

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-6RD SpectraSync

LITEISTRY 6" ROUND DOWNLIGHT WITH COLOR TUNING

FEATURES

- 6" architectural LED downlight delivering 600 3000 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 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







LITEISTRY

RELATED PRODUCTS

8 3" LITEISTRY Family

8 4" LITEISTRY Family

8 6" LITEISTRY Family

CONTROL TECHNOLOGY





SPECIFICATIONS

CONSTRUCTION

- New Construction: Painted black durable steel platform with pre-installed bar hangers
- 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, 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 an indicator light
- Integral and remote controller and battery pack options available
- Refer to additional spec sheets for information on <u>standard LITEISTRY</u> or PowerHUBB™ PoE enabled solutions

INSTALLATION

- · Accommodates ceiling thickness up to 2"
- Universal adjustable mounting brackets also accept 0.5" EMT conduit or 1.5" or 0.75" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6).
- Light Engine and driver serviceable from above or below ceiling.

CERTIFICATIONS

- · cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling EM/EMR: Suitable for damp locations
- EM/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 <u>HLI Standard Warranty</u> for additional information

KEY DATA						
Lumen Range	600-3000					
Wattage Range	10-49					
Efficacy Range (LPW)	49-60*					
Reported Life (Hours)	L70/>60,000					
Input Current (mA)	83-408 (120V)					

*Based on Specular, 30K, 90 CRI





DATE:	LOCATION:
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Example: LTR-6RD-H-SL10L-DMTW-LTR-6RD-T-SL2230TD9MD-S

0	R	D	E	R	Ī	N	G	G	U	I	D	Е

TR-6RD-H	-	-				_								
Aperture/Sha	pe/Function	Lum	en Package	Lume	n Outpu	t	Driver C	ptions	Control	Options	5	Voltage	Housi	ng Options
TR-GRD-H	6" Round Downlight New Construction Housing	ML HL	Standard Lumen Medium Lumen High Lumen	06L 10L 15L 20L 25L 30L	600 1000 1500 2000 2500 3000		DMT	SpectraSync™ Dim to Warm, 0-10V Dimming to 5% ¹ SpectraSync™ Tunable White, 0-10V Dimming to 5% ²	NXE NXWE NXWD	NX W Enabl NX W Enabl Dual S	'ireless ed, SmartPorts	Standard 120-277V		Chicago Plenum ^{7,} IC rated ^{7,8,9} Emergency Batter, Pack with integral is switch and indicate light ^{7,9} Emergency Batter, Pack with remote is switch and indicate light ^{7,9} Fuse ⁷
RIM TD CDD T]											
TR-6RD-T perture/Sha	pe/Function		Lumen P	ackage		CC.	Т				CRI	Distribu	ıtion	_
TR-6RD-T	6" Round Downligh Engine/Trim Assem	_	SL Sta	ndard Lu dium Lur gh Lumer	men	223 275 276	50T 27	00K-3000K SpectraSync 00K-5000K SpectraSync	™ Tunable	White	9 90+CRI	MD WD	Narrow (0.3 Medium (0.4 Wide (0.9 S Extra Wide	6 SC/37°) C/59°)

Reflector Finish		Reflector Color		Flange Color Options			er Trim Options	Reflector Options		
	h not applicable with d reflectors (WC or BC)		Standard Clear		ard matches reflector color	EM	Pre-punched reflector for EM integral test switch and	АМ	Antimicrobial Coating ⁴	
s	Specular	CG BL	Champagne Gold Black	WT	White Flange ³		indicator			
SS	Semi-Specular	LW	Light Wheat	BT	Black Flange ³	FM	Flush Mount Mud-in Ring ⁵			
MFC	American Matte™	PW	Pewter							
VS	Softglow®	wc	Painted White Cone and Flange							
VSS	SoftSheen™	ВС	Painted Black Cone and Flange							

Accessories		
B24	Set of two (2) 24" bar hangers for T-bar ceilings	Notes:
B6	Set of two bar hangers for ceiling joist up to 24" centers	 Must select 2230TD with DMTW driver. Must select either 2750T or 2765T with DMT driver.
FMR6-R	Flush Mount Mud-In Ring, 6" Round	 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.
LiteGear	LiteGear® Inverter, 125VA-250VA	 Flush Mount Flange (FM) requires FMR accessory (sold separately). LV available only with DMTW driver option; up to 20L.
LPS Series	LightPower Micro-Inverter, 20VA-55VA	 Housing options (except Fuse) not available in combination. IC, CP available in 06L.
MOR6-R-WH	Metal Oversized Ring, 6" Round, White (10" outside diameter)	9 Not available with Control options.
MOR6-R-BL	Metal Oversized Ring, 6" Round, Black (10" outside diameter)	10 Specify slope angle 5°-35° in 5° increments. Not available with EM or FM options.
LTR-SCA6	Sloped Ceiling Adapter, 6", White ¹⁰	



8 NX Brochure



LTR-6RD SpectraSync LITEISTRY 6" ROUND DOWNLIGHT WITH COLOR TUNING

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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 SpectraSyncTM 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	I – Wired										
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R 1			
NX Networked	I – Wireless										
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³			
NX Networked	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
- To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

SpectraSync™ Color Tuning Technology:

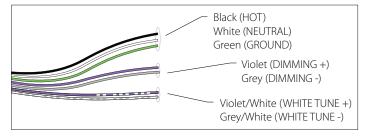
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

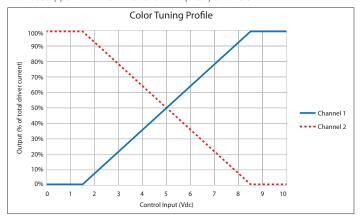


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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.





DATE:	LOCATION:
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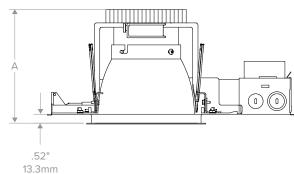
DIMENSIONS

Lumen Package	"A"
06L-10L	5.90" (149.9mm)
15L-20L	7.86" (199.6mm)
25L-30L	9.04" (229.6mm)

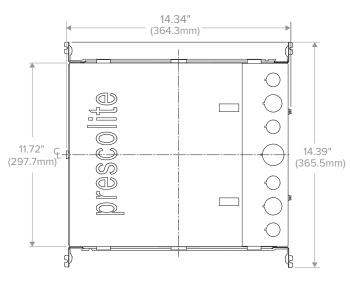
C	14.09" 357.8mm 143.1mm	
11.68" 296.5mm [©]	14.36" 364.6mm	
•		
Ć	Top View	

Dimensional Data		
Aperture		5.75" (146.1mm)
- Flancis	Standard	7.00" (177.8mm)
Flange:	Flush Mount	6.54" (166.0mm)
Ceiling	Standard	6.50" (165.1mm)
Cutout:	Flush Mount	6.75" (171.5mm)
Ceiling	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
Thickness:	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

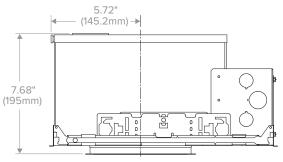
SCA Sloped Ceiling Adapter accessory available, see <u>LTR-SCA specification sheet</u> and <u>installation instructions</u> for dimensional data and other details.



LTR-6RD-H New Construction



LTR-6RD-IC



Dimensional Data		
Aperture		5.75" (146.1mm)
	Standard	7.00" (177.8mm)
Flange:	Flush Mount	6.54" (166.0mm)
Ceiling	Standard	6.50" (165.1mm)
Cutout:	Flush Mount	6.75" (171.5mm)
Ceiling	Standard or w/SCA 5-20° slope	0.50" to 2.00" (12.7mm to 50.8mm)
Thickness:	With SCA 25-35° slope	0.50" to 1.75" (12.7mm to 44.6mm)

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





LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

PHOTOMETRY

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

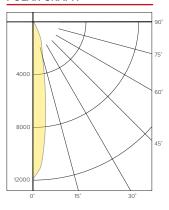
LUMINAIRE DATA

Test No.	R19.02201-C01
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-H-ML20L-DMT / LTR-6RD-T-ML2765T9MDS

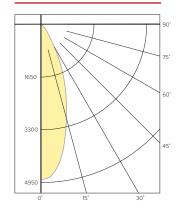
LUMINAIRE DATA

Test No.	R19.02200-C01
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-H-ML20L-DMT / LTR-6RD-T-ML2765T9WDS

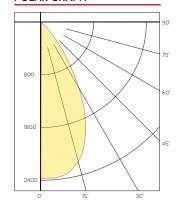
LUMINAIRE DATA

Test No.	R19.02199-C01
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-H-ML20L-DMT / LTR-6RD-T-ML2765T9XWS

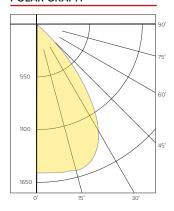
LUMINAIRE DATA

Test No.	R19.00586-20
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





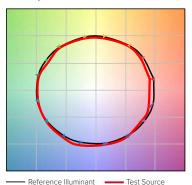
DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

TM-30 DATA

SPECTRASYNC™ TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC 2700K, 90+ CRI

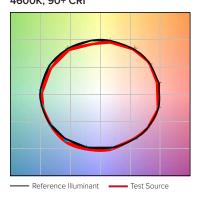


COLOR DISTORTION GRAPHIC 2700K, 90+ CRI

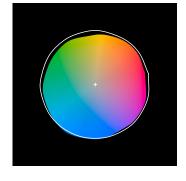


TEST RESULTS - TUNABLE WHITE @ 1500 LUMENS (NOMINAL) 2700K 4600K 6500K Value Luminous Flux (Im) 1407 1604 1660 Wattage (W) 23.9 24.3 24.6 Efficacy (Im/W) 59 66 68 R_{f} 90 89 87 97 98 96 R_{α} CCT (K) 2817 4588 6518 $\mathsf{D}_{\mathsf{U}\underline{\mathsf{V}}}$ -0.0013 -0.0040 0.0018 0.4482 0.3565 0.3131 0.4047 0.3531 0.3273 У CIE R 91 95 94 CIE R 47 81 76

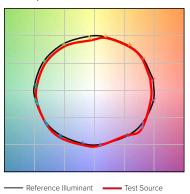
COLOR VECTOR GRAPHIC 4600K, 90+ CRI



COLOR DISTORTION GRAPHIC 4600K, 90+ CRI



COLOR VECTOR GRAPHIC 6500K, 90+ CRI



COLOR DISTORTION GRAPHIC 6500K, 90+ CRI





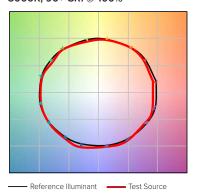
DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

TM-30 DATA CONTINUED

SPECTRASYNC™ DIM TO WARM (2230TD)

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

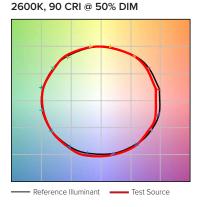


COLOR DISTORTION GRAPHIC 3000K, 90+ CRI @ 100%



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 $R_{_{\rm f}}$ 90 92 91 97 99 102 R_{α} CCT (K) 3123 2590 2282 D_{UV} -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

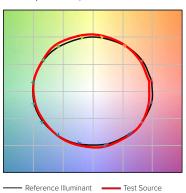
COLOR VECTOR GRAPHIC



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



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



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





LOCATION: DATE: PROJECT: TYPE: CATALOG #:

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	

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	10
10L	1000	18
15L	1500	25
20L	2000	36
25L	2500	38
30L	3000	49

^{*} 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

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