prescolite

LTR-6SQW Lens
LITEISTRY 6" SQUARE LENSED WALL WASH (LWW)

LITEISTRY

FEATURES

- 6" architectural LED lensed wall wash delivering 600–4500 lm
- Provides smooth uniform vertical illumination
- 2700K–5000K, 80+ and 90+ CRI options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Variety of dimming protocol options including 0–10V, DALI, DMX, and Lutron EcoSystem
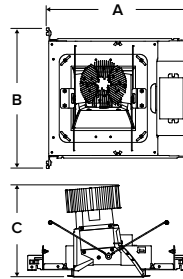- NX Lighting Controls wired and wireless controls capability available

WET LOCATION   C **CSA** US   **BAA** (-BAA Option)   **TAA** (-TAA Option)

SERVICE PROGRAMS

tradeSELECT®   QS10

CONTROLS TECHNOLOGY

NX WIRELESS   NX WIRED

Typical Dimensions and Weights

Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 15L	14.56 (370)	14.36 (365)	6 (152)	8 (3.6)
20L - 30L	14.56 (370)	14.36 (365)	6.78 (172)	8.4 (3.8)
35L - 45L	14.56 (370)	14.36 (365)	7.96 (202)	9 (4.1)

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION
- Standard Non-IC. Chicago Plenum and IC options
- 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
- Provides excellent uniformity down the wall
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- High purity four panel 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
- Chip-on-board (COB) LED with 2 SDCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >55,000 hours (TM-21)

ELECTRICAL (CONTINUED)
- 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
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm solutions

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/driver fully serviceable from above or below the ceiling

CERTIFICATIONS
- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling EMR: 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

KEY DATA	
Lumen Range	600–4500
Wattage Range	8–55
Efficacy Range (LPW)	90*
Reported Life (Hours)	L90 / >55,000
Input Current (mA)	67–458 (120V)

*Based on Specular, 35K, 80 CRI

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DATE:	LOCATION:
TYPE:	PROJECT:
	CATALOG #:

Gray Shading = Service Program   tradeSELECT   QS10 Limit of 150 Luminaries

ORDERING GUIDE

Example: LTR–6SQD–H–SL10L–DM1–LTR–6SQW–T–SL35K8LWW–S

CATALOG #

HOUSING

LTR-6SQD-H

Aperture/Shape/Function	Lumen Package	Lumen Output	Driver Options[3]	Control Options	Voltage	Housing Options
LTR-6SQD-H 6" Square Downlight / Wall Wash New Construction Housing	**SL** Standard Lumen	**06L** 600 **10L** 1000 **15L** 1500	**DM1** 0-10V Dimming to 1%	**NX Lighting Controls**	*Standard 120-277V*	**CP** Chicago Plenum [1,9]
			DM01 0-10V Dimming to < 1%	Networked Wireless	**34** 347V [8]	**IC** IC rated [1,10]
	ML Medium Lumen	**20L** 2000 **25L** 2500 **30L** 3000	**DMX** DMX with RDM dimming to < 0.1% [3]	**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]
	HL High Lumen	**35L** 3500 **40L** 4000 **45L** 4500	**DALI** DALI Dimming to 1% **EDM** Lutron Hi-Lume EcoSystem Dimming to 1% [3]	Networked Wired **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [4]		**DTS** Device Transfer Switch with Dimming Bypass [1,11] **GTD** Generator Transfer Device [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-6SQW-T

Aperture/Shape/Function	Lumen Package	CCT	CRI	Distribution
LTR-6SQW-T 6" Square Wall Wash Engine/Trim Assembly	**SL** Standard Lumen **ML** Medium Lumen **HL** High Lumen	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K [2]	**8** 80+CRI **9** 90+CRI	**LWW** Lensed Wall Wash

TRIM CONTINUED

Reflector Finish	Reflector Color	Flange Color Options	Lower Trim Options	Reflector Options
Finish not applicable with painted reflectors (WC or BC) **S** Specular **SS** Semi-Specular **VS** Softglow®	*Standard Clear* **CG** Champagne Gold **BL** Black **LW** Light Wheat **PW** Pewter **WC** Painted White Cone and Flange **BC** Painted Black Cone and Flange	*Standard matches reflector color* **WT** White Flange [5] **BT** Black Flange [5]	**FM** Flush Mount Mud-in Ring [7] **WF** Wide Flange	**AM** Antimicrobial Coating [6] **BAA** Buy American Act (FAR 52.225-9) Compliant **TAA** Trade Agreements Act (FAR 52.225-11) Compliant

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-SQ**	Flush Mount Flange Mud-In Ring, 6" Square
☐	**LiteGear**	LiteGear® Inverter, 125VA–250VA
☐	**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)

Notes:
1. Housing options (except Fuse, BAA/TAA) not available in combination.
2. 5000K available in 80+ CRI only.
3. EDM available in 10L-35L. DMX not available on >35L.
4. NX requires or 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 available for 06L-30L; requires DM1 driver; not available with Controls, EMR, DTS, GTD or F.
9. Not available with DMX or Controls, or EMR options.
10. IC available up to 20L; not available with Controls options.
11. DTS available with DM1, DM01, or DALI. Not available with NXE.
12. 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.
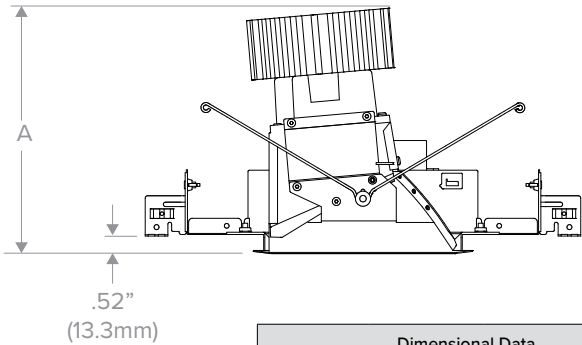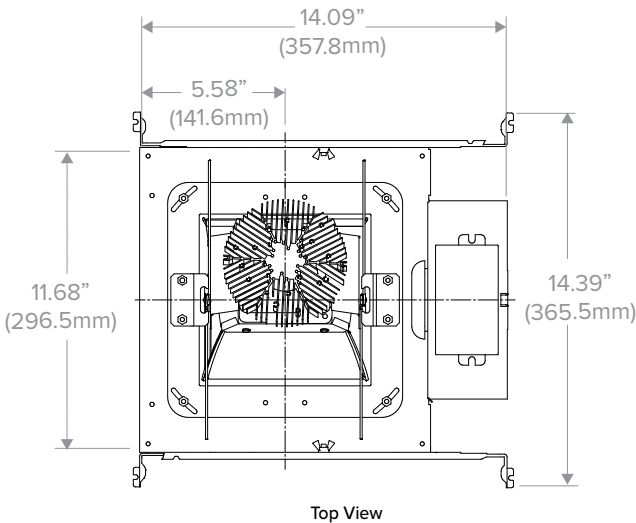
Android   Apple iOS

DIMENSIONS

14.09" (357.8mm)

5.58" (141.6mm)

11.68" (296.5mm)

14.39" (365.5mm)

Top View

A

.52" (13.3mm)

Lumen Package	"A"
06L-15L	6.82" (173.2mm)
20L-30L	8.00" (203.2mm)
35L-45L	9.18" (233.2mm)

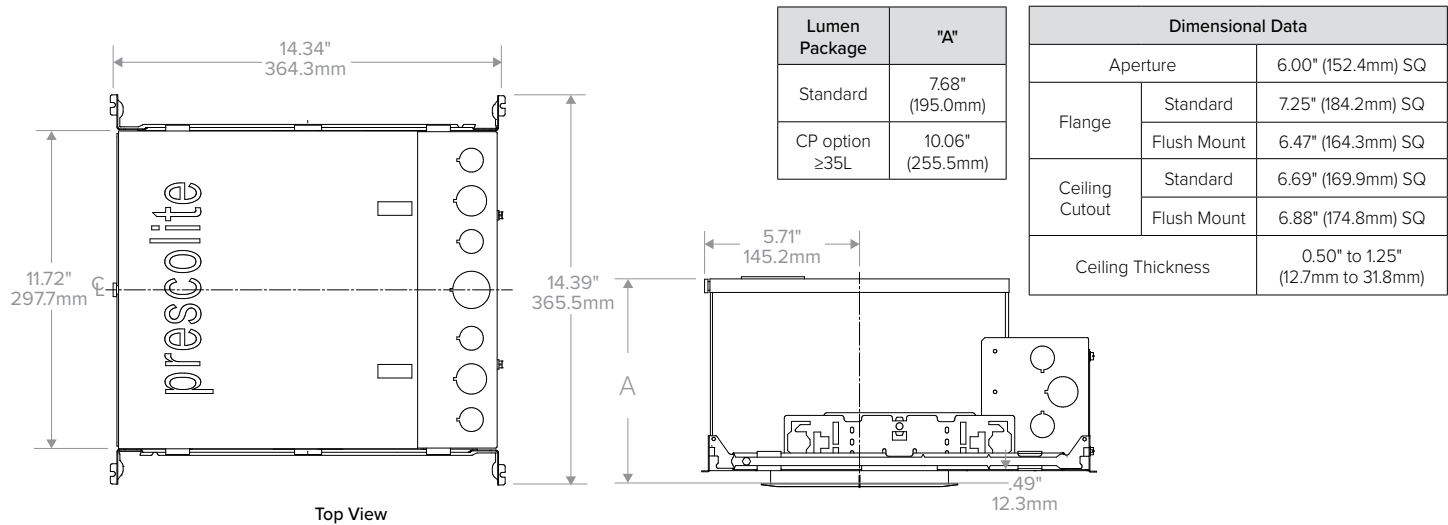| Dimensional Data		
Aperture		6.00" (152.4mm) SQ
Flange	Standard	7.25" (184.2mm) SQ
	Flush Mount	6.47" (164.3mm) SQ
Ceiling Cutout	Standard	6.69" (169.9mm) SQ
	Flush Mount	6.88" (174.8mm) SQ
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

LTR-6SQW Lens-H New Construction

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LTR-6SQW Lens_R07

LTR-6SQW Lens
LITEISTRY 6" SQUARE LENSED WALL WASH (LWW)

DIMENSIONS (CONTINUED)

Top View

14.34" / 364.3mm

11.72" / 297.7mm

14.39" / 365.5mm

5.71" / 145.2mm

A

.49" / 12.3mm

Lumen Package	"A"
Standard	7.68" (195.0mm)
CP option ≥35L	10.06" (255.5mm)

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		0.50" to 1.25" (12.7mm to 31.8mm)

PHOTOMETRY

LTR-6SQW Lens-H IC/CP

LTR-6SQW-H-ML20L-DM1 - LTR-6SQW-T-ML35K8LWWS

LUMINAIRE DATA

Test No.	19.01241
Description	6" Lensed Wall-Wash; 2000lm 3500K, 80 CRI
Delivered Lumens	2035
Watts	22.5
Efficacy	90.3 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1508	74.1
0-60	1939	95.3
0-90	2035	100.0
0-180	2035	100.0

POLAR GRAPH

LEGEND
0–deg
90–deg
180–deg
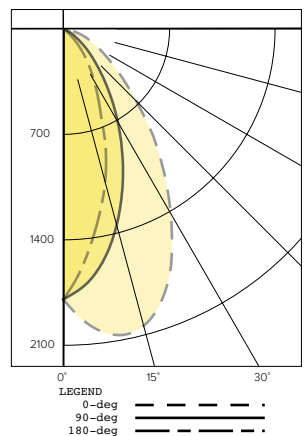
CANDELA DISTRIBUTION

Degree	Candela
0	1814
5	1993
15	2066
25	1715
35	1178
45	698
55	389
65	215
75	86
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	17110
55°	8633
65°	3260
75°	665
85°	0

*Candela/Square Meter

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.

REFLECTOR FINISH MULTIPLIER (Based on Clear (Standard) Color)

Option	Specular (S)	Semi-Specular (SS)	American Matte (MFC)	Softglow (VS)	Softsheen (VSS)
Multiplier	1	1	0.984	0.888	0.938

REFLECTOR COLOR MULTIPLIER (Based on Semi-Specular (SS) Finish)

Option	Clear (Standard)	Champagne Gold (CG)	Black (BL)	Light Wheat (LW)	Pewter (PW)	White Cone (WC)	Black Cone (BC)
Multiplier	1	0.974	0.444	0.861	0.915	0.984	0.442

Multiply FINISH x COLOR to calculate other reflector finish and color combinations. Example: SoftGlow Pewter (VSPW) = 0.888 (VS) x 0.915 (PW) = 0.813

LTR-6SQW Lens
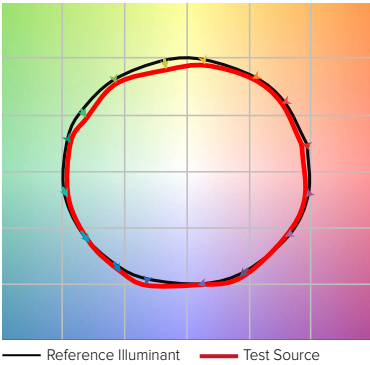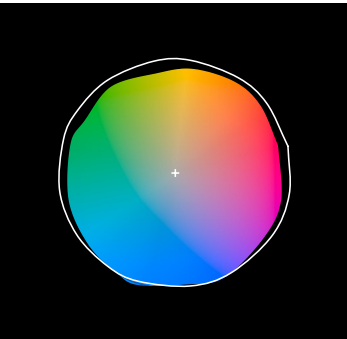### LITEISTRY 6" SQUARE LENSED WALL WASH (LWW)

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
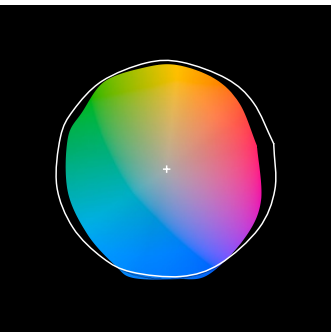
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 80 CRI

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ELECTRICAL DATA

DRIVER DATA		
Input Voltage	120-277V	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.

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.