR DISTORTION GRAPHIC 2700K, 90+ CRI

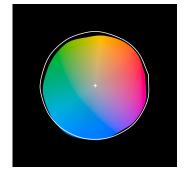


TEST RESULTS - TUNABLE WHITE @ 1500 LUMENS (NOMINAL) 2700K 4600K 6500K Value Luminous Flux (Im) 1407 1604 1660 Wattage (W) 23.9 24.3 24.6 Efficacy (Im/W) 59 66 68 90 89 87 97 98 96 R_{α} CCT (K) 2817 4588 6518 $\mathsf{D}_{\underline{\mathsf{u}}\underline{\mathsf{v}}}$ -0.0013 -0.0040 0.0018 0.4482 0.3565 0.3131 0.4047 0.3531 0.3273 У 91 95 94 CIE R CIE R 47 76

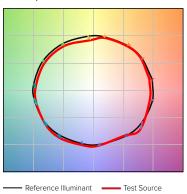
COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI



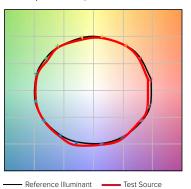


DATE:	LOCATION:
TYPE:	PROJECT:

TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

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



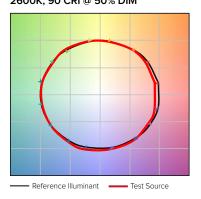
COLOR DISTORTION GRAPHIC 3000K, 90+ CRI @ 100%

CATALOG #:

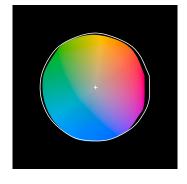


TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS 100% 50% Dim 5% Dim Value Luminous Flux (Im) 1501 772 53 Wattage (W) 24.3 14 3.4 Efficacy (Im/W) 62 55 16 90 92 91 97 99 102 R_{q} CCT (K) 3123 2590 2282 $\mathsf{D}_{\underline{\mathsf{u}}\underline{\mathsf{v}}}$ -0.0017 -0.0015 -0.0029 0.4261 0.4662 0.4907 0.3965 0.4082 0.4068 У 92 93 93 CIE R CIE R 53 60 64

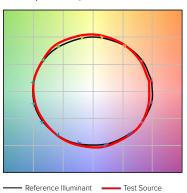
COLOR VECTOR GRAPHIC 2600K, 90 CRI @ 50% DIM



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



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



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





CATALOG #:

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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.com 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.

