

# LTR-3Sqw Lens

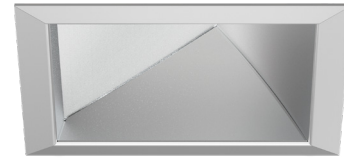
LITEISTRY 3" SQUARE LENSED WALL WASH (LWW)

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

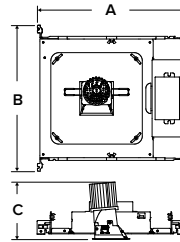
## FEATURES

- 3" architectural LED lensed wall wash delivering 600–2000 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

LITEISTRY™



## CONTROLS TECHNOLOGY



Typical Dimensions and Weights				
Lumen Package	"A" Length Inches (mm)	"B" Width Inches (mm)	"C" Height Inches (mm)	Weight lbs (kg)
06L - 20L	14.56 (370)	14.39 (366)	5 (127)	7 (3.2)

See DIMENSIONS section for complete details

## SPECIFICATIONS

### CONSTRUCTION

- Standard Non-IC, Chicago Plenum and IC options
- 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
- Reflector assembly with a satin diffuse acrylic lens
- 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

### ELECTRICAL (CONTINUED)

- 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
- Refer to additional spec sheets for information on SpectraSync™ Tunable White or Dim-to-Warm or 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)
- Driver and EMR battery pack are serviceable above ceiling only

### 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	
Lumen Range	600–2000
Wattage Range	8–25
Efficacy Range (LPW)	96*
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-3SQD-H-SL10L-DM1-LTR-3SQW-T-SL35K8LWW-S

CATALOG #

## HOUSING

LTR-3SQD-H						
Aperture/Shape/Function	Lumen Package	Lumen Output	Driver Options	Control Options	Voltage	Housing Options
LTR-3SQD-H 3" Square Downlight / Wall Wash New Construction Housing	<b>SL</b> Standard Lumen <b>ML</b> Medium Lumen	<b>06L</b> 600 <b>10L</b> 1000 <b>15L</b> 1500 <b>20L</b> 2000	<b>DM1</b> 0-10V Dimming to 1% <b>DM01</b> 0-10V Dimming to < 1% <b>DMX</b> DMX with RDM dimming to < 0.1% <b>DALI</b> DALI Dimming to 1% <b>EDM</b> Lutron Hi-Lume EcoSystem Dimming to 1% <sup>2</sup>	<b>NX Lighting Controls</b> <b>Networked Wireless</b> <b>NXW</b> NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>3</sup> <b>Networked Wired</b> <b>NXE</b> NX Wired Dual RJ45 SmartPORTS, without Sensor <sup>3</sup>	<b>Standard 120-277V</b> <b>34</b> 347V <sup>6</sup>	<b>CP</b> Chicago Plenum <sup>7,9</sup> <b>IC</b> IC rated <sup>8,9</sup> <b>EMR</b> 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light <sup>9</sup> <b>DTS</b> Device Transfer Switch with Dimming Bypass <sup>9,10</sup> <b>GTD</b> Generator Transfer Device <sup>9,11</sup> <b>F</b> Fuse <sup>9</sup> <b>BAA</b> Buy American Act (FAR 52.225-9) Compliant <b>TAA</b> Trade Agreements Act (FAR 52.225-11) Compliant

## TRIM

LTR-3SQW-T				
Aperture/Shape/Function	Lumen Package	CCT	CRI	Distribution
LTR-3SQW-T 3" Square Wall Wash Light Engine/Trim Assembly	<b>SL</b> Standard Lumen <b>ML</b> Medium Lumen	<b>27K</b> 2700K <b>30K</b> 3000K <b>35K</b> 3500K <b>40K</b> 4000K <b>50K</b> 5000K <sup>1</sup>	<b>8</b> 80+CRI <b>9</b> 90+CRI	<b>LWW</b> Lensed Wall Wash

## TRIM CONTINUED

Reflector Finish	Reflector Color	Flange Color Options	Reflector Options
<i>Finish not applicable with painted reflectors (WC or BC)</i>	<i>Standard Clear</i>	<i>Standard matches reflector color</i>	<b>AM</b> Antimicrobial Coating <sup>5</sup>
<b>S</b> Specular	<b>CG</b> Champagne Gold	<b>WT</b> White Flange <sup>4</sup>	<b>BAA</b> Buy American Act (FAR 52.225-9) Compliant
<b>SS</b> Semi-Specular	<b>BL</b> Black	<b>BT</b> Black Flange <sup>4</sup>	<b>TAA</b> Trade Agreements Act (FAR 52.225-11) Compliant
<b>VS</b> Softglow®	<b>LW</b> Light Wheat		
	<b>PW</b> Pewter		
	<b>WC</b> Painted White Cone and Flange		
	<b>BC</b> 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-SQ** Flush Mount Flange Mud-In Ring, 3" Square
- ☐ **LiteGear** LiteGear® Inverter, 125VA–250VA
- ☐ **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:

- 5000K available in 80+ CRI only.
- EDM, available in 10L-20L.
- 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.
- 347V requires DM1 driver; not available with Controls, EMR, DTS, GTD or F.
- Not available with DMX or Controls, or EMR options.
- IC available up to 15L; not available with Controls options.
- Housing options (except Fuse, BAA/TAA) not available in combination.
- DTS available with DM1, DM01, or DALI. Not available with NXE.
- 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	✓	✓	✓	-	-	✓	✓	✓ <sup>1</sup>		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

PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
06L	600	Lensed Wall Wash	846	7.8	108
10L	1000	Lensed Wall Wash	1361	11.9	114
15L	1500	Lensed Wall Wash	1970	18.6	106
20L	2000	Lensed Wall Wash	2242	23.5	95

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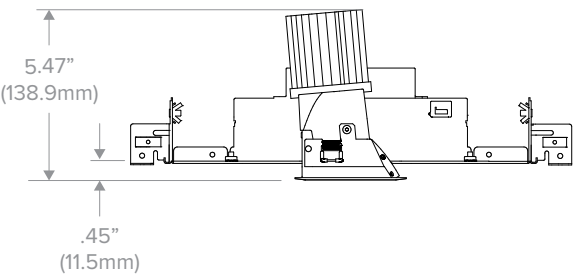
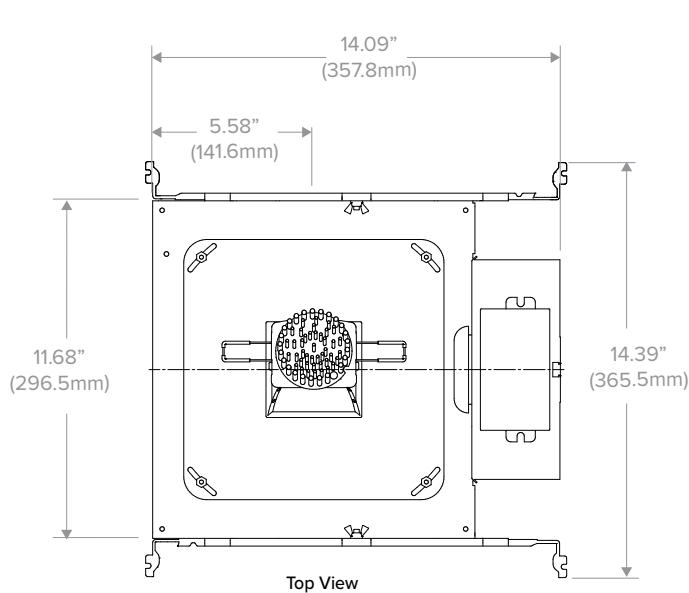
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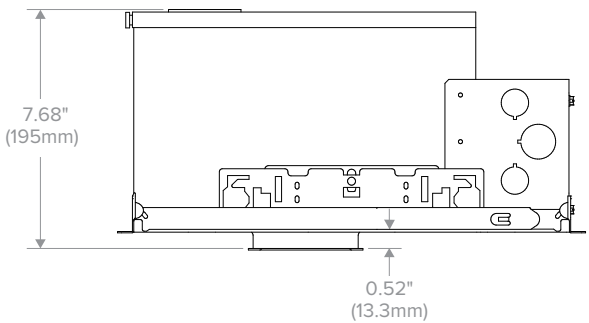
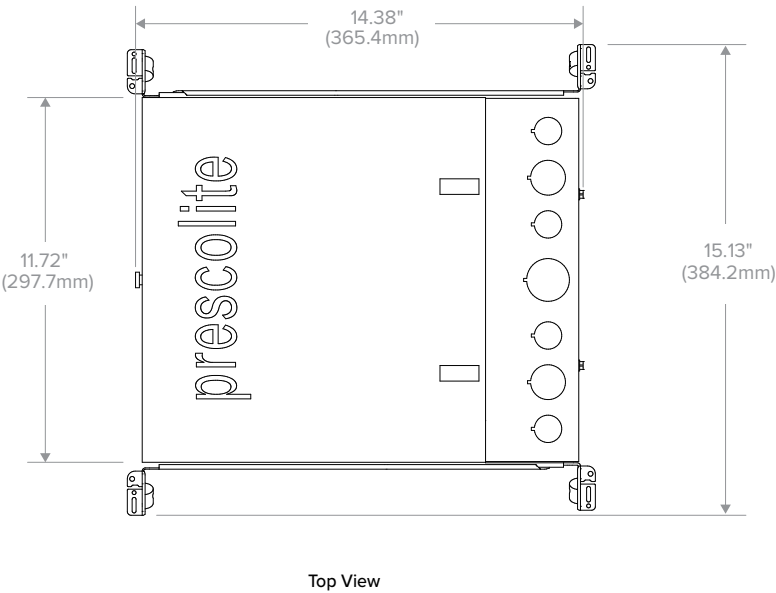
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DIMENSIONS



Dimensional Data		
Aperture		2.88" SQ. (73.2mm)
Flange	Standard	3.62" SQ. (91.9mm)
	Flush Mount	3.62" SQ. (91.9mm)
Ceiling Cutout	Standard	3.31" SQ. (84.1mm)
	Flush Mount	3.94" SQ (100.1mm)
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

LTR-3SQW Lens-H New Construction



Dimensional Data		
Aperture		2.88" SQ. (73.2mm)
Flange	Standard	3.62" SQ. (91.9mm)
	Flush Mount	3.62" SQ. (91.9mm)
Ceiling Cutout	Standard	3.31" SQ. (84.1mm)
	Flush Mount	3.94" SQ (100.1mm)
Ceiling Thickness		0.50" to 1.25" (12.7mm to 31.8mm)

LTR-3SQW-H IC/CP

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## PHOTOMETRY

### LTR-3SQD-H-ML20L-DM1 / LTR-3SQW-T-ML35K8LWW-S

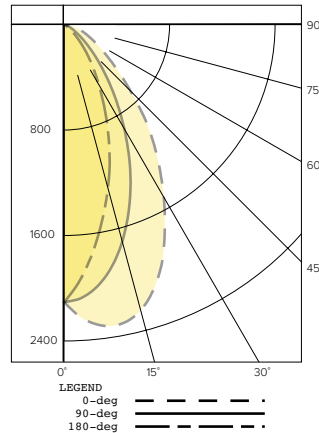
#### LUMINAIRE DATA

Test No.	19.00982
Description	3" Lensed Wall-Wash; 2000lm 3500K, 80 CRI
Delivered Lumens	2242
Watts	23.5W
Efficacy	95.6
Mounting	Recessed

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1707	76.1
0-60	2150	95.9
0-90	2242	100.0
0-180	2242	100.0

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

Degree	Candela
0	2114
5	2274
15	2250
25	1803
35	1233
45	708
55	367
65	194
75	85
85	0
90	0

#### LUMINANCE DATA\*

Vertical Angle	Average
45°	79596
55°	37884
65°	15593
75°	4129
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

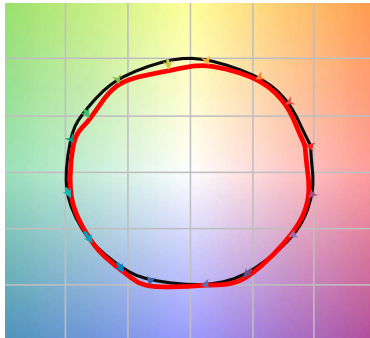
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## TM-30 DATA

COLOR VECTOR GRAPHIC  
3500K, 90 CRI



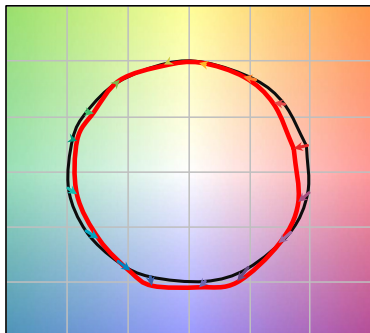
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
3500K, 90 CRI



TEST RESULTS - 3500K		
Value	80+ CRI	90+ CRI
R <sub>f</sub>	84	88
R <sub>g</sub>	95	95
CCT (K)	3411	3419
D <sub>uv</sub>	0.0015	0.0042
x	0.4120	0.4147
y	0.3974	0.4052
CIE R <sub>a</sub>	84	93
CIE R <sub>g</sub>	11	62

COLOR VECTOR GRAPHIC  
3500K, 80 CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC  
3500K, 80 CRI



## 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](http://currentlighting.com/prescolite).

### DMX

See instruction sheet on [currentlighting.com/prescolite](http://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](http://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.