

LTR-3RA

LITEISTRY 3" ROUND ADJUSTABLE

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

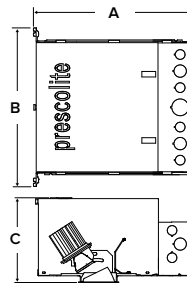
FEATURES

- 3" architectural LED adjustable accent delivering 600–2000 lm
- Four field interchangeable 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, and Lutron EcoSystem
- NX Lighting Controls wired and wireless controls capability available

LITEISTRY™



CONTROLS TECHNOLOGY



Typical Dimensions		
"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)
14.56 (370)	14.36 (365)	7.48 (190)

See DIMENSIONS section for complete details

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 0.5" 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
- All reflectors and lens media are field interchangeable for maximum flexibility
- Provides dramatic, crisp highlights without distracting rings or excessive spill light
- Standard angle cut cone: 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

OPTICS (CONTINUED)

- 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
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron EcoSystem options
- NX Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for NX system deployments
- Emergency battery pack option available with remote test switch and indicator light

INSTALLATION

- Accommodates ceiling thickness up to 1.25"
- Universal adjustable mounting brackets also accept ½" EMT conduit or 1½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine serviceable from above or below ceiling. Top access required for driver, 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
- EMR: Emergency battery packs are California Energy Commission (CEC) Title 20 Compliant
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) [See Buy America\(n\) Solutions](#)
- For -TAA Option: Product configurations meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) [See Buy America\(n\) Solutions](#)

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	600-2000
Wattage Range	8-25
Efficacy Range (LPW)	40-63*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-208 (120V)

*Based on Specular, 35K, 80 CRI

LTR-3RA

LITEISTRY 3" ROUND ADJUSTABLE

ORDERING GUIDE

Example: LTR-3RA-H-10L35K8NR-DM1-LTR-3RA-T-SSCG

CATALOG #

HOUSING

LTR-3RA-H		Lumen Output		CCT		CRI		Distribution	
Aperture/Shape/Function									
LTR-3RA-H	3" Round Adjustable New Construction Housing	06L	600	27K	2700K	8	80+ CRI	NR	Narrow 15°
		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°
				50K	5000K ²				

HOUSING (CONTINUED)

Driver Options		Control Options		Voltage		Housing Options	
DM1	0-10V Dimming to 1%	NX Lighting Controls		Standard 120-277V		CP	Chicago Plenum ^{1,9}
DM01	0-10V Dimming to < 1% ¹³	<u>Networked Wireless</u>		34 347V ⁸		IC	IC rated ^{1,10}
DMX	DMX with RDM dimming to < 0.1%	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor ⁴				EMR	7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light ¹
DALI	DALI Dimming to 1% ¹³	<u>Networked Wired</u>				GTD	Generator Transfer Device ^{1,15}
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% ³	NXE NX Wired Dual RJ45 SmartPORTS, without Sensor ⁴				DTS	Device Transfer Switch with Dimming Bypass ^{1,14}
						F	Fuse ¹
						BAA	Buy American Act (FAR 52.225-9) Compliant
						TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-3RA-T		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Reflector Options	
LTR-3RA-T	3" Round Adjustable Light Engine/Trim Assembly	Standard Angle Cut Cone		Finish not applicable with painted reflectors (WC or BC)		Standard Clear		Standard matches reflector color		AM Antimicrobial Coating ⁶	
		PH	Pinhole ¹¹	S	Specular	CG	Champagne Gold	WT	White Flange ⁵	BAA Buy American Act (FAR 52.225-9) Compliant	
		SLT	Slot ¹¹	SS	Semi-Specular	BL	Black	BT	Black Flange ⁵	TAA Trade Agreements Act (FAR 52.225-11) Compliant	
				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" Round
- 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)

Lens/Media Accessories

- LL3** Linear Spread Lens for 3"¹²
- PL3** Prismatic Lens for 3"¹²
- SOL3** Solite Lens for 3"¹²
- HL3** Hexcell Louver Black for 3"¹²

Notes:

- 1 Housing options (except Fuse, BAA/TAA) not available in combination.
- 2 5000K available in 80+ CRI only.
- 3 EDM available in 10L-20L.
- 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; not available with Controls, EMR, DTS, GTD or F.
- 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, DALI available up to 15L.
- 14 DTS available with DM1, DM01, or DALI. Not available with NXE.
- 15 Not available with NXE.

LTR-3RA



LITEISTRY 3" ROUND ADJUSTABLE

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

NX LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	-	-	✓	✓	✓		NXRM2-H
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	✓	✓	✓	-	-	✓	✓	✓ ¹		NXDSP

¹ Requires NXBTC, order separately.

NX LIGHTING CONTROLS APP



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

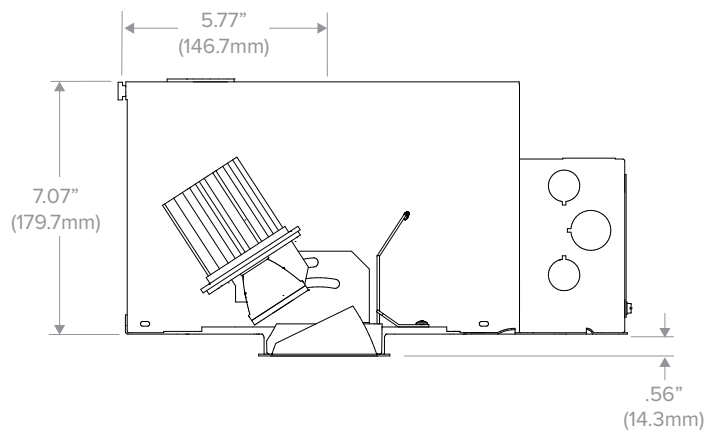
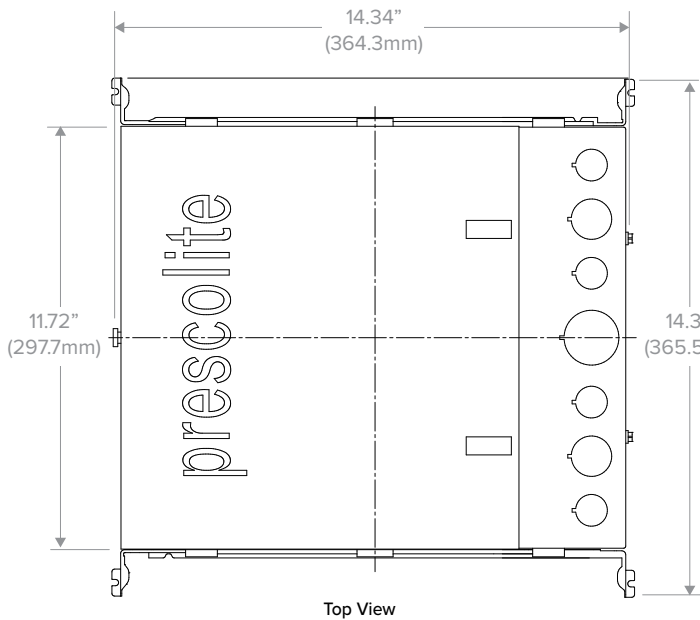


Android



Apple iOS

DIMENSIONS



Dimensional Data		
Aperture		2.88" (73.2mm)
Flange	Standard	3.68" (93.5mm)
	Flush Mount	3.68" (93.5mm)
Ceiling Cutout	Standard	3.38" (85.9mm)
	Flush Mount	4.00" (101.6mm)
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

LTR-3RA

LITEISTRY 3" ROUND ADJUSTABLE

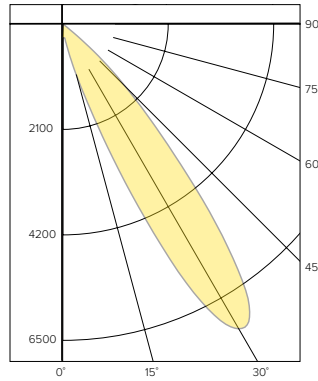
PHOTOMETRY

LTR-3RA-H-20L35K8NR-DM1 / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00778
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1498
Watts	23.9W
Efficacy	62.7
Mounting	Recessed
Beam Angle (FWHM)	19

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	398
5	397
15	1526
25	7773
35	8900
45	2533
55	79
65	13
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	996
55°	818
65°	555
75°	0
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

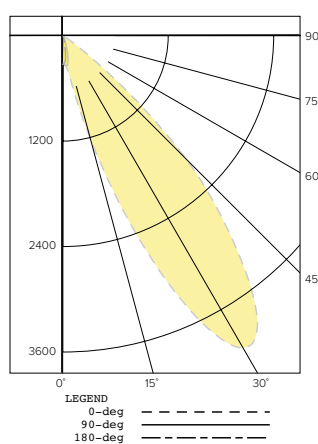
Zone	Lumens	% Luminaire
0-40	1240	82.8
0-60	1494	99.7
0-90	1498	100.0
0-180	1498	100.0

LTR-3RA-H-20L35K8MD-DM1 / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00779
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1346
Watts	23.9W
Efficacy	56.4
Mounting	Recessed
Beam Angle (FWHM)	27

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	435
5	459
15	1640
25	4628
35	5119
45	2630
55	204
65	14
75	3
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	996
55°	818
65°	555
75°	907
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

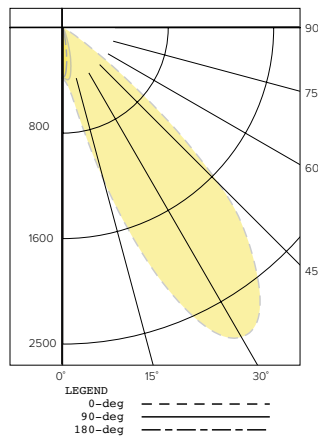
Zone	Lumens	% Luminaire
0-40	1043	77.5
0-60	1341	99.7
0-90	1346	100.0
0-180	1346	100.0

LTR-3RA-H-20L35K8WD-DM1 / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00780
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1262
Watts	23.9W
Efficacy	52.9
Mounting	Recessed
Beam Angle (FWHM)	32

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	529
5	603
15	1620
25	3388
35	3591
45	2320
55	328
65	17
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	1327
55°	818
65°	555
75°	907
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	950	75.3
0-60	1256	99.5
0-90	1262	100.0
0-180	1262	100.0

LTR-3RA

LITEISTRY 3" ROUND ADJUSTABLE

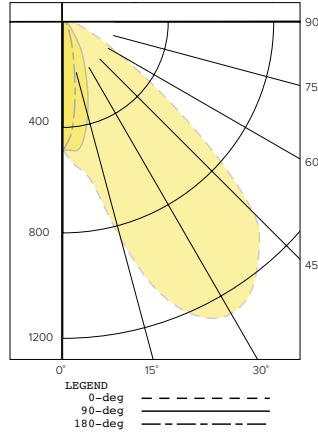
PHOTOMETRY CONTINUED

LTR-3RA-H-20L35K8XW-DM1 / LTR-3RA-T-S

LUMINAIRE DATA

Test No.	19.00781
Description	2000 lm, Extra Wide, 3500K, 80 CRI
Delivered Lumens	960
Watts	24.0W
Efficacy	40.0
Mounting	Recessed
Beam Angle (FWHM)	43

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	633
5	710
15	1120
25	1572
35	1565
45	1229
55	393
65	36
75	2
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	1659
55°	1227
65°	1111
75°	907
85°	0

*Candela/Square Meter

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	700	72.9
0-60	950	99.0
0-90	960	100.0
0-180	960	100.0

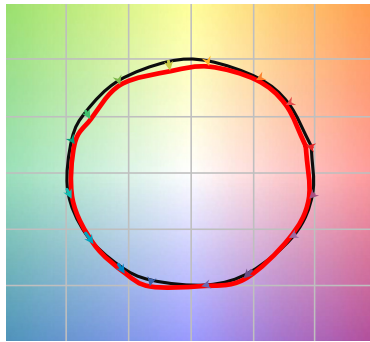
LUMEN MULTIPLIER

Option	27K8	30K8	35K8	40K8	50K8	27K9	30K9	35K9	40K9
Multiplier	0.94	0.98	1.00	1.01	1.02	0.81	0.84	0.85	0.85

Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

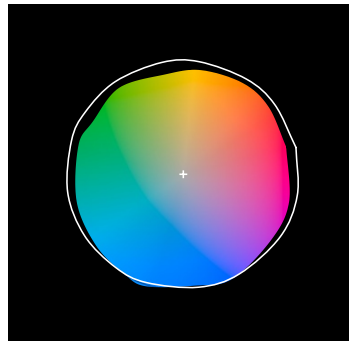
TM-30 DATA

COLOR VECTOR GRAPHIC 3500K, 90 CRI



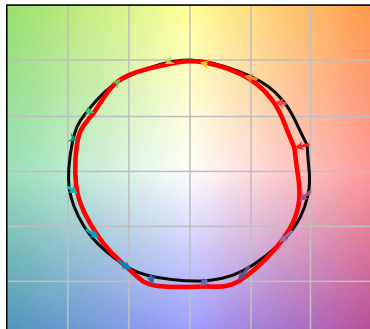
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 90 CRI



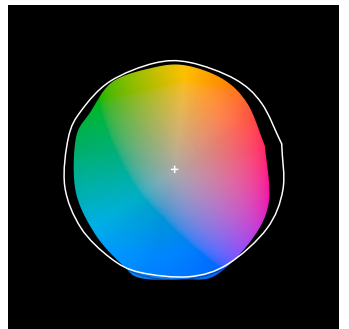
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R _f	84	88
R _g	95	95
CCT (K)	3411	3419
D _{uv}	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R _a	84	93
CIE R _g	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI



LTR-3RA

LITEISTRY 3" ROUND ADJUSTABLE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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.

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

DMX

See instruction sheet on currentlighting.com/prescolite for connection & installation information.

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite 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.

Lumen Output in Emergency Mode

To determine the lumen output in emergency mode multiply the battery pack wattage by the fixture lumens per watt (LPW). For example, 7W x 120 LPW = 840 lumens in emergency mode.