PROJECT NAME:

TYPE:





High-output, low profile, and infinite adjustment -- these small aperture downlights make elegant design statements in discerning residential, retail, and hospitality environments.

ORDERING INFORMATION

| ORDERING | INFORM | IATION | | E | Quick Ship components up to quant | Product. All s ship within ities of 100. | rough in 10 days | JA8-202 | 22 INDICATED | BY SHADING |
|----------------------------|--|---|--|---|---|--|--|--|------------------|---|
| TRIM | RATING | FLANGE FINISH | CRI / WATTAGE PACKAGE | CCT | OPTIC | INSTALL TYPE | CEILING THICKNESS | POWER SUPPLY | MEDIA | FLANGE CONFIGURATION |
| | | | | | ww | | | | WL | |
| Expanded 2 Wallwash *(1 | Dry/Damp Wet* (Lens sealed in lace) | WHWhiteAGSatin SilverIGIndustrial GrayAUCashmere GoldABArch BronzeBBBurnt BronzeBKBlackSSSteel**Ilncr=seel lead time)CHChrome* Bronze**Ilncr=seel lead time)PBPolished Bronze**Ilncr=seel lead time)PRPrimerCFCustom**ISCHIMAGES ON PAGE 2 | LOW FLUX STATIC WHITE 3.73" TALL HOUSING 80506A 80+ CRI, 6 Watts [Delivered - 2RW 415, 2SW 351] 80511A 80+ CRI, 11 Watts [Delivered - 2RW 680, 2SW 554] 80515A 80+ CRI, 15 Watts [Delivered - 2RW 780, 2SW 770] 90506A 90+ CRI, 6 Watts [Delivered - 2RW 358, 2SW 303] 90511A 90+ CRI, 16 Watts [Delivered - 2RW 788, 2SW 478] 90515A 90+ CRI, 15 Watts [Delivered - 2RW 798, 2SW 664] 97506A 97+ CRI, 11 Watts [Delivered - 2RW 716, 2SW 478] 97511A 97+ CRI, 11 Watts [Delivered - 2RW 516, 2SW 421] 97515A 97+ CRI, 11 Watts [Delivered - 2RW 516, 2SW 421] 97515A 97+ CRI, 11 Watts [Delivered - 2RW 702, 2SW 584] HIGH FLUX STATIC WHITE 6.5" TALL HOUSING 80521A 80+ CRI, 21 Watts [Delivered - 2RW 102, 2SW 887] 19521A 90+ CRI, 12 Watts [Delivered - 2RW 1073, 2SW 887] 97521A 97+ CRI, 11 Watts [Delivered - 2RW 1073, 2SW 887] 97521A 97+ CRI, 11 Watts [Delivered - 2RW 1073, 2SW 887] 97521A 97+ CRI, 21 Watts [Delivered - 2RW 1073, 2SW 887] 90911A 90+ CRI, 11 Watts Incandescent Profile: 2700K - 1800K [Delivered - 2RW 408, 2SW 355] Standard Profile: 3000K - 1800K [Delivered - 2RW 4071, 2SW 496] Standard Profile: 3000K - 1800K [Delivered - 2RW 571, 2SW 497] *SEE PAGE 4 FOR DETAILED WARM DIM ROFILE COMPARISON. TUNABLE WHITE 6.5" TALL HOUSING 9017A 90+ CRI, 17 Watts Warm Profile [Delivered - 2RW 574, 2SW 497] *SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON. TUNABLE WHITE 6.5" TALL HOUSING 9017A 90+ CRI, 17 Watts Warm Profile [Delivered - 2RW 574, 2SW 497] *SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON. TUNABLE WHITE 6.5" TALL HOUSING 9017A 90+ CRI, 17 Watts Warm Profile [Delivered - 2RW 574, 2SW 605] *ALL DELIVERED LUMEN OUTPUTS REFLECT 3000K. | 24 2400K* ********************************** | WW Wallwash Optic | Housing Wintegral Driver [HB] NC NIC IC IC AT IC, Airtight [*] "loceA Airtightand The 24 compliant housing] Housing Winter HR NRNIC, Remote AR IC, Airtight, Remotel RM Remotel Remodel RM Remodel Remodel RR Remodel Remodel RR Remotel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel Remodel | 0 0.125" - 0.49"* *(RM, RR Install Types only) 1 0.50" - 0.75" 2 0.76" - 1.25" | (120V) TR2 Philips, 2% Forward/Reverse (120-277V) LH1 Lutron, Hi-Lume 1% Ecosystem* "Notavailablefor 6W LP1 Lutron, Premier 0.1% Ecosystem AN4 Philips Xitanium 1% 0-10V, LIOG LN2 Philips Xitanium 1% 0-10V, LIOG LN2 Philips Xitanium 1% 0-10V, LIOG LN2 Philips Xitanium 1% 0-10V, LIOG LN2 eldoLED, 0.1% 0-10V, LIOG LA2 eldoLED, 0.1% 0-10V, LIOG LD1 eldoLED, 0.1% 0-10V, LIOG LD1 eldoLED, 0.1% 0-10V, LIOG LD1 eldoLED, 0.1% 0-277V* CS1/ Casambi Control CSR eldoLED, 0.1% 120-277V* CS1/ Casambi Control CSR eldoLED, 0.1% 120-277V* CS1/ Casambi Control CSR eldoLED, 0.1% 120-277V* TUNABLE WHITE REMOTE (0.1%, 120-277V* TUNABLEWHITE REMOTE (0.1%, 120- | WL Wallwash Lens | F Flange Overlay (No Applique) G Zens Sightline Gypsum (1/16' Applique)* *(Not available for wet location) P Zens Sightline Plaster (1/8' Applique)* *(Not available for wet location) |

PART NUMBER NOTES

- Trims ships as e.g. 2RW1-WH-80S15A2-WHB1-TR2WL .
- Housing ships as e.g. NCL-2RF-1-LED-01
- Drivers ship with trim
- Appliqué ships with housing



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ACCESSORIES

ROUTER TOOL GUIDE (Dry / Damp locations only) Recommended for Zero-Sightline installations in wood ceilings. DLA-RTG-2S-RD Tool, router guide, round; reusable DLA-RTG-2S-SQ Tool, router guide, square; reusable

REPLACEMENT OPTIC

Interchangeable optics accessible through fixture aperture.
□ R0-50-WW-S Wall Grazer Optic, Static White
□ R0-50-WW-W Wall Grazer Optic, Warm Dim

HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum. **2S-HBE-46** Extender, Hanger Bar

FURRING CHANNEL ACCESSORY KIT

Recommended for installations in furring channel. Available for ceiling thicknesses from $0.125^{\prime\prime}$ - $1.25^{\prime\prime}.$

DHA-FC-KIT

EMERGENCY LIGHTING - REMOTE MOUNT ONLY

During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

| EMB-S-25-120/277-LEDX | 25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable |
|------------------------|--|
| EMB-S-100-120-LEDX | 100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable |
| EMB-S-100-277-LEDX | 100 watt max capacity, 277 VAC 60Hz, 0-10V Dimmable |
| EMB-S-250-120/277-LEDX | 250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable |

FINISHES BY LUCIFER LIGHTING™



304 Stainless Steel



WALLWASH DESIGN GUIDE



30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 15.46
- MIN / MAX: 2.94
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 25FT WALL SHOWN

ROUND



RECOMMENDED 36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 11.73
- MIN / MAX: 3.11
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 30FT WALL SHOWN



42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 9.22
- MIN / MAX: 3.77
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 35FT WALL SHOWN



30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 16.00
- MIN / MAX: 4.62
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10FIXTURES / 25FT WALL SHOWN



SQUARE

RECOMMENDED 36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 12.47
- MIN / MAX: 2.98
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 30FT WALL SHOWN

ADDITIONAL SPACINGS AND SETBACKS



42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 9.99
- MIN / MAX: 2.96
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 35FT WALL SHOWN

| | ROUND | | | | | | | | | |
|-----------|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|
| ON CENTER | | SETBACK | | | | | | | | |
| SPACING | 30" | 36" | 42" | | | | | | | |
| 30" | SHOWN | AVERAGE FC: 14.02 | AVERAGE FC: 12.56 | | | | | | | |
| | ABOVE | MIN / MAX: 3.34 | MIN / MAX: 3.85 | | | | | | | |
| 36" | AVERAGE FC: 12.90 | SHOWN | AVERAGE FC: 10.58 | | | | | | | |
| | MIN / MAX: 2.63 | ABOVE | MIN / MAX: 3.47 | | | | | | | |
| 42" | AVERAGE FC: 11.16 | AVERAGE FC: 10.18 | SHOWN | | | | | | | |
| | MIN / MAX: 2.88 | MIN / MAX: 3.27 | ABOVE | | | | | | | |

*ALL DATA REFLECTS 90S15A WATTAGE PACKAGE

| SQUARE | | | | | | | | | |
|-----------|-------------------|-------------------|-------------------|--|--|--|--|--|--|
| ON CENTER | SETBACK | | | | | | | | |
| SPACING | 30" | 36" | 42" | | | | | | |
| 30" | SHOWN | AVERAGE FC: 14.82 | AVERAGE FC: 16.38 | | | | | | |
| | ABOVE | MIN / MAX: 3.38 | MIN / MAX: 3.14 | | | | | | |
| 36" | AVERAGE FC: 13.40 | SHOWN | AVERAGE FC: 11.52 | | | | | | |
| | MIN / MAX: 4.09 | ABOVE | MIN / MAX: 2.86 | | | | | | |
| 42" | AVERAGE FC: 11.51 | AVERAGE FC: 10.73 | SHOWN | | | | | | |
| | MIN / MAX: 4.36 | MIN / MAX: 3.16 | ABOVE | | | | | | |



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STATIC WHITE PERFORMANCE - 3000K

| CRI/ | | WALLWASH | | | | | | | |
|------------------------|---------|-----------|-----|-----------|-----|--|--|--|--|
| WATTAGE | WATTAGE | 2F | W | 2SW | | | | | |
| PACKAGE | | DELIVERED | LPW | DELIVERED | LPW | | | | |
| 80S06A | 6 | 415 | 69 | 351 | 59 | | | | |
| 80S11A | 11 | 680 | 56 | 554 | 49 | | | | |
| 80S15A | 15 | 926 | 62 | 770 | 51 | | | | |
| 80S21A | 21 | 1245 | 59 | 1029 | 49 | | | | |
| 90S06A | 6 | 358 | 62 | 303 | 53 | | | | |
| 90S11A | 11 | 586 | 53 | 478 | 43 | | | | |
| 90S15A | 15 | 798 | 53 | 664 | 44 | | | | |
| 90S21A | 21 | 1073 | 51 | 887 | 42 | | | | |
| 97S06A | 6 | 315 | 53 | 267 | 44 | | | | |
| 97S11A | 11 | 516 | 47 | 421 | 38 | | | | |
| 97S15A | 15 | 702 | 47 | 584 | 39 | | | | |
| 97S21A | 21 | 944 | 45 | 781 | 37 | | | | |
| 90W11A (WL 27K-18K) | 11 | 408 | 42 | 355 | 37 | | | | |
| 90W11A (WD 30K-18K) | 11 | 412 | 43 | 354 | 37 | | | | |
| 90W15A (WL 27K-18K) | 15 | 571 | 38 | 496 | 33 | | | | |
| 90W15A (WD 30K-18K) | 15 | 578 | 38 | 497 | 33 | | | | |
| 90W17A (TR 40K-18K) | 17 | 700 | 42 | 610 | 36 | | | | |
| 90W17A (TH 50K-27K) | 17 | 694 | 41 | 605 | 36 | | | | |

JA8-2022 INDICATED BY SHADING

JA8-2022 TITLE 24 COMPLIANT CONFIGURATIONS

| | | WW Optic | | | | | | | | | | |
|-----|--------------|--------------|--------------|--------------|--------------|-----|------|------|------|------|------|------|
| | | 90S | | 975 | | | 90W | | | | 90T | |
| | 11A | 15A | 21A | 11A | 15A | 21A | 11AL | 11AD | 15AL | 15AD | 17AR | 17AH |
| 2RW | \checkmark | \checkmark | \checkmark | \checkmark | \checkmark | ~ | | | | | | |
| 2SW | | | | | | | | | | | | |

OUTPUT MULTIPLIER

| CCT | CCT SCALE |
|-------|-----------|
| 2400K | 0.76 |
| 2700K | 0.97 |
| 3000K | 1.000 |
| 3500K | 1.03 |
| 4000K | 1.08 |
| | |

TUNABLE WHITE MULTIPLIER

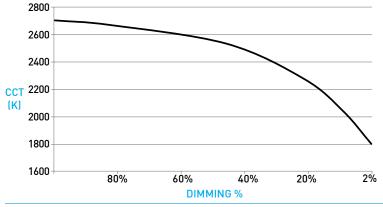
| 5000K- 2700K | 4000K- 1800K |
|-----------------|---------------------------------------|
| 1.16 | - |
| 1.08 | 1.14 |
| 1.04 | 1.07 |
| 1.00 | 1.00 |
| 0.96 | 0.92 |
| - | 0.84 |
| - | 0.69 |
| | 2700K 1.16 1.08 1.04 1.00 |

WARM DIM PERFORMANCE

INCANDESCENT PROFILE

| 90W11AL 2700K - 1800K | Full on 100% | Dimmed to 80% | Dimmed to 70% | Dimmed to 50% | Dimmed to 20% | Dimmed to 10% | Dimmed to 2% |
|--------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| ССТ (К) | 2700 | 2650 | 2625 | 2550 | 2200 | 1900 | 1800 |
| Light Output (Lm) | 408 | 326 | 286 | 204 | 82 | 41 | 8 |
| Power (W) | 11 | 9 | 8 | 6 | 2.2 | 1.1 | .2 |
| Efficacy (LPW) | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| | | | | | | | |
| 90W15AL 2700K - 1800K | Full on 100% | Dimmed to 80% | Dimmed to 70% | Dimmed to 50% | Dimmed to 20% | Dimmed to 10% | Dimmed to 2% |
| | | | | | | | |
| 2700K - 1800K | 100% | to 80% | to 70% | to 50% | to 20% | to 10% | to 2% |
| 2700K - 1800K CCT (K) | 100% 2700 | to 80% | to 70% | to 50% 2550 | to 20% | to 10% | to 2% |

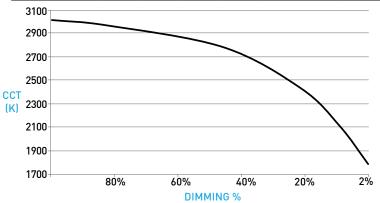
2000



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| 90W11AD 3000K - 1800K | Full on 100% | Dimmed to 80% | Dimmed to 70% | Dimmed to 50% | Dimmed to 20% | Dimmed to 10% | Dimmed to 2% |
|--------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| ССТ (К) | 3000 | 2950 | 2920 | 2775 | 2375 | 2000 | 1800 |
| Light Output (Lm) | 412 | 330 | 288 | 206 | 82 | 41 | 8 |
| Power (W) | 11 | 9 | 8 | 6 | 2.2 | 1.1 | .2 |
| Efficacy (LPW) | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| | | | | | | | |
| 90W15AD 3000K - 1800K | Full on 100% | Dimmed to 80% | Dimmed to 70% | Dimmed to 50% | Dimmed to 20% | Dimmed to 10% | Dimmed to 2% |
| | | | | | | | |
| 3000K - 1800K | 100% | to 80% | to 70% | to 50% | to 20% | to 10% | to 2% |
| 3000K - 1800K CCT (K) | 100% 3000 | to 80% | to 70% | to 50% | to 20% | to 10% 2000 | to 2% |

STANDARD PROFILE



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DOWNLIGHT

Die-cast baffle and precision kick reflector provide dynamic wallwashing and minimal aperture glare.

ADJUSTABLE YOKE

Adjustable yoke allows for quick access to optic and media.

OPTICS

Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering a 40° wallwashing beam.

C MEDIA

Wallwash lens included and sealed in place on wet location fixtures

TRIM PLATE

- Dry / Damp Location: Thickness measures 0.065" (1.7mm)
- Wet Location: Sealed aperture and integral silicone gasket. 0.17" (4.3mm) return, installed as flange overlay only.

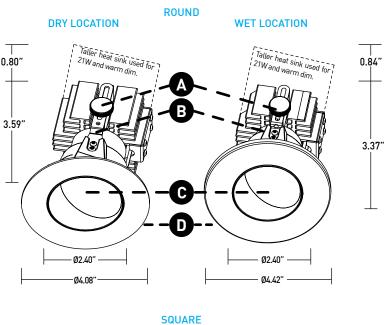
DOWNLIGHT TRIM ADAPTER

Included with fixture and required for installation. Provides required alignment with trim, ensuring fixture aim integrity is maintained Uses (2) #6-32 flat-head screws with varying lengths to accommodate ceiling depth. Installed after ceiling is complete.

RETENTION

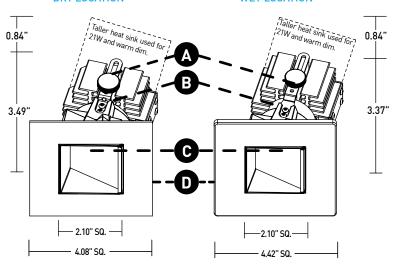
Engineered integral ball plungers correspond to trim adapter ensuring snug fit against finished ceiling.

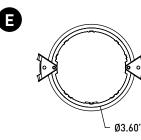
DIMENSIONS / DRAWINGS

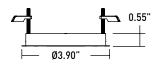


DRY LOCATION

WET LOCATION









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HOUSING

- E LOW FLUX NO INSULATION CONTACT (NON-IC) HOUSING
- Included with NC and NR Low Flux wattage packages.
 Minimum 0.50" (13mm) setback from combustible and non-
- combustible materials on all sides and top of housing.
 Minimum 3.00" [76mm] setback from insulation material based and top of housing.
- Minimum 3.00" (76mm) setback from insulation material having max R-Value 30 on all sides and top of housing.
- Minimum 6.00" (152mm) setback from polycell spray foam insulation having max R-Value 60.

LOW FLUX INSULATION CONTACT (IC) HOUSING

- Included with IC, IR, AT, and AR LOW Flux wattage packages.
- No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

G HIGH FLUX / WARM DIM HOUSING

- Satisfies IC, Airtight and NON-IC configurations.
- Included with all HIGH Flux and Warm Dim wattage packages.
- No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

HOUSING MOUNTING NOTES

- AT and AR install types are required for CCEA, Airtight and Title 24 (JA8) applications.
- Do not install in environments where ambient temperatures exceed 40°C (104°F).
- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars fitted to short and long side of Low Flux Housing, and short side only of High Flux / Warm Dim Housing; extend from 14.0" to 24.0", but may be field cut to accommodate narrow stud spacing. Can be extended up to 46" maximum with 2S-HBE-46 kit.
- Hanger bars and brackets add 4.00" to the overall dimension, but are exclusive of the setback requirements.
- Driver assembly ships with trim, not housing. Housing and trim feature push nuts and lever nuts for ease of installation.

REMOTE POWER SUPPLY

Provided with install types "IR", "NR" and "AR". See page 7 for maximum allowable wiring distances. Must be installed in an accessible location.

ATHENA / CASAMBI CONTROL

Controls integrated into housing or remote driver assembly. All equipment is serviceable.

Athena Model Numbers: A-WN-D01-RF-BL & DFC-0EM-DBI

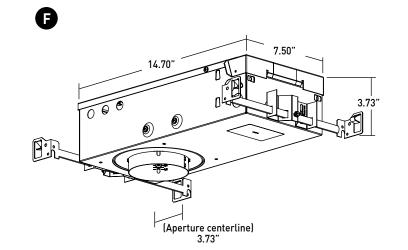
Casambi Model Number: BT-S1E1-5400

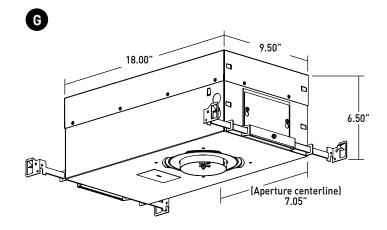
ATHENA / CASAMBI EM SHUNT

Inlcuded with drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt. Features integrated test switch.

Model Number: PS-RMT-SHUNT

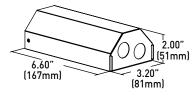
DIMENSIONS / DRAWINGS



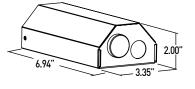




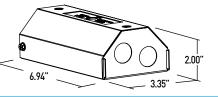
STANDARD ENCLOSURE



ATHENA / CASAMBI ENCLOSURE









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REMODEL POWER SUPPLY

- **K** REMODEL POWER SUPPLY
- Included with RM Install Type.
- UL2043 listed for air-handling plenum.
- Fixture mounts without conventional housing using supplied downlight trim adapter.
- Minimum 0.75" clearance from top of fixture.
- Minimum setback from combustible and non-combustible materials of 6.63" radius from fixture centerline.
- Minimum 3.00" setback from surfaces of power supply / junction box if not situated within above noted radius from fixture centerline.
- Minimum additional 3.00" setback from insulation material with max R-Value 30 from any surface of downlight fixture assembly.
- Minimum additional 6.00" setback from polycell spray foam insulation with max R-Value 60 from any surface of downlight fixture assembly.

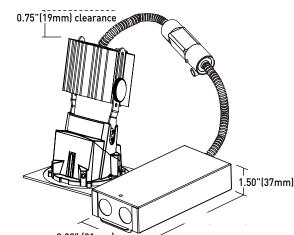
REMODEL NOTES

- Do not install in environments where ambient temperatures exceed 40°C (104°F).
- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.

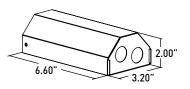
REMOTE APPLICATIONS

- Remote power supply included with RR Install Type.
- Must be installed in an accessible dry/damp location.
- Do not install in environments where ambient temperatures exceed 40°C (104°F)
- Requires plenum rated Class 2 cable between fixture and remote driver. Cable supplied by others.
- See page 7 for maximum allowable wiring distances.

DIMENSIONS / DRAWINGS



3.20" (81mm) 💛



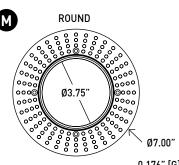
ZERO-SIGHTLINE INSTALLATIONS

Fixture regresses flush with the finished ceiling plane when installed according to manufacturer instructions and finished ceiling conditions are met. Consult 2-Series Installation Guidelines for appropriate ceiling cutouts and instructions for proper Zero-Sightline installations.

- Specified on Flange Configuration and ships with housing; ships separately on remodel installations.
- For use in sheetrock ceiling applications.
 - 1/16" Appliqué (G Flange Configuration) recommended for gypsum ceiling installations and has plaster stop thickness of 1/16". Recommended for painted ceiling applications.
 - 1/8" Appliqué (P Flange Configuration) offers double thick plaster stop of 1/8" where a heavier application of mud is preferred. Recommended for colorfast and venetian plaster applications.
- Not recommended for stucco applications.

N ROUTER TOOL GUIDE

- Specified separately and used with Flange Overlay configurations.
- For use in wood ceiling applications.
- DLA-RTG-2S-RD or DLA-RTG-2S-SQ required for wood Zero-Sightline ceiling installations.
- Router tool guide is reusable and suitable for multiple fixtures.



0.03" 0.238" [P] 0.062" placter stop [6]

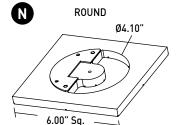
0.062" plaster stop [G] 0.125" plaster stop [P] SQUARE

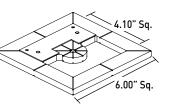


0.062" plaster stop [G] 0.125" plaster stop [P]

SQUARE

0.03







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TECHNICAL INFORMATION

CONSTRUCTION

<u>Downlight</u>: Steel and aluminum; extruded aluminum heat-sink; painted finishes are granulated powder coat. 304 corrosion resistant stainless steel faceplate for wet location fixtures.

<u>Trim Adapter</u>: High-impact composite and stainless steel. <u>Housing</u>: 22 Gauge galvanized steel. <u>Appliqué</u>: Zinc alloy.

STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2700K, 3000K, 3500K and 4000K. 3-step MacAdam ellipse LED module available in 90+ configuration in color temperature of 2400K. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

WARM DIM LED

3-step MacAdam ellipse warm dim LED module available in 90+ CRI configuration. 3000K or 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

TUNABLE WHITE LED

3-step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K and 1800K to 4000K. Average rated lamp life of 50,000 hours. Driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

| | PHASE | EC | 0 | | | 0-1 | 10V | | | | DALI-2 | | ATHENA | CASAMBI |
|-----------------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Power Supply | TR2 | LH1 | LP1 | EA2 | LA2 | AN4 | LN2 | DG1 | DN1 | ED1 | LD1 | DD1 | AS1/AD1 | CS1/CD1 |
| Minimum °C | -20 °C | 0°C | 0°C | -20 °C | 0°C | -20 °C |
| Maximum °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C | 40 °C |
| Dimming % | 2.0% | 1.0% | 0.1% | 0.1% | 0.1% | 1.0% | 1.0% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% |

Note: For EA2 and LA2 drivers consult chart on page 9 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

| | WIRE AWG | | | | |
|---|----------|------|------|-----|-----|
| DRIVER | 12 | 14 | 16 | 18 | 20 |
| TR2, AN4, LN2 | 285' | 180' | 113' | 71' | 45' |
| LH1, LP1 | 60' | 40' | 25' | 15' | - |
| EA2, LA2, ED1, LD1, DG1, DN1, DD1, AS1, AD1, CS1, CD1 | - | - | 118' | 72' | 46' |

SPACING

Recommended fixture spacing is 36" on center with 36" setback from wall plane.

FIXTURE WEIGHT

Trim - 2 lbs max Low Flux Housing - 4.2 lbs High Flux / Warm Dim Housing - 7.4 lbs Remote / Remodel Driver - 1.4 lbs

LISTING

cTUVus listed to UL1598 standard for Dry / Damp and Wet locations. CCEA, Airtight and Title 24 JA8-2022 Listed. NEMA 410 Compliant.

DECLARE

LBC Red List Approved.

LIMITED WARRANTY

Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service for 1-year. LED and power supplies are warranted to operate with 70% of original flux and remain within a range of 3 duv for a period of 5-years. 10-year Lutron Advantage limited warranty available on Lutron equipped systems. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

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As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.



1.04/06/2022: REMOVED REMOTE REMODEL ACCESSORY KIT DLA2-RMT-AK.

2. 10/17/2022: REMOVED 90WA12H 3200K-1800K WARM DIM AND ADDED 90WA12H 3000K-1800K WARM DIM. 3. 11/28/2022: REMODEL FIXTURES UPDATED WITH METAL CLASP

CONNECTORS.

4.04/26/2023: ADDED DECLARE LBC RED LIST APPROVED.

5.08/08/2023: UPDATED WITH NEW LED AND OPTIC SYSTEM. 6.01/11/2024: ADDED ATHENA AND CASAMBI CONTROL OFFERING. ADDED 2400K OFFERING.

7.02/07/2024: ADDED TUNABLE WHITE OFFERING.

8.05/13/2024: UPDATED LH1 WATTAGE MINIMUM

9. 07/15/2024: REMOVED L23 DRIVER OFFERING



[PH] +1-210-227-7329 [FAX] +1-210-227-4967

t, the company [FAX] +1-210-

[DATE OF REV: 07152024]

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

| Power supply TR2 Manufacturer | Family/Model # |
|---|-----------------------|
| Lutron Electronics | DV-600P |
| Lutron Electronics | DVELV-303P |
| Lutron Electronics | NTELV-600 |
| Lutron Electronics | MAELV-600 |
| Lutron Electronics | SELV-300P |
| Lutron Electronics | DVLV-600P |
| Lutron Electronics | NFTU-5A |
| Lutron Electronics | CTCL-153P |
| Lutron Electronics | GL-600H |
| Lutron Electronics | S-600P |
| Lutron Electronics | PHPM |
| Power supply AN4 Manufacturer | Family/Model # |
| Lutron Electronics | DVTV plus PP-DV |
| Lutron Electronics | DVSCTV plus PP-DV |
| Lutron Electronics | DVSTV |
| Lutron Electronics | DVSCSTV |
| Lutron Electronics | QSGRJ-XP plus GRX-TVI |
| Lutron Electronics | QSGRJ-XE plus GRX-TVI |
| Lutron Electronics | QSGR-XE plus GRX-TVI |
| Lutron Electronics | NFTV plus PP-DV |
| Lutron Electronics | NTSTV |
| Lutron Electronics | RMJ-5T |
| Lutron Electronics | RMJS-8T |
| Lutron Electronics | FCJS-010 |
| Leviton | IllumaTch IP7 series |
| Philips | Sunrise - SR1200ZTUNV |

LUTRON DRIVER COMPATIBILITY

| Power supply LH1 / LP1 Lutron Product Family | Part No. |
|---|----------------------------|
| PowPak Dimming Modules | RMJ-EC032-DV-B |
| PowPak Dimming Modules | FCJ/FCJS-ECO |
| Energi Savr Nodes | QSN-1ECO-S |
| GRAFIK Eye QS control unit Homeworks QS control unit | QSN-2ECO-S |
| GRAFIK Eye QS control unit Homeworks QS control unit | QSGRJE (wireless) QSGRE |
| Quantum Hub | QP22C |
| Quantum Hub | QP24C |
| Quantum Hub | QP26C |
| Quantum Hub | QP28C |
| Homeworks QS power module myRoom Plus power module | LQSE-2ECO-D |

eldoLED DRIVER COMPATIBILITY

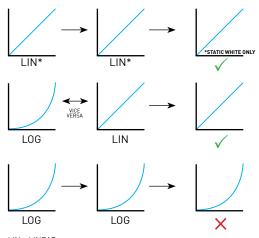
| Power supply EA2/LA2 Manufacturer | Family/Model # |
|---|--------------------------------|
| Busch-Jaeger | 2112U-101 |
| Jung | 240-10 |
| Leviton Lighting Controls | IP710-DLX |
| Lightolier Controls | ZP600FAM120 |
| Merten | 5729 |
| Pass & Seymour | CD4FB-W |
| The Watt Stopper | DCLV1 |
| Synergy | ISD BC |
| Crestron® | GLX-DIMFLV8 |
| Crestron® | GLXP-DIMFLV8 |
| Crestron® | GLPAC-DIMFLV4-* |
| Crestron® | GLPAC-DIMFLV8-* |
| Crestron® | GLPP-DIMFLVEX-PM |
| Crestron® | GLPP-1DIMFLV2EX-PM |
| Crestron® | GLPP-1DIMFLV3EX-PM |
| Crestron® | DIN-A08 |
| Crestron® | DIN-4DIMFLV4 |
| Crestron® | CLS-EXP-DIMFLV |
| Crestron® | CLCI-1DIMFLV2EX |
| Power supply EA2/LA2 Manufacturer | Family/Model # |
| Lutron Electronics | Nova T® - NTFTV |
| Lutron Electronics | Diva® - DVTV |
| Lutron Electronics | Nova® - NFTV |
| Lutron Electronics | GrafixEye® GRX-TVI w GRX3503 |
| Lutron Electronics | Energy Savr Node™ - QSN-4T16-S |
| Lutron Electronics | TVM2 Module |
| Sensor Switch | nIO EZ |
| ABB | SD/S 2.16.1 |

ANALOG DRIVERS AND DIMMERS

DRIVER

DIMMER

OUTPUT



LIN = LINEAR LOG = LOGARITHMIC *LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM



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