

# LTR-3SQD (SH)

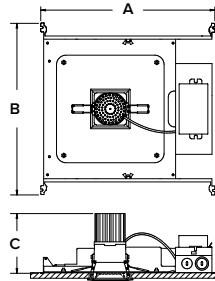
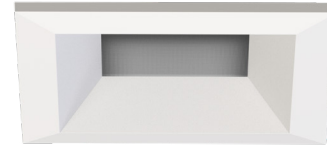
LITEISTRY 3" SQUARE  
NON-CONDUCTIVE SHOWER DOWNLIGHT

|            |           |
|------------|-----------|
| DATE:      | LOCATION: |
| TYPE:      | PROJECT:  |
| CATALOG #: |           |

LITEISTRY™

## FEATURES

- 3" architectural LED downlight delivering 600 – 1500 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



| 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)           | 5 (127)                | 71 (3.2)        |

See DIMENSIONS section for complete details

## CONTROLS TECHNOLOGY



## 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

- 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 (COB) 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 1/2" or 3/4" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine serviceable above or below ceiling. Top access required for driver, Controls, EMR, GTD, or DTS component replacement.

### CERTIFICATIONS

- cCSAus certified to UL 1598
- IP65 rated (room side) when properly installed per installation instructions
- NSF2 Splash/Non-Food Zone certified

### CERTIFICATIONS (CONTINUED)

- 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           | 600–1500      |
| Wattage Range         | 8–19          |
| Efficacy Range (LPW)  | 40-42*        |
| Reported Life (Hours) | L90 / >55,000 |
| Input Current (mA)    | 67-158 (120V) |

\*Based on 35K, 80 CRI



LTR-3SQD (SH)

LITEISTRY 3" SQUARE  
NON-CONDUCTIVE SHOWER DOWNLIGHT

ORDERING GUIDE

DATE:

LOCATION:

TYPE:

PROJECT:

CATALOG #:

Example: LTR-3SQD-H-SL10L-DM1-LTR-3SQD-T-SH35K8-WTAML

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 New Construction Housing | SL            | Standard Lumen                                      | 06L          | 600  | DM1            | 0-10V Dimming to 1%            | <u>NX Lighting Controls</u> |   | Standard 120-277V | 34 | 347V <sup>5</sup> | CP  | Chicago Plenum <sup>6,8</sup>   |
|                         |  |               |   | 10L          | 1000 | DM01           | 0-10V Dimming to < 1%          | <u>Networked Wireless</u>   |   |                   |    |                   | IC  | IC Rated <sup>6,9</sup>   |
|                         |  |               |   | 15L          | 1500 | DMX            | DMX with RDM dimming to < 0.1% | NXW                         | NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor <sup>3</sup> |                   |    |                   | EMR | 7W Emergency Battery Pack (CEC Title 20 Compliant) with remote test switch and indicator light <sup>6</sup> |
|                         |  |               |   |              |      | DALI           | DALI Dimming to 1%             |                             |   |                   |    |                   |     |   |
|                         |  | EDM           | Lutron Hi-Lume EcoSystem Dimming to 1% <sup>2</sup> |              |      |                |                                | GTD                         | Generator Transfer Device <sup>6,10</sup>   |                   |    |                   |     |   |
|                         |  |               |   |              |      |                |                                |                             |   |                   |    |                   | F   | Fuse <sup>6</sup>   |
|                         |  |               |   |              |      |                |                                |                             |   |                   |    |                   | BAA | Buy American Act (FAR 52.225-9) Compliant   |
|                         |  |               |   |              |      |                |                                |                             |   |                   |    |                   | TAA | Trade Agreements Act (FAR 52.225-11) Compliant  |

TRIM

| LTR-3SQD-T              |  |            |                            |               |                |     |                    |     |        |
|-------------------------|--|------------|----------------------------|---------------|----------------|-----|--------------------|-----|--------|
| Aperture/Shape/Function |  | Trim Style |                            | Lumen Package |                | CCT |                    | CRI |        |
| LTR-3SQD-T              | 3" Square Downlight Light Engine/Trim Assembly | SH         | Non-Conductive Shower Trim | SL            | Standard Lumen | 27K | 2700K              | 8   | 80+CRI |
|                         |  |            |                            |               |                | 30K | 3000K              | 9   | 90+CRI |
|                         |  |            |                            |               |                | 35K | 3500K              |     |        |
|                         |  |            |                            |               |                | 40K | 4000K              |     |        |
|                         |  |            |                            |               |                | 50K | 5000K <sup>1</sup> |     |        |
|                         |  |            |                            |               |                |     |                    |     |        |
|                         |  |            |                            |               |                |     |                    |     |        |

TRIM CONTINUED

| Trim Color |                       | Lens Options |                             | Options |  |
|------------|-----------------------|--------------|-----------------------------|---------|--|
| WT         | White Trim and Flange | AML          | Acrylic, Micro-prism        | AM      | Antimicrobial <sup>4</sup>                     |
| 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                         |  |
|-------------------------------------|--|
| <input type="checkbox"/> B24        | Set of two (2) 24" bar hangers for T-bar ceilings          |
| <input type="checkbox"/> B6         | Set of two bar hangers for ceiling joist up to 24" centers |
| <input type="checkbox"/> LiteGear   | LiteGear® Inverter, 125VA-250VA                            |
| <input type="checkbox"/> LPS Series | LightPower Micro-Inverter, 20VA-55VA                       |

- Notes:
- 1

5000K is available in 80+ CRI only.
- 2

EDM available in 10L-15L
- 3

NX requires DM1 driver option.
- 4

AM available with White (WT) only. Consult factory for other colors.
- 5

347V requires DM1 driver; not available with Controls, EMR, DTS, GTD or F.
- 6

Housing options (except Fuse, BAA/TAA) not available in combination
- 7

DTS available with DM1, DM01, or DALI. Not available with NXE.
- 8

CP not available with DMX, Controls, or EMR options.
- 9

IC not available with Controls options.
- 10

Not available with NXE.

LTR-3SQD (SH)

LITEISTRY 3" SQUARE  
NON-CONDUCTIVE SHOWER DOWNLIGHT

NX LIGHTING CONTROLS

DATE:



LOCATION:

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CATALOG #:



| 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.

| Lumen Package | Nominal Lumens | Lens Description           | Delivered Lumens | Watts | LPW |
|---------------|----------------|----------------------------|------------------|-------|-----|
| 06L           | 600            | Acrylic Micro-prism        | 312              | 7.8   | 40  |
|               |                | Polycarbonate Micro-prism  | 301              | 7.8   | 39  |
|               |                | Tempered Glass Micro-prism | 312              | 7.8   | 40  |
|               |                | Acrylic Clear              | 315              | 7.8   | 40  |
| 10L           | 1000           | Acrylic Micro-prism        | 502              | 12.0  | 42  |
|               |                | Polycarbonate Micro-prism  | 485              | 12.0  | 40  |
|               |                | Tempered Glass Micro-prism | 502              | 12.0  | 42  |
|               |                | Acrylic Clear              | 507              | 12.0  | 42  |
| 15L           | 1500           | Acrylic Micro-prism        | 726              | 17.6  | 41  |
|               |                | Polycarbonate Micro-prism  | 702              | 17.5  | 40  |
|               |                | Tempered Glass Micro-prism | 727              | 17.5  | 41  |
|               |                | Acrylic Clear              | 734              | 17.5  | 42  |

LTR-3SQD (SH)

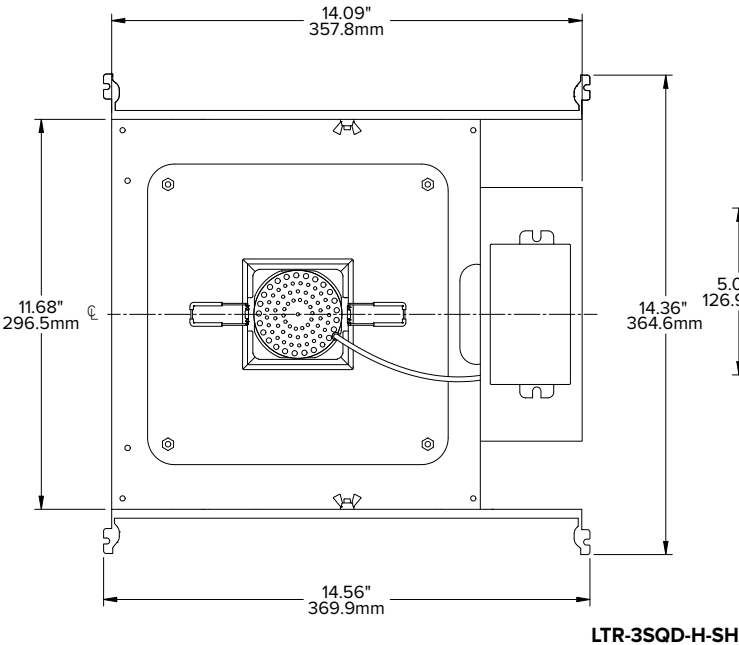
LITEISTRY 3" SQUARE  
NON-CONDUCTIVE SHOWER DOWNLIGHT

DIMENSIONS

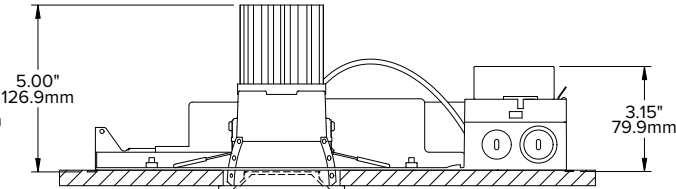
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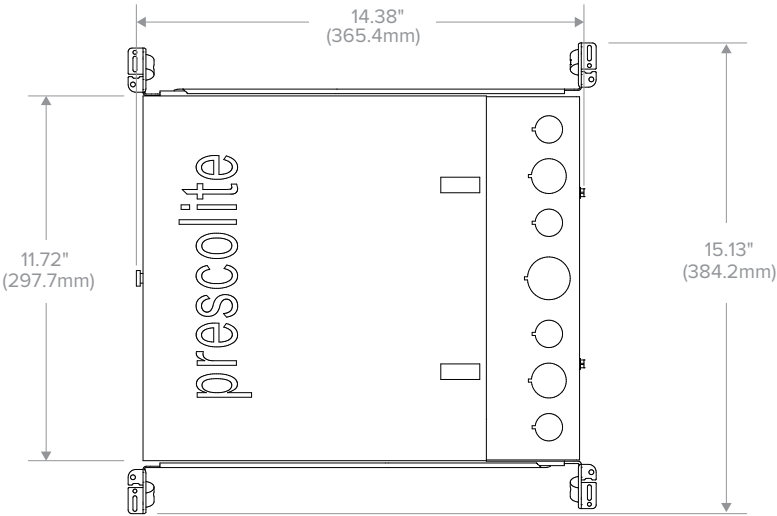
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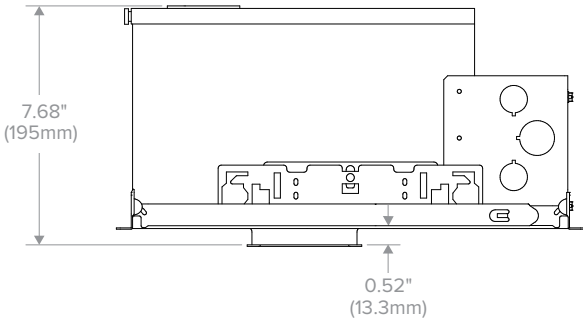
LTR-3SQD-H-SH



| Dimensional Data  |          |                                      |
|-------------------|----------|--------------------------------------|
| Aperture          |          | 2.88" SQ. (73.2mm)                   |
| Flange            | Standard | 3.77" SQ. (95.7mm)                   |
| Ceiling Cutout    | Standard | 3.31" SQ. (84.1mm)                   |
| Ceiling Thickness |          | 0.50" to 1.25"<br>(12.7mm to 31.8mm) |



Top View



| Dimensional Data  |          |                                      |
|-------------------|----------|--------------------------------------|
| Aperture          |          | 2.88" SQ. (73.2mm)                   |
| Flange            | Standard | 3.77" SQ. (95.7mm)                   |
| Ceiling Cutout    | Standard | 3.31" SQ. (84.1mm)                   |
| Ceiling Thickness |          | 0.50" to 1.25"<br>(12.7mm to 31.8mm) |

LTR-3SQD-H-SH (IC/CP)

# LTR-3SQD (SH)

LITEISTRY 3" SQUARE  
NON-CONDUCTIVE SHOWER DOWNLIGHT

## PHOTOMETRY

### LTR-3SQD-H-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTAML

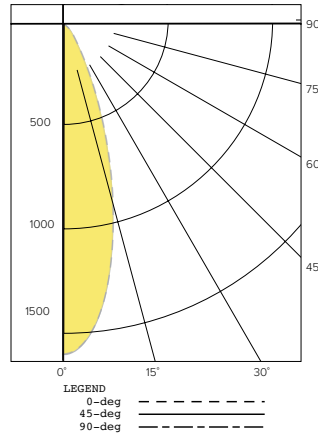
#### LUMINAIRE DATA

|                   |  |
|-------------------|--|
| Test No.          | 20.01593   |
| Description       | 1500 lm, Acrylic Micro-prism lens, 3500K, 80 CRI |
| Delivered Lumens  | 727  |
| Watts             | 17.6W  |
| Efficacy          | 41.4   |
| Mounting          | Recessed   |
| Spacing Criterion | 0.5  |

#### ZONAL LUMEN SUMMARY

| Zone  | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40  | 643    | 88.6        |
| 0-60  | 708    | 97.5        |
| 0-90  | 727    | 100.0       |
| 0-180 | 727    | 100.0       |

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0      | 1697        | 1697         | 1697         |
| 5      | 1585        | 1587         | 1586         |
| 15     | 916         | 953          | 933          |
| 25     | 320         | 387          | 343          |
| 35     | 102         | 127          | 117          |
| 45     | 47          | 56           | 57           |
| 55     | 20          | 28           | 23           |
| 65     | 8           | 12           | 9            |
| 75     | 4           | 5            | 4            |
| 85     | 2           | 2            | 2            |
| 90     | 0           | 0            | 0            |

### LTR-3SQD-H-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTPML

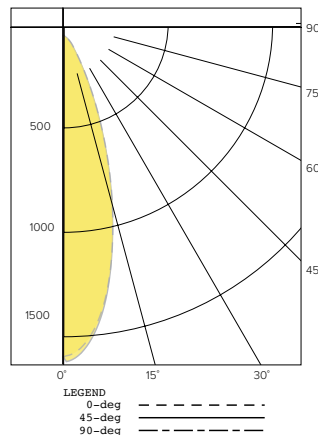
#### LUMINAIRE DATA

|                   |  |
|-------------------|--|
| Test No.          | 20.01596   |
| Description       | 1500 lm, Polycarbonate Micro-prism lens, 3500K, 80 CRI |
| Delivered Lumens  | 702  |
| Watts             | 17.5W  |
| Efficacy          | 40   |
| Mounting          | Recessed   |
| Spacing Criterion | 0.5  |

#### ZONAL LUMEN SUMMARY

| Zone  | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40  | 622    | 88.6        |
| 0-60  | 685    | 97.6        |
| 0-90  | 702    | 100.0       |
| 0-180 | 702    | 100.0       |

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0      | 1614        | 1614         | 1614         |
| 5      | 1526        | 1508         | 1510         |
| 15     | 876         | 919          | 909          |
| 25     | 307         | 379          | 341          |
| 35     | 98          | 125          | 114          |
| 45     | 45          | 54           | 55           |
| 55     | 19          | 27           | 22           |
| 65     | 7           | 11           | 8            |
| 75     | 4           | 5            | 4            |
| 85     | 1           | 2            | 2            |
| 90     | 1           | 2            | 1            |

### LTR-3SQD-H-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTGML

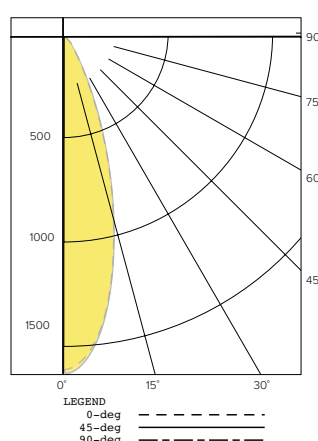
#### LUMINAIRE DATA

|                   |   |
|-------------------|---|
| Test No.          | 20.01597  |
| Description       | 1500 lm, Tempered Glass Micro-prism lens, 3500K, 80 CRI |
| Delivered Lumens  | 727   |
| Watts             | 17.5W   |
| Efficacy          | 41.5  |
| Mounting          | Recessed  |
| Spacing Criterion | 0.5   |

#### ZONAL LUMEN SUMMARY

| Zone  | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40  | 644    | 88.6        |
| 0-60  | 709    | 97.5        |
| 0-90  | 727    | 100.0       |
| 0-180 | 727    | 100.0       |

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0      | 1687        | 1687         | 1687         |
| 5      | 1593        | 1576         | 1577         |
| 15     | 930         | 955          | 925          |
| 25     | 338         | 390          | 329          |
| 35     | 107         | 127          | 108          |
| 45     | 48          | 55           | 54           |
| 55     | 21          | 28           | 22           |
| 65     | 8           | 12           | 8            |
| 75     | 4           | 5            | 4            |
| 85     | 2           | 2            | 2            |
| 90     | 1           | 2            | 1            |

# LTR-3SQD (SH)

LITEISTRY 3" SQUARE  
NON-CONDUCTIVE SHOWER DOWNLIGHT

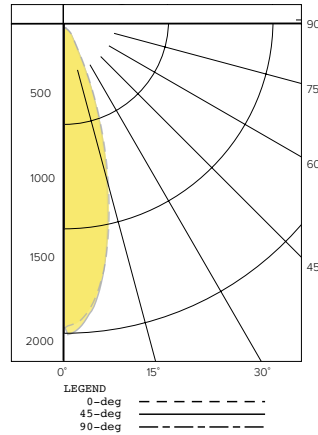
## PHOTOMETRY CONTINUED

### LTR-3SQD-H-SL15L-DM1 / LTR-3SQD-T-SHSL35K8-WTACL

#### LUMINAIRE DATA

|                   |  |
|-------------------|--|
| Test No.          | 20.01598                                   |
| Description       | 1500 lm, Acrylic Clear lens, 3500K, 80 CRI |
| Delivered Lumens  | 734  |
| Watts             | 17.5W                                      |
| Efficacy          | 41.9                                       |
| Mounting          | Recessed                                   |
| Spacing Criterion | 0.5  |

#### POLAR GRAPH



#### CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0      | 1966        | 1966         | 1966         |
| 5      | 1863        | 1830         | 1832         |
| 15     | 963         | 1049         | 1003         |
| 25     | 263         | 402          | 294          |
| 35     | 85          | 104          | 94           |
| 45     | 44          | 49           | 53           |
| 55     | 15          | 23           | 18           |
| 65     | 5           | 9            | 6            |
| 75     | 3           | 4            | 4            |
| 85     | 1           | 2            | 2            |
| 90     | 1           | 2            | 1            |

#### ZONAL LUMEN SUMMARY

| Zone  | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40  | 663    | 90.3        |
| 0-60  | 720    | 98.1        |
| 0-90  | 734    | 100.0       |
| 0-180 | 734    | 100.0       |

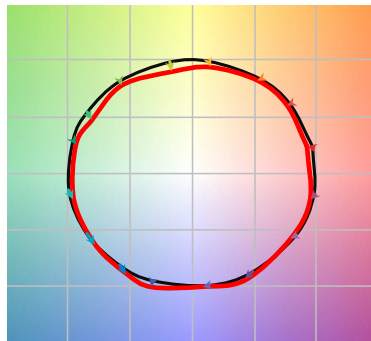
#### LUMEN MULTIPLIER

| 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



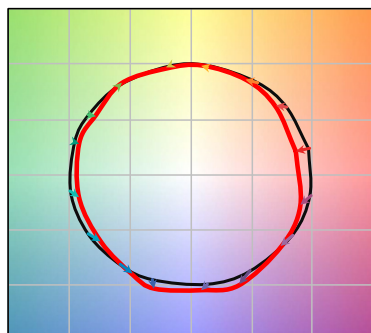
— Reference Illuminant — Test Source

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



| TEST RESULTS - 3500K |         |         |
|----------------------|---------|---------|
| Value                | 80+ CRI | 90+ CRI |
| R <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



# LTR-3SQD (SH)

LITEISTRY 3" 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](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.

|            |           |
|------------|-----------|
| DATE:      | LOCATION: |
| TYPE:      | PROJECT:  |
| CATALOG #: |           |