

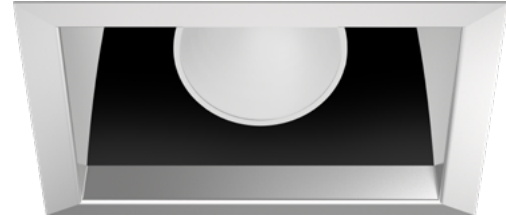
# LTR-6SQA

LITEISTRY 6" SQUARE 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
- 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 0.5" 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
- Provides dramatic, crisp highlights without distracting rings or excessive spill light

#### OPTICS (CONTINUED)

- Standard angle cut cone: High purity, four-panel aluminum reflector, self-flanged
- Flush mount flange option with mud-in ring available
- Large selection of anodized finishes, colors 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, RoHS compliant
- Flicker free 0-10V dimming with 1% or <1% performance
- DALI, DMX, and Lutron Forward Phase and EcoSystem options
- Emergency battery pack option available with remote test switch and indicator light
- Refer to additional spec sheets for information or [PowerHUBB™ PoE enabled](#) solutions

#### INSTALLATION

- Accommodates ceiling thicknesses up to 1.25"
- Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)

#### INSTALLATION (CONTINUED)

- 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 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)	74-77*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67-358 (120V)

\* Based on Specular, 35K, 80 CRI



DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_

TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_

CATALOG #: \_\_\_\_\_

# LTR-6SQA

LITEISTRY 6" SQUARE ADJUSTABLE

## ORDERING GUIDE

Example: LTR-6SQA-H-10L35K8NR-DM1-LTR-6SQA-T-SSC9

CATALOG # \_\_\_\_\_

### HOUSING

LTR-6SQA-H		Lumen Output		CCT		CRI		Distribution	
Aperture/Shape/Function									
LTR-6SQA-H	6" Square Adjustable New Construction Housing	06L	600	27K	2700K	8	80+ CRI	NR	Narrow 15° <sup>13</sup>
		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 <sup>2</sup>				
		30L	3000						
		35L	3500						

### HOUSING (CONTINUED)

Driver Options		Control Options		Voltage		Housing Options	
DM1	0-10V Dimming to 1%	NXE	NX, Dual SmartPORTs <sup>4</sup>	Standard 120-277V		CP	Chicago Plenum <sup>1,9</sup>
DM01	0-10V Dimming to <1% <sup>12</sup>	NXWE	NX Wireless Enabled <sup>4</sup>	34	347V <sup>8</sup>	IC	IC rated <sup>1,9</sup>
DMX	DMX with RDM dimming to <0.1% <sup>3</sup>	NXWD	NX Wireless, Dual SmartPORTs <sup>4</sup>			EMR	Emergency Battery Pack with remote test switch and indicator light <sup>1</sup>
DALI	DALI Dimming to 1%	LV	Lutron Vive Enabled, 0-10V (requires DM1 driver)			GTD	Generator Transfer Device <sup>1</sup>
2DM	Lutron Hi-Lume 2-wire Dimming to 1% (120V Forward Phase only) <sup>3</sup>	LVE	Lutron Vive Enabled, EcoSystem, (requires EDM)			DTS	Device Transfer Switch with Bypass Dimming <sup>1,14</sup>
EDM	Lutron Hi-Lume EcoSystem Dimming to 1% <sup>3</sup>					F	Fuse <sup>1</sup>

### TRIM

LTR-6SQA-T		Lower Trim Style		Reflector Finish		Reflector Color		Flange Color Options		Lower Trim Options		Reflector Options	
LTR-6SQA-T	6" Square Adjustable Trim Assembly	Standard Angle Cut Cone		Finish not applicable with painted reflectors (WC or BC)		Standard Clear		Standard matches reflector color		FM	Flush Mount Mud-in Ring <sup>7</sup>	AM	Antimicrobial Coating <sup>6</sup>
				S	Specular	CG	Champagne Gold	WT	White Flange <sup>5</sup>				
			SS	Semi-Specular	BL	Black	BT	Black Flange <sup>5</sup>					
			VS	Softglow®	LW	Light Wheat							
			VSS	SoftSheen™	PW	Pewter							
					WC	Painted White Cone and Flange							
					BC	Painted Black Cone and Flange							

Notes:

- Housing options (except Fuse) not available in combination.
- 5000K available in 80+ CRI only.
- 2DM, EDM, DMX available in 10L-35L.
- NX requires DM1 driver option.
- 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.
- Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 347V requires DM1 driver option; not available in 06L or with Controls, F, DTS, GTD, EMR.
- CP available up to 15L; not available with DMX, Controls, or EMR options.
- IC available up to 15L; not available with Controls options.
- Lens holder supplied with fixture accommodates up to 2 media (0.25" total max. thickness).
- DM01 available up to 20L.
- Narrow (NR) available up to 20L.
- DTS available with DM1, DM01, DALI, or EDM; not available with LVE.

### 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
- LiteGear** LiteGear® Inverter, 125VA-250VA
- FMR6-SQ** Flush Mount Mud-In Ring, 6" Square
- LPS Series** LightPower Micro-Inverter, 20VA-55VA
- MOR6-SQ-WH** Metal Oversized Ring, 6" Square, White (10.25" outer dimension)
- MOR6-SQ-BL** Metal Oversized Ring, 6" Square, Black (10.25" outer dimension)

### Lens/Media Accessories

- LL4** Linear Spread Lens for 4" and 6" (MD, WD, XW)<sup>11</sup>
- LL4-NR** Linear Spread Lens for 4" and 6" (NR only)<sup>11</sup>
- PL4** Prismatic Lens for 4" and 6" (MD, WD, XW)<sup>11</sup>
- PL4-NR** Prismatic Lens for 4" and 6" (NR only)<sup>11</sup>
- SOL4** Solite Lens for 4" and 6" (MD, WD, XW)<sup>11</sup>
- SOL4-NR** Solite Lens for 4" and 6" (NR only)<sup>11</sup>
- HL4** Hexcell Louver Black for 4" and 6" (MD, WD, XW)<sup>11</sup>
- HL4-NR** Hexcell Louver Black for 4" and 6" (NR only)<sup>11</sup>

# LTR-6SQA

LITEISTRY 6" SQUARE ADJUSTABLE

## CONTROLS

### NX Distributed Intelligence™ Lighting Controls:

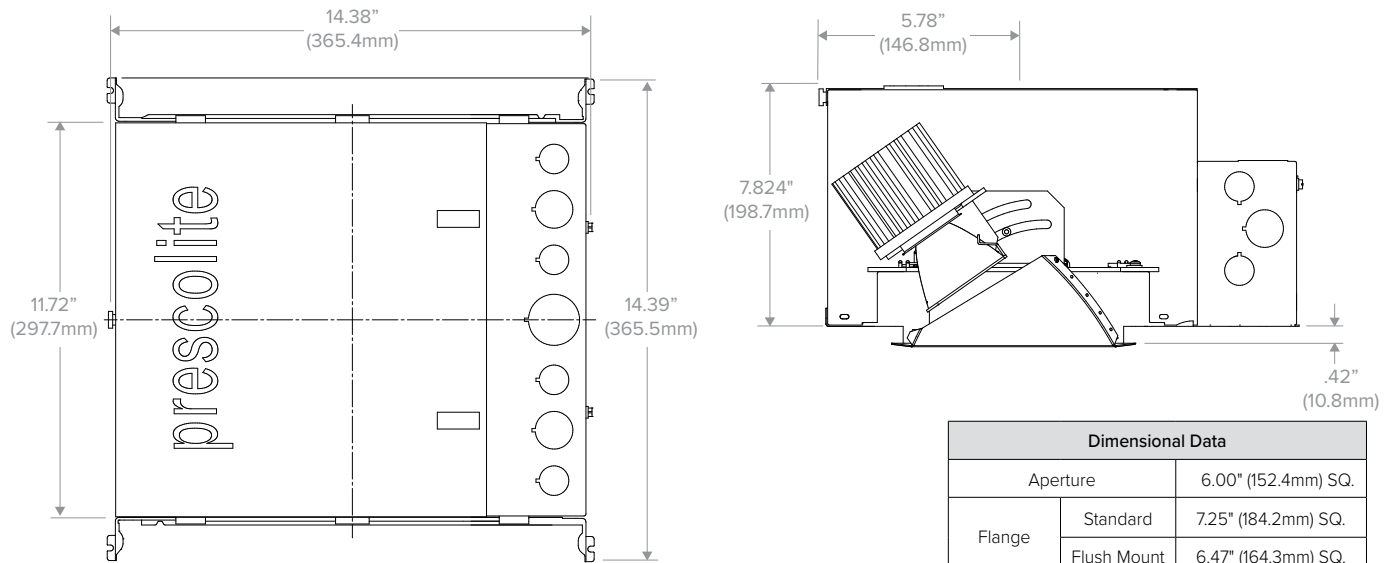
Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0-10V Dimming	On/off Control	Bluetooth® App Programming
<b>NX Networked – Wired</b>								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires <a href="#">NXBTC/R</a> <sup>1</sup>
<b>NX Networked – Wireless</b>								
NXWE <sup>2</sup>	N/A	Yes	Yes	No	No	Yes	Yes	No <sup>3</sup>
<b>NX Networked – Wired/Wireless</b>								
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires <a href="#">NXBTC/R</a> <sup>1,3</sup>

- 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



Dimensional Data		
Aperture		6.00" (152.4mm) SQ.
Flange	Standard	7.25" (184.2mm) SQ.
	Flush Mount	6.47" (164.3mm) SQ.
Ceiling Cutout	Standard	6.69" (169.9mm) SQ.
	Flush Mount	6.88" (174.8mm) SQ.
Ceiling Thickness		0.5" to 1.25" (12.7mm to 31.8mm)

# LTR-6SQA

LITEISTRY 6" SQUARE ADJUSTABLE

## PHOTOMETRY

### LTR-6SQA-H-20L35K8NR-DM1 / LTR-6SQA-T-S

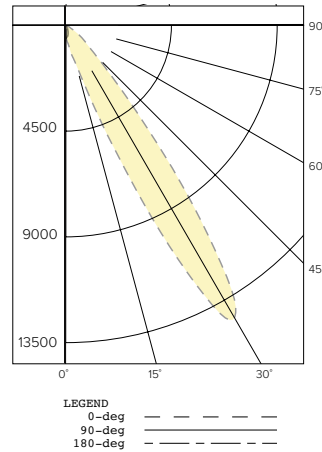
#### LUMINAIRE DATA

Test No.	19.01342
Description	2000 lm, Narrow, 3500K, 80 CRI
Delivered Lumens	1763
Watts	22.8W
Efficacy	77.3
Mounting	Recessed
Beam Angle (FWHM)	15

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1459	82.8
0-60	1759	99.8
0-90	1763	100.0
0-180	1763	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	567	567	567
5	773	714	542
15	1960	1127	387
25	10390	970	140
35	9520	750	40
45	1588	471	16
55	165	27	5
65	10	6	1
75	0	0	0
85	0	0	0
90	0	0	0

### LTR-6SQA-H-20L35K8MD-DM1 / LTR-6SQA-T-S

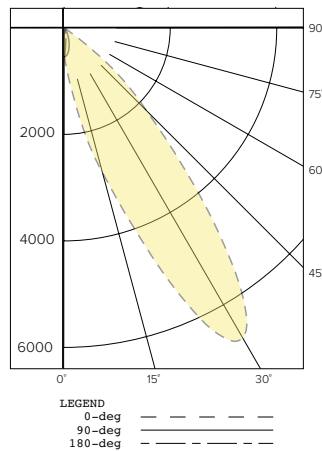
#### LUMINAIRE DATA

Test No.	19.01343
Description	2000 lm, Medium, 3500K, 80 CRI
Delivered Lumens	1694
Watts	21.9W
Efficacy	77.3
Mounting	Recessed
Beam Angle (FWHM)	24

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1329	78.4
0-60	1689	99.7
0-90	1694	100.0
0-180	1694	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	536	536	536
5	965	804	508
15	2858	1513	339
25	6002	1412	155
35	5587	945	58
45	2152	413	22
55	171	48	7
65	14	9	1
75	0	0	0
85	0	0	0
90	0	0	0

### LTR-6SQA-H-20L35K8WD-DM1 / LTR-6SQA-T-S

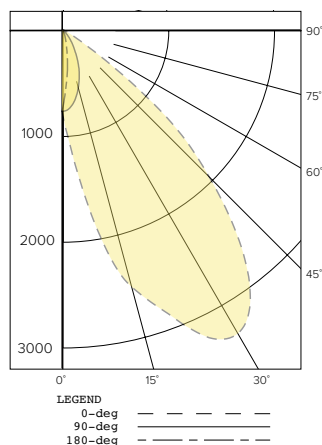
#### LUMINAIRE DATA

Test No.	19.01344
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1665
Watts	21.9W
Efficacy	76.0
Mounting	Recessed
Beam Angle (FWHM)	38

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1215	73
0-60	1654	99.3
0-90	1665	100.0
0-180	1665	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	777	777	777
5	1219	1054	754
15	2515	1703	585
25	3202	1518	364
35	3104	1160	171
45	1960	641	54
55	431	136	12
65	26	15	1
75	0	0	0
85	0	0	0
90	0	0	0

# LTR-6SQA

LITEISTRY 6" SQUARE ADJUSTABLE

## PHOTOMETRY (CONTINUED)

### LTR-6SQA-H-20L35K8XW-DM1 / LTR-6SQA-T-S

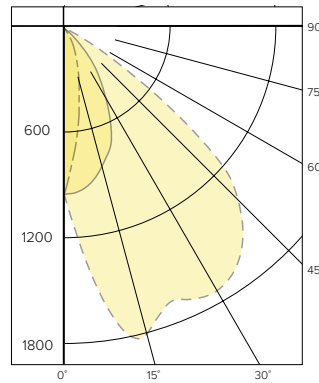
#### LUMINAIRE DATA

Test No.	19.01345
Description	2000 lm, Wide, 3500K, 80 CRI
Delivered Lumens	1611
Watts	21.9 W
Efficacy	73.6
Mounting	Recessed
Beam Angle (FWHM)	55

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1113	69.1
0-60	1586	98.5
0-90	1611	100.0
0-180	1611	100.0

#### POLAR GRAPH

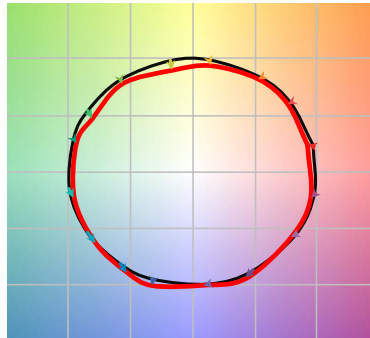


#### CANDELA DISTRIBUTION

Degree	Candela-0	Candela-45	Candela-90
0	939	939	939
5	1297	1178	928
15	1799	1598	815
25	1695	1344	630
35	1680	1186	356
45	1401	804	127
55	558	284	22
65	66	30	2
75	0	1	1
85	0	0	0
90	0	0	0

### TM-30 DATA

#### COLOR VECTOR GRAPHIC 3500K, 90 CRI



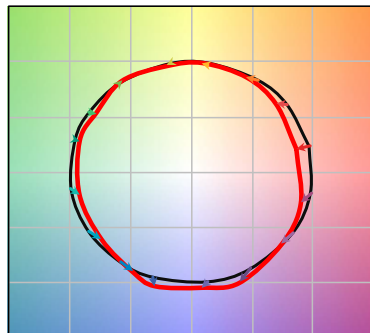
— Reference Illuminant — Test Source

#### COLOR DISTORTION GRAPHIC 3500K, 90 CRI



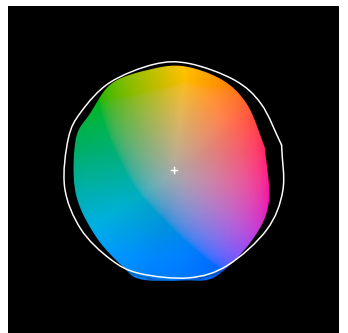
TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
$R_t$	84	88
$R_g$	95	95
CCT (K)	3411	3419
$D_{uv}$	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE $R_a$	84	93
CIE $R_9$	11	62

#### COLOR VECTOR GRAPHIC 3500K, 80 CRI



— Reference Illuminant — Test Source

#### COLOR DISTORTION GRAPHIC 3500K, 80 CRI



# LTR-6SQA

LITEISTRY 6" SQUARE ADJUSTABLE

## ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277V	347V
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	<a href="http://bit.ly/1ijSvZg">http://bit.ly/1ijSvZg</a>
DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	<a href="http://bit.ly/1BJn2R9">http://bit.ly/1BJn2R9</a>
EDM	Lutron	<a href="http://bit.ly/1vtjHAI">http://bit.ly/1vtjHAI</a>
2DM	Lutron	<a href="http://bit.ly/1S4WjXK">http://bit.ly/1S4WjXK</a>

### DMX

See instruction sheet on [www.prescolite.com](http://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](http://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](http://www.dual-lite.com/products/litegear_lg_series)

LPS Series: [www.dual-lite.com/products/lps](http://www.dual-lite.com/products/lps)