2 SERIES LED

ADJUSTABLE

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









ORDERING INFORMATION

4

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



JA8-2022 INDICATED BY SHADING

			I		ир с	o quantities of			I	
TRIM	RATING	FLANGE FINISH	CRI/WATTAGE PACKAGE	ССТ	OPTIC (UGR)	INSTALLTYPE	CEILING THICKNESS	POWER SUPPLY	MEDIA	FLANGE CONFIGURATION
2RA Round Expanded Aperture 2PA Round Pinhole Aperture 2SA Square Expanded Aperture	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 Stainless Stainless Stainless STATE STAT	LOW FLUX STATIC WHITE 3.73" TALL HOUSING 80S06A 80+ CRI, 6 Watts [Delivered - 2RA 670, 2PA 544, 2SA 603] 80S11A 80+ CRI, 11 Watts [Delivered - 2RA 1076, 2PA 886, 2SA 1011] 80S15A 80+ CRI, 15 Watts [Delivered - 2RA 171, 2PA 1194, 2SA 1386] 90S06A 90+ CRI, 15 Watts [Delivered - 2RA 578, 2PA 469, 2SA 520] 90S11A 90+ CRI, 11 Watts [Delivered - 2RA 928, 2PA 764, 2SA 872] 90S15A 90+ CRI, 15 Watts [Delivered - 2RA 1268, 2PA 1029, 2SA 1195] 97S06A 97+ CRI, 15 Watts [Delivered - 2RA 1268, 2PA 1029, 2SA 1195] 97S16A 97+ CRI, 16 Watts [Delivered - 2RA 817, 2PA 472, 2SA 458] 97S11A 97+ CRI, 11 Watts [Delivered - 2RA 817, 2PA 472, 2SA 767] 97S15A 97+ CRI, 15 Watts [Delivered - 2RA 1116, 2PA 905, 2SA 1052] HIGH FLUX STATIC WHITE 6.5" TALL HOUSING 80S21A 80+ CRI, 21 Watts [Delivered - 2RA 1774, 2PA 1624, 2SA 1856] 90S21A 90+ CRI, 21 Watts [Delivered - 2RA 1792, 2PA 1400, 2SA 1600] 97S21A 97+ CRI, 21 Watts [Delivered - 2RA 1498, 2PA 1232, 2SA 1408] WARM DIM 6.5" TALL HOUSING 90W11A 90+ CRI, 11 Watts, [Incandescent Profile: 2600K - 1800K [Delivered - 2RA 645, 2PA 564, 2SA 590] Halogen Profile: 2900K - 1800K [Delivered - 2RA 917, 2PA 791, 2SA 862] Halogen Profile: 2900K - 1800K [Delivered - 2RA 974, 2PA 791, 2SA 862] Halogen Profile: 3000K - 1800K [Delivered - 2RA 904, 2PA 756, 2SA 650] *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 - 2RA 904, 2PA 756, 2SA 650] *SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON. TUNABLE WHITE 6.5" TALL HOUSING 90T17A 90+ CRI, 17 Watts, Warm Profile: 5000K - 2700K [Delivered - 2RA 904, 2PA 756, 2SA 650] **ALL DELIVERED LUMEN OUTPUTS REF PAIRED WITH 20° OPTIC AND SOFT FCO COMP COMPLIANT CONFIGURATION BREAKDO COMPLIANT CONFIGURATION BREAKDO	K PERFOR- LETE T24	10 10°* (<13) *(15W packages only) 15 15° (<13) 20 20° (<13) 40 40° (<13) 60 60°*(<13) 7 40 40° (<13) 60 60°* (<13) 7 7 7 8 7 7 9 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 7 11 7 7 12 7 7 13 7 7 14 7 7 15 7 7 15 7 7 16 7 7 17 7 7 18 7 7 19 7 7 10 7 7 10 7 7 11 7 7 12 7 7 13 7 7 14 7 7 15 7 7 15 7 7 16 7 7 17 7 7 18 7 7 19 7 7 10 7 7 10 7 7 10 7 7 10 7 7 10 7 10 7 7 10 7	→ Housing → Wintegral Driver (HB) NC NIC IC I	Types only) 1 0.50" - 0.75" 2 0.76" - 1.25"* *[Max Titl 35", see page 4 for details] 3 1.26" - 2.00"* *[Max Titl 13", see page 4 for details] 4 2.01" - 3.00"* *[Max Titl 5", see page 4 for details]	(120V) TR2 Philips, 2% Forward/Reverse (120-277V) LH1 Lutron, Hi-Lume 1% Ecosystem* *Notavailable for 6WI LP1 Lutron, Premier 0.1% Ecosystem AN4 Philips Xitanium 1% 0-10V, LOG LN2 eldoLED, 0.1% 0-10V, LIN ED1 eldoLED, 0.1% 0-10V, LIN ED1 eldoLED, 0.1% DALI-2, LOG LD1 eldoLED, 0.1% DALI-2, LIN AS1/ Athena Control ASR eldoLED, 0.1% 120-277V* (1Inctudes Node. Extended lead time, consult factory. ASR/CSR inctudes shunt. Remote only) TUNABLE WHITE (0.1%, 120-277V) DD1 eldoLED, DUALdrive 0-10V, LIOG DN1 eldoLED, DUALdrive 0-10V, LIN AD1/ Athena Control, ADR EldoLED, DUALdrive* (CD1/ Casambi Control, CR EldoLED, DUALdrive* (CD1/ Casambi Control, ADR EldoLED, DUALdrive* (CD1/ Casambi Control, ADR EldoLED, DUALdrive* (CD1/ Casambi Control, ASR/CSR inctudes shunt. 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 Tocation 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]* *Required for Zero -Sightline wood applications] G Zero Sightline Gypsum [1/16" Applique]* *(Not avaitable for wet location) P Zero Sightline Plaster [1/8" Applique]* *(Not avaitable for wet location)

PART NUMBER NOTES

- Trims ships as e.g., 2RA1-WH-80S15A2-2HB1-TR204
- Housing ships as e.g., NCL-2RF-1-LED-01
- Drivers ship with trim
- Appliqué ships with housing





[PH] +1-210-227-7329



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

Frosted Linear Spread Lens ☐ FLSL-2

☐ **SFL-2-SP** Shatterproof Soft Focus Lens ☐ FGL-2-SP Shatterproof Frosted Lens

Ultra Violet 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

□ **R0-50-20-W** 20° optic

□ **RO-50-25-W** 25° optic

□ **R0-50-40-W** 40° optic

□ **RO-50-60-W** 60° optic*

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.

☐ T00L-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





(RR) **Burnt Bronze** Powder Coat

(RK) Black Powder Coat

(SS) Stainless Steel Orbital Brushed 304 Stainless Steel

(AU)

PERFORMANCE - 3000K

CRI/			ADJUSTAB	LE - 20° OPT	IC - SOFT F	OCUS LENS	
WATTAGE	WATTAGE	2F	RA	2F	PA	29	SA
PACKAGE		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S06A	6	670	112	544	91	603	100
80S11A	11	1076	98	886	80	1011	92
80S15A	15	1471	98	1194	80	1386	92
80S21A	21	1974	94	1624	77	1856	88
90S06A	6	578	96	469	78	520	87
90S11A	11	928	84	764	69	872	79
90S15A	15	1268	84	1029	69	1195	80
90S21A	21	1702	81	1400	67	1600	76
97S06A	6	509	85	413	69	458	76
97S11A	11	817	74	672	61	767	70
97S15A	15	1116	74	905	60	1052	70
97S21A	21	1498	71	1232	59	1408	67
90W11AWL (2600K-1800K)	11	656	60	566	51	590	54
90W11AWD (2900K-1800K)	11	645	59	540	49	581	53
90W15AWL (2700K-1800K)	15	917	69	791	53	862	57
90W15AWD (3000K-1800K)	15	904	60	756	50	850	57
90T17ATR (4000K-1800K)	17	1067	57	908	54	960	56
90T17ATH (5000K-2700K)	17	1049	60	900	53	944	56

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CRI / WATTAGE PACKAGE	WATTAGE	ADJUSTABLE - 10° OPTIC - FIELD REDUCER							
		2F	RA	2F	PA	2SA			
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW		
80S15C	15	491	33	415	28	453	30		
90S15C	15	423	28	358	24	390	26		
97S15C	15	365	24	309	21	337	22		

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			TUNABLE WHITE MULTIPLIE			
MEDIA	LIGHT LOSS FACTOR		ССТ	5000K- 2700K	4000K- 1800K	
NO LENS	1.15		5000K	1.16	-	
CGL	1.03		4000K	1.08	1.14	
SFL	1.00		3500K	1.04	1.07	
FGL	0.79		3000K	1.00	1.00	
FSFL	0.70		2700K	0.96	0.92	
FLSL	0.70		2400K	-	0.84	
HCL	0.81		1800K	-	0.69	

UNIFIED GLARE RATIING

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

WA

WARM DIM PERFORMANCE - 20° OPTIC - SOFT FOCUS LENS

INCANDESCENT PROFILE

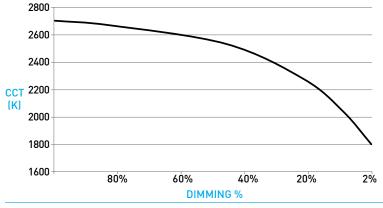
90W11AL 2600K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2600	2550	2520	2450	2200	1925	1800
Light Output (Lm)	656	525	459	328	131	66	13
Power (W)	11	9	8	6	2.2	1.1	0.2
Efficacy (LPW)	59	59	59	59	59	59	59

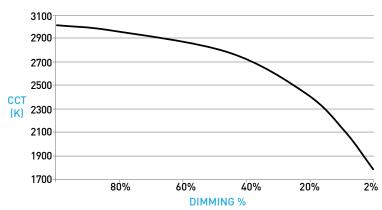
90W15AL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2650	2625	2550	2200	1900	1800
Light Output (Lm)	917	734	642	459	184	92	18
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	64	64	64	64	64	64	64

HALOGEN PROFILE

90W11AD 2900K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2900	2850	2800	2720	2350	1975	1800
Light Output (Lm)	645	516	452	323	129	65	13
Power (W)	11	9	8	6	2.2	1.1	0.2
Efficacy (LPW)	58	58	58	58	58	58	58

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)	904	723	632	457	180	90	18
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	65	65	65	65	65	65	65







DOWNLIGHT

Hot-aim adjustment from below up to 45° tilt and 357° rotation, faceplate conceals adjustment mechanisms, ensuring fixture aim integrity is maintained

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.

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° ontic

TILT GUIDE

Features adjustment angles and allows for pre-aiming prior to insertion of fixture.

MEDIA

Soft Focus Lens standard; media must be specified. Lens is sealed in aperture in Wet location fixture. Secondary media available.

TRIM PLATE

Features removable faceplate providing access to adjustment mechanisms. Rare Earth magnets secure faceplate firmly to trim mechanism and do not degrade over time.

- Dry / Damp Location: Thickness measures 0.06".
- 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

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

TILT CHART

Chart references abbreviated ceiling thickness and use of 1 media.

HOUSING

CEILING THICKNESS	≤0.75" (19mm) "-1" collar	≤1.25" (32mm) "-2" collar	≤2.00" (50mm) "-3" collar	≤2.25" (57mm) "-4" collar	≤3.00" (76mm) "-4" collar
Low Flux	45°	30°	10°	5°	4°
High Flux	45°	35°	13°	5°	4°

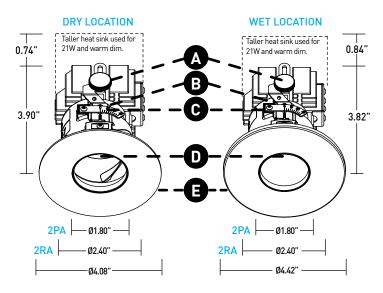
REMODEL

CEILING THICKNESS	≤0.50" (13mm)	≤0.75" (19mm)	≤1.00" (25mm)	≤1.25" (32mm)
	"-0" collar	"-1" collar	"-2" collar	"-2" collar
Low Flux	45°	45°	45°	38°
High Flux	45°	45°	45°	45°

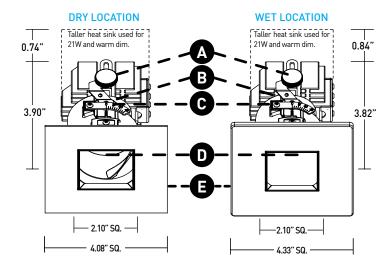
CEILING THICKNESS	≤ 1.50" (38mm)	≤ 2.00" (51mm)	≤2.50" (70mm)	≤3.00" (76mm)	
	"-3" collar	"-3" collar	"-4" collar	"-4" collar	
Low Flux	32°	18°	8°	6°	
High Flux	38°	25°	13°	6°	

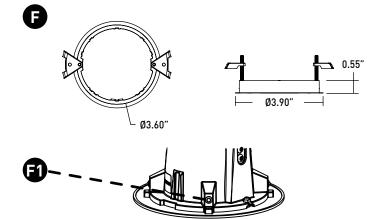
DIMENSIONS / DRAWINGS

ROUND



SQUARE







HOUSING

G 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.

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

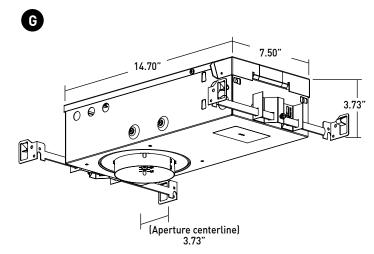
Casambi Model Number: BT-S1E1-5400

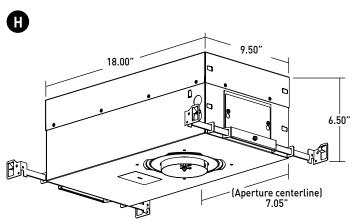
ATHENA / CASAMBI EM SHUNT

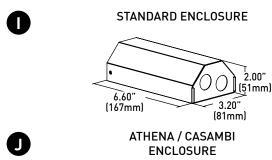
Inlocuded with drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt. Features integrated test switch.

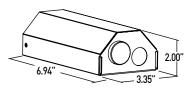
Model Number: PS-RMT-SHUNT

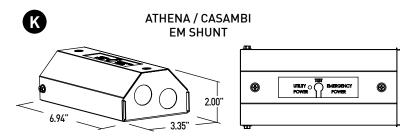
DIMENSIONS / DRAWINGS













REMODEL POWER SUPPLY

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.

M 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.

APPLIQUÉ

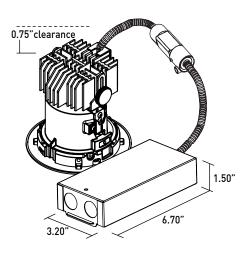
- Specified on Flange Configuration and ships with housing; ships separately on remodel installations.
- For use in sheetrock ceiling applications.
 - 1/16" Appliqué (G Flange Configuration) recommended for gypsum ceiling installations and has plaster stop thickness of 1/16". Recommended for painted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

ROUTER TOOL GUIDE

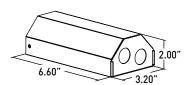
- Specified separately and used with Flange Overlay configurations.
- For use in wood ceiling applications.
- DLA-RTG-2S-RD or DLA-RTG-2S-SQ required for wood Zero-Sightline ceiling installations.
- Router tool guide is reusable and suitable for multiple fixtures, minimum one per installer required.

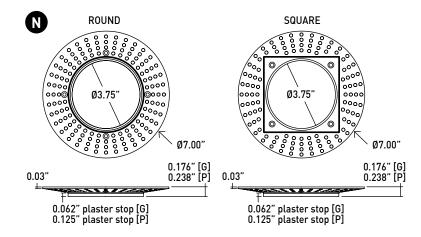
DIMENSIONS / DRAWINGS

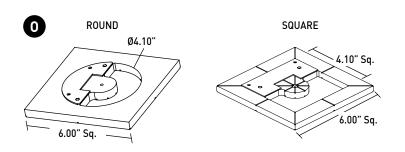














TECHNICAL INFORMATION

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.

Housing: 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.

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. ADDED LOW WATTAGE PACKAGES FOR LOW FLUX STATIC WHITE AND WARM DIM.
- 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 10.07/15/2024: REMOVED L23 DRIVER OFFERING
- 11. 02/14/2025: UPDATED FINISH OFFERINGS

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE	EC	00	0-10V				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	-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

	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'

WEIGHT

Trim - 2.2 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.





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

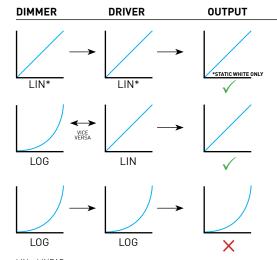
Power supply LH1 / LP1 Lutron Product Family	Part No.			
PowPak Dimming Modules	RMJ-EC032-DV-B			
PowPak Dimming Modules	FCJ/FCJS-ECO			
Energi Savr Nodes	QSN-1ECO-S			
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S			
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJE (wireless) 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



LIN = LINEAR

LOG = LOGARITHMIC

*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM

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reserves the right to change or withdraw specifications without prior notice.