2 SERIES LED
DEEP 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	CRI / WATTAGE PACKAGE	CCT	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	POWER SUPPLY	MEDIA	FLANGE CONFIGURATION
2RD Round Expanded Deep **2PD** Round Pinhole Deep **2SD** Square Expanded Deep	**1** Dry / Damp **2** Wet.* *(Lens sealed in place)	**WH** White **AG** Satin Silver **IG** Industrial Gray **AU** Cashmere Gold **AB** Arch Bronze **BB** Burnt Bronze **BK** Black **SS** Stainless Steel* *(Increased lead time) **CH** Chrome* *(Increased lead time) **MB** Matte Bronze* *(Increased lead time) **PB** Polished Bronze* *(Increased lead time) **PR** Primer **CF** Custom* *(Consult Factory) FINISH IMAGES ON PAGE 2	**LOW FLUX STATIC WHITE 3.73" TALL HOUSING** **80S06A** 80+ CRI, 6 Watts (Delivered - 2RD/2SD 677, 2PD 615) **80S11A** 80+ CRI, 11 Watts (Delivered - 2RD/2SD 1109, 2PD 998) **80S15A** 80+ CRI, 15 Watts (Delivered - 2RD/2SD 1486, 2PD 1349) **90S06A** 90+ CRI, 6 Watts (Delivered - 2RD/2SD 584, 2PD 530) **90S11A** 90+ CRI, 11 Watts (Delivered - 2RD/2SD 956, 2PD 860) **90S15A** 90+ CRI, 15 Watts (Delivered - 2RD/2SD 1281, 2PD 1163) **97S06A** 97+ CRI, 6 Watts (Delivered - 2RD/2SD 514, 2PD 466) **97S11A** 97+ CRI, 11 Watts (Delivered - 2RD/2SD 841, 2PD 757) **97S15A** 97+ CRI, 15 Watts (Delivered - 2RD/2SD 1127, 2PD 1023) **HIGH FLUX STATIC WHITE 6.5" TALL HOUSING** **80S21A** 80+ CRI, 21 Watts (Delivered - 2RD/2SD 2025, 2PD 1828) **90S21A** 90+ CRI, 21 Watts (Delivered - 2RD/2SD 1746, 2PD 1576) **97S21A** 97+ CRI, 21 Watts (Delivered - 2RD/2SD 1536, 2PD 1387) **WARM DIM 6.5" TALL HOUSING** **90W11A** 90+ CRI, 11 Watts Incandescent Profile: 2700K - 1800K (Delivered - 2RD/2SD 686, 2PD 613) Standard Profile: 3000K - 1800K (Delivered - 2RD/2SD 688, 2PD 628) **90W15A** 90+ CRI, 15 Watts Incandescent Profile: 2700K - 1800K (Delivered - 2RD/2SD 915, 2PD 857) Standard Profile: 3000K - 1800K (Delivered - 2RD/2SD 943, 2PD 879) *SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON. **TUNABLE WHITE 6.5" TALL HOUSING** **90T17A** 90+ CRI, 17 Watts, Warm Profile: 4000K - 1800K (Delivered - 2RD 1222, 2PD 1052, 2SD 1100) Cool Profile: 5000K - 2700K (Delivered - 2RD 1058, 2PD 1043, 2SD 952) *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* *(90+CRI only, 15W max) **27** 2700K **30** 3000K **35** 3500K **40** 4000K **WL** 2700K - 1800K **WD** 3000K - 1800K **WL** 2700K - 1800K **WD** 3000K - 1800K **TR** 4000K - 1800K **TH** 5000K - 2700K	**10** 10°* (<13) *(15W packages only) **15** 15° (<13) **20** 20° (<13) **25** 25° (<13) **40** 40° (<13) **60** 60°* (<13) *(Not recommended for 2PD) **20** 20° (<13) **25** 25° (<13) **40** 40° (<13) **60** 60°* (<13) *(Not recommended for 2PD) **15** 15° (<13) **20** 20° (<13) **25** 25° (<13) **40** 40° (<13) **60** 60°* (<13) *(Not recommended for 2PD) *SEE PAGE 3 FOR UGR RATINGS.	⚡**Housing W/ Integral Driver (HB)** **NC** NIC **IC** IC **AT** IC, Airtight* *(CCEA, Airtight and Title 24 compliant housing) ⚡**Housing W/ Remote Driver (HR)** **NR** NIC, Remote **IR** IC, Remote **AR** IC, Airtight* *(CCEA, Airtight and Title 24 compliant housing) **Remodel** **RM** 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 **L23** Lutron, Hi-Lume 1% 2-Wire **(120-277V)** **LH1** Lutron, Hi-Lume 1% Ecosystem* *(Not available for 6W) **LP1** Lutron, Premier 0.1% Ecosystem **AN4** Philips Xitanium 1% 0-10V, LOG **LN2** Philips Xitanium 1% 0-10V, LIN **EA2** eldoLED, 0.1% 0-10V, LOG **LA2** eldoLED, 0.1% 0-10V, LIN **ED1** eldoLED, SOLOdrive 0.1% DALI-2, LOG **LD1** eldoLED, 0.1% DALI-2, LIN **AS1/ ASR** Athena Control eldoLED, 0.1% 120-277V* **CS1/ CSR** Casambi Control eldoLED, 0.1% 120-277V* *(Includes Node. Extended lead time, consult factory. ASR/CSR includes shunt. Casambi is remote only) **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/ ADR** Athena Control EldoLED, DUALdrive* **CD1/ CDR** Casambi Control EldoLED, DUALdrive* *(Includes Node. Extended lead time, consult factory. ASR/CSR includes shunt. Casambi is remote only)	**Standard Media** **04** Soft Focus Lens *(Required for 10° optic) **Alternate Media** **NL** No Lens* *(Not available for wet location or Warm Dim) **02** Honeycomb Louver* *(Not available for wet location or Warm Dim) **03** Clear Glass Lens* *(Not available for Warm Dim) **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) **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., 2RD1-WH-80S15A2-2HB1-L2304
- Housing ships as e.g., NCL-2RF-1-LED-01
- Drivers ship with trim
- Appliqué ships with housing

🔴 Red List Approved

Declare.

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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[DATE OF REV: 05132024]

2 SERIES LED DEEP REGRESS

ACCESSORIES

SECONDARY MEDIA
☐ **HCL-2** Honeycomb Louver*
  *(Not available for Warm Dim)
☐ **CGL-2** Clear Glass Lens*
  *(Not available for Warm Dim)
☐ **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
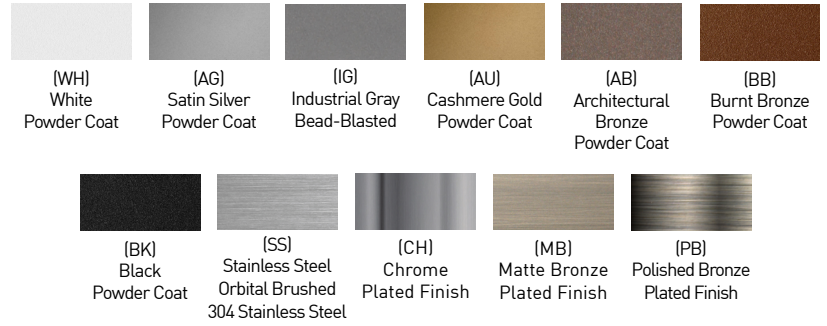One included with every four fixtures.
☐ **TOOL-HEX-050**

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™

(WH) White Powder Coat
(AG) Satin Silver Powder Coat
(IG) Industrial Gray Bead-Blasted
(AU) Cashmere Gold Powder Coat
(AB) Architectural Bronze Powder Coat
(BB) Burnt Bronze Powder Coat

(BK) Black Powder Coat
(SS) Stainless Steel Orbital Brushed 304 Stainless Steel
(CH) Chrome Plated Finish
(MB) Matte Bronze Plated Finish
(PB) Polished Bronze Plated Finish

2 SERIES LED DEEP REGRESS

PERFORMANCE - 3000K

CRI / WATTAGE PACKAGE	WATTAGE	DEEP REGRESS - 20° OPTIC - SOFT FOCUS LENS					
		2RD		2PD		2SD	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S06A	6	677	112	615	102	677	112
80S11A	11	1109	101	998	91	1109	101
80S15A	15	1486	99	1349	90	1486	99
80S21A	21	2025	96	1828	87	2025	96
90S06A	6	584	97	530	88	584	97
90S11A	11	956	87	860	78	956	87
90S15A	15	1281	85	1163	77	1281	85
90S21A	21	1746	83	1576	75	1746	83
97S06A	6	514	85	466	77	514	85
97S11A	11	841	76	757	69	841	76
97S15A	15	1127	75	1023	68	1127	75
97S21A	21	1536	73	1387	66	1536	73
90W11AWL (2700K-1800K)	11	654	59	613	55	654	59
90W11AWD (3000K-1800K)	11	673	61	628	57	673	61
90W15AWL (2700K-1800K)	15	915	61	857	57	915	61
90W15AWD (3000K-1800K)	15	943	63	879	59	943	63
90T17ATR (4000K-1800K)	17	1222	57	1052	62	1222	57
90T17ATH (5000K-2700K)	17	1058	54	1043	62	1058	54

CRI / WATTAGE PACKAGE	WATTAGE	DEEP REGRESS - 10° OPTIC - FIELD REDUCER KIT					
		2RD		2PD		2SD	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S15C	15	585	39	483	32	587	39
90S15C	15	504	34	416	28	506	34
97S15C	15	435	29	359	24	436	29

OUTPUT MULTIPLIER

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

MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.08
CGL	1.02
SFL	1.00
FGL	0.85
FSFL	0.76
FLSL	0.73
HCL	0.74

TUNABLE WHITE MULTIPLIER

| CCT	5000K-2700K	4000K-1800K
5000K	1.16	-
4000K	1.08	1.14
3500K	1.04	1.07
3000K	1.00	1.00
2700K	0.96	0.92
2400K	-	0.84
1800K	-	0.69

UNIFIED GLARE RATIING

10° OPTIC FIELD REDUCER KIT	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS
<13	<13	<13	<13	<13

WARM DIM PERFORMANCE - 20° OPTIC - SOFT FOCUS LENS

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%
CCT (K)	2700	2650	2625	2550	2200	1900	1800
Light Output (Lm)	654	523	458	327	131	65	13
Power (W)	11	9	8	6	2.2	1.1	.2
Efficacy (LPW)	59	59	59	59	59	59	59

90W15AL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2650	2625	2550	2200	1900	1800
Light Output (Lm)	915	732	641	458	184	92	19
Power (W)	15	12	11	8	3	1.5	0.3
Efficacy (LPW)	61	61	61	61	61	61	61
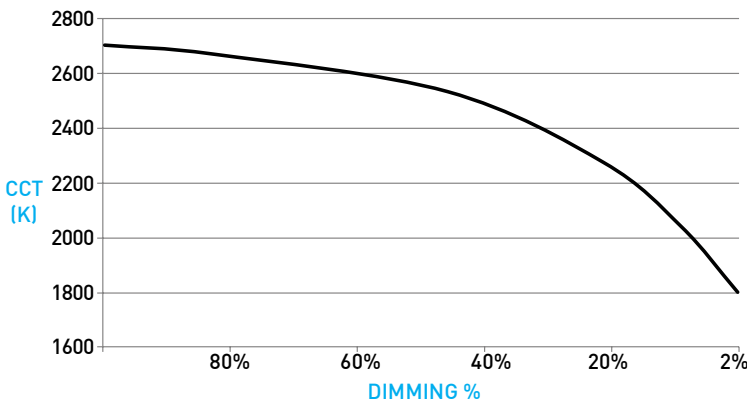
STANDARD PROFILE

90W11AD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000	2950	2920	2775	2375	2000	1800
Light Output (Lm)	673	538	471	337	135	67	13
Power (W)	11	9	8	6	2.2	1.1	.2
Efficacy (LPW)	61	61	61	61	61	61	61

90W15AD 3000K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	3000	2950	2920	2775	2375	2000	1800
Light Output (Lm)	943	754	660	472	187	94	19
Power (W)	15	12	11	8	3	1.5	0.3
Efficacy (LPW)	62	62	62	62	62	62	62

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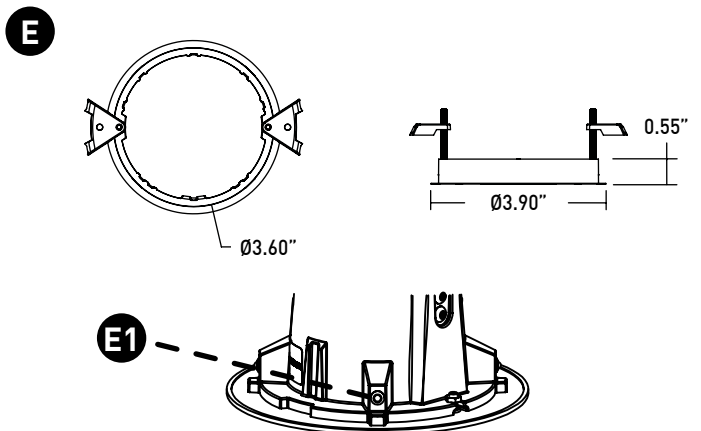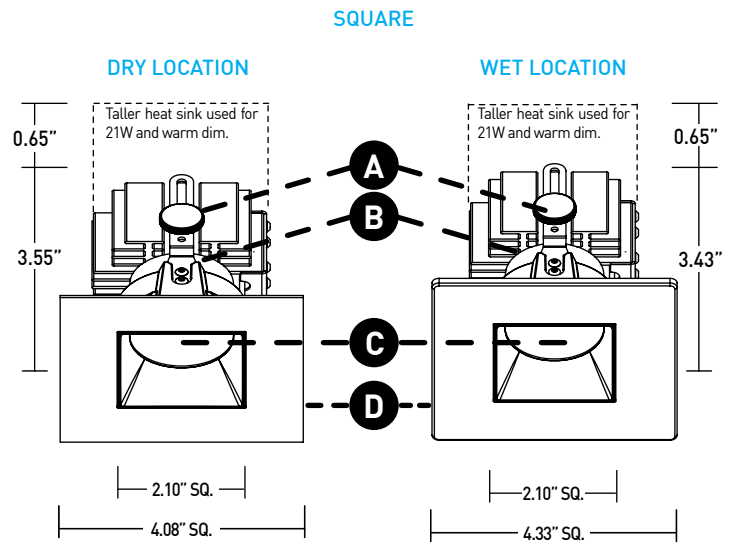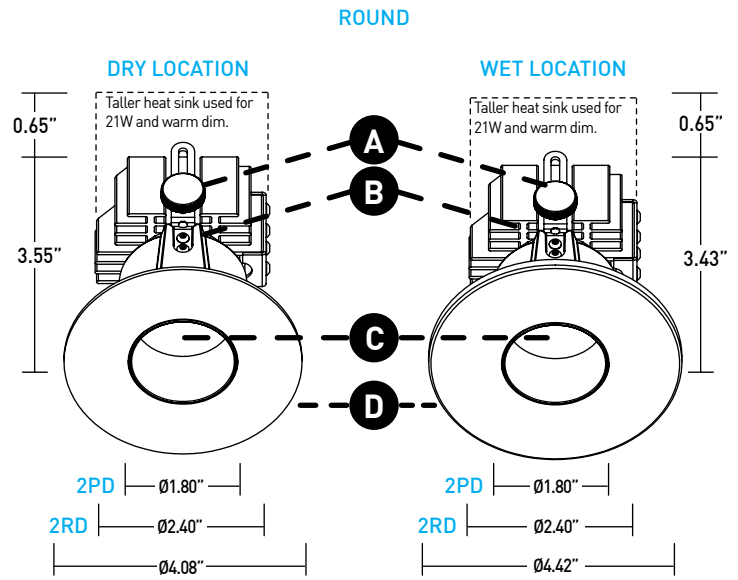[FAX] +1-210-227-4967

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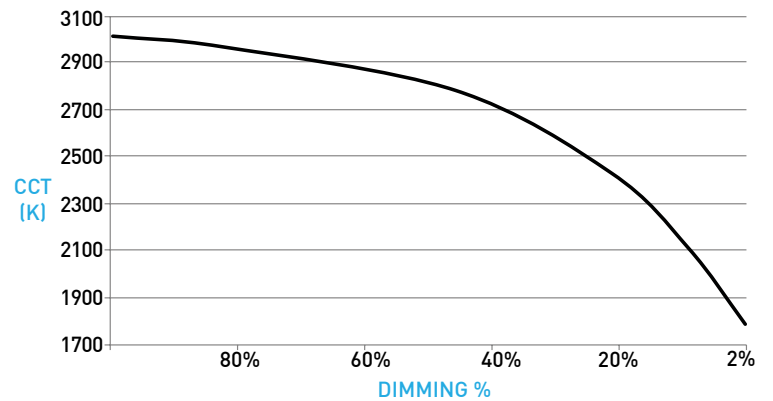
2 SERIES LED DEEP REGRESS

DOWNLIGHT

Die-cast deep 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. 10° field reducer included 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

ROUND

DRY LOCATION

Taller heat sink used for 21W and warm dim.

0.65"
3.55"

2PD — Ø1.80"
2RD — Ø2.40"
Ø4.08"

WET LOCATION

Taller heat sink used for 21W and warm dim.

0.65"
3.43"

2PD — Ø1.80"
2RD — Ø2.40"
Ø4.42"

SQUARE

DRY LOCATION

Taller heat sink used for 21W and warm dim.

0.65"
3.55"

2.10" SQ.
4.08" SQ.

WET LOCATION

Taller heat sink used for 21W and warm dim.

0.65"
3.43"

2.10" SQ.
4.33" SQ.

(E)

Ø3.60"
Ø3.90"
0.55"

(E1)

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[DATE OF REV: 05132024]

2 SERIES LED DEEP 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.
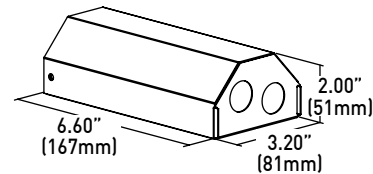
REMOTE POWER SUPPLY

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
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.
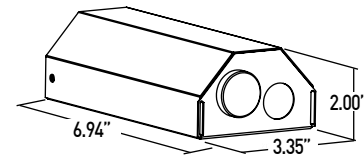
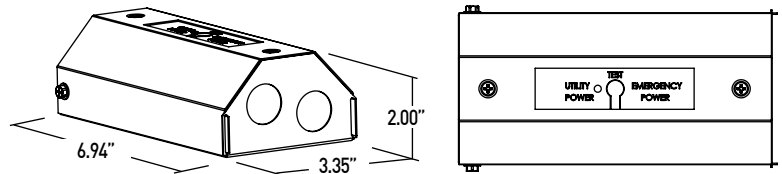Model Number: PS-RMT-SHUNT

DIMENSIONS / DRAWINGS

F

14.70"
7.50"
3.73"
(Aperture centerline)
3.73"

G

18.00"
9.50"
6.50"
(Aperture centerline)
7.05"

H STANDARD ENCLOSURE

6.60" (167mm)
2.00" (51mm)
3.20" (81mm)
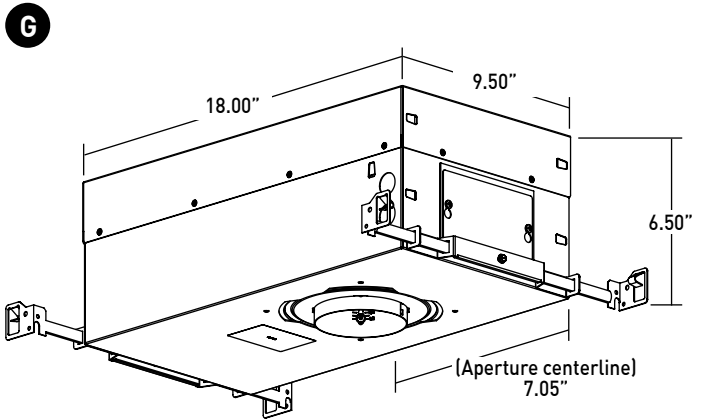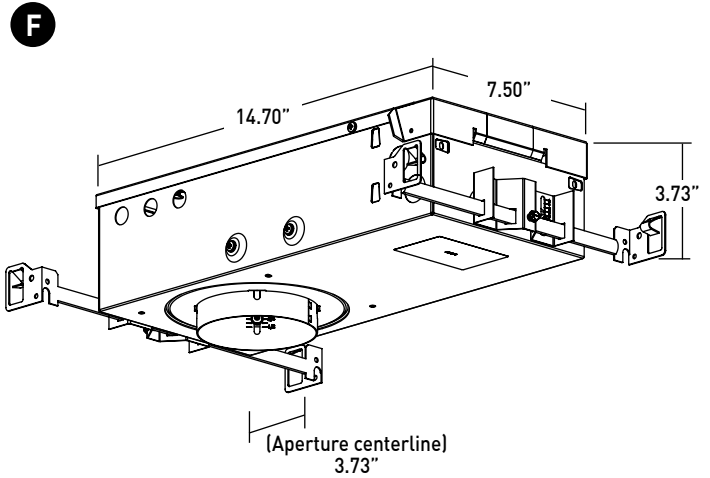
I ATHENA / CASAMBI ENCLOSURE

6.94"
2.00"
3.35"

J ATHENA / CASAMBI EM SHUNT

6.94"
3.35"
2.00"

UTILITY POWER   TEST   EMERGENCY POWER

2 SERIES LED DEEP 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.
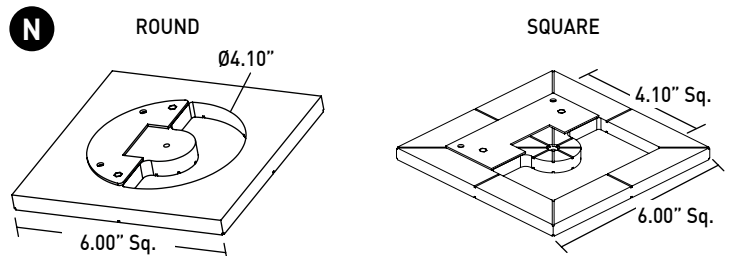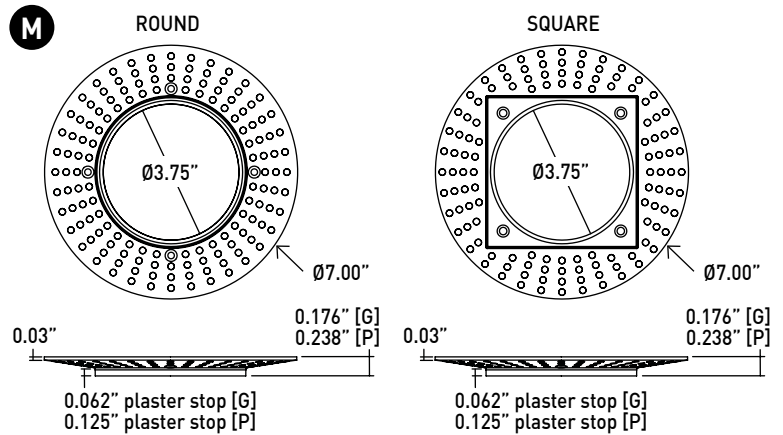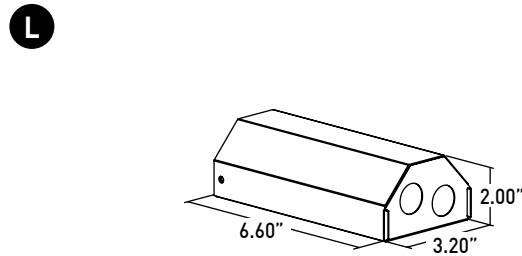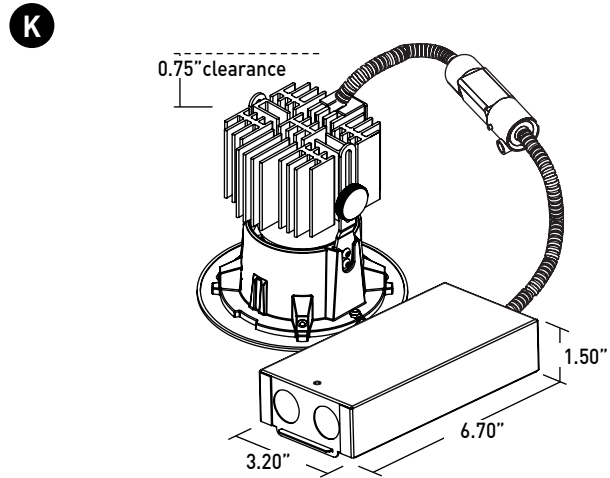
M APPLIQUÉ
- Specified on Flange Configuration and ships with housing; ships separately on remodel installations.
- For use in sheetrock ceiling applications.
  - 1/16" Appliqué (G Flange Configuration) recommended for gypsum ceiling installations and has plaster stop thickness of 1/16". Recommended 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.

DIMENSIONS / DRAWINGS

K
- 0.75" clearance
- 1.50"
- 6.70"
- 3.20"

L
- 2.00"
- 6.60"
- 3.20"

M ROUND — SQUARE
- Ø3.75"
- Ø7.00"
- 0.03"
- 0.176" [G]
- 0.238" [P]
- 0.062" plaster stop [G]
- 0.125" plaster stop [P]

N ROUND — SQUARE
- Ø4.10"
- 6.00" Sq.
- 4.10" Sq.
- 6.00" Sq.

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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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2 SERIES LED DEEP 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+ CRI 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.

CHANGE LOG
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. 3/15/2024: ADDED 10 DEGREE FIELD REDUCER, UPDATED 10 DEGREE PERFORMANCE DATA
9. 05/13/2024: UPDATED LH1 WATTAGE MINIMUM

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

Power Supply	PHASE		ECO		0-10V						DALI-2			ATHENA	CASAMBI
	L23	TR2	LH1	LP1	EA2	LA2	AN4	LN2	DG1	DN1	ED1	LD1	DD1	AS1/AD1	CS1/CD1
Minimum °C	0°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	40°C
Dimming %	1.0%	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, LA2 and L23 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'
L23, LH1, LP1	60'	40'	25'	15'	-
EA2, LA2, ED1, LD1, DG1, DN1, DD1, AS1, AD1, CS1, CD1	-	-	118'	72'	46'

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.

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

LIMITED WARRANTY
Manufacturer's Limited Warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service

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 L23 Lutron Product Family	Part No.
Maestro WirelessR 600 W dimmer	MRF2-6ND-120-
Maestro WirelessR 1000 W dimmer	MRF2-10ND-120-
Caséta® Wireless Pro 1000 W dimmer	PD-10NXD-
GRAFIK T™ CL® dimmer	GT-250M- GTJ-250M-
HomeWorks® QS adaptive dimmer	HQRD-6NA-
HomeWorks® QS 600 W dimmer	HQRD-6ND-
HomeWorks® QS 1000 W dimmer	HQRD-10ND-
RadioRA® 2 adaptive dimmer	RRD-6NA-
RadioRA® 2 1000 W dimmer	RRD-10ND
myRoom™ DIN power module	MQSE-4A1-D
HomeWorks® QS DIN power module	LQSE-4A1-D
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120
HomeWorks® wallbox power module	HWI-WPM-6D-120
GRAFIK Eye® QS control unit	QSGR-, QSGRJ-
GRAFIK Eye® 3000 control unit	GRX-3100- GRX-3500-
RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4U-120 LP-RPM-4U-120
RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4A-120, LP-RPM-4A-120
GP dimming panels	Various
Ariadni CL 250W dimmer	AYCL-253P-
Diva CL 250W dimmer	DVCL-253P- DCSCCL-253P-
Nova T CL 250W dimmer	NTCL-250-

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

LUTRON 2016 OEM ADVANTAGE ACCOUNT

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-AO8
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

DIMMER	DRIVER	OUTPUT
LIN*	LIN*	*STATIC WHITE ONLY ✓
LOG (VICE VERSA)	LIN	✓
LOG	LOG	✗
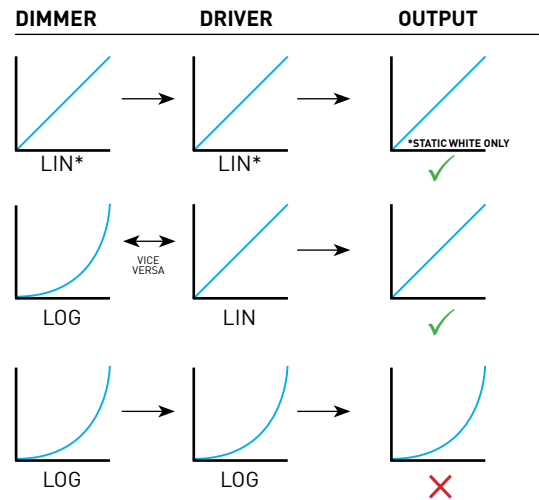
LIN = LINEAR
LOG = LOGARITHMIC
*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM