

2 SERIES LED

SHALLOW REGRESS

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

PROJECT NAME:

TYPE:



ORDERING INFORMATION



Quick Ship Product. All rough in components ship within 10 days up to quantities of 100.



JA8-2022 INDICATED BY SHADING

| TRIM | RATING | FLANGE FINISH | CRI | WATTAGE | CCT | OPTIC (UGR) | INSTALL TYPE | CEILING THICKNESS | POWER SUPPLY | MEDIA | FLANGE CONFIGURATION |
|--|---|--|--|--|---|--|---|---|--|---|---|
| 2RS Round Expanded Shallow 2PS Round Pinhole Shallow 2SS Square Expanded Shallow | 1 IP20 Dry/Damp 2 IP64 Wet* *(Lens sealed in place) | WH White AG Satin Silver IG Industrial Gray AU Cashmere Gold AB Arch Bronze BB Burnt Bronze BK Black PR Primer SS Stainless Steel* CF Custom* *(Increased lead time) *(Consult Factory) | LOW FLUX/ HIGH FLUX STATIC WHITE 80S 80+ 90S 90+ 97S 97+ | LOW FLUX STATIC WHITE 3.73" TALL HOUSING 06A 06W Lm - 2RS 611, 2PS 592, 2SS 550 11A 11W Lm - 2RS 993, 2PS 958, 2SS 1003 15A 15W Lm - 2RS 1340, 2PS 1297, 2SS 1353 HIGH FLUX STATIC WHITE 6.5" TALL HOUSING 21A 21W Lm - 2RS 1833, 2PS 1743, 2SS 1851 WARM DIM 6.5" TALL HOUSING 11A 11W 15A 15W 22A 22W Incandescent Profile 11A Lm - 2RS 849, 2PS 847, 2SS 848 15A Lm - 2RS 1131, 2PS 1130, 2SS 1131 22A Lm - 2RS 1471, 2PS 1468, 2SS 1470 Halogen Profile 11A Lm - 2RS 893, 2PS 892, 2SS 893 15A Lm - 2RS 1191, 2PS 1189, 2SS 1190 22A Lm - 2RS 1596, 2PS 1593, 2SS 1595 *SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON. TUNABLE WHITE 6.5" TALL HOUSING 17A 17W Warm Profile Lm - 2RS 1280, 2PS 1162, 2SS 1293 Cool Profile Lm - 2RS 1137, 2PS 1152, 2SS 1148 *ALL DELIVERED LUMEN OUTPUTS REFLECT 3000K PAIRED WITH 20° OPTIC AND SOFT FOCUS LENS. **ALL T-24 COMPLIANCE REFLECT 3000K PERFORMANCE. REFERENCE PAGE 3 FOR COMPLETE T24 COMPLIANT CONFIGURATION BREAKDOWN. | 24 2400K* *(190 CRI only, 15W max) 27 2700K 30 3000K 35 3500K 40 4000K 15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) 15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) 15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) 4000K - 1800K 3000K - 1800K 4000K - 1800K 5000K - 2700K | 10 10° (<13) 15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) *(Not recommended for 2PS) *(Not recommended for 2PS) *(Not recommended for 2PS) | Housing W/ Integral Driver (HB) NC NIC IC IC AT IC, Airtight *(CEA, Airtight and Title 24 compliant housing) Housing W/ Remote Driver (HR) NR NIC, Remote IR IC, Remote AR IC, Airtight, Remote* *(CEA, Airtight and Title 24 compliant housing) Remodel RR Remote-Remodel | 0 0.125" - 0.49"* *(RM, RR Install Types only) 1 0.50" - 0.75" 2 0.76" - 1.25" 3 1.26" - 2.00" 4 2.01" - 3.00" | (120V) TR2 Philips, 2% Forward/Reverse (120-277V) LH1 Lutron, HI-Lume 1% Ecosystem* *(Not available for 6W) LP1 Lutron, Premier 0.1% Ecosystem Philips Titanium 1% 0-10V, LOG AN4 Philips Titanium 1% 0-10V, LIN LN2 Philips Titanium 1% 0-10V, LIN eldoLED, SOLDdrive ED1 eldoLED, SOLDdrive 0.1% DALI-2, LOG LD1 eldoLED, 0.1% DALI-2, LIN AS1/ Athena Control ASR eldoLED, 0.1% 120-277V* CS1/ Casambi Control CSR eldoLED, 0.1% 120-277V* *(Includes Node. Extended lead time, consult factory. ASR/CSR includes remote shunt) TUNABLE WHITE REMOTE (0.1%, 120-277V) DD1 eldoLED, DUALdrive DALI-2, LOG DG1 eldoLED, DUALdrive 0-10V, LOG DN1 eldoLED, DUALdrive 0-10V, LIN AD1/ Athena Control, ADR EtdoLED, DUALdrive* CD1/ Casambi Control, CDR EtdoLED, DUALdrive* *(Includes Node. Extended lead time, consult factory. ASR/CSR includes remote shunt) | Standard Media 04 Soft Focus Lens *(Required for 10° optic) Alternate Media NL No Lens* *(Not available for wet location) 02 Honeycomb Louver* *(Not available for wet location) 03 Clear Glass Lens 05 Frosted Glass Lens 09 Ultra Violet Lens 11 Shatterproof Soft Focus Lens 12 Shatterproof Frosted Lens 26 Frosted Linear Spread Lens* *(Not available for wet location) | F Flange Overlay (No Applique)* *(Required for Zero-Sightline wood applications) G Zero Sightline Gypsum (1/16" Applique)* *(Not available for wet location) P Zero Sightline Plaster (1/8" Applique)* *(Not available for wet location) |

PART NUMBER NOTES

- Trims ships as e.g., 2RS1-WH-80S15A2-2HB1-TR204
- Housing ships as e.g., NCL-2RF-1-LED-01
- Drivers ship with trim
- Appliqué ships with housing



Declare.

LUCIFER LIGHTING COMPANY

luciferlighting.com

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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.

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[FAX] +1-210-227-4967

2 SERIES LED SHALLOW REGRESS

ACCESSORIES

SECONDARY MEDIA

- HCL-2** Honeycomb Louver
- CGL-2** Clear Glass Lens
- SFL-2** Soft Focus Lens
- FGL-2** Frosted Glass Lens
- UVL-2** Ultra Violet Lens
- FLSL-2** Frosted Linear Spread Lens
- SFL-2-SP** Shatterproof Soft Focus Lens
- FGL-2-SP** Shatterproof Frosted Lens

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

STATIC WHITE REPLACEMENT OPTICS

- RO-50-15-S** 15° optic
- RO-50-20-S** 20° optic
- RO-50-25-S** 25° optic
- RO-50-40-S** 40° optic
- RO-50-60-S** 60° optic*

*(Not recommended for 2PA)

WARM DIM REPLACEMENT OPTICS

- RO-50-20-W** 20° optic
- RO-50-25-W** 25° optic
- RO-50-40-W** 40° optic
- RO-50-60-W** 60° optic*

*(Not recommended for 2PA)

TUNABLE WHITE REPLACEMENT OPTICS

- RO-50-15-T** 15° optic
- RO-50-20-T** 20° optic
- RO-50-25-T** 25° optic
- RO-50-40-T** 40° optic
- RO-50-60-T** 60° optic*

*(Not recommended for 2PA)

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" - 1.25".

- DHA-FC-KIT**

ADJUSTMENT TOOL

One included with every four fixtures.

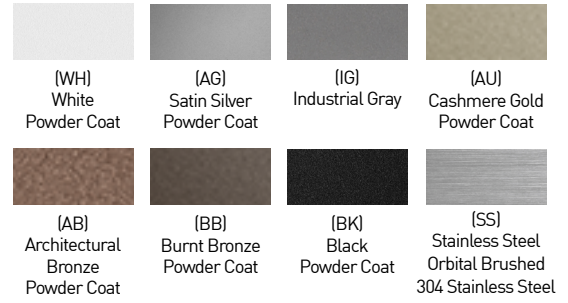
- TOOL-HEX-050**

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



2 SERIES LED SHALLOW REGRESS

PERFORMANCE - 3000K

| CRI / WATTAGE PACKAGE | WATTAGE | SHALLOW REGRESS - 20° OPTIC - SOFT FOCUS LENS | | | | | |
|------------------------|---------|---|-----|-----------|-----|-----------|-----|
| | | 2RS | | 2PS | | 2SS | |
| | | DELIVERED | LPW | DELIVERED | LPW | DELIVERED | LPW |
| 80S06A | 6 | 709 | 118 | 687 | 114 | 638 | 106 |
| 80S11A | 11 | 1152 | 105 | 1111 | 101 | 1163 | 106 |
| 80S15A | 15 | 1554 | 104 | 1504 | 100 | 1569 | 105 |
| 80S21A | 21 | 2126 | 101 | 2022 | 96 | 2147 | 102 |
| 90S06A | 6 | 611 | 101 | 592 | 98 | 550 | 91 |
| 90S11A | 11 | 993 | 90 | 958 | 87 | 1003 | 91 |
| 90S15A | 15 | 1340 | 89 | 1297 | 86 | 1353 | 90 |
| 90S21A | 21 | 1833 | 87 | 1743 | 83 | 1851 | 88 |
| 97S06A | 6 | 538 | 89 | 521 | 86 | 484 | 80 |
| 97S11A | 11 | 874 | 79 | 843 | 77 | 883 | 80 |
| 97S15A | 15 | 1179 | 79 | 1141 | 76 | 1191 | 79 |
| 97S21A | 21 | 1613 | 77 | 1534 | 73 | 1629 | 77 |
| 90L11AWL (2700K-1800K) | 11 | 849 | 77 | 847 | 77 | 848 | 77 |
| 90L11AWD (3000K-1800K) | 11 | 893 | 81 | 892 | 81 | 893 | 81 |
| 90L15AWL (2700K-1800K) | 15 | 1131 | 75 | 1130 | 75 | 1131 | 75 |
| 90L15AWD (3000K-1800K) | 15 | 1191 | 79 | 1189 | 79 | 1190 | 79 |
| 90L22AWL (2700K-1800K) | 22 | 1471 | 67 | 1468 | 67 | 1470 | 67 |
| 90L22AWD (3000K-1800K) | 22 | 1596 | 73 | 1593 | 72 | 1595 | 72 |
| 90T17ATR (4000K-1800K) | 17 | 1280 | 60 | 1162 | 68 | 1293 | 68 |
| 90T17ATH (5000K-2700K) | 17 | 1137 | 58 | 1152 | 69 | 1148 | 60 |



JA8-2022 INDICATED BY SHADING

| CRI / WATTAGE PACKAGE | WATTAGE | SHALLOW REGRESS - 10° OPTIC - FIELD REDUCER | | | | | |
|-----------------------|---------|---|-----|-----------|-----|-----------|-----|
| | | 2RS | | 2PS | | 2SS | |
| | | DELIVERED | LPW | DELIVERED | LPW | DELIVERED | LPW |
| 80S15C | 15 | 494 | 33 | 447 | 30 | 493 | 33 |
| 90S15C | 15 | 426 | 28 | 385 | 26 | 425 | 28 |
| 97S15C | 15 | 368 | 25 | 332 | 22 | 367 | 24 |

| OUTPUT MULTIPLIER | | MEDIA LIGHT LOSS FACTOR | | TUNABLE WHITE MULTIPLIER | | |
|-------------------|-----------|-------------------------|-------------------|--------------------------|-------------|-------------|
| CCT | CCT SCALE | MEDIA | LIGHT LOSS FACTOR | CCT | 5000K-2700K | 4000K-1800K |
| 2400K | 0.76 | NO LENS | 1.04 | 5000K | 1.16 | - |
| 2700K | 0.97 | CGL | 1.01 | 4000K | 1.08 | 1.14 |
| 3000K | 1.000 | SFL | 1.00 | 3500K | 1.04 | 1.07 |
| 3500K | 1.03 | FGL | 0.89 | 3000K | 1.00 | 1.00 |
| 4000K | 1.08 | FSFL | 0.80 | 2700K | 0.96 | 0.92 |
| | | FLSL | 0.79 | 2400K | - | 0.84 |
| | | HCL | 0.67 | 1800K | - | 0.69 |

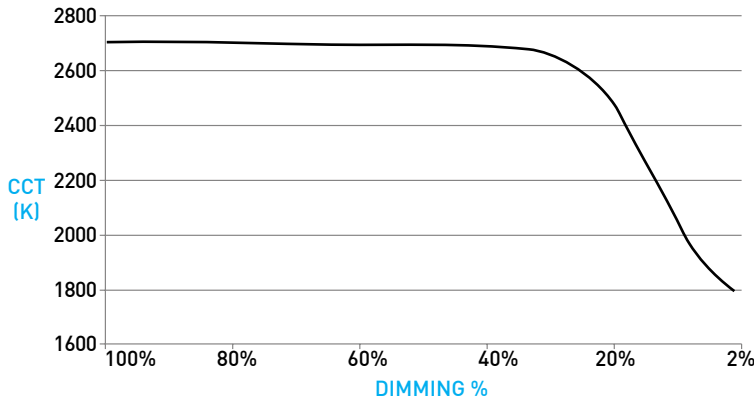
UNIFIED GLARE RATING

| 10° OPTIC FIELD REDUCER | 20° OPTIC SOFT FOCUS LENS | 25° OPTIC SOFT FOCUS LENS | 40° OPTIC SOFT FOCUS LENS | 60° OPTIC SOFT FOCUS LENS |
|-------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| <19 | <16 | <16 | <19 | <16 |

WARM DIM PERFORMANCE - 2RS - 25° OPTIC - SOFT FOCUS LENS

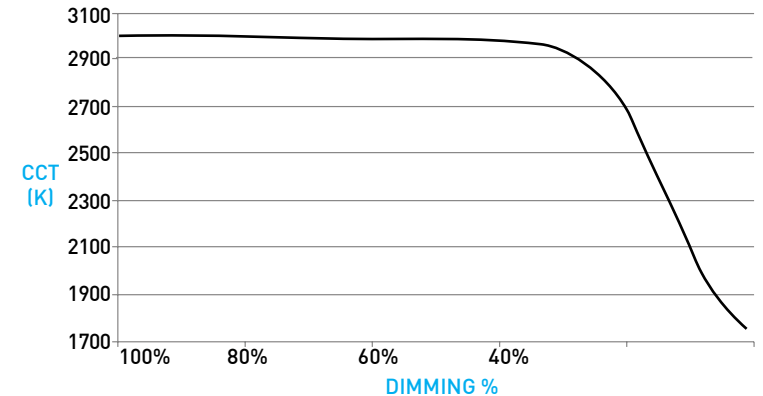
INCANDESCENT PROFILE

| | Full on 100% | Dimmed to 80% | Dimmed to 70% | Dimmed to 50% | Dimmed to 20% | Dimmed to 10% | Dimmed to 2% |
|------------------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|
| 90L11AWL 2700K - 1800K | 2700K | 2700K | 2700K | 2600K | 2200K | 1900K | 1800K |
| CCT (K) | 2700K | 2700K | 2700K | 2600K | 2200K | 1900K | 1800K |
| Light Output (Lm) | 849 | 679 | 594 | 425 | 170 | 85 | 17 |
| Power (W) | 11 | 8.8 | 7.7 | 5.5 | 2.2 | 1.1 | .2 |
| Efficacy (LPW) | 77 | 77 | 77 | 77 | 77 | 77 | 77 |
| 90L15AWL 2700K - 1800K | 2700K | 2700K | 2700K | 2700K | 2500K | 1900K | 1800K |
| CCT (K) | 2700K | 2700K | 2700K | 2700K | 2500K | 1900K | 1800K |
| Light Output (Lm) | 1131 | 905 | 792 | 566 | 226 | 113 | 23 |
| Power (W) | 15 | 12 | 10.5 | 7.5 | 3 | 1.5 | .3 |
| Efficacy (LPW) | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| 90L22AWL 2700K - 1800K | 2700K | 2700K | 2700K | 2700K | 2600K | 2100K | 1800K |
| CCT (K) | 2700K | 2700K | 2700K | 2700K | 2600K | 2100K | 1800K |
| Light Output (Lm) | 1471 | 1177 | 1030 | 736 | 294 | 147 | 29 |
| Power (W) | 22 | 17.6 | 15.4 | 11 | 4.4 | 2.2 | .4 |
| Efficacy (LPW) | 67 | 67 | 67 | 67 | 67 | 67 | 67 |



HALOGEN PROFILE

| | Full on 100% | Dimmed to 80% | Dimmed to 70% | Dimmed to 50% | Dimmed to 20% | Dimmed to 10% | Dimmed to 2% |
|------------------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|
| 90L11AWD 3000K - 1800K | 3000K | 3000K | 3000K | 3000K | 2500K | 1900K | 1800K |
| CCT (K) | 3000K | 3000K | 3000K | 3000K | 2500K | 1900K | 1800K |
| Light Output (Lm) | 893 | 714 | 625 | 447 | 179 | 89 | 18 |
| Power (W) | 11 | 8.8 | 7.7 | 5.5 | 2.2 | 1.1 | .2 |
| Efficacy (LPW) | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| 90L15AWD 3000K - 1800K | 3000K | 3000K | 3000K | 3000K | 3000K | 2000K | 1800K |
| CCT (K) | 3000K | 3000K | 3000K | 3000K | 3000K | 2000K | 1800K |
| Light Output (Lm) | 1191 | 953 | 834 | 596 | 238 | 119 | 24 |
| Power (W) | 15 | 12 | 10.5 | 7.5 | 3 | 1.5 | .3 |
| Efficacy (LPW) | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| 90L22AWD 3000K - 1800K | 3000K | 3000K | 3000K | 3000K | 3000K | 2500K | 1800K |
| CCT (K) | 3000K | 3000K | 3000K | 3000K | 3000K | 2500K | 1800K |
| Light Output (Lm) | 1596 | 1436 | 1277 | 795 | 319 | 160 | 32 |
| Power (W) | 22 | 17.6 | 15.4 | 11 | 4.4 | 2.2 | .4 |
| Efficacy (LPW) | 73 | 73 | 73 | 73 | 73 | 73 | 73 |



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

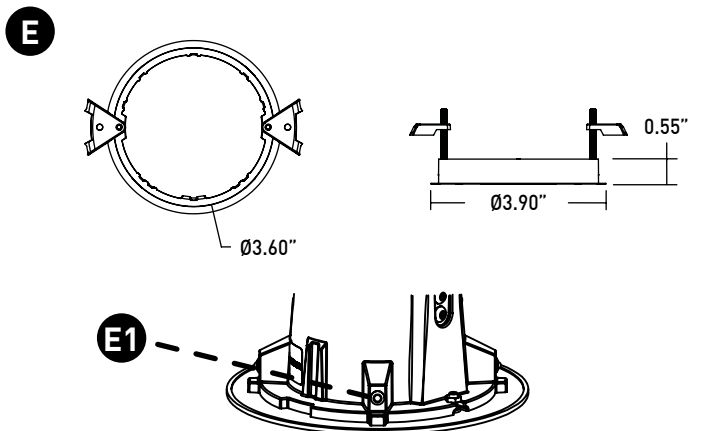
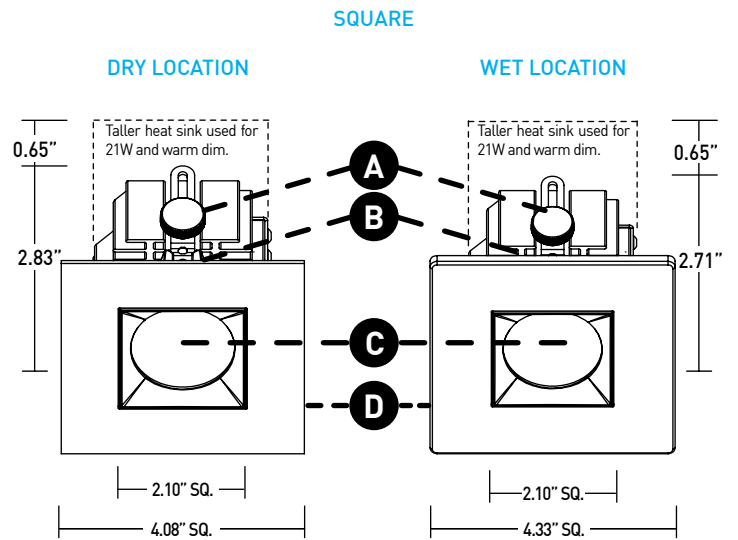
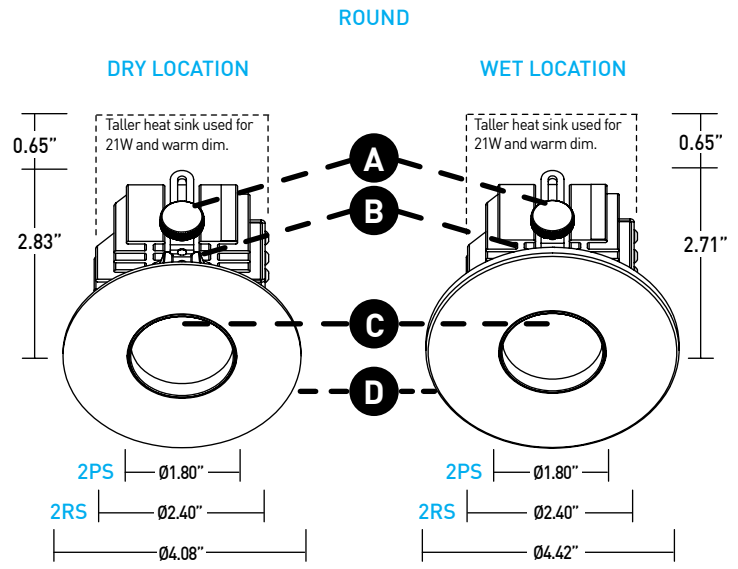
2 SERIES LED SHALLOW REGRESS

DOWNLIGHT

Die-cast shallow baffle minimizes aperture glare and conceals view into housing. Black finish standard.

- A ADJUSTABLE YOKE**
Adjustable yoke allows for quick exchange of optics and media. Accommodates up to 2 media; add 0.16" to fixture height with use of each media.
- B OPTICS**
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams. Soft Focus Lens, Honeycomb Louver, and Field Reducer provided with 10° optic.
- C MEDIA**
Soft Focus Lens standard; media must be specified. Lens is sealed in place on Wet location fixture. Secondary media available.
- D TRIM PLATE**
Wet location features integral silicone gasket.
 - Dry / Damp Location: Thickness measures 0.065".
 - Wet Location: 0.15" return, installed as flange overlay only.
- E 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.
- E1 RETENTION**
Integral ball plungers correspond to trim adapter ensuring snug fit against finished ceiling.

DIMENSIONS / DRAWINGS



2 SERIES LED SHALLOW REGRESS

HOUSING

- F LOW FLUX NO INSULATION CONTACT (NON-IC) HOUSING**
- Included with NC and NR Low Flux wattage packages.
 - Minimum 0.50" setback from combustible and non-combustible materials on all sides and top of housing.
 - Minimum 3.00" setback from insulation material having max R-Value 30 on all sides and top of housing.
 - Minimum 6.00" 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.

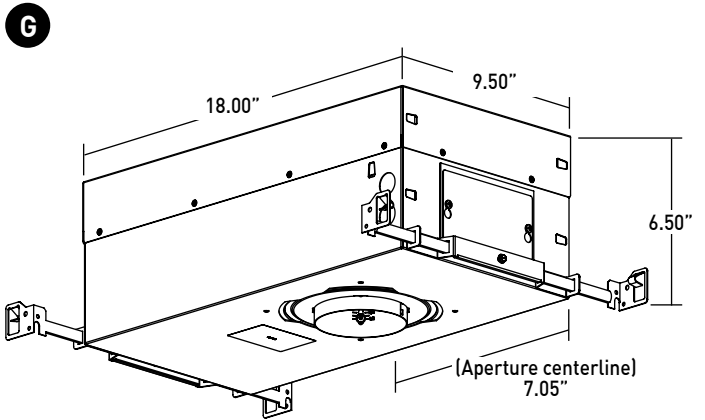
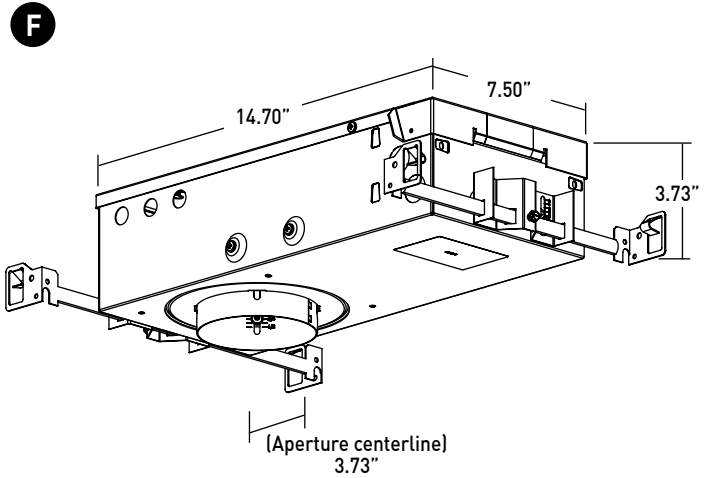
HOUSING MOUNTING NOTES

- 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.

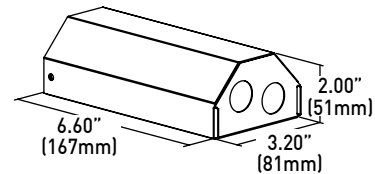
REMOTE POWER SUPPLY

- H** Provided with install types "IR", "NR" and "AR". See page 7 for maximum allowable wiring distances. Must be installed in an accessible location.
- I ATHENA / CASAMBI CONTROL**
Controls integrated into housing or remote driver assembly. All equipment is serviceable.
- Athena Model Numbers: A-WN-D01-RF-BL & DFC-OEM-DBI
- Casambi Model Number: BT-S1E1-5400
- J ATHENA / CASAMBI EM SHUNT**
Included with integral or remote drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt, as shunt is always remote. Remote power supply features integrated test switch.
- Model Number: PS-RMT-SHUNT

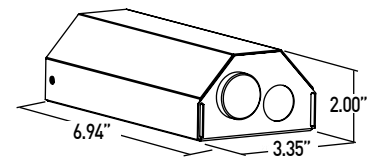
DIMENSIONS / DRAWINGS



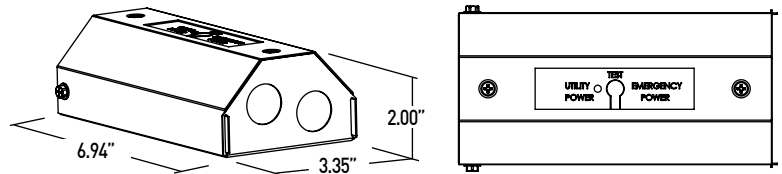
H **STANDARD ENCLOSURE**



I **ATHENA / CASAMBI ENCLOSURE**



J **ATHENA / CASAMBI EM SHUNT**



2 SERIES LED SHALLOW REGRESS

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.

L 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.

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.

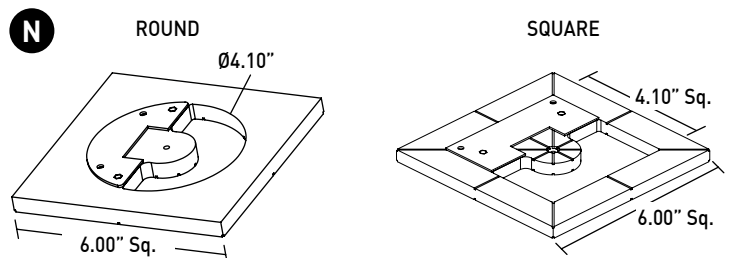
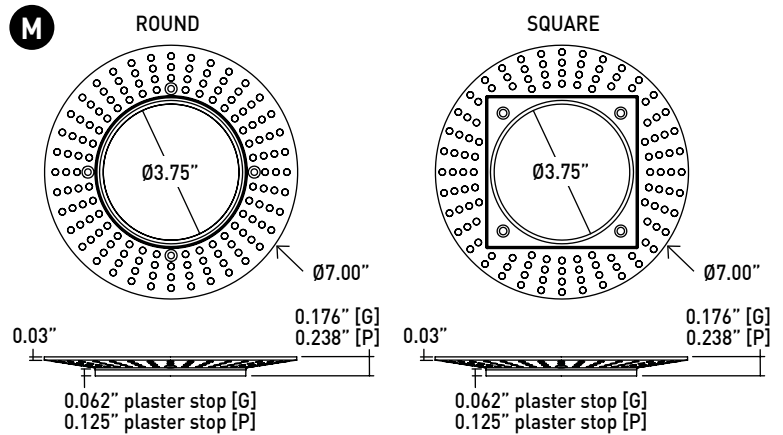
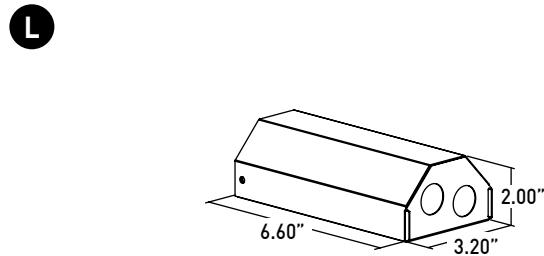
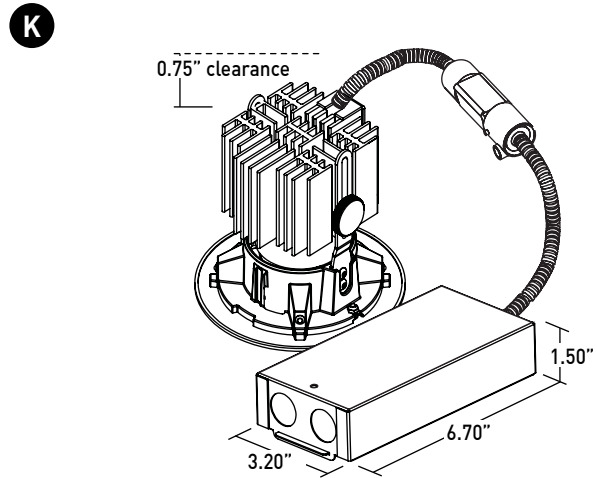
M APPLIQUÉ

- 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, minimum one per installer required.

DIMENSIONS / DRAWINGS



2 SERIES LED SHALLOW REGRESS

TECHNICAL INFORMATION

CONSTRUCTION

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

Trim Adapter: High-impact composite and stainless steel.

Housing: 22 Gauge galvanized steel.

Appliqué: 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

| Power Supply | PHASE | ECO | | 0-10V | | | | | | DALI-2 | | | ATHENA | CASAMBI |
|--------------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| | 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 | -20 °C | -20 °C | -20 °C | -20 °C | -20 °C | -20 °C | -20 °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 8 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

| DRIVER | WIRE AWG | | | | |
|---|----------|------|------|-----|-----|
| | 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' |

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 IP20 Dry / Damp and IP64 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.

CHANGE LOG

- 04/06/2022: REMOVED REMOTE REMODEL ACCESSORY KIT DLA2-RMT-AK.
- 10/17/2022: REMOVED 90WA12H 3200K-1800K WARM DIM AND ADDED 90WA12H 3000K-1800K WARM DIM.
- 11/28/2022: REMODEL FIXTURES UPDATED WITH METAL CLASP CONNECTORS.
- 04/26/2023: ADDED DECLARE LBC RED LIST APPROVED.
- 05/19/2023: UPDATED PERFORMANCE DATA WITH NEW OPTICS.
- 08/08/2023: UPDATED WITH NEW LED AND OPTIC SYSTEM.
- 01/11/2024: ADDED ATHENA AND CASAMBI CONTROL OFFERING. ADDED 2400K OFFERING.
- 02/07/2024: ADDED TUNABLE WHITE OFFERING.
- 3/15/2024: ADDED 10 DEGREE FIELD REDUCER, UPDATED 10 DEGREE PERFORMANCE DATA
- 05/13/2024: UPDATED LH1 WATTAGE MINIMUM
- 07/15/2024: REMOVED L23 DRIVER OFFERING
- 02/14/2025: UPDATED FINISH OFFERINGS
- 05/01/2025: UPDATED WARM DIM OFFERINGS AND PERFORMANCE



2 SERIES LED SHALLOW REGRESS

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 | DVSCV 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 | IlumaTch IP7 series |
| Philips | Sunrise - SR1200ZTUNV |

LUTRON DRIVER COMPATIBILITY

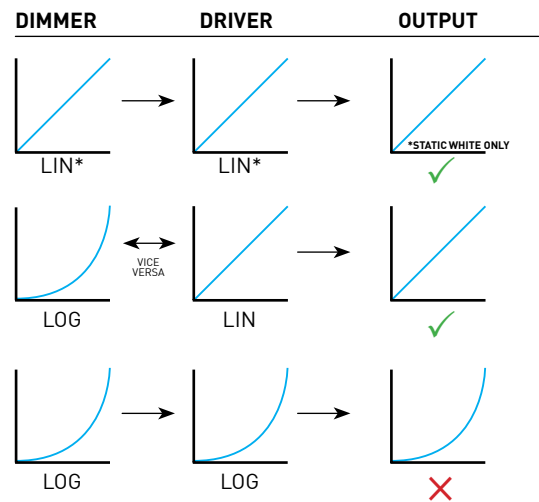
| Power supply LH1 / LP1 Lutron Product Family | Part No. |
|---|--------------------------------|
| PowPak Dimming Modules | RMJ-ECO32-DV-B |
| PowPak Dimming Modules | FCJ/FCJS-ECO |
| Energi Savr Nodes | QSN-1ECO-S |
| GRAFIK Eye QS control unit Homeworks QS control unit | QSN-2ECO-S |
| GRAFIK Eye QS control unit Homeworks QS control unit | QSGRJ-_E (wireless) QSGR-_E |
| Quantum Hub | QP2-_ _ 2C |
| Quantum Hub | QP2-_ _ 4C |
| Quantum Hub | QP2-_ _ 6C |
| Quantum Hub | QP2-_ _ 8C |
| 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



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