# prescolite

# LTR-6SQD (SH)
## LITEISTRY 6" SQUARE
## NON-CONDUCTIVE SHOWER DOWNLIGHT

### LITEISTRY

## FEATURES

- 6" architectural LED downlight delivering 600 − 4000 lm
- Non-conductive dead-front trim with four regressed lens options
- Suitable for wet locations, covered ceiling
- IP65 rated (room side)
- NSF2 Splash/Non-Food Zone certified
- Anti-microbial finish, optional
- 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

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

NSF    IP65

## CONTROLS TECHNOLOGY

NX WIRELESS    NX WIRED

### SERVICE PROGRAMS

tradeSELECT    QS10

| 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 (3.8) |
| 20L - 30L | 14.56 (370) | 14.36 (365) | 6.78 (172) | 8.7 (3.9) |
| 35L - 40L | 14.56 (370) | 14.36 (365) | 7.96 (202) | 9.3 (4.2) |

See DIMENSIONS section for complete details

## SPECIFICATIONS

### CONSTRUCTION
- New Construction (non-IC) applications
- 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
- Durable, non-conductive trim with 1/2" regressed lens
- Lens options include acrylic, polycarbonate, or tempered glass micro-prism, and clear acrylic
- Smooth room side lens surface for easy wipe down
- Available in white, black, or anti-microbial white trim color

### 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

### ELECTRICAL (CONTINUED)
- 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 1/2" 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
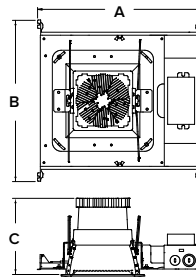
### CERTIFICATIONS
- cCSAus certified to UL 1598
- IP65 rated (room side) when properly installed per installation instructions
- NSF2 Splash/Non-Food Zone certified
- Suitable for wet locations, covered ceiling. EMR: Suitable for damp locations.

### CERTIFICATIONS (CONTINUED)
- 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 | 600-4000 |
| Wattage Range | 8-52 |
| Efficacy Range (LPW) | 57-70* |
| Reported Life (Hours) | L90 / >55,000 |
| Input Current (mA) | 67-433 (120V) |

*Based on 35K, 80 CRI

## Current

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**LTR-6SQD_SH_R06**

# prescolite

# LTR-6SQD (SH)
## LITEISTRY 6" SQUARE
## NON-CONDUCTIVE SHOWER DOWNLIGHT

Gray Shading = Service Program    **tradeSELECT**    **QS10** Limit of 150 Luminaries

## ORDERING GUIDE

**Example:** LTR–6SQD–H–SL10L–DM1–LTR–6SQD–T–SHSL35K8-WTAML

CATALOG #

## HOUSING

| LTR-6SQD-H | – | | | – | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Aperture/Shape/Function** | | **Lumen Package** | **Lumen Output** | | **Driver Options** | **Control Options** | | **Voltage** | **Housing Options** |
| **LTR-6SQD-H** 6" Square Downlight New Construction Housing | | **SL** Standard Lumen | **06L** 600 | | **DM1** 0-10V Dimming to 1% | **NX Lighting Controls** | | *Standard 120-277V* | **CP** Chicago Plenum [1,8] |
| | | | **10L** 1000 | | **DM01** 0-10V Dimming to < 1% | **Networked Wireless** | | **34** 347V [6] | **IC** IC Rated [1,9] |
| | | | **15L** 1500 | | | **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] |
| | | **ML** Medium Lumen | **20L** 2000 | | **DMX** DMX with RDM dimming to < 0.1% [3] | | | | |
| | | | **25L** 2500 | | **DALI** DALI Dimming to 1% | | | | **DTS** Device Transfer Switch with Dimming Bypass [1,7] |
| | | | **30L** 3000 | | **EDM** Lutron Hi-Lume EcoSystem Dimming to 1% [3] | **Networked Wired** | | | **GTD** Generator Transfer Device [1,10] |
| | | **HL** High Lumen | **35L** 3500 | | | **NXE** NX Wired Dual RJ45 SmartPORTS, without Sensor [4] | | | **F** Fuse [1] |
| | | | **40L** 4000 | | | | | | **BAA** Buy American Act (FAR 52.225-9) Compliant |
| | | | | | | | | | **TAA** Trade Agreements Act (FAR 52.225-11) Compliant |

## TRIM

| LTR-6SQD-T | – | | | | | – |
|---|---|---|---|---|---|---|
| **Aperture/Shape/Function** | | **Trim Style** | **Lumen Package** | **CCT** | **CRI** | |
| **LTR-6SQD-T** 6" Square Downlight Light Engine/Trim Assembly | | **SH** Non-Conductive Shower Trim | **SL** Standard Lumen | **27K** 2700K | **8** 80+CRI | |
| | | | **ML** Medium Lumen | **30K** 3000K | **9** 90+CRI | |
| | | | **HL** High Lumen | **35K** 3500K | | |
| | | | | **40K** 4000K | | |
| | | | | **50K** 5000K [2] | | |

## TRIM CONTINUED

| Trim Color | | Lens Options | | Options | | – |
|---|---|---|---|---|---|---|
| **WT** | White Trim and Flange | **AML** | Acrylic, Micro-prism | **AM** | Anitmicrobial [5] | |
| **BT** | Black Trim and Flange | **PML** | Polycarbonate, Micro-prism | **BAA** | Buy American Act (FAR 52.225-9) Compliant | |
| | | **GML** | Tempered glass, Micro-prism | **TAA** | Trade Agreements Act (FAR 52.225-11) Compliant | |
| | | **ACL** | Acrylic, Clear | | | |

### 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 | |
| ☐ **LPS Series** | LightPower Micro-Inverter, 20VA-55VA | |

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 DM1 driver option.
5. AM available with White (WT) only. Consult factory for other colors.
6. 347V available for 06L-30L; requires DM1 driver; not available with Controls, EMR, DTS, GTD or F.
7. DTS available with DM1, DM01, or DALI. Not available with NXE.
8. CP available up to 20L; not available with DMX, Controls or EM options.
9. IC available up to 20L; not available with Controls options.
10. Not available with NXE.

# Current ⊙

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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

**LTR-6SQD_SH_R06**

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# LTR-6SQD (SH)
## LITEISTRY 6" SQUARE
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## PERFORMANCE DATA TABLE

Performance data provided below is for 3500K, 80 CRI.

| Lumen Package | Nominal Lumens | Distribution | Delivered Lumens | Watts | LPW |
|---|---|---|---|---|---|
| 06L | 600 | Acrylic Micro-prism | 486 | 7.8 | 62 |
| | | Polycarbonate Micro-prism | 465 | 7.8 | 60 |
| | | Tempered Glass Micro-prism | 482 | 7.8 | 62 |
| | | Acrylic Clear | 484 | 7.8 | 62 |
| 10L | 1000 | Acrylic Micro-prism | 776 | 12.0 | 65 |
| | | Polycarbonate Micro-prism | 742 | 12.0 | 62 |
| | | Tempered Glass Micro-prism | 771 | 12.0 | 64 |
| | | Acrylic Clear | 774 | 12.0 | 64 |
| 15L | 1500 | Acrylic Micro-prism | 1115 | 18.6 | 60 |
| | | Polycarbonate Micro-prism | 1067 | 18.6 | 57 |
| | | Tempered Glass Micro-prism | 1107 | 18.6 | 60 |
| | | Acrylic Clear | 1112 | 18.6 | 60 |
| 20L | 2000 | Acrylic Micro-prism | 1533 | 22.0 | 70 |
| | | Polycarbonate Micro-prism | 1466 | 22.0 | 67 |
| | | Tempered Glass Micro-prism | 1522 | 22.0 | 69 |
| | | Acrylic Clear | 1528 | 22.0 | 70 |
| 25L | 2500 | Acrylic Micro-prism | 1864 | 27.8 | 67 |
| | | Polycarbonate Micro-prism | 1782 | 27.8 | 64 |
| | | Tempered Glass Micro-prism | 1850 | 27.8 | 67 |
| | | Acrylic Clear | 1857 | 27.8 | 67 |
| 30L | 3000 | Acrylic Micro-prism | 2221 | 34.6 | 64 |
| | | Polycarbonate Micro-prism | 2124 | 34.6 | 61 |
| | | Tempered Glass Micro-prism | 2205 | 34.6 | 64 |
| | | Acrylic Clear | 2213 | 34.6 | 64 |
| 35L | 3500 | Acrylic Micro-prism | 2698 | 42.9 | 63 |
| | | Polycarbonate Micro-prism | 2580 | 42.9 | 60 |
| | | Tempered Glass Micro-prism | 2678 | 42.9 | 62 |
| | | Acrylic Clear | 2689 | 42.9 | 63 |
| 40L | 4000 | Acrylic Micro-prism | 3084 | 51.5 | 60 |
| | | Polycarbonate Micro-prism | 2949 | 51.5 | 57 |
| | | Tempered Glass Micro-prism | 3061 | 51.5 | 59 |
| | | Acrylic Clear | 3074 | 51.5 | 60 |

## Current

LTR-6SQD_SH_R06

# LTR-6SQD (SH)

## LITEISTRY 6" SQUARE
## NON-CONDUCTIVE SHOWER DOWNLIGHT

## DIMENSIONS



**Top View**

14.09"
357.8mm

11.68"
296.5mm

14.36"
364.6mm

14.56"
369.9mm

"A"

.43"
11mm
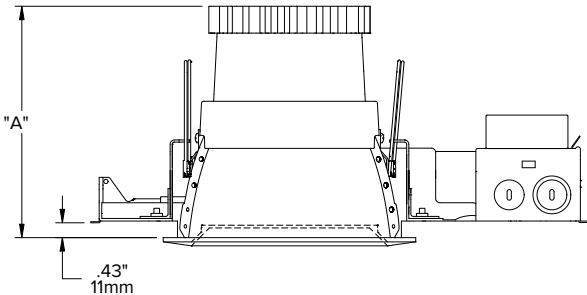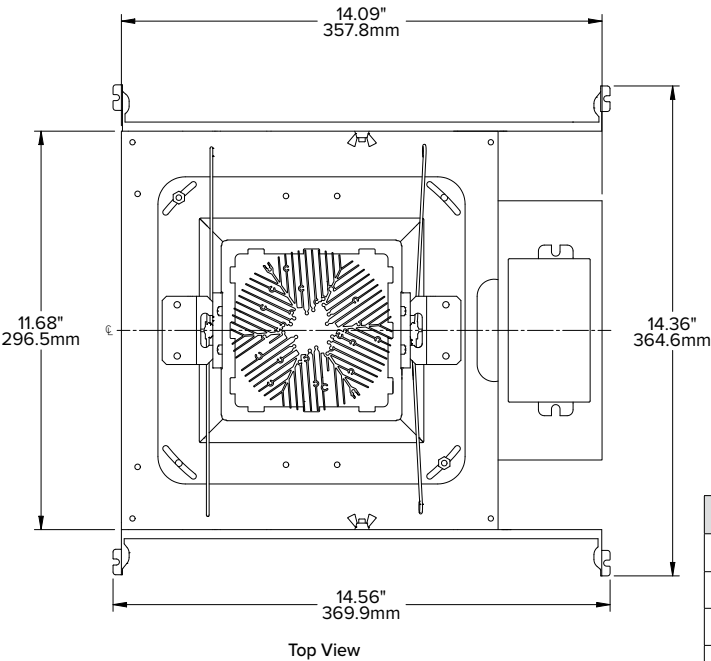
LTR-6SQD-H-SH

| Dimensional Data | | |
|---|---|---|
| Aperture | | 6.00" (152.4mm) SQ. |
| Flange | Standard | 7.40" (187.9mm) SQ. |
| Ceiling Cutout | Standard | 6.69" (169.9mm) SQ. |
| Ceiling Thickness | | 0.50" to 1.25" (12.7mm to 31.8mm) |

| Lumen Package | "A" |
|---|---|
| 06L-15L | 6.00" (152.4mm) |
| 20L-30L | 6.78" (172.2mm) |
| 35L-40L | 7.96" (202.2mm) |

# LTR-6SQD (SH)

LITEISTRY 6" SQUARE
NON-CONDUCTIVE SHOWER DOWNLIGHT

## PHOTOMETRY

### LTR-6SQD-H-ML20L-DM1 / LTR-6SQD-T-SHML35K8-WTAML

#### LUMINAIRE DATA

| Test No. | 20.01195 |
|---|---|
| Description | 2000 lm, Acrylic Micro-prism lens, 3500K, 80 CRI |
| Delivered Lumens | 1533 |
| Watts | 22.0W |
| Efficacy | 69.6 |
| Mounting | Recessed |
| Spacing Criterion | 0.6 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 1394 | 90.9 |
| 0-60 | 1510 | 98.5 |
| 0-90 | 1533 | 100.0 |
| 0-180 | 1533 | 100.0 |

#### POLAR GRAPH
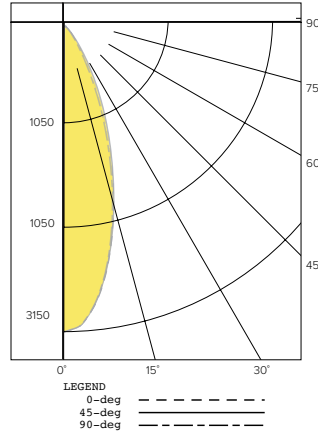


#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|---|---|---|---|
| 0 | 3054 | 3054 | 3054 |
| 5 | 2897 | 2895 | 2892 |
| 15 | 1917 | 1925 | 1883 |
| 25 | 869 | 953 | 824 |
| 35 | 281 | 348 | 256 |
| 45 | 98 | 110 | 89 |
| 55 | 36 | 41 | 33 |
| 65 | 15 | 16 | 14 |
| 75 | 6 | 6 | 6 |
| 85 | 1 | 1 | 1 |
| 90 | 0 | 0 | 0 |

### LTR-6SQD-H-ML20L-DM1 / LTR-6SQD-T-SHML35K8-WTPML

#### LUMINAIRE DATA

| Test No. | 20.01199 |
|---|---|
| Description | 2000 lm, Polycarbonate Micro-prism lens, 3500K, 80 CRI |
| Delivered Lumens | 1466 |
| Watts | 22.0W |
| Efficacy | 66.7 |
| Mounting | Recessed |
| Spacing Criterion | 0.6 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 1334 | 90.9 |
| 0-60 | 1445 | 98.5 |
| 0-90 | 1466 | 100.0 |
| 0-180 | 1466 | 100.0 |

#### POLAR GRAPH
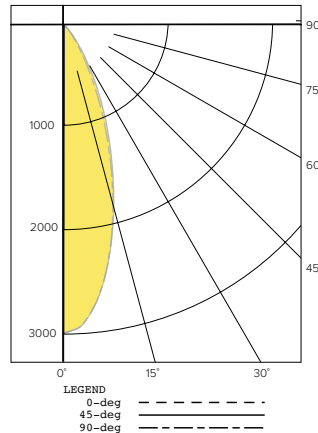


#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|---|---|---|---|
| 0 | 2920 | 2920 | 2920 |
| 5 | 2766 | 2767 | 2768 |
| 15 | 1814 | 1841 | 1820 |
| 25 | 805 | 910 | 815 |
| 35 | 252 | 333 | 264 |
| 45 | 89 | 106 | 92 |
| 55 | 32 | 39 | 34 |
| 65 | 13 | 15 | 14 |
| 75 | 6 | 6 | 6 |
| 85 | 1 | 1 | 0 |
| 90 | 0 | 0 | 0 |

### LTR-6SQD-H-ML20L-DM1 / LTR-6SQD-T-SHML35K8-WTGML

#### LUMINAIRE DATA

| Test No. | 20.01200 |
|---|---|
| Description | 2000 lm, Tempered Glass Micro-prism lens, 3500K, 80 CRI |
| Delivered Lumens | 1522 |
| Watts | 22.0W |
| Efficacy | 69.3 |
| Mounting | Recessed |
| Spacing Criterion | 0.6 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 1387 | 91.2 |
| 0-60 | 1499 | 98.5 |
| 0-90 | 1522 | 100.0 |
| 0-180 | 1522 | 100.0 |

#### POLAR GRAPH
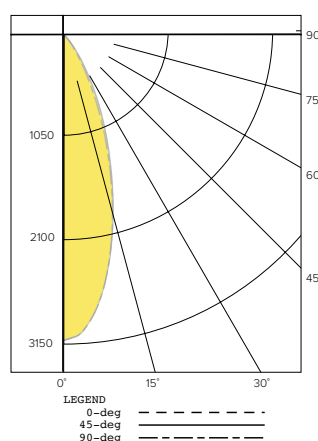


#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|---|---|---|---|
| 0 | 3042 | 3042 | 3042 |
| 5 | 2879 | 2883 | 2888 |
| 15 | 1885 | 1919 | 1904 |
| 25 | 828 | 945 | 858 |
| 35 | 253 | 344 | 277 |
| 45 | 87 | 108 | 94 |
| 55 | 31 | 39 | 35 |
| 65 | 13 | 15 | 15 |
| 75 | 6 | 6 | 6 |
| 85 | 1 | 1 | 1 |
| 90 | 0 | 0 | 0 |

**LTR-6SQD_SH_R06**

# prescolite

# LTR-6SQD (SH)
## LITEISTRY 6" SQUARE
## NON-CONDUCTIVE SHOWER DOWNLIGHT

## PHOTOMETRY CONTINUED
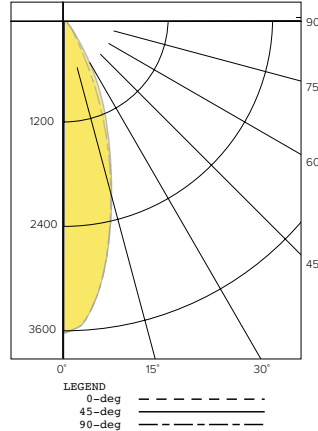
### LTR-6SQD-H-ML20L-DM1 / LTR-6SQD-T-SHML35K8-WTACL

#### LUMINAIRE DATA

| Test No. | 20.01201 |
|---|---|
| Description | 2000 lm, Acrylic Clear lens, 3500K, 80 CRI |
| Delivered Lumens | 1528 |
| Watts | 22.0W |
| Efficacy | 69.6 |
| Mounting | Recessed |
| Spacing Criterion | 0.6 |

#### ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-40 | 1436 | 93.9 |
| 0-60 | 1517 | 99.3 |
| 0-90 | 1528 | 100.0 |
| 0-180 | 1528 | 100.0 |

#### POLAR GRAPH



LEGEND
0–deg
45–deg
90–deg

#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|---|---|---|---|
| 0 | 3554 | 3554 | 3554 |
| 5 | 3325 | 3324 | 3324 |
| 15 | 2050 | 2070 | 2033 |
| 25 | 808 | 1024 | 788 |
| 35 | 208 | 300 | 205 |
| 45 | 74 | 82 | 72 |
| 55 | 15 | 23 | 15 |
| 65 | 6 | 6 | 6 |
| 75 | 3 | 3 | 3 |
| 85 | 0 | 1 | 0 |
| 90 | 0 | 0 | 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.
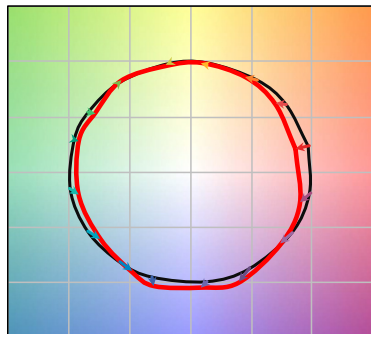
## TM-30 DATA

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



Reference Illuminant    Test Source
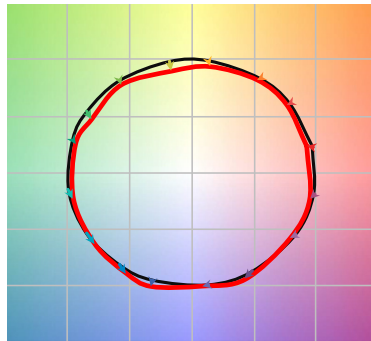
#### COLOR DISTORTION GRAPHIC
#### 3500K, 90 CRI



| 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



# Current

# prescolite

# LTR-6SQD (SH)
LITEISTRY 6" SQUARE
NON-CONDUCTIVE SHOWER DOWNLIGHT

## 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-ite 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.

# Current ⊙

LTR-6SQD_SH_R06