

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.

PROJECT NAME:	TYPE:
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ORDERING INFORMATION

TRIM	RATING	FLANGE FINISH	CRI	WATTAGE	CCT	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	POWER SUPPLY	MEDIA	FLANGE CONFIGURATION
							EX				
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 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	24 2400K* *(90 CRI only, 15W max) 27 2700K 30 3000K 35 3500K 40 4000K	10 10° (<13) 15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) ***(Not recommended for 2PS)	EX Export	0 3mm-13mm 1 13mm-20mm 2 20mm-32mm 3 32mm-51mm 4 51mm-76mm	(120-277V) TR2 Philips, 2% Forward/Reverse* *(120V, for Mexico only) AN3 eldoLED, ECOdrive 1.0% 0-10V, LOG LN1 eldoLED, ECOdrive 1.0% 0-10V, LIN EA1 eldoLED, SOLOdrive 0.1% 0-10V, LOG LA1 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) 02 Honeycomb Lower* *(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 (1.57mm Applique)* *(Not available for wet location) P Zero Sightline Plaster (3.18mm Applique)* *(Not available for wet location)
				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.	15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) *(Not recommended for 2PS)	WL 2700K - 1800K WD 3000K - 1800K					
				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.	15 15° (<13) 20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<13) *(Not recommended for 2PS)	TR 4000K - 1800K TH 5000K - 2700K					

PART NUMBER NOTES

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



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ACCESSORIES

ALTERNATE MEDIA

- HCL-2** Honeycomb Louver*
- *(Not available for IP64 wet location)
- 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*
- *(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
- 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)

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.

- TOOL-HEX-050**

FINISHES BY LUCIFER LIGHTING



DRIVE CURRENT SPECIFICS

	80S				90S				97S				90L			90T
	06A	11A	15A	21A	06A	11A	15A	21A	06A	11A	15A	21A	11A	15A	22A	17A
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
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	37	37	37.6
Current mA	150	250	350	500	150	250	350	500	150	250	350	500	250	350	500	400
Wattage W	5.1	8.2	11.8	17.4	5.1	8.2	11.8	17.4	5.1	8.2	11.8	17.4	8.2	11.8	17.4	17.4

	10 DEGREE OPTIC		
	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	11.8	11.8	11.8

2 SERIES LED INT 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

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

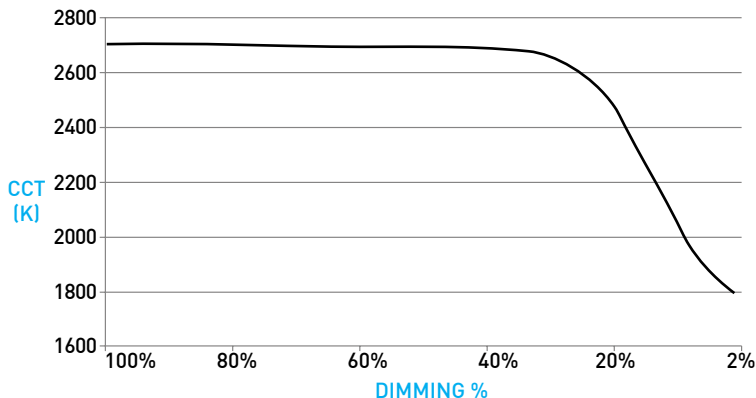
UNIFIED GLARE RATING				
10° OPTIC FIELD REDUCER	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS
<19	<16	<16	<19	<16

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

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

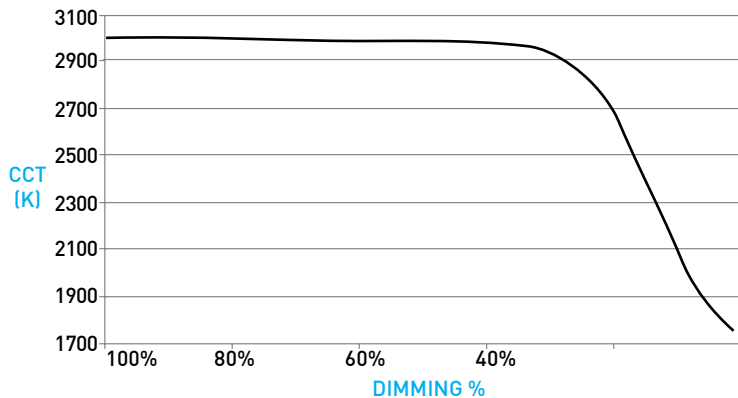
INCANDESCENT PROFILE

90L11AWL 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)	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	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
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	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
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

90L11AWD 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)	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	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
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	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
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.

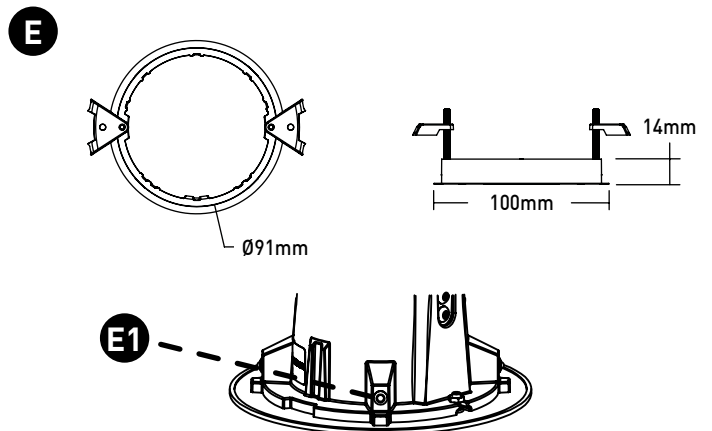
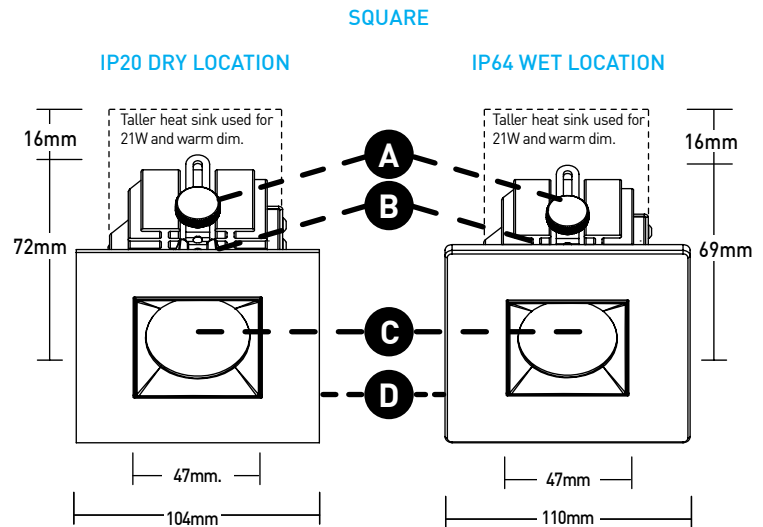
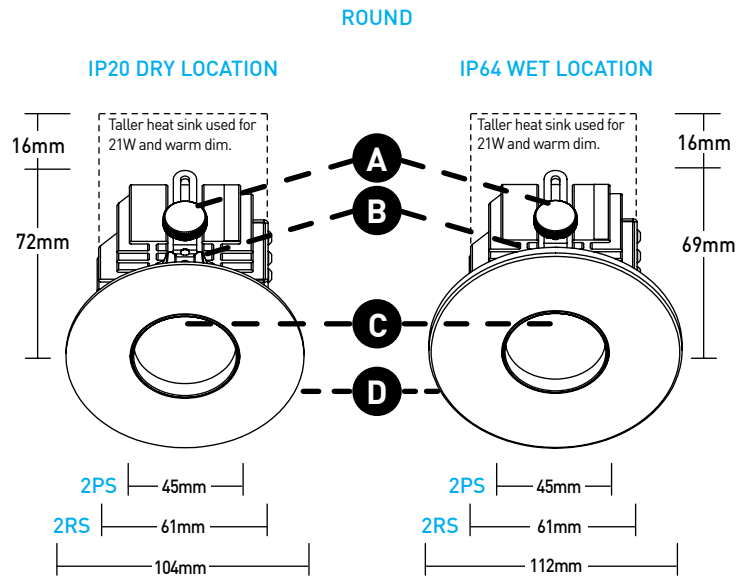
2 SERIES LED INT SHALLOW REGRESS

DOWNLIGHT FITTING

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 4.1mm to fitting 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 fitting. Secondary media available.
- D 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.
- E 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.
- E1 RETENTION**
Engineered integral ball plungers correspond to fitting adapter ensuring snug fit against finished ceiling.

DIMENSIONS / DRAWINGS



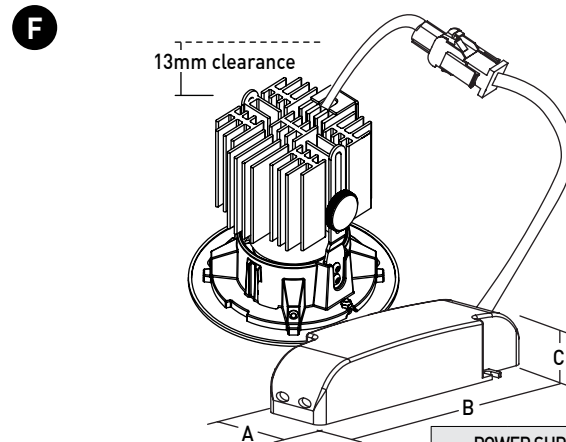
2 SERIES LED INT SHALLOW REGRESS

POWER SUPPLY

F 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).

DIMENSIONS / DRAWINGS



POWER SUPPLY DIMENSIONS			
Model	A	B	C
TR2	85mm	176mm	51mm
AN3	41mm	210mm	34mm
LN1			
EA1			
LA1			
ED1	76mm	152mm	31mm
LD1			

ZERO-SIGHTLINE INSTALLATIONS

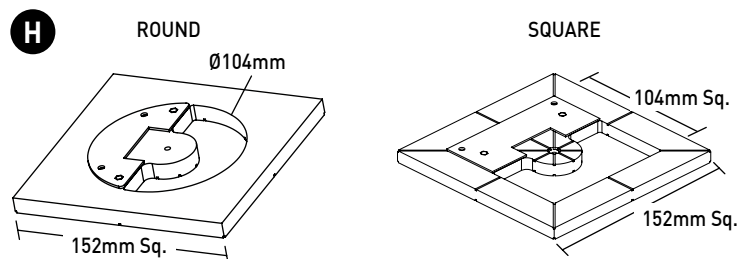
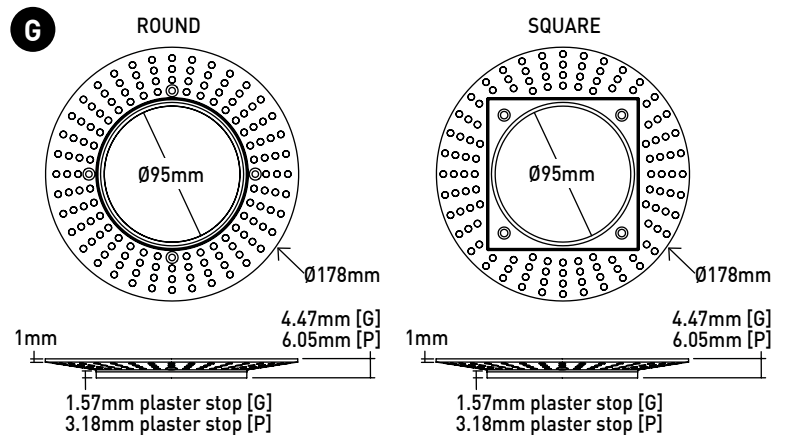
Fixture regresses flush with the finished ceiling plane when installed according to manufacturer instructions and finished ceiling conditions are met. Consult 2-Series Installation Guidelines for appropriate ceiling cutouts and instructions for proper Zero-Sightline installations.

G 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.

H 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.



2 SERIES LED INT SHALLOW REGRESS

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.

Downlight Fitting Adapter: 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.

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		0-10V			DALI-2		
	TR2	EA1	LA1	AN3	LN1	ED1	LD1	DD1
Minimum °C	-20 °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	40 °C
Dimming %	2.0%	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.

LISTING

CE Listed for IP20 Dry / Damp and IP64 Wet locations. NOM Certified.

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 OFFERINGS.
- 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
- 8.2/14/2025: UPDATED FINISH OFFERINGS
- 9.05/01/2025: UPDATED WARM DIM OFFERINGS AND PERFORMANCE



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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	nI0 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®	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
ABB	SD/S 2.16.1