

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

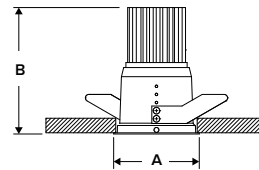
FEATURES

- 3" architectural LED remodel downlight delivering 600–2000 lm
- Five beam distributions from 0.3 to 1.1 Spacing Criteria
- Quiet reflector appearance with 50° optical cutoff
- 2700K–5000K, 80+ and 90+ CRI options
- For Remodel (non-IC) install from below applications
- Standard with 0-10V to 1% dimming

LITEISTRY™



SERVICE PROGRAMS



| Typical Dimensions and Weights | | | |
|--------------------------------|--------------------------|------------------------|-----------------|
| Lumen Package | "A" Diameter Inches (mm) | "B" Height Inches (mm) | Weight lbs (kg) |
| 06L - 20L | 3.7 (94) | 5.4 (137) | 3.5 (1.6) |

See DIMENSIONS section for complete details

SPECIFICATIONS

CONSTRUCTION

- Die cast and spun aluminum construction with separate driver compartment and compact junction box
- Installs from below the ceiling after drywall with pre-installed retention springs; No plaster frame required
- 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 spun 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
- Long LED life: L90 at >55,000 hours (TM-21)
- Universal voltage 120V–277V driver
- UL Class 2, inherent short circuit and overload protection
- Flicker free 0–10V dimming with 1% performance

INSTALLATION

- Accommodates ceiling thickness up to 2"
- Remodel light engine/driver fully serviceable from above or below the ceiling

CERTIFICATIONS

- cCSAus certified to UL 1598
- Suitable for wet locations, covered ceiling.
- Approved for 4 (2 in/2 out) No. 12 AWG conductors rated for 90°C through wiring

CERTIFICATIONS (CONTINUED)

- 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) | 77-84* |
| Reported Life (Hours) | L90 / >55,000 |
| Input Current (mA) | 67–208 (120V) |

*Based on Specular, 35K, 80 CRI

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

Gray Shading = Service Program **STOCK**

ORDERING GUIDE

Example: LTR-3RD-RH-SL10L-DM1-LTR-3RD-T-SL35K8MD-S

CATALOG #

HOUSING

| LTR-3RD-RH | | Lumen Package | | Lumen Output | | Driver Options | | Voltage | | Housing Options | |
|-------------------------|------------------------------------|---------------|----------------|--------------|------|----------------|---------------------|----------------------|--|-----------------|--|
| Aperture/Shape/Function | | | | | | | | | | | |
| LTR-3RD-RH | 3" Round Downlight Remodel Housing | SL | Standard Lumen | 06L | 600 | DM1 | 0-10V Dimming to 1% | Standard 120-277V | | BAA | Buy American Act (FAR 52.225-9) Compliant |
| | | | | 10L | 1000 | DALI | DALI Dimming to 1% | | | TAA | Trade Agreements Act (FAR 52.225-11) Compliant |
| | | | | 15L | 1500 | | | | | | |
| | | ML | Medium Lumen | 20L | 2000 | | | | | | |

TRIM

| LTR-3RD-T | | Lumen Package | | CCT | | CRI | | Distribution | |
|-------------------------|---|---------------|----------------|------------|--------------------|----------|--------|--------------|---------------------------------------|
| Aperture/Shape/Function | | | | | | | | | |
| LTR-3RD-T | 3" Round Downlight Light Engine/Trim Assembly | SL | Standard Lumen | 27K | 2700K | 8 | 80+CRI | VNR | Very Narrow (0.3 SC/20°) ⁴ |
| | | ML | Medium Lumen | 30K | 3000K | 9 | 90+CRI | NR | Narrow (0.4 SC/29°) |
| | | | | 35K | 3500K | | | MD | Medium (0.7 SC/53°) |
| | | | | 40K | 4000K | | | WD | Wide (0.9 SC/59°) |
| | | | | 50K | 5000K ¹ | | | XW | Extra Wide (1.1 SC/66°) |

TRIM CONTINUED

| Reflector Finish | | Reflector Color | | Flange Color Options | | Reflector Options | |
|---|-----------------|-----------------|-------------------------------|----------------------------------|---------------------------|-------------------|--|
| <i>Finish not applicable with painted reflectors (WC or BC)</i> | | Standard Clear | | Standard matches reflector color | | AM | Antimicrobial Coating ³ |
| S | Specular | CG | Champagne Gold | WT | White Flange ² | BAA | Buy American Act (FAR 52.225-9) Compliant |
| SS | Semi-Specular | BL | Black | BT | Black Flange ² | TAA | Trade Agreements Act (FAR 52.225-11) Compliant |
| 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

- FMR3-R** Flush Mount Mud-In Ring, 3" Round
- LiteGear** LiteGear® Inverter, 125VA–250VA
- LPS Series** LightPower Micro-Inverter, 20VA–55VA
- MOR3-R-WH** Metal Oversized Ring, 3" Round, White (6.75" outside diameter)
- MOR3-R-BL** Metal Oversized Ring, 3" Round, Black (6.75" outside diameter)

Notes:

- 1 5000K available in 80+ CRI only.
- 2 WT not needed for WC, BT not needed for BC.
- 3 AM available with WC or Specular Clear (S or SWT). Consult factory for other colors.
- 4 VNR available up to 15L.

LTR-3RD-RH

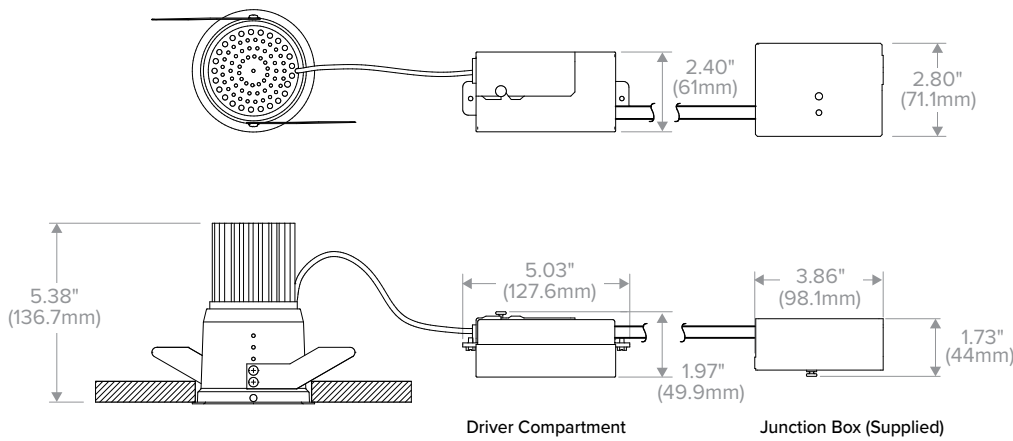
LITEISTRY 3" ROUND REMODEL DOWNLIGHT

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 | Very Narrow | 689 | 8.0 | 87 |
| | | Narrow | 744 | 7.8 | 95 |
| | | Medium | 641 | 7.8 | 82 |
| | | Wide | 663 | 7.8 | 85 |
| | | Extra Wide | 636 | 7.8 | 82 |
| 10L | 1000 | Very Narrow | 1099 | 12.6 | 87 |
| | | Narrow | 1198 | 11.9 | 101 |
| | | Medium | 1032 | 11.9 | 87 |
| | | Wide | 1067 | 11.9 | 90 |
| | | Extra Wide | 1024 | 11.9 | 86 |
| 15L | 1500 | Very Narrow | 1502 | 18.6 | 81 |
| | | Narrow | 1733 | 18.6 | 93 |
| | | Medium | 1493 | 18.6 | 80 |
| | | Wide | 1544 | 18.6 | 83 |
| | | Extra Wide | 1482 | 18.6 | 80 |
| 20L | 2000 | Narrow | 2103 | 25.1 | 84 |
| | | Medium | 1952 | 25.1 | 78 |
| | | Wide | 1985 | 25.1 | 79 |
| | | Extra Wide | 1945 | 25.1 | 77 |

DIMENSIONS



| Dimensional Data | | |
|--------------------------------|--------------------------------|-----------------|
| Aperture | 2.88" (73.2mm) | |
| Flange: Standard & Flush Mount | 3.68" (93.5mm) | |
| Ceiling Cutout: | Standard | 3.38" (85.9mm) |
| | Flush Mount | 4.00" (101.6mm) |
| Ceiling Thickness: | 0.50" to 2" (12.7mm to 50.8mm) | |

LTR-3RD-RH Remodel

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

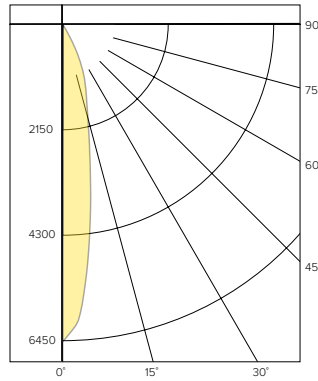
PHOTOMETRY

LTR-3RD-RH-ML20L-DM1 / LTR-3RD-T-ML35K8VNR-S

LUMINAIRE DATA

| | |
|-------------------|-------------------------------------|
| Test No. | R20.01326-02 |
| Description | 1500 lm, Very Narrow, 3500K, 80 CRI |
| Delivered Lumens | 1502 |
| Watts | 18.6W |
| Efficacy | 81 |
| Mounting | Recessed |
| Spacing Criterion | 0.3 |
| Beam Angle | 20 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 6446 |
| 5 | 5271 |
| 15 | 1980 |
| 25 | 879 |
| 35 | 119 |
| 45 | 18 |
| 55 | 2 |
| 65 | 1 |
| 75 | 0 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 6078 |
| 55° | 833 |
| 65° | 565 |
| 75° | 0 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

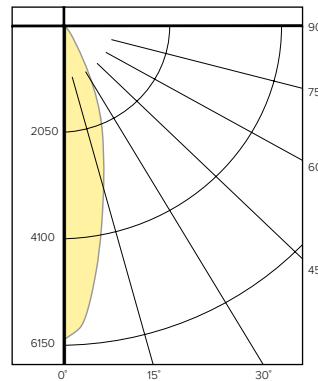
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1482 | 98.7 |
| 0-60 | 1501 | 99.9 |
| 0-90 | 1502 | 100.0 |
| 0-180 | 1502 | 100.0 |

LTR-3RD-RH-ML20L-DM1 / LTR-3RD-T-ML35K8NR-S

LUMINAIRE DATA

| | |
|-------------------|--------------------------------|
| Test No. | R19.00700-C02 |
| Description | 2000 lm, Narrow, 3500K, 80 CRI |
| Delivered Lumens | 2103 |
| Watts | 25.1W |
| Efficacy | 83.8 |
| Mounting | Recessed |
| Spacing Criterion | 0.4 |
| Beam Angle | 29 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 6064 |
| 5 | 5416 |
| 15 | 2923 |
| 25 | 1315 |
| 35 | 263 |
| 45 | 36 |
| 55 | 3 |
| 65 | 1 |
| 75 | 0 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 11947 |
| 55° | 1227 |
| 65° | 555 |
| 75° | 0 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

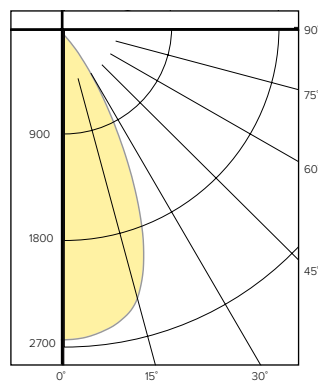
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 2063 | 98.1 |
| 0-60 | 2102 | 99.9 |
| 0-90 | 2103 | 100.0 |
| 0-180 | 2103 | 100.0 |

LTR-3RD-RH-ML20L-DM1 / LTR-3RD-T-ML35K8MD-S

LUMINAIRE DATA

| | |
|-------------------|--------------------------------|
| Test No. | R19.00739-C02 |
| Description | 2000 lm, Medium, 3500K, 80 CRI |
| Delivered Lumens | 1952 |
| Watts | 25.1W |
| Efficacy | 77.7 |
| Mounting | Recessed |
| Spacing Criterion | 0.8 |
| Beam Angle | 53 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 2638 |
| 5 | 2620 |
| 15 | 2419 |
| 25 | 1497 |
| 35 | 471 |
| 45 | 50 |
| 55 | 3 |
| 65 | 1 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 16593 |
| 55° | 1227 |
| 65° | 555 |
| 75° | 907 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1895 | 97.1 |
| 0-60 | 1950 | 99.9 |
| 0-90 | 1952 | 100.0 |
| 0-180 | 1952 | 100.0 |

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

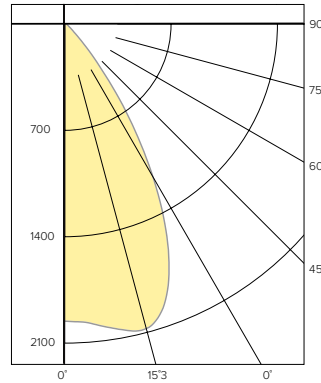
PHOTOMETRY CONTINUED

LTR-3RD-RH-ML20L-DM1 / LTR-3RD-T-ML35K8WD-S

LUMINAIRE DATA

| | |
|-------------------|-------------------------------------|
| Test No. | R19.00698-C02 |
| Description | 2000 lm, Wide, 3500K, 80 CRI |
| Delivered Lumens | 1985 |
| Watts | 25.1W |
| Efficacy | 79.1 |
| Mounting | Recessed |
| Spacing Criterion | 0.9 |
| Beam Angle | 59 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 1966 |
| 5 | 1988 |
| 15 | 2085 |
| 25 | 1604 |
| 35 | 667 |
| 45 | 65 |
| 55 | 4 |
| 65 | 2 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 21571 |
| 55° | 1636 |
| 65° | 1111 |
| 75° | 907 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

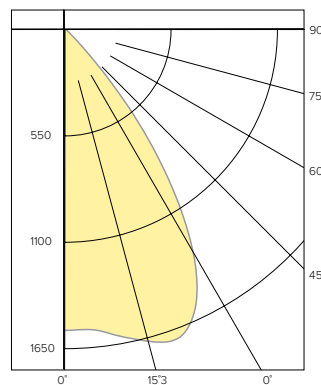
| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1909 | 96.2 |
| 0-60 | 1983 | 99.9 |
| 0-90 | 1985 | 100.0 |
| 0-180 | 1985 | 100.0 |

LTR-3RD-RH-ML20L-DM1 / LTR-3RD-T-ML35K8XW-S

LUMINAIRE DATA

| | |
|-------------------|---|
| Test No. | R19.00697-C02 |
| Description | 2000 lm, Extra Wide, 3500K, 80 CRI |
| Delivered Lumens | 1945 |
| Watts | 25.1W |
| Efficacy | 77.4 |
| Mounting | Recessed |
| Spacing Criterion | 1.1 |
| Beam Angle | 66 |

POLAR GRAPH



CANDELA DISTRIBUTION

| Degree | Candela |
|--------|---------|
| 0 | 1519 |
| 5 | 1521 |
| 15 | 1630 |
| 25 | 1552 |
| 35 | 878 |
| 45 | 71 |
| 55 | 4 |
| 65 | 2 |
| 75 | 1 |
| 85 | 0 |
| 90 | 0 |

LUMINANCE DATA*

| Vertical Angle | Average |
|----------------|---------|
| 45° | 23562 |
| 55° | 1636 |
| 65° | 1111 |
| 75° | 907 |
| 85° | 0 |

*Candela/Square Meter

ZONAL LUMEN SUMMARY

| Zone | Lumens | % Luminaire |
|-------|--------|-------------|
| 0-40 | 1843 | 94.8 |
| 0-60 | 1942 | 99.9 |
| 0-90 | 1945 | 100.0 |
| 0-180 | 1945 | 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 |

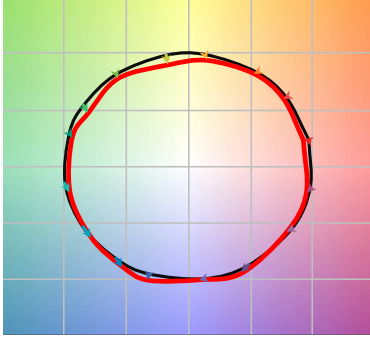
Photometrics are published below at a nominal 3500 Kelvin, 80+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

LTR-3RD-RH

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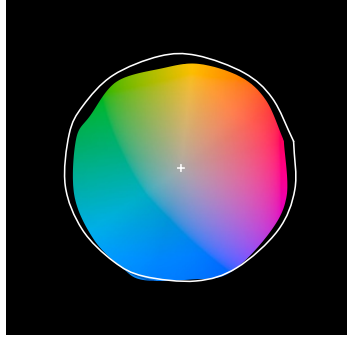
TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



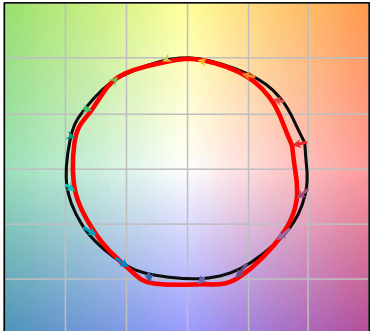
— Reference Illuminant — Test Source

COLOR DISTORTION GRAPHIC
3500K, 90 CRI



| TEST RESULTS - 3500K | | |
|----------------------|---------|---------|
| Value | 80+ CRI | 90+ CRI |
| R_t | 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_g | 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 |
| Input Frequency | 50/60 Hz |
| Power Factor | ≥0.90 |
| THD | <20% |
| EMI Filtering (FCC 47 CFR Part 15) | Class A |

LTR-3RD-RH

LITEISTRY 3" ROUND REMODEL DOWNLIGHT

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ADDITIONAL INFORMATION

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information on currentlighting.com/prescolite.

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.