

LTR-6RA

LITEISTRY 6" ROUND ADJUSTABLE

LITEISTRY™

FEATURES

- 6" architectural LED adjustable accent delivering 600–3500 lm
- Four beam distributions from 15° to 45°
- Translating center beam optic allows 0–35° vertical tilt, 362° horizontal rotation
- Select from three lower trim styles: Angle Cut Cone, Pinhole or Slot
- Accommodates up to two lens media including hexcell louver and linear spread options
- Variety of dimming protocol options including 0-10V, DALI, DMX, Lutron Forward Phase and EcoSystem
- NX Distributed Intelligence™ wired and wireless controls capability available



RELATED PRODUCTS

- Ø 3" LITEISTRY Family
- Ø 4" LITEISTRY Family
- Ø 6" LITEISTRY Family



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Standard Non-IC. Chicago Plenum and IC options
- Painted black enclosed steel platform with tool-less top access and pre-installed bar hangers
- Smooth friction adjustment with 0–35° vertical tilt, 362° horizontal rotation without tools
- Precise hot aiming capability, securely locks with thumbscrews for dependable control

OPTICS

- Translating center beam optic ensures full beam optimization from 0.50" to 1.25" ceiling thickness
- Proprietary twist-and-lock upper reflector with diffusion film provides 15°, 25°, 35° or 45° beam distributions
- Optional accessory lens media including linear spread and hexcell louver (order separately)
- Upper reflector can accommodate up to two additional lens media up to 0.25" max. thickness
- Provides dramatic, crisp highlights without distracting rings or excessive spill light
- Standard angle cut cone: High purity spun aluminum reflector, self-flanged in a large selection of anodized finishes and colors
- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes and colors

OPTICS (CONTINUED)

- Painted cones and flange options available
- Optional pinhole or slot lower trim styles are available (painted finishes only)

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- NX 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 [PowerHUBB™ PoE enabled](#) solutions

INSTALLATION

- Accommodates ceiling thickness up to 1.25"
- Universal adjustable mounting brackets also accept 0.25" 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. Top access required for Controls, EMR, GTD, or DTS component replacement

CERTIFICATIONS

- cCSAus certified to UL 1598
- 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	600-3500
Wattage Range	8-43
Efficacy Range (LPW)	77-87*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-358 (120V)

*Based on Specular, 35K, 80 CRI



LTR-6RA

LITEISTRY 6" ROUND ADJUSTABLE

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ORDERING GUIDE

Example: LTR-6RA-H-10L35K8NR-DM1-LTR-6RA-T-SSCG

CATALOG #

HOUSING

LTR-6RA-H		Lumen Output		CCT		CRI		Distribution	
Aperture/Shape/Function									
LTR-6RA-H	6" Round Adjustable New Construction Housing	06L	600	27K	2700K	8	80+ CRI	NR	Narrow 15° ¹⁴
		10L	1000	30K	3000K	9	90+ CRI	MD	Medium 25°
		15L	1500	35K	3500K			WD	Wide 35°
		20L	2000	40K	4000K			XW	Extra Wide 45°
		25L	2500	50K	5000K ²				
		30L	3000						
		35L	3500						

HOUSING CONTINUED

Driver Options		Control Options		Voltage		Housing Options	
DM1	0-10V Dimming to 1%	NXE	NX Enabled, Dual SmartPorts ⁴	<i>Standard</i>		CP	Chicago Plenum ^{1,9}
DM01	0-10V Dimming to <1% ¹³	NXWE	NX Wireless Enabled ⁴	120-277V		IC	IC rated ^{1,10}
DMX	DMX with RDM dimming to <0.1% ³	NXWD	NX Wireless Enabled, Dual SmartPorts ⁴	34	347V ⁸	EMR	Emergency Battery Pack with remote test switch and indicator light ¹
DALI	DALI Dimming to 1%	LV	Lutron Vive Enabled, 0-10V (requires DM1 driver)			GTD	Generator Transfer Device ¹
2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) ³	LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)			DTS	Device Transfer Switch with Bypass Dimming ^{1,15}
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ³					F	Fuse ¹

TRIM

LTR-6RA-T		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
LTR-6RA-T	6" Round Adjustable Trim Assembly	<i>Standard Angle Cut Cone</i>		<i>Finish not applicable with painted reflectors (WC or BC)</i>		<i>Standard Clear</i>		<i>Standard matches reflector color</i>		FM	Flush Mount Mud-In Ring ⁷	AM	Antimicrobial Coating ⁶
		PH	Pinhole ¹¹	S	Specular	CG	Champagne Gold	WT	White Flange ⁵				
		SLT	Slot ¹¹	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
- FMR6-R** Flush Mount Mud-In Ring, 6" Round
- 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)

Lens/Media Accessories

- LL4** Linear Spread Lens for 4" and 6" (MD, WD, XW)¹²
- LL4-NR** Linear Spread Lens for 4" and 6" (NR only)¹²
- PL4** Prismatic Lens for 4" and 6" (MD, WD, XW)¹²
- PL4-NR** Prismatic Lens for 4" and 6" (NR only)¹²
- SOL4** Solite Lens for 4" and 6" (MD, WD, XW)¹²
- SOL4-NR** Solite Lens for 4" and 6" (NR only)¹²
- HL4** Hexcell Louver Black for 4" and 6" (MD, WD, XW)¹²
- HL4-NR** Hexcell Louver Black for 4" and 6" (NR only)¹²

Notes:

- 1 Housing options (except Fuse) not available in combination.
- 2 5000K available in 80+ CRI only.
- 3 2DM, EDM, DMX available in 10L-35L.
- 4 NX requires DM1 driver option.
- 5 WT not needed for WC, BT not needed for BC.
- 6 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 7 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 8 347V requires DM1 driver option; not available in 06L or with Controls, F, DTS, GTD, EMR.
- 9 CP available up to 15L; not available with DMX, Controls, or EMR options.
- 10 IC available up to 15L; not available with Controls options.
- 11 Pinhole and Slot available only in WC or BC painted colors.
- 12 Lens holder supplied with fixture accommodates up to 2 media (0.25" max. total thickness).
- 13 DM01 available up to 20L.
- 14 Narrow (NR) available up to 20L.
- 15 DTS available with DM1, DM01, DALI, or EDM; not available with LVE.

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CONTROLS

NX Distributed Intelligence™ Lighting Controls:

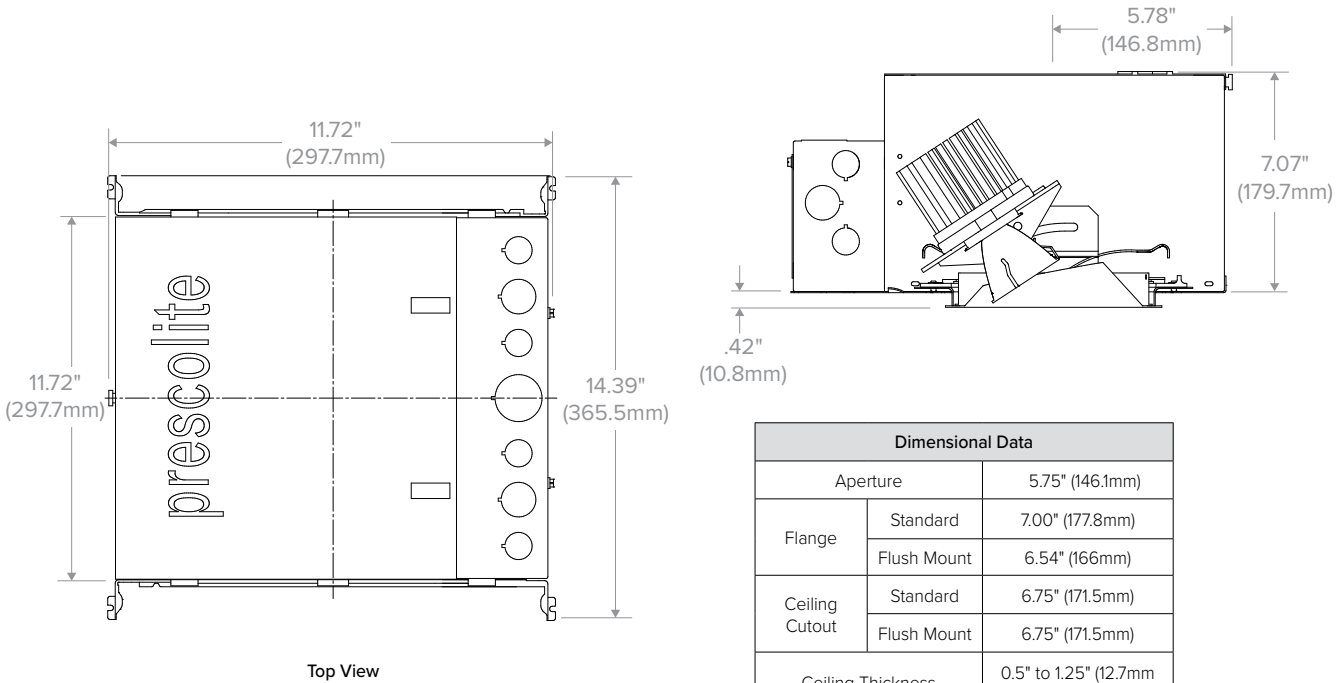
Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



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

DIMENSIONS



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PHOTOMETRY

LTR-6RA-H-20L35K8NR-DM1 / LTR-6RA-T-S

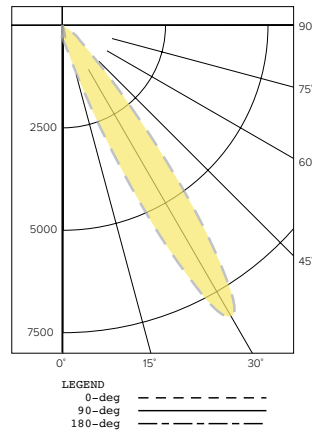
LUMINAIRE DATA

Test No.	19.01220
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1786
Watts	23.2W
Efficacy	76.9
Mounting	Recessed
Beam Angle (FWHM)	15

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1467	82.1
0-60	1782	99.7
0-90	1786	100.0
0-180	1786	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	518
5	706
15	1696
25	10130
35	10600
45	1807
55	495
65	15
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	152539
55°	51513
65°	2119
75°	461
85°	0

*Candela/Square Meter

LTR-6RA-H-20L35K8MD-DM1 / LTR-6RA-T-S

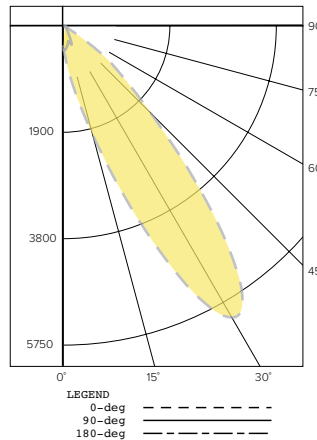
LUMINAIRE DATA

Test No.	19.01338
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1956
Watts	22.1W
Efficacy	88.4
Mounting	Recessed
Beam Angle (FWHM)	24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1480	75.7
0-60	1947	99.5
0-90	1956	100.0
0-180	1956	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	479
5	894
15	2583
25	6424
35	6983
45	2813
55	733
65	30
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	237461
55°	76282
65°	4237
75°	692
85°	0

*Candela/Square Meter

LTR-6RA-H-20L35K8WD-DM1 / LTR-6RA-T-S

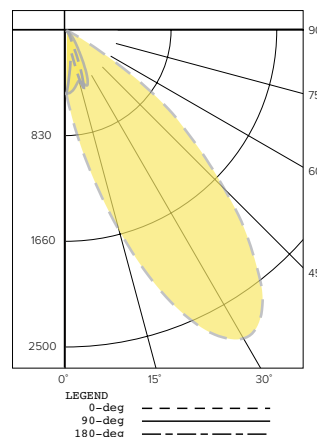
LUMINAIRE DATA

Test No.	19.01339
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1932
Watts	22.1W
Efficacy	87.3
Mounting	Recessed
Beam Angle (FWHM)	36

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1365	70.7
0-60	1911	98.9
0-90	1932	100.0
0-180	1932	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	698
5	1080
15	2324
25	3664
35	3776
45	2468
55	1012
65	75
75	4
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	208337
55°	105316
65°	10593
75°	923
85°	0

*Candela/Square Meter

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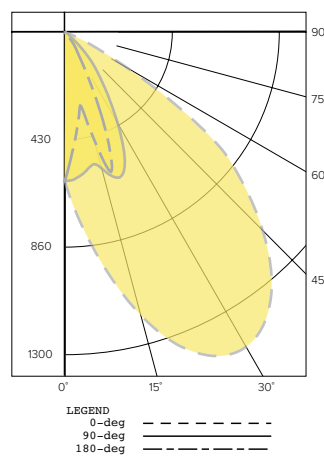
PHOTOMETRY CONTINUED

LTR-6RA-H-20L35K8XW-DM1 / LTR-6RA-T-S

LUMINAIRE DATA

Test No.	19.01186
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	1944
Watts	22.5W
Efficacy	86.5
Mounting	Recessed
Beam Angle (FWHM)	52

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	882
5	1146
15	1731
25	2118
35	2086
45	1673
55	1020
65	173
75	8
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	141227
55°	106149
65°	24435
75°	1845
85°	0

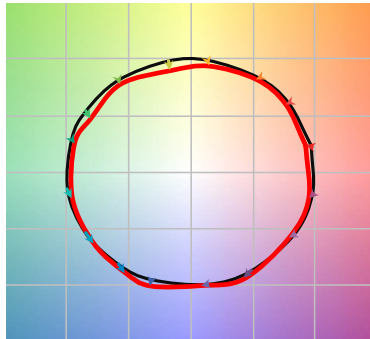
*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1319	67.8
0-60	1898	97.6
0-90	1944	100.0
0-180	1944	100.0

TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI



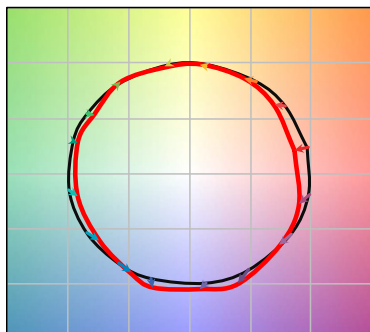
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



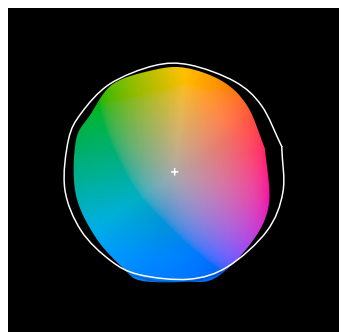
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R _i	84	88
R _g	95	95
CCT (K)	3411	3419
D _{UV}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R _a	84	93
CIE R _g	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI





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DATE: _____ LOCATION: _____

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ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277 V	347 V
Input Frequency	50/60 Hz	50/60 Hz
Power Factor	≥0.90	≥0.90
THD	<20%	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A	Class A

* Values for DM1 option shown, values for other dimming options may vary.

WATTAGE DATA		
Lumen Output	Nominal Lumens	WATTAGE
06L	600	8
10L	1000	12
15L	1500	19
20L	2000	23
25L	2500	28
30L	3000	35
35L	3500	43

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

DIMMING COMPATIBILITY CHART		
Dimming Driver	Manufacturer	Web Link
DM1 /DM01	Lutron DDTV	http://bit.ly/11jSvZg
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BjN2R9
EDM	Lutron	http://bit.ly/1vtjHAI
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

See instruction sheet on www.prescolite.com for connection & installation 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