

LTR-3SQD SpectraSync

LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

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

FEATURES

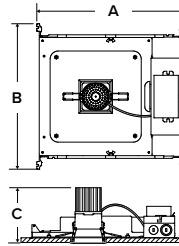
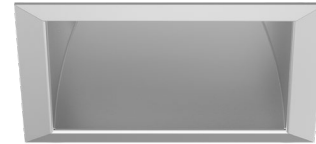
- 3" architectural LED downlight delivering 600 – 1300 lm
- Four beam distributions from 0.6 to 1.2 Spacing Criteria
- Quiet reflector appearance with 50° optical cutoff
- SpectraSync™ Color Tuning technology allows the flexibility to tailor CCT to aesthetic preferences
- Available in Dim to Warm (2200K-3000K) or Tunable White (2700K-5000K or 2700K-6500K), 90+ CRI
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- NX Lighting Controls wired and wireless controls capability available



CONTROLS TECHNOLOGY



LITEISTRY™



| Typical Dimensions and Weights | | | | |
|--------------------------------|------------------------|-----------------------|------------------------|-----------------|
| Lumen Package | "A" Length Inches (mm) | "B" Width Inches (mm) | "C" Height Inches (mm) | Weight lbs (kg) |
| 06L - 13L | 14.56 (370) | 14.39 (366) | 5 (127) | 7 (3.2) |

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- 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

- Visually pleasing 50° cutoff to source and source image
- The light distribution is free of distracting bright spots or pixelation and the perimeter has a smooth transition
- Optical grade silicone lens integral to light engine
- 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

- LED array with 3 SDCM color consistency
- Dim to Warm (2200K-3000K) or Tunable White (2700K-5000K or 2700K-6500K) options available
- 90+ CRI standard
- Long LED life: L70 at >60,000 hours (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0–10V dimming to 5%
- 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 standard LITEISTRY solutions

INSTALLATION

- Accommodates ceiling thickness up to 1.25"
- Universal adjustable mounting brackets also accept ½" EMT conduit or 1 ½" or ¾" lathing channel (by others) or Prescolite accessory bar hangers (B24 or B6)
- Light Engine fully serviceable from above or below the ceiling; 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 | 600-1300 |
| Wattage Range | 10-23 |
| Efficacy Range (LPW) | 52-59* |
| Reported Life (Hours) | L70 / >60,000 |
| Input Current (mA) | 83-192 (120V) |

*Based on Specular, 30K, 90 CRI

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LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

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-3SQD SpectraSync

LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

SPECTRASYN[™] COLOR TUNING TECHNOLOGY

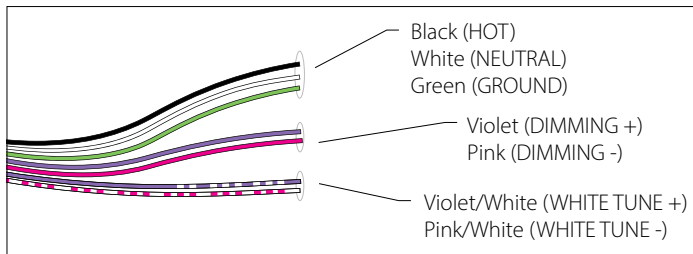
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync[™] Color Tuning Technologies.



| SPECTRASYN [™] COLOR TUNING TECHNOLOGY | | |
|---|----------------------------|--|
| Mode | Kelvin Range | Description |
| Dim to Warm | 2200K-3000K | Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed |
| Tunable White | 2700K-5000K 2700K-6500K | Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space |
| Scheduled White | 2700K-5000K 2700K-6500K | Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being |

SpectraSync Tunable White

Available in two options: 2750T (2700K–5000K) or 2765T (2700K–6500K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

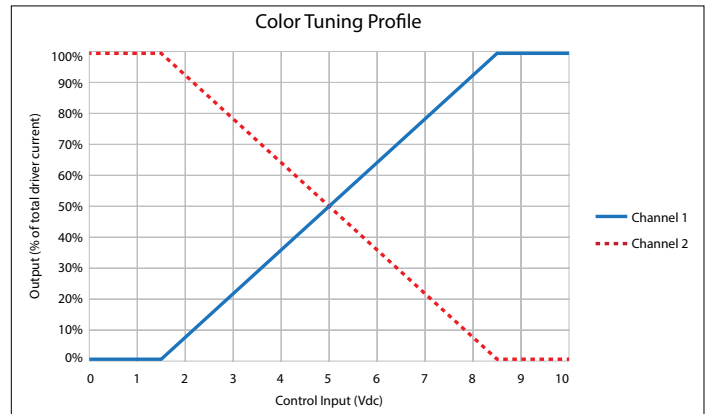


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

LTR-3SQD SpectraSync

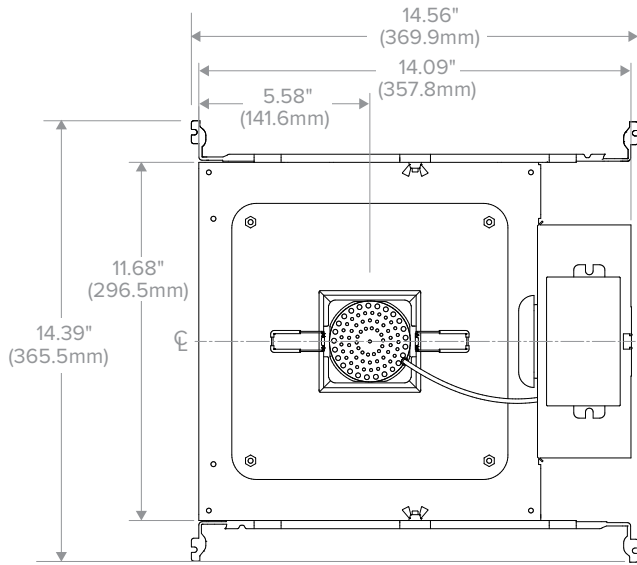
LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

DATE: _____ LOCATION: _____

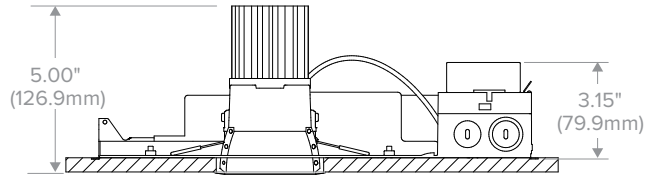
TYPE: _____ PROJECT: _____

CATALOG #: _____

DIMENSIONS

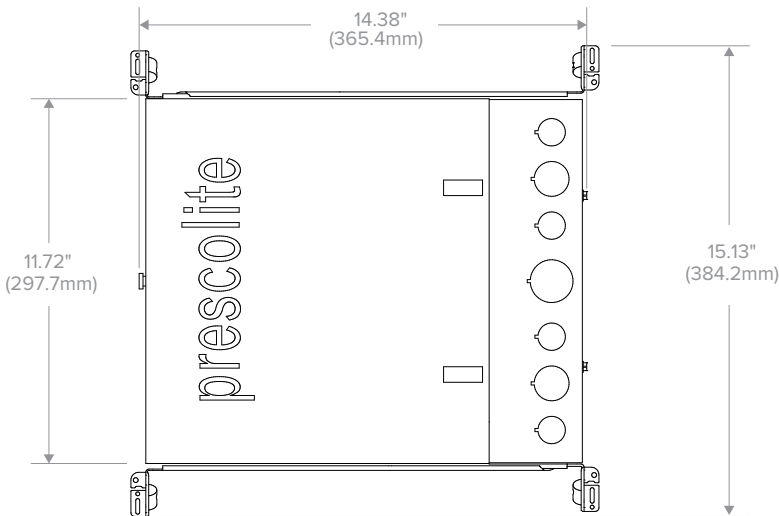


Top View

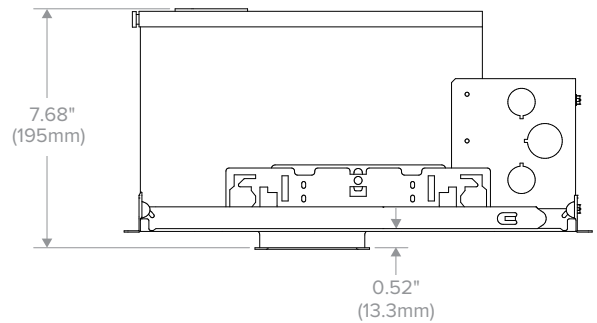


| Dimensional Data | | |
|-------------------|-------------|-----------------------------------|
| Aperture | | 2.88" SQ. (73.2mm) |
| Flange | Standard | 3.62" SQ. (91.9mm) |
| | Flush Mount | 3.62" SQ. (91.9mm) |
| Ceiling Cutout | Standard | 3.31" SQ. (84.1mm) |
| | Flush Mount | 3.94" SQ (100.1mm)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

LTR-3SQD-H New Construction



Top View



| 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-3SQD-H IC/CP

LTR-3SQD SpectraSync

LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

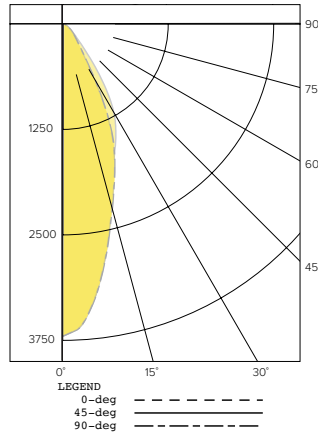
PHOTOMETRY

LTR-3SQD-H-SL13L-DMT / LTR-3SQD-T-SL2765T9NRS

LUMINAIRE DATA

| | |
|-------------------|--------------------------------|
| Test No. | R19.00953-21 |
| Description | 1300 lm, Narrow, 3000K, 90 CRI |
| Delivered Lumens | 1339 |
| Watts | 23.3W |
| Efficacy | 57.0 |
| Mounting | Recessed |
| Spacing Criterion | 0.6 |
| Beam Angle (FWHM) | 38 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0 | 2419 | 2419 | 2419 |
| 5 | 2245 | 2246 | 2250 |
| 15 | 1458 | 1430 | 1468 |
| 25 | 826 | 959 | 841 |
| 35 | 220 | 480 | 228 |
| 45 | 98 | 117 | 102 |
| 55 | 34 | 37 | 39 |
| 65 | 5 | 6 | 5 |
| 75 | 2 | 3 | 2 |
| 85 | 1 | 1 | 1 |
| 90 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

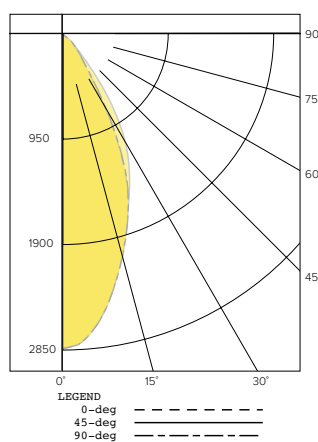
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1210 | 90.4 |
| 0-60 | 1330 | 99.3 |
| 0-90 | 1339 | 100.0 |
| 0-180 | 1339 | 100.0 |

LTR-3SQD-H-SL13L-DMT / LTR-3SQD-T-SL2765T9MDS

LUMINAIRE DATA

| | |
|-------------------|--------------------------------|
| Test No. | R19.00954-21 |
| Description | 1300 lm, Medium, 3000K, 90 CRI |
| Delivered Lumens | 1297 |
| Watts | 23.3W |
| Efficacy | 56.0 |
| Mounting | Recessed |
| Spacing Criterion | 0.8 |
| Beam Angle (FWHM) | 48 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0 | 1826 | 1826 | 1826 |
| 5 | 1753 | 1752 | 1753 |
| 15 | 1336 | 1325 | 1338 |
| 25 | 842 | 920 | 851 |
| 35 | 263 | 496 | 271 |
| 45 | 106 | 130 | 110 |
| 55 | 37 | 40 | 42 |
| 65 | 5 | 6 | 5 |
| 75 | 2 | 3 | 3 |
| 85 | 1 | 1 | 1 |
| 90 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

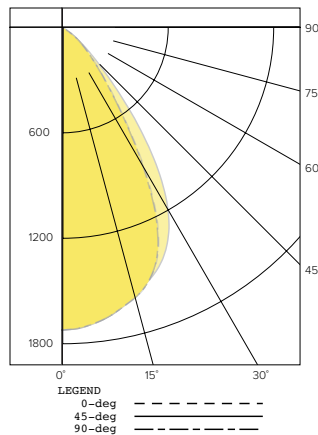
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1156 | 89.2 |
| 0-60 | 1287 | 99.3 |
| 0-90 | 1297 | 100.0 |
| 0-180 | 1297 | 100.0 |

LTR-3SQD-H-SL13L-DMT / LTR-3SQD-T-SL2765T9WDS

LUMINAIRE DATA

| | |
|-------------------|------------------------------|
| Test No. | R19.01044-21 |
| Description | 1300 lm, Wide, 3000K, 90 CRI |
| Delivered Lumens | 1212 |
| Watts | 23.3W |
| Efficacy | 52.0 |
| Mounting | Recessed |
| Spacing Criterion | 1.0 |
| Beam Angle (FWHM) | 62 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0 | 1062 | 1062 | 1062 |
| 5 | 1051 | 1050 | 1050 |
| 15 | 985 | 978 | 983 |
| 25 | 801 | 861 | 793 |
| 35 | 368 | 561 | 356 |
| 45 | 145 | 187 | 137 |
| 55 | 53 | 52 | 46 |
| 65 | 6 | 7 | 6 |
| 75 | 2 | 3 | 2 |
| 85 | 1 | 1 | 1 |
| 90 | 0 | 0 | 0 |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1025 | 84.6 |
| 0-60 | 1200 | 99.1 |
| 0-90 | 1212 | 100.0 |
| 0-180 | 1212 | 100.0 |

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LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

PHOTOMETRY CONTINUED

LTR-3SQD-H-SL13L-DMT / LTR-3SQD-T-SL2765T9XWS

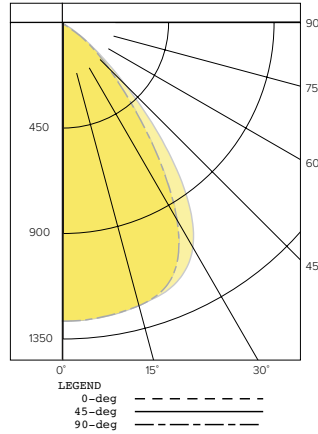
LUMINAIRE DATA

| | |
|-------------------|------------------------------------|
| Test No. | R19.00956-21 |
| Description | 1300 lm, Extra Wide, 3000K, 90 CRI |
| Delivered Lumens | 1188 |
| Watts | 23.4W |
| Efficacy | 51.0 |
| Mounting | Recessed |
| Spacing Criterion | 1.2 |
| Beam Angle (FWHM) | 74 |

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1519 | 79.5 |
| 0-60 | 1889 | 98.9 |
| 0-90 | 1188 | 100.0 |
| 0-180 | 1188 | 100.0 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela - 0 | Candela - 45 | Candela - 90 |
|--------|-------------|--------------|--------------|
| 0 | 793 | 793 | 793 |
| 5 | 792 | 792 | 792 |
| 15 | 779 | 780 | 780 |
| 25 | 715 | 746 | 715 |
| 35 | 460 | 587 | 457 |
| 45 | 191 | 256 | 187 |
| 55 | 63 | 67 | 57 |
| 65 | 7 | 9 | 6 |
| 75 | 3 | 3 | 3 |
| 85 | 1 | 1 | 1 |
| 90 | 0 | 0 | 0 |

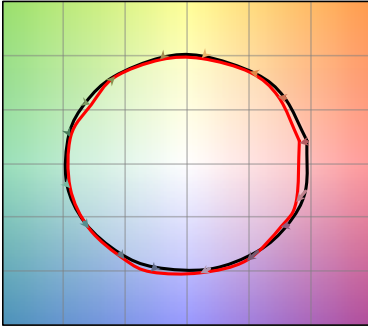
LTR-3SQD SpectraSync

LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

TM-30 DATA

SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

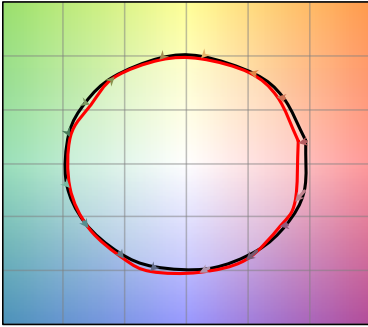


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI

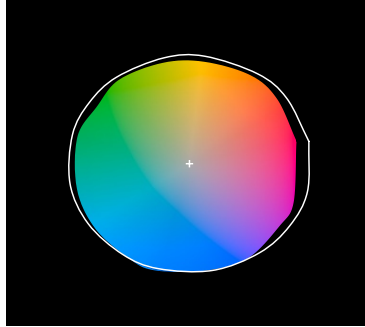


COLOR VECTOR GRAPHIC
4600K, 90+ CRI

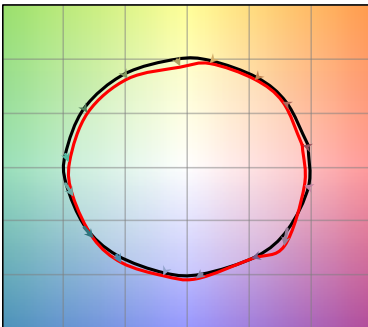


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

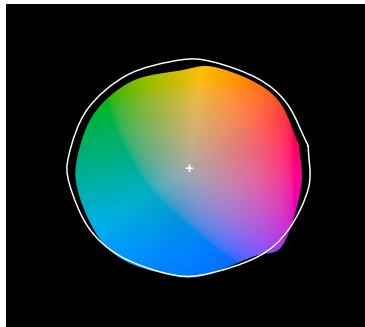


COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
6500K, 90+ CRI



| TEST RESULTS - TUNABLE WHITE @ 1300 LUMENS (NOMINAL) | | | |
|--|---------|---------|--------|
| Value | 2700K | 4600K | 6500K |
| Luminous Flux (lm) | 1063 | 1231 | 1270 |
| Wattage (W) | 23.1 | 23.0 | 23.0 |
| Efficacy (lm/W) | 46 | 54 | 55 |
| R _f | 89 | 89 | 88 |
| R _g | 97 | 98 | 97 |
| CCT (K) | 2875 | 4615 | 6504 |
| D _{UV} | -0.0021 | -0.0057 | 0.0011 |
| x | 0.4427 | 0.355 | 0.3135 |
| y | 0.4013 | 0.3486 | 0.3262 |
| CIE R _a | 90 | 95 | 94 |
| CIE R _g | 44 | 82 | 72 |

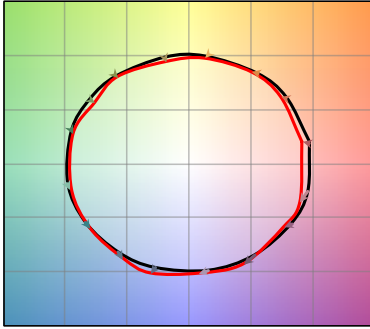
LTR-3SQD SpectraSync

LITEISTRY 3" SQUARE DOWNLIGHT WITH COLOR TUNING

TM-30 DATA CONTINUED

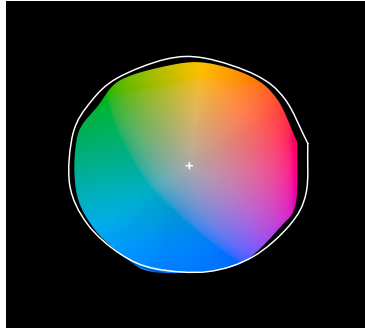
SPECTRASYNCTM DIM TO WARM (2230TD)

COLOR VECTOR GRAPHIC
3000K, 90+ CRI @ 100%

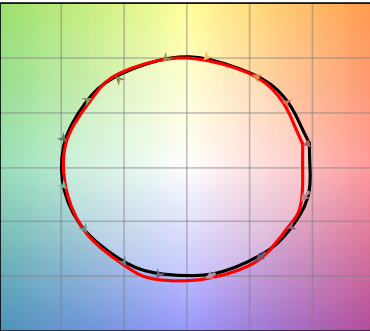


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3000K, 90+ CRI @ 100%

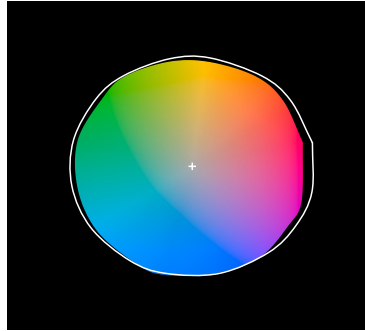


COLOR VECTOR GRAPHIC
2600K, 90 CRI @ 50% DIM

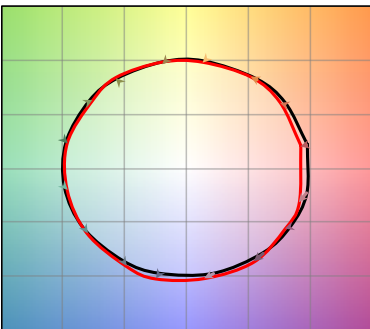


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2600K, 90 CRI @ 50% DIM



COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2200K, 90 CRI @ 5% DIM



| TEST RESULTS - DIM TO WARM @ 3 DIMMING LEVELS | | | |
|---|---------|---------|---------|
| Value | 100% | 50% Dim | 5% Dim |
| Luminous Flux (lm) | 1198 | 662 | 52 |
| Wattage (W) | 23.07 | 12.14 | 2.43 |
| Efficacy (lm/W) | 52 | 55 | 21 |
| R _t | 89 | 91 | 91 |
| R _g | 97 | 99 | 99 |
| CCT (K) | 3212 | 2642 | 2210 |
| D _{uv} | -0.0019 | -0.0020 | -0.0008 |
| x | 0.4201 | 0.4609 | 0.5035 |
| y | 0.3936 | 0.4058 | 0.4145 |
| CIE R _a | 91 | 93 | 92 |
| CIE R _g | 49 | 59 | 58 |

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ELECTRICAL DATA

| DRIVER DATA | |
|------------------------------------|-----------|
| Input Voltage | 120-277 V |
| Input Frequency | 50/60 Hz |
| Power Factor | ≥0.90 |
| THD | <20% |
| EMI Filtering (FCC 47 CFR Part 15) | Class A |

ADDITIONAL 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.