

DATE:	LOCATION:
TYPE:	PROJECT:

LITEISTRY

FEATURES

- 6" architectural LED downlight delivering 600 2500 lm
- Four beam distributions from 0.3 to 1.1 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

CATALOG #:

- · 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 and driver serviceable from above or below 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	600-2500						
Wattage Range	10-38						
Efficacy Range (LPW)	55-61*						
Reported Life (Hours)	L70 / >60,000						
Input Current (mA)	83-317 (120V)						

*Based on Specular, 30K, 90 CRI





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Example: LTR-6RD-RFH-SL10L-DMTW-LTR-6RD-T-SL2230TD9MD-S CATALOG #

HOUSING

LTR-6RD-RFH	ł	_					_						
Aperture/Shape	e/Function		Lum	en Package	Lume	n Output		Driver O	ptions	Voltage	Hou	sing Options	
LTR-6RD-RFH	6" Round		SL	Standard	06L	600		DMTW	SpectraSync™ Dim to	Standard	F	Fuse	
	Downlight Retrofit			Lumen	10L	1000			Warm, 0-10V Dimming to 5% ¹	120-277V			
	Housing ⁵		ML	Medium	15L	1500		DIAT					
				Lumen	20L	2000		DMT	SpectraSync™ Tunable White, 0-10V Dimming				
LTR-6RD- RFHW	6" Round Downlight Retrofit Housing (for Wide Diameter) ⁵		HL	High Lumen	25L	2500			to 5% ²				

TRIM

LTR-6RD-T		_							
Aperture/Sha	ape/Function		Lum	nen Package	ССТ		CRI	Distri	bution
LTR-6RD-T	6" Round Downlight Light	1 1	SL	Standard Lumen	2230TD	2200K-3000K SpectraSync™ Dim to Warm	9 90+CRI	NR	Narrow (0.3 SC/18°)
	Engine/Trim Assembly		ML	Medium Lumen	2750T	2700K-5000K SpectraSync ™ Tunable White		MD	Medium (0.6 SC/37°)
			HL	High Lumen	2765T	2700K-6500K SpectraSync™ Tunable White		WD	Wide (0.9 SC/59°)
								xw	Extra Wide (1.1 SC/76°)

TRIM CONTINUED

										-
Reflec	tor Finish	Reflector Color		Flange	Flange Color Options		Lower Trim Options		ctor Options	
	sh not applicable with ed reflectors (WC or BC)		Standard Clear	Stande	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 Flarige					
MFC	American Matte™	PW	Pewter							
VS	Softglow®	WC	Painted White Cone and Flange							
VSS	SoftSheen™	вс	Painted Black Cone and Flange							

Accessories	
LiteGear	LiteGear® Inverter, 125VA-250VA
LPS Series	LightPower Micro-Inverter, 20VA-55VA
MOR6-R-WH	Metal Oversized Ring, 6" Round, White (10" outside diameter)
MOR6-R-BL	Metal Oversized Ring, 6" Round, Black (10" 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:

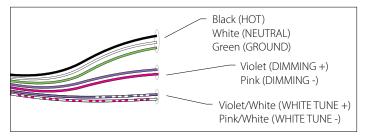
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



	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.

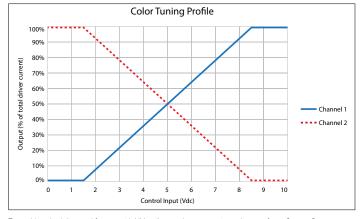


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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



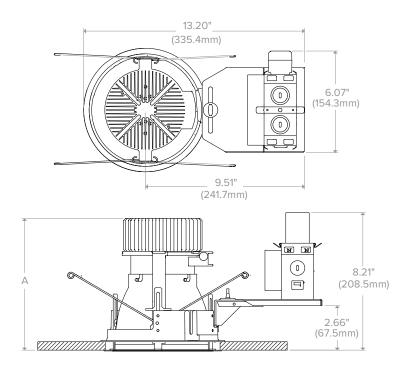


DATE: LOCATION:

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DIMENSIONS



Housing Compatibility Guide								
Existing Fram	ne Opening**	Use	Use Flange					
MIN	MAX	Housing	Option					
6.25" (156.3mm)	6.50" (165.1mm)	-RFH	(Standard)					
6.63" (168.4mm)	6.88" (172.0mm)	-RFHW	WF					

	Dimensional Data							
A	oerture	5.75" (146.1mm)						
	Standard	7.00" (177.8mm)						
Flange:	Wide (WF)	7.75" (196.9mm)						
Ceiling Cutout:	Standard	6.50" (165.1mm)						
Ceiling	Thickness:	0.50" to 2.00" (12.7mm to 50.8mm)						

"A"
5.90" (149.9mm)
7.86" (199.6mm)
9.04" (229.6mm)

LTR-6RD-RFH/-RFHW



LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

LTR-6RD-RFH-ML20L-DMT / LTR-6RD-T-ML2765T9NRS

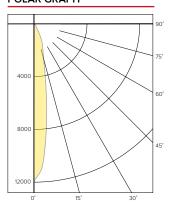
LUMINAIRE DATA

Test No.	R19.02201-C02
Description	2000 lm, Narrow, 3000K, 90 CRI
Delivered Lumens	2146
Watts	35.2W
Efficacy	61.0
Mounting	Recessed
Spacing Criterion	0.4
Beam Angle (FWHM)	18

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2083	97.1
0-60	2146	100.0
0-90	2146	100.0
0-180	2146	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	7976
5	6898
15	2784
25	1179
35	263
45	72
55	0
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6072
55°	0
65°	0
75°	0
85°	0

*Candela/Square Meter

LTR-6RD-RFH-ML20L-DMT / LTR-6RD-T-ML2765T9MDS

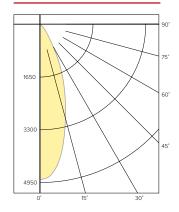
LUMINAIRE DATA

Test No.	R19.02200-C02
Description	2000 lm, Medium, 3000K, 90 CRI
Delivered Lumens	2077
Watts	35.4W
Efficacy	59.0
Mounting	Recessed
Spacing Criterion	0.6
Beam Angle (FWHM)	37

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1992	95.9
0-60	2074	99.9
0-90	2077	100.0
0-180	2077	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4221
5	4036
15	2741
25	1362
35	369
45	91
55	6
65	2
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	7675
55°	624
65°	282
75°	230
85°	0

*Candela/Square Meter

LTR-6RD-RFH-ML20L-DMT / LTR-6RD-T-ML2765T9WDS

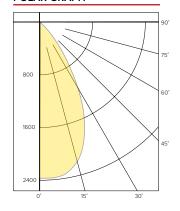
LUMINAIRE DATA

Test No.	R19.02199-C02
Description	2000 lm, Wide, 3000K, 90 CRI
Delivered Lumens	1989
Watts	35.3W
Efficacy	56.0
Mounting	Recessed
Spacing Criterion	0.9
Beam Angle (FWHM)	59

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1833	92.1
0-60	1985	99.8
0-90	1989	100.0
0-180	1989	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	2069
5	2080
15	1973
25	1454
35	677
45	168
55	10
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	14168
55°	1040
65°	423
75°	230
85°	0

*Candela/Square Meter





DATE:	LOCATION:
TYPE:	PROJECT:

PHOTOMETRY CONTINUED

LTR-6RD-RFH-ML20L-DMT / LTR-6RD-T-ML2765T9XWS

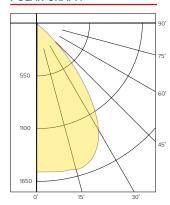
LUMINAIRE DATA

Test No.	R19.00586-C02
Description	2000 lm, Extra Wide, 3000K, 90 CRI
Delivered Lumens	1951
Watts	35.3W
Efficacy	55.0
Mounting	Recessed
Spacing Criterion	1.1
Beam Angle (FWHM)	76

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1711	87.7
0-60	1946	99.8
0-90	1951	100.0
0-180	1951	100.0

POLAR GRAPH



CATALOG #:

CANDELA DISTRIBUTION

Degree	Candela
0	1411
5	1416
15	1437
25	1333
35	919
45	275
55	8
65	3
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	23154
55°	853
65°	386
75°	210
85°	0

*Candela/Square Meter



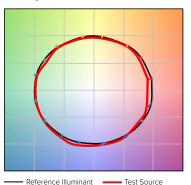


LOCATION: DATE: TYPE: PROJECT:

TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI



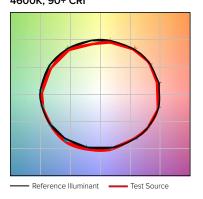
COLOR DISTORTION GRAPHIC 2700K, 90+ CRI

CATALOG #:

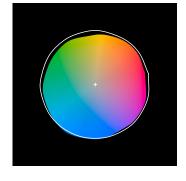


TEST RESULTS - TUNABLE WHITE @ 1500 LUMENS (NOMINAL) 2700K 4600K 6500K Value Luminous Flux (Im) 1660 1407 1604 Wattage (W) 23.9 24.3 24.6 Efficacy (Im/W) 59 66 68 90 89 87 97 98 96 R_{α} CCT (K) 2817 4588 6518 $\mathsf{D}_{\underline{\mathsf{u}}\underline{\mathsf{v}}}$ -0.0013 -0.0040 0.0018 0.4482 0.3565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

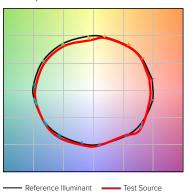
COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI





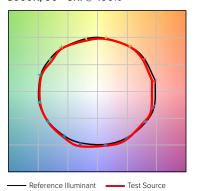
LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

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



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



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

53

TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS 100%

Value

CIE R

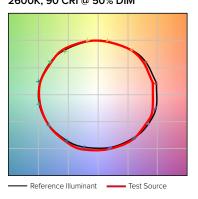
50% Dim

60

5% Dim

64

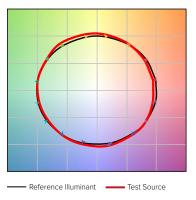
COLOR VECTOR GRAPHIC 2600K, 90 CRI @ 50% DIM



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



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



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





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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.

