prescolite

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LTR-3SQA

LITEISTRY 3" SQUARE ADJUSTABLE

LITEISTRY



FEATURES

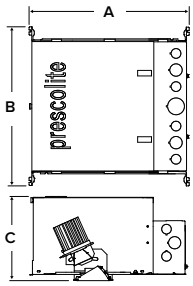
- 3" architectural LED adjustable accent delivering 600–2000 lm
- Four field interchangeable beam distributions from 15° to 45°
- Translating center beam optic allows 0–35° vertical tilt, 362° horizontal rotation
- Accommodates up to two lens media including hexcell louver and linear spread options
- Variety of dimming protocol options including 0-10V, DALI, DMX, and Lutron EcoSystem
- NX Lighting Controls wired and wireless controls capability available

C US

(-BAA Option) (-TAA Option)

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, four-panel aluminum reflector, self-flanged

OPTICS (CONTINUED)

- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

ELECTRICAL

- Chip-on-board (COB) LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Universal voltage 120V–277V driver, 347V optional
- UL Class 2, inherent short circuit and overload protection
- 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 isn/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)	49–71*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67–208 (120V)

*Based on Specular, 35K, 80 CRI

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ORDERING GUIDE

Example: LTR–3SQA–H–10L35K8NR–DM1–LTR–3SQA–T–SSCG

CATALOG #

HOUSING

LTR-3SQA-H –

Aperture/Shape/Function		Lumen Output		CCT		CRI		Distribution	
LTR-3SQA-H	3" Square 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% [7]	Networked Wireless		**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% [7]	Networked Wired				**GTD**	Generator Transfer Device [1,13]
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 [1,12]
						F	Fuse [1]
						BAA	Buy American Act (FAR 52.225-9) Compliant
						TAA	Trade Agreements Act (FAR 52.225-11) Compliant

TRIM

LTR-3SQA-T –

Aperture/Shape/Function		Lower Trim Style	Reflector Finish	Reflector Color	Flange Color Options	Reflector Options
LTR-3SQA-T	3" Square Adjustable 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]
			S Specular	**CG** Champagne Gold	**WT** White Flange [5]	**BAA** Buy American Act (FAR 52.225-9) Compliant
			SS Semi-Specular	**BL** Black	**BT** Black Flange [5]	**TAA** Trade Agreements Act (FAR 52.225-11) Compliant
			VS Softglow®	**LW** Light Wheat		
				PW Pewter		
				WC Painted White Cone and Flange		
				BC Painted Black Cone and Flange		

Accessories		Lens/Media Accessories	
☐ **B24**	Set of two (2) 24" bar hangers for T-bar ceilings	☐ **LL3**	Linear Spread Lens for 3" [11]
☐ **B6**	Set of two bar hangers for ceiling joist up to 24" centers	☐ **PL3**	Prismatic Lens for 3" [11]
☐ **FMR3-SQ**	Flush Mount Mud-In Ring, 3" Square	☐ **SOL3**	Solite Lens for 3" [11]
☐ **LiteGear**	LiteGear® Inverter, 125VA-250VA	☐ **HL3**	Hexcell Louver Black for 3" [11]
☐ **LPS Series**	LightPower Micro-Inverter, 20VA-55VA		
☐ **MOR3-SQ-WH**	Metal Oversized Ring, 3"Square, White (6.75" outer dimension)		
☐ **MOR3-SQ-BL**	Metal Oversized Ring, 3"Square, Black (6.75" outer dimension)		

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 DM01, DALI available up to 15L.
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 Control options.
11 Lens holder supplied with fixture accommodates up to 2 media (0.25" total max. thickness).
12 DTS available with DM1, DM01, or DALI. Not available with NXE.
13 Not available with NXE.

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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

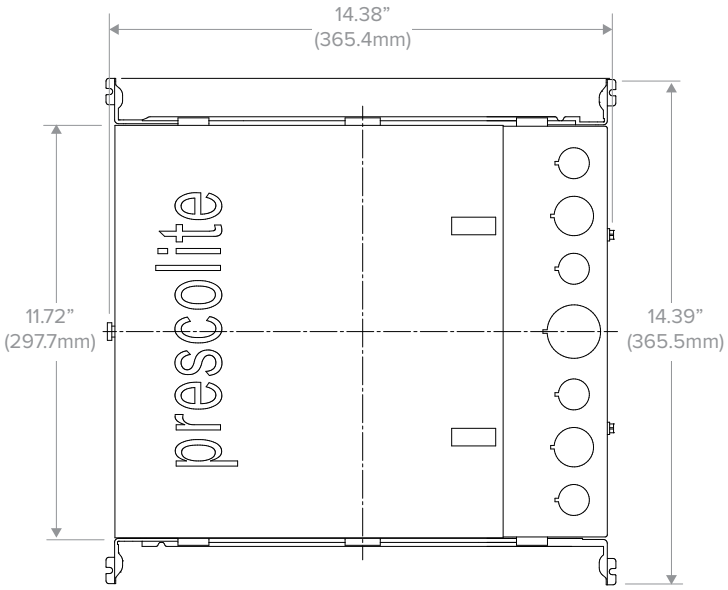


The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

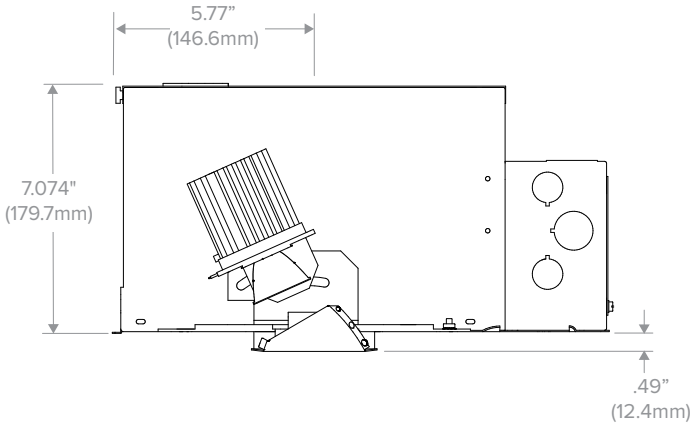
Android

Apple iOS

DIMENSIONS



Top View



Dimensional Data		
Aperture		2.88" (73.2mm)
Flange	Standard	3.62" (91.9mm)
	Flush Mount	3.62" (91.9mm)
Ceiling Cutout	Standard	3.31" (84.1mm)
	Flush Mount	3.94" (100.1mm)
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

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PHOTOMETRY

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

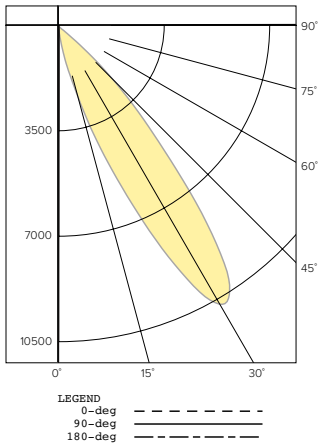
LUMINAIRE DATA

Test No.	**19.01120**
Description	**2000 lm, Narrow, 3500K, 80 CRI**
Delivered Lumens	**1733**
Watts	**24.4W**
Efficacy	**71.1**
Mounting	**Recessed**
Beam Angle (FWHM)	**20**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1409	81.3
0-60	1730	99.8
0-90	1733	100.0
0-180	1733	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	71	71	71
5	181	124	69
15	2238	816	54
25	8114	1595	32
35	9580	755	10
45	2897	61	6
55	88	16	1
65	11	1	1
75	1	1	0
85	0	0	0
90	0	0	0

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

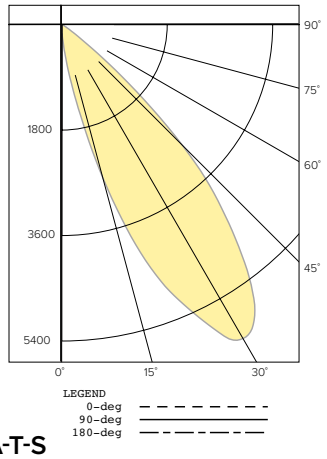
LUMINAIRE DATA

Test No.	**19.01121**
Description	**2000 lm, Medium, 3500K, 80 CRI**
Delivered Lumens	**1621**
Watts	**24.4W**
Efficacy	**66.5**
Mounting	**Recessed**
Beam Angle (FWHM)	**28**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1264	78.0
0-60	1617	99.8
0-90	1621	100.0
0-180	1621	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	151	151	151
5	438	306	144
15	2735	1075	115
25	5506	1699	66
35	5705	923	23
45	2876	128	9
55	199	23	1
65	12	1	1
75	1	1	0
85	0	0	0
90	0	0	0

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

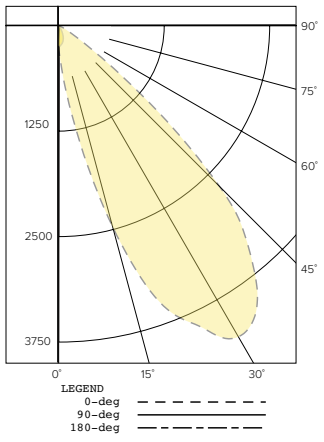
LUMINAIRE DATA

Test No.	**19.01122**
Description	**2000 lm, Wide, 3500K, 80 CRI**
Delivered Lumens	**1524**
Watts	**24.4W**
Efficacy	**62.5**
Mounting	**Recessed**
Beam Angle (FWHM)	**34**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1133	74.3
0-60	1518	99.6
0-90	1524	100.0
0-180	1524	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	252	252	252
5	620	467	242
15	2474	1226	195
25	3930	1717	110
35	4092	1059	30
45	2689	231	10
55	372	36	1
65	17	2	1
75	1	2	0
85	0	0	0
90	0	0	0

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LTR-3SQA

LITEISTRY 3" SQUARE ADJUSTABLE

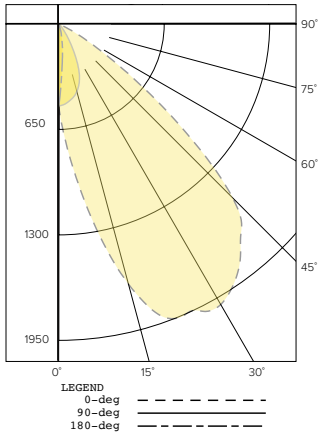
PHOTOMETRY CONTINUED

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

LUMINAIRE DATA

Test No.	**19.00781**
Description	**2000 lm, Extra Wide, 3500K, 80 CRI**
Delivered Lumens	**1200**
Watts	**24.4W**
Efficacy	**49.2**
Mounting	**Recessed**
Beam Angle (FWHM)	**45**

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	505	505	505
5	840	725	493
15	1658	1187	432
25	1949	1374	279
35	1908	1013	88
45	1517	422	18
55	481	99	2
65	36	2	2
75	1	2	1
85	0	0	0
90	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	852	71.0
0-60	1187	98.9
0-90	1200	100.0
0-180	1200	100.0

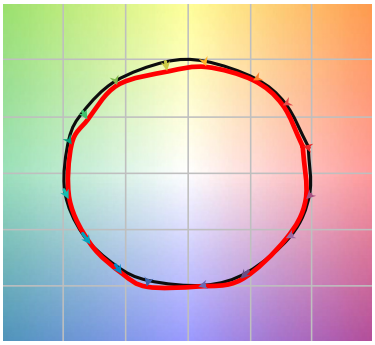
LUMEN MULTIPLIER

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



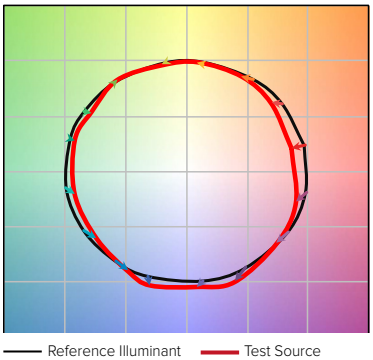
Reference Illuminant — Test Source

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_9	11	62

COLOR VECTOR GRAPHIC 3500K, 80 CRI



Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC 3500K, 80 CRI



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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.

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.

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