2 SERIES LED INT

SHALLOW REGRESS

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









ORDERING INFORMATION

FITTING RATII	FLANGE FINISH	CRI/WATTAGE PACKAGE	CCT	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	POWER SUPPLY	MEDIA	FLANGE CONFIGURATION
					EX				
2RS Round Expanded Shallow 2 PS Round Shallow 2 PS Square Expanded Shallow 2 PS Square Expanded Shallow 2 PS Policy Polic	t* AG Satin Silve	Delivered - 2RS 709, 2PS 687, 2SS 638 80511A	24 2400K* *904CRI only, 15Wmax; 27 2700K 30 3000K 35 3500K 40 4000K	10 10°*(<13) *115W packages only) 15 15° (<13) 20 20°*(<13) 25 25° (<13) 40 40° (<13) 60 60°* (<13) *(Not recommended for 2PS)	8] 	2 20mm-32mm 3 32mm-51mm 4 51mm-76mm	(120-277V) AN3 eldol ED, ECOdrive 1.0% 0-10V, LOG LN1 eldoLED, ECOdrive 1.0% 0-10V, LIN EA1 eldoLED, SOLOdrive 0.1% 0-10V, LIN ED1 eldoLED, SOLOdrive 0.1% 0-10V, LIN ED1 eldoLED, SOLOdrive 0.1% DALI-2, LOG LD1 eldoLED, SOLOdrive 0.1% DALI-2, LIN NOD Driver Supplied by Others TUNABLE WHITE REMOTE (0.1%, 120-277V) DD1 eldoLED, DUALdrive DALI-2, LOG	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 (1.57mm Applique)* *(Not available for IP64 wet location) P Zero Sightline Plaster (3.18mm Applique)* *(Not available for IP64 wet location)
	Incandescent Profile: 2700K - 1800K (Delivered - 2RS 686, 2PS 690, 2SS 617) Halogen Profile: 3000K - 1800K (Delivered - 2RS 688, 2PS 693, 2SS 619)	WL 2700K - 1800K WD 3000K - 1800K WL 2700K -	20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60°* (<13) *(Not recommended for 2PS)	25° (<13) 40° (<13) 60°*(<13) recom-					
		Incandescent Profile: 2700K - 1800K [Delivered - 2RS 959, 2PS 974, 2SS 984] Halogen Profile: 3000K - 1800K [Delivered - 2RS 963, 2PS 970, 2SS 980] *SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON. TUNABLE WHITE 90T17A 90+ CRI, 17 Watts, Warm Profile: 4000K - 1800K [Delivered - 2RS 1280, 2PS 1162, 2SS 1293] Cool Profile: 5000K - 2700K [Delivered - 2RS 1137, 2PS 1152, 2SS 1148]	1800K WD 3000K- 1800K TR 4000K- 1800K TH 5000K- 2700K	15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60°* (<13) *(Not recommended for 2Ps) *SEE PAGE					

PART NUMBER NOTES

- Fittings ships as e.g., 2RS1-WH-80S15A2-2EX1-AN304
- Driver ships with fitting
- Appliqué ships with fitting





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

ACCESSORIES

ALTERNATE MEDIA

☐ **HCL-2** Honeycomb Louver*

*(Not available for IP64 wet location or 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*

*(Not available for IP64 wet location)

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

☐ **FGL-2-SP** Shatterproof Frosted Lens

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

□ R0-50-40-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

□ R0-50-40-T 40° optic □ R0-50-60-T 60° optic*

*(Not recommended for 2PA)

ROUTER TOOL GUIDE (IP10 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

ADJUSTMENT TOOL

One included with every four fittings.

☐ T00L-HEX-050

DRIVE CURRENT SPECIFICS

		80)S			90S			975			90W			90T			
	06A	11A	15A	21A	06A	11A	15A	21A	06A	11A	15A	21A	11AD	11AL	15AD	15AL	17AH	17AR
Minimum Vf	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Maximum Vf	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	37.6	37.6	37.6	37.6	37.6	37.6
Current mA	150	250	350	500	150	250	350	500	150	250	350	500	250	250	350	350	400	400
Wattage W	6	11	15	21	6	11	15	21	6	11	15	21	8	8	15	15	14	14

(WH)

White

Powder Coat

(BK)

Black

Powder Coat

(AG)

Satin Silver

Powder Coat

(SS)

Stainless Steel

Orbital Brushed

304 Stainless Steel

	10 🛭	EGREE OF	PTIC
	80S15C	90S15C	97S15C
Minimum Vf	30.5	30.5	30.5
Maximum Vf	36.2	36.2	36.2
Current mA	350	350	350
Wattage W	15	15	15

luciferlighting.com

FINISHES BY LUCIFER LIGHTING™

(CH)

Chrome

Plated Finish

(AU)

Cashmere Gold

Powder Coat

(AB)

Architectural

Bronze

Powder Coat

(PB)

Polished Bronze

Plated Finish

(MB)

Matte Bronze

Plated Finish

(BB)

Burnt Bronze

Powder Coat

(IG)

Industrial Gray

Bead-Blasted

PERFORMANCE - 3000K

CRI/		SHA	ALLOW REG	RESS - 20°	OPTIC - SOF	T FOCUS LE	NS
WATTAGE	WATTAGE	2R	RS	2F	PS	29	S
PACKAGE		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
90W11AWL (2700K-1800K)	11	686	62	690	62	693	56
90W11AWD (3000K-1800K)	11	688	62	693	63	695	56
90W15AWL (2700K-1800K)	15	959	64	965	64	969	65
90W15AWD (3000K-1800K)	15	963	64	971	65	973	65
90T17ATR (4000K-1800K)	17	1280	60	1162	68	1293	68
90T17ATH (5000K-2700K)	17	1137	58	1152	69	1148	60

	CRI / WATTAGE PACKAGE	WATTAGE	SHALLOW REGRESS - 10° OPTIC - SOFT FOCUS LENS									
			2F	RS	2F	PS	255					
			DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW				
	80S15C	15	494	33	447	30	493	33				
	90S15C	15	426	28	385	26	425	28				
Ì	97S15C	15	368	25	332	22	367	24				

OUTPUT MULTIPLIER

MEDIA LIGHT LOSS FACTOR

TUNABLE WHITE MULTIPLIER

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

MEDIA	LIGHT LOSS FACTOR			
NO LENS	1.04			
CGL	1.01			
SFL	1.00			
FGL	0.89			
FSFL	0.80			
FLSL	0.79			
HCL	0.67			

ССТ	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	20° OPTIC	25° OPTIC	40° OPTIC	60° OPTIC
SOFT FOCUS LENS				
<19	<16	<16	<19	



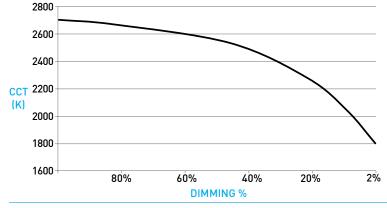
75+ LPW configurations comply with residential Part L 95+ LPW configurations comply with commercial Part L

WARM DIM PERFORMANCE - 25° 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)	686	549	480	343	137	69	14
Power (W)	11	9	8	6	2.2	1.1	.2
Efficacy (LPW)	62	62	62	62	62	62	62

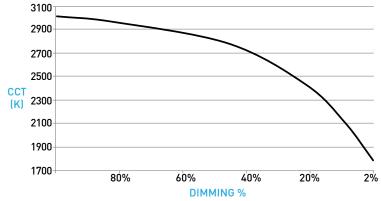
90W15AL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2650	2625	2550	2200	1900	1800
Light Output (Lm)	970	776	679	485	194	97	19
Power (W)	15	12	11	8	3	1.5	0.3
Efficacy (LPW)	64	64	64	64	64	64	64



HALOGEN 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)	688	550	482	344	138	69	14
Power (W)	11	9	8	6	2.2	1.1	.2
Efficacy (LPW)	62	62	62	62	62	62	62

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)	974	779	682	487	195	97	19
Power (W)	15	12	11	8	3	1.5	0.3
Efficacy (LPW)	64	64	64	64	64	64	64



DOWNLIGHT FITTING

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

ADJUSTABLE YOKE

Adjustable yoke allows for quick exchange of optics and media. Accommodates up to 2 media; add 4.1mm to fitting height with use of

₿ **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.

Soft Focus Lens standard; media must be specified. Lens is sealed in place on Wet location fitting. Secondary media available.

FITTING PLATE

IP64 Wet location features integral silicone gasket.

- IP20 Dry / Damp Location: Thickness measures 1.7mm
- IP64 Wet Location: 3.8mm return, installed as flange overlay only.

DOWNLIGHT FITTING ADAPTER

Included with fitting and required for installation. Uses (2) #6-32 flat-head screws with varying lengths to accommodate ceiling depth. Installed after ceiling is complete. Requires 92mm diameter cutout for flange overlay applications.

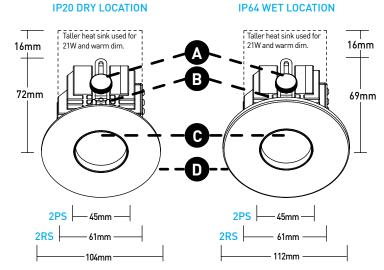
RETENTION

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

DIMENSIONS / DRAWINGS

ROUND

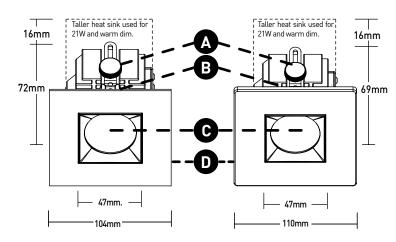
IP64 WET LOCATION

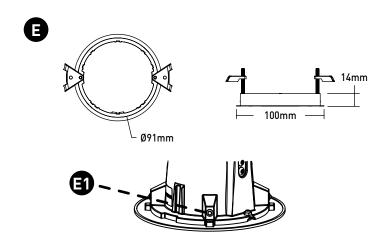


SQUARE

IP20 DRY LOCATION

IP64 WET LOCATION







POWER SUPPLY

FITTING WITH TETHERED POWER SUPPLY

- Requires 113mm diameter cutout.
- Tethered power supply protected wiring and quick-connect plug between fitting and power supply.
- Minimum 13mm clearance from top of fitting.
- Minimum setback from combustible and non-combustible materials of 168mm radius from fitting centerline; minimum 76mm from surfaces of power supply if not situated within above noted radius from fitting centerline.
- Minimum additional 76mm setback from insulation material with max R-Value 30 from any surface of fitting assembly.
- Minimum additional 152mm setback from polycell spray foam insulation with max R-Value 60 from any surface of fitting assembly.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Do not install in environments where ambient temperatures exceed 40°C (104°F).

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

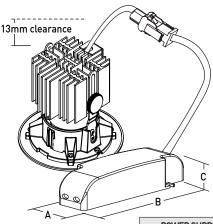
- Specified on Flange Configuration and ships with housing; ships separately on remodel installations.
- For use in sheetrock ceiling applications.
 - 1.57mm Appliqué (G Flange Configuration) recommended for gypsum ceiling installations and has plaster stop thickness of 1.57mm.
 - Recommended for painted ceiling applications.
 - 3.18mm Appliqué (P Flange Configuration) offers double thick plaster stop of 3.18mm where a heavier application of mud is preferred. Recommended for colorfast and venetian plaster applications.
- Not recommended for stucco applications.

ROUTER TOOL GUIDE

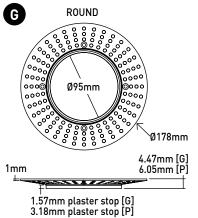
- Specified separately and used with Flange Overlay configurations.
- For use in wood ceiling applications.
- DLA-RTG-2S-RD or DLA-RTG-2S-SQ required for wood Zero-Sightline ceiling installations.
- Router tool guide is reusable and suitable for multiple fittings.

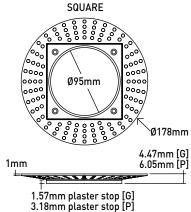
DIMENSIONS / DRAWINGS

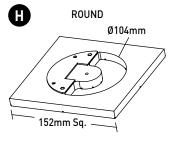


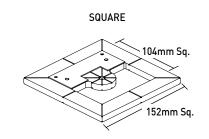


POWER SUPPLY DIMENSIONS				
Model	Α	В	С	
AN3				
LN1	41mm	210mm	34mm	
EA1	4 Imm		34mm	
LA1				
ED1	76mm	152mm	31mm	
LD1	/6/11/11	132mm		









TECHNICAL INFORMATION

CONSTRUCTION

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

<u>Downlight Fitting Adapter</u>: High-impact composite and stainless steel. Appliqué: Zinc alloy.

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 temperatures of 2400K. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.



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

	0-10V				DALI-2		
Power Supply	EA1	LA1	AN3	LN1	ED1	LD1	DD1
Minimum °C	-20 °C	-20 °C	-20°C	-20 °C	-20 °C	-20 °C	-20 °C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	0.1%	0.1%	1.0%	1.0%	0.1%	0.1%	0.1%

Note: For EA1 and LA1 drivers consult chart on page 7 to confirm appropriate dimming curve for compatibility with selected control.

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.

PART L

Part L compliant for all 75+ LPW residential and 95+ LPW commercial configurations.

FIXTURE WEIGHT

Fitting - 1.4 lbs max Driver - 0.4 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 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

- 1.01/12/2021: ADDED 2200K, 2700K-1800K WARM DIM AND 10 DEGREE OPTIC OFFFRINGS
- 2.10/08/2019: NEW CONSOLIDATED SPEC SHEETS WITH SINGLE NOMENCLATURE FOR SPECIFICATION.
- 3.10/17/2022: REMOVED 90WA13H 3200K-1800K WARM DIM AND ADDED 90WA12H 3000K-1800K WARM DIM.
- 4.08/08/2023: UPDATED WITH NEW LED AND OPTIC SYSTEM.
- 5.02/07/2024: ADDED 2400K, LOW WATTAGE, AND TUNABLE WHITE OFFERINGS.
- 6.2/15/2024: PART L COMPLIANCE ADDED
- 7.3/15/2024: ADDED 10 DEGREE FIELD REDUCER, UPDATED 10 DEGREE PERFORMANCE DATA





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

DIMMING COMPATIBILITY

eldoLED DRIVER COMPATIBILITY

Power supply EA1 / LA1 Dimmer / Switch Control Manufacturer	Family/Model #		
Busch-Jaeger	2112U-101		
Jung	240-10		
Leviton Lighting Controls	IP710-DLX		
Lightolier Controls	ZP600FAM120		
Lutron Electronics	Nova T® - NTFTV		
Lutron Electronics	Diva® - DVTV		
Lutron Electronics	Nova® - NFTV		
Merten	5729		
Pass & Seymour	CD4FB-W		
The Watt Stopper	DCLV1		
Sensor Switch	nIO EZ		
Synergy	ISD BC		
Power supply EA1 / LA1 Lighting Control Systems	Family/Model #		
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503		
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S		
Lutron Electronics	TVM2 Module		
Crestron®	GLX-DIMFLV8		
Crestron®	GLXP-DIMFLV8		
Crestron®	GLPAC-DIMFLV4-*		
Crestron®	01.040.004.004		
0103010110	GLPAC-DIMFLV8-*		
Crestron®	GLPP-DIMFLVEX-PM		
Crestron®	GLPP-DIMFLVEX-PM		
Crestron® Crestron®	GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM		
Crestron® Crestron® Crestron®	GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM		
Crestron® Crestron® Crestron® Crestron®	GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM DIN-A08		
Crestron® Crestron® Crestron® Crestron® Crestron® Crestron®	GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM DIN-A08 DIN-4DIMFLV4		