

LTR-4RA SpectraSync

LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

LITEISTRY™

FEATURES

- 4" architectural LED adjustable accent delivering 600–1500 lm
- Four beam distributions from 15° to 45°
- Translating center beam optic allows 0–35° vertical tilt, 362° horizontal rotation
- 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
- Select from three lower trim styles: Angle Cut Cone, Pinhole or Slot
- Accommodates up to two lens media including hexcell louver and linear spread options
- Available for New Construction (non-IC), IC and Chicago Plenum applications
- Standard with 0-10V dimming to 5%
- NX Distributed Intelligence™ wired and wireless controls capability available



RELATED PRODUCTS

Ø 3" LITEISTRY Family

Ø 4" LITEISTRY Family

Ø 6" LITEISTRY Family



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- For New Construction Non-IC applications
- Painted black enclosed steel platform with tool-less top access and pre-installed bar hangers
- Smooth friction adjustment with 0-35° vertical tilt, 362° horizontal rotation without tools
- Precise hot aiming capability, securely locks with thumbscrews for dependable control

OPTICS

- Translating center beam optic ensures full beam optimization from 0.5" to 1.25" ceiling thickness
- Proprietary twist-and-lock upper reflector with diffusion film provides 15°, 25°, 35° or 45° beam distributions
- Optional accessory lens media including linear spread and hexcell louver (order separately)
- Upper reflector can accommodate up to two additional lens media up to 0.25" max. thickness
- Provides dramatic, crisp highlights without distracting rings or excessive spill light
- Standard angle cut cone: High purity spun aluminum reflector, self-flanged in a large selection of anodized finishes and colors
- Flush mount flange option with mud-in ring available

OPTICS (CONTINUED)

- Large selection of anodized finishes and colors
- Painted cones and flange options available
- Optional pinhole or slot lower trim styles are available (painted finishes only)

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, RoHS compliant
- Flicker free 0–10V dimming to 5%
- NX or Lutron Vive control options available
- Emergency Battery Pack option available with remote test switch an indicator light
- Refer to additional spec sheets for information on [standard LITEISTRY](#) or [PowerHUBB™ PoE enabled](#) 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)

INSTALLATION (CONTINUED)

- Light Engine/Driver serviceable from above or below ceiling except with EMR battery pack or Control options which requires top access for component replacement

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for damp locations
- EMR: Certified under UL 924 standard for emergency lighting and power equipment
- Approved for 8 (4 in/4 out) No. 12AWG conductors rated for 90°C through wiring
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 6/6/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

| KEY DATA | |
|-----------------------|---------------|
| Lumen Range | 600-1500 |
| Wattage Range | 10-27 |
| Efficacy Range (LPW) | 52-59* |
| Reported Life (Hours) | L70 / >60,000 |
| Input Current (mA) | 83-225 (120V) |

*Based on Specular, 30K, 90 CRI



DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

LTR-4RA SpectraSync

LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

ORDERING GUIDE

Example: LTR-4RA-H-10L2230TD9NR-DMTW-LTR-4RA-T-SSCG

CATALOG # _____

HOUSING

| LTR-4RA-H | | Lumen Output | CCT | CRI | Distribution |
|--------------------------------|--|--------------|-------|---|---|
| Aperture/Shape/Function | | | | | |
| LTR-4RA-H | 4" Round Adjustable New Construction Housing | 06L | 600 | 2230TD | 2200K-3000K SpectraSync™ Dim to Warm ¹ |
| | | 10L | 1000 | | |
| | | 15L | 1500 | | |
| | | | 2750T | 2700K-5000K SpectraSync™ Tunable White ² | |
| | | | 2765T | 2700K-6500K SpectraSync™ Tunable White ² | |
| | | | | 9 | 90+ CRI |
| | | | | | NR Narrow 15° ⁸ |
| | | | | | MD Medium 25° |
| | | | | | WD Wide 35° |
| | | | | | XW Extra Wide 45° |

HOUSING CONTINUED

| Driver Options | | Control Options | | Voltage | Housing Options | |
|----------------|--|-----------------|---|----------|-----------------|--|
| DMTW | SpectraSync™ Dim to Warm, 0-10V Dimming to 5% ¹ | NXE | NX Enabled, Dual SmartPorts | 120-277V | CP | Chicago Plenum ^{10, 11, 12} |
| DMT | SpectraSync™ Tunable White, 0-10V Dimming to 5% ² | NXWE | NX Wireless Enabled | | IC | IC rated ^{10, 11, 12} |
| | | NXWD | NX Wireless Enabled, Dual SmartPorts | | EMR | Emergency Battery Pack with remote test switch and indicator light ^{10, 12} |
| | | LV | Lutron Vive Enabled, 0-10V ⁹ | | F | Fuse ¹⁰ |

TRIM

| LTR-4RA-T | | Lower Trim Style | Reflector Finish | Reflector Color | Flange Color Options | Lower Trim Options | Reflector Options |
|-----------------------|--|----------------------------------|--|-------------------|----------------------------------|--------------------|--------------------------------------|
| LTR-4RA-T | 4" Round Adjustable Light Engine/Trim Assembly | Standard Angle Cut Cone | Finish not applicable with painted reflectors (WC or BC) | Standard Clear | Standard matches reflector color | FM | Flush Mount Mud-In Ring ⁵ |
| | | PH Pinhole ⁶ | S Specular | CG Champagne Gold | WT White Flange ³ | AM | Antimicrobial Coating ⁴ |
| SLT Slot ⁶ | SS Semi-Specular | BL Black | BT Black Flange ³ | | | | |
| | MFC American Matte™ | LW Light Wheat | | | | | |
| | VS Softglow® | PW Pewter | | | | | |
| | VSS SoftSheen™ | WC Painted White Cone and Flange | | | | | |
| | | BC 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
- FMR4-R Flush Mount Mud-In Ring, 4" Round
- LiteGear LiteGear® Inverter, 125VA-250VA
- LPS Series LightPower Micro-Inverter, 20VA-55VA
- MOR4-R-WH Metal Oversized Ring, 4" Round, White (8.25" outside diameter)
- MOR4-R-BL Metal Oversized Ring, 4" Round, Black (8.25" outside diameter)

Lens/Media Accessories

- LL4 Linear Spread Lens for 4" and 6" (MD, WD, XW)⁷
- LL4-NR Linear Spread Lens for 4" and 6" (NR only)⁷
- PL4 Prismatic Lens for 4" and 6" (MD, WD, XW)⁷
- PL4-NR Prismatic Lens for 4" and 6" (NR only)⁷
- SOL4 Solite Lens for 4" and 6" (MD, WD, XW)⁷
- SOL4-NR Solite Lens for 4" and 6" (NR only)⁷
- HL4 Hexcell Louver Black for 4" and 6" (MD, WD, XW)⁷
- HL4-NR Hexcell Louver Black for 4" and 6" (NR only)⁷

Notes:

- 1 Must select 2230TD with DMTW driver.
- 2 Must select either 2750T or 2765T with DMT driver.
- 3 WT not needed for WC, BT not needed for BC.
- 4 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 5 Flush Mount Flange (FM) requires FMR accessory (sold separately).
- 6 Pinhole and Slot available only in WC or BC painted colors.
- 7 Lens holder supplied with fixture accommodates up to 2 media (0.25" max. total thickness).
- 8 Narrow (NR) available up to 10L.
- 9 LV available only with DMTW driver.
- 10 Housing options (except Fuse) not available in combination.
- 11 IC, CP available in 06L.
- 12 Not available with Control options.

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CONTROLS

NX Distributed Intelligence™ Lighting Controls:

Supports applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync™ Color Tuning Technology.



| NX INTEGRATED CONTROLS REFERENCE | | | | | | | | |
|--------------------------------------|--------|-------------|------------|-----------|---------------------|---------------|----------------|---|
| NX Option | Sensor | Networkable | Scheduling | Occupancy | Daylight Harvesting | 0-10V Dimming | On/off Control | Bluetooth® App Programming |
| NX Networked – Wired | | | | | | | | |
| NXE | N/A | Yes | Yes | No | No | Yes | Yes | Requires NXBTC/R ¹ |
| NX Networked – Wireless | | | | | | | | |
| NXWE ² | N/A | Yes | Yes | No | No | Yes | Yes | No ³ |
| NX Networked – Wired/Wireless | | | | | | | | |
| NXWD | N/A | Yes | Yes | No | No | Yes | Yes | Requires NXBTC/R ^{1,3} |

- ¹ NXBTC/R needs to be plugged into an available NX SmartPort™ on the fixture network
- ² Programming via App requires factory assistance
- ³ To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

SpectraSync™ Color Tuning Technology:

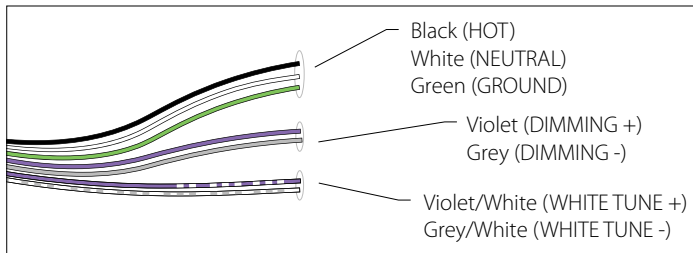
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



| SPECTRASYNCH 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.

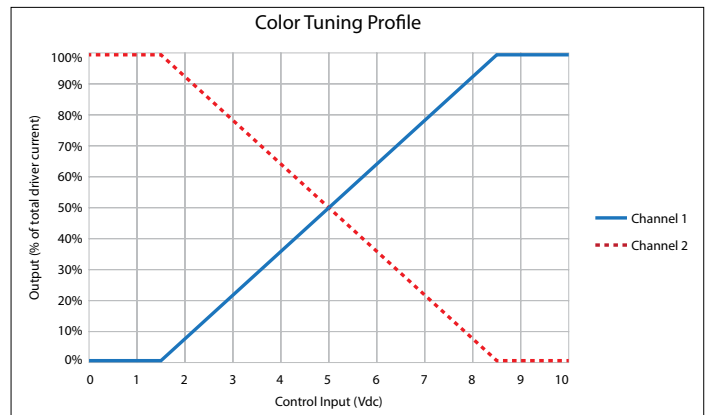


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and grey circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data

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

- Hubbell Control Solutions (HCS): NX Distributed Intelligence™ Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, 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 Hubbell Control Solutions NX SpectraSync technical sheet.



LTR-4RA SpectraSync

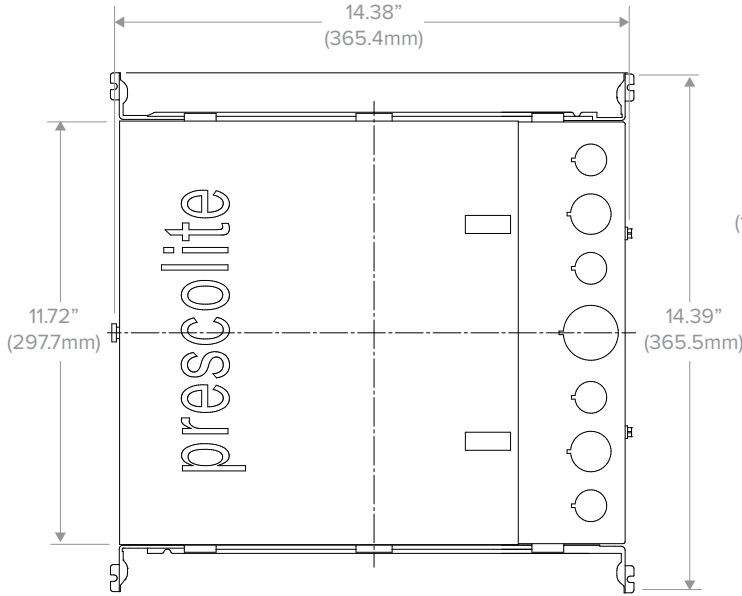
LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

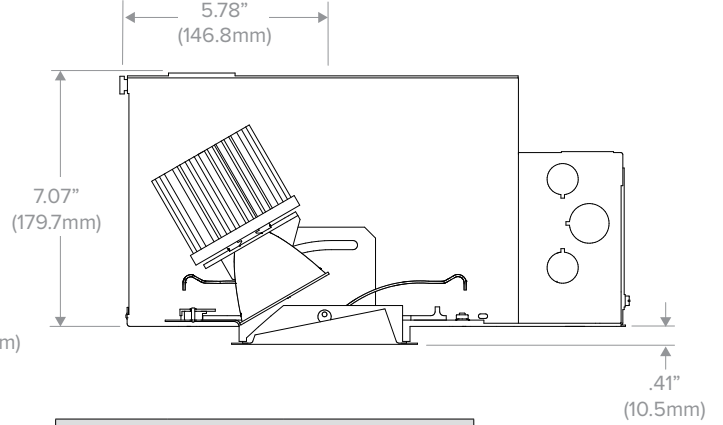
TYPE: _____ PROJECT: _____

CATALOG #: _____

DIMENSIONS



Top View



| Dimensional Data | | |
|-------------------|-------------|-----------------------------------|
| Aperture | | 4.00" (101.6mm) |
| Flange | Standard | 5.25" (133.4mm) |
| | Flush Mount | 4.50" (114.3mm) |
| Ceiling Cutout | Standard | 5.00" (127.0mm) |
| | Flush Mount | 5.12" (130.0mm) |
| Ceiling Thickness | | 0.50" to 1.25" (12.7mm to 31.8mm) |

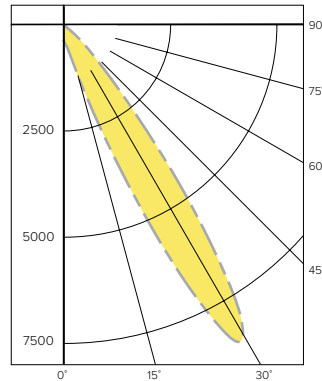
PHOTOMETRY

LTR-4RA-H-10L2765T9NR-DMT / LTR-4RA-T-S

LUMINAIRE DATA

| | |
|-------------------|--------------------------------|
| Test No. | 19.01187 |
| Description | 1000 lm, Narrow, 3000K, 90 CRI |
| Delivered Lumens | 1010 |
| Watts | 18.0W |
| Efficacy | 56 |
| Mounting | Recessed |
| Beam Angle (FWHM) | 15 |

POLAR GRAPH



LEGEND
 0-deg ———
 90-deg - - - -
 180-deg - - - -

CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 391 |
| 5 | 486 |
| 15 | 1192 |
| 25 | 6799 |
| 35 | 5660 |
| 45 | 907 |
| 55 | 37 |
| 65 | 8 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 148653 |
| 55° | 7442 |
| 65° | 2099 |
| 75° | 428 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 894 | 89.0 |
| 0-60 | 1008 | 100.0 |
| 0-90 | 1010 | 100.0 |
| 0-180 | 1010 | 100.0 |

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LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

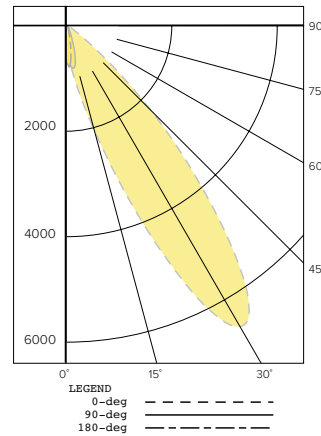
PHOTOMETRY CONTINUED

LTR-4RA-H-15L2765T9MD-DMT / LTR-4RA-T-S

LUMINAIRE DATA

| | |
|-------------------|--------------------------------|
| Test No. | 19.01276 |
| Description | 1500 lm, Medium, 3000K, 90 CRI |
| Delivered Lumens | 1455 |
| Watts | 27.0W |
| Efficacy | 54 |
| Mounting | Recessed |
| Beam Angle (FWHM) | 23 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 689 |
| 5 | 728 |
| 15 | 2069 |
| 25 | 5272 |
| 35 | 5503 |
| 45 | 1959 |
| 55 | 91 |
| 65 | 14 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 321101 |
| 55° | 18390 |
| 65° | 3744 |
| 75° | 340 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

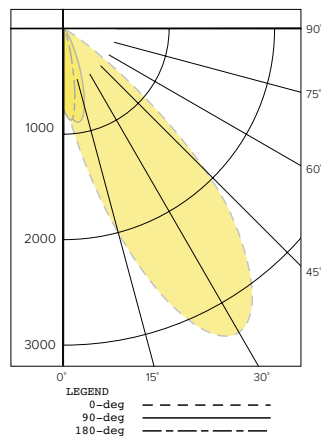
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1211 | 83.2 |
| 0-60 | 1451 | 100.0 |
| 0-90 | 1455 | 100.0 |
| 0-180 | 1455 | 100.0 |

LTR-4RA-H-15L2765T9WD-DMT / LTR-4RA-T-S

LUMINAIRE DATA

| | |
|-------------------|------------------------------|
| Test No. | 19.01277 |
| Description | 1500 lm, Wide, 3000K, 90 CRI |
| Delivered Lumens | 1395 |
| Watts | 27.0W |
| Efficacy | 52 |
| Mounting | Recessed |
| Beam Angle (FWHM) | 35 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 738 |
| 5 | 902 |
| 15 | 1918 |
| 25 | 3008 |
| 35 | 2973 |
| 45 | 1814 |
| 55 | 319 |
| 65 | 32 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 297206 |
| 55° | 64513 |
| 65° | 8798 |
| 75° | 342 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

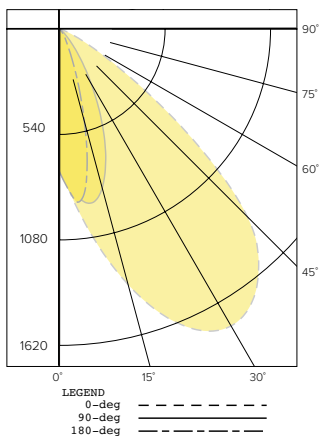
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1090 | 78.1 |
| 0-60 | 1387 | 99.4 |
| 0-90 | 1395 | 100.0 |
| 0-180 | 1395 | 100.0 |

LTR-4RA-H-15L2765T9XW-DMT / LTR-4RA-T-S

LUMINAIRE DATA

| | |
|-------------------|------------------------------------|
| Test No. | 19.01223 |
| Description | 1500 lm, Extra Wide, 3000K, 90 CRI |
| Delivered Lumens | 1315 |
| Watts | 22.4W |
| Efficacy | 59 |
| Mounting | Recessed |
| Beam Angle (FWHM) | 49 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 726 |
| 5 | 888 |
| 15 | 1342 |
| 25 | 1625 |
| 35 | 1697 |
| 45 | 1347 |
| 55 | 481 |
| 65 | 88 |
| 75 | 3 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 220750 |
| 55° | 97094 |
| 65° | 24092 |
| 75° | 1368 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 326 | 25.0 |
| 0-60 | 1295 | 99.0 |
| 0-90 | 1315 | 100.0 |
| 0-180 | 1315 | 100.0 |

LTR-4RA SpectraSync

LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

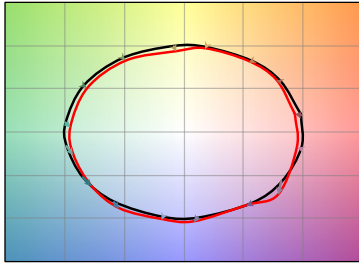
TYPE: _____ PROJECT: _____

CATALOG #: _____

TM-30 DATA

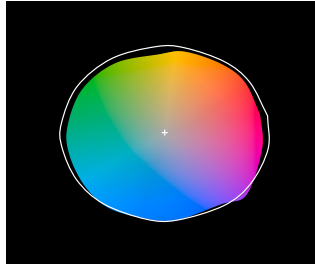
SPECTRASYNCTM TUNABLE WHITE (2765T)

COLOR VECTOR GRAPHIC
2700K, 90+ CRI

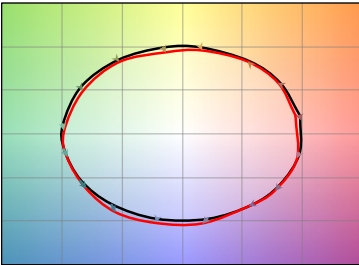


— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
2700K, 90+ CRI



COLOR VECTOR GRAPHIC
4600K, 90+ CRI

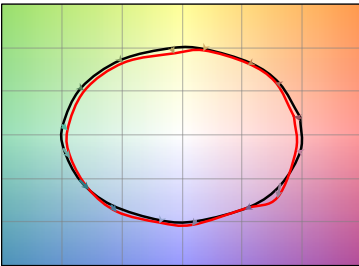


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COLOR DISTORTION GRAPHIC
4600K, 90+ CRI

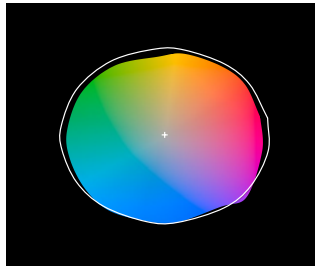


COLOR VECTOR GRAPHIC
6500K, 90+ CRI



— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
6500K, 90+ CRI



| TEST RESULTS - TUNABLE WHITE @ 1000 LUMENS (NOMINAL) | | | |
|--|---------|---------|--------|
| Value | 2700K | 4600K | 6500K |
| Luminous Flux (lm) | 846 | 941 | 982 |
| Wattage (W) | 17.0 | 16.8 | 16.9 |
| Efficacy (lm/W) | 50 | 56 | 58 |
| R _f | 88 | 89 | 88 |
| R _g | 97 | 98 | 97 |
| CCT (K) | 2809 | 4597 | 6326 |
| D _{uv} | -0.0018 | -0.0052 | 0.0017 |
| x | 0.4481 | 0.3558 | 0.3163 |
| y | 0.4035 | 0.3502 | 0.33 |
| CIE R _a | 91 | 95 | 94 |
| CIE R _g | 48 | 83 | 73 |

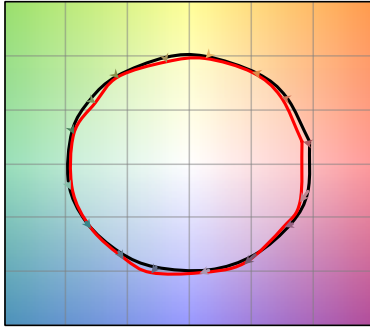
LTR-4RA SpectraSync

LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

TM-30 DATA CONTINUED

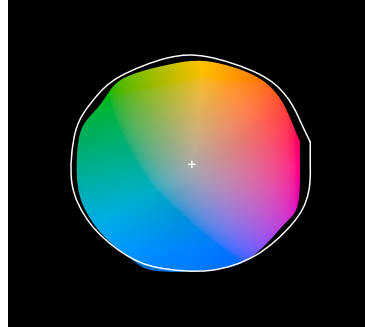
SPECTRASYNCTM DIM TO WARM (2230TD)

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

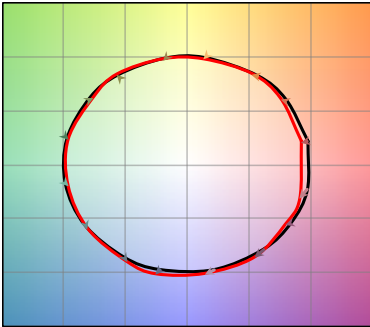


— Reference Illuminant — Test Source

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

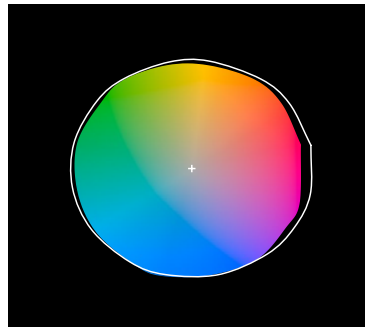


COLOR VECTOR GRAPHIC
2600K, 90 CRI @ 50% DIM

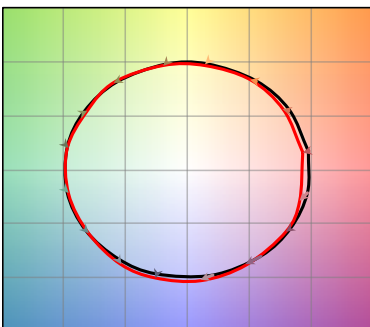


— Reference Illuminant — Test Source

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

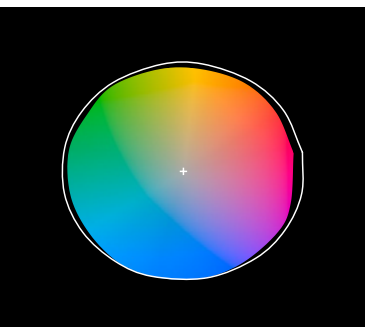


COLOR VECTOR GRAPHIC
2200K, 90 CRI @ 5% DIM



— 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) | 945 | 507 | 34 |
| Wattage (W) | 16.94 | 9.69 | 2.43 |
| Efficacy (lm/W) | 56 | 52 | 14 |
| R _f | 90 | 92 | 92 |
| R _g | 97 | 99 | 98 |
| CCT (K) | 3136 | 2650 | 2204 |
| D _{uv} | -0.0016 | -0.0016 | -0.0005 |
| x | 0.4254 | 0.461 | 0.5063 |
| y | 0.3965 | 0.4069 | 0.4168 |
| CIE R _a | 92 | 93 | 92 |
| CIE R _g | 52 | 60 | 57 |



LTR-4RA SpectraSync

LITEISTRY 4" ROUND ADJUSTABLE WITH COLOR TUNING

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

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 |

| WATTAGE DATA | | |
|--------------|----------------|---------|
| Lumen Output | Nominal Lumens | Wattage |
| 06L | 600 | 10 |
| 10L | 1000 | 18 |
| 15L | 1500 | 27 |

* Wattage may vary based on configuration and options selected

ADDITIONAL INFORMATION

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series

LPS Series: www.dual-lite.com/products/lps