

2 SERIES LED INT

WALLWASH

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

FITTING	RATING	FLANGE FINISH	CRI / WATTAGE PACKAGE	CCT	OPTIC	INSTALL TYPE	CEILING THICKNESS	POWER SUPPLY	MEDIA	FLANGE CONFIGURATION	
					WW	EX			WL		
2RW Round Expanded 2SW Square Expanded *(Lens sealed in place)	1 IP20 Dry / Damp 2 IP64 Wet* *(Increased lead time)	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)	LOW FLUX STATIC WHITE 3.73" TALL HOUSING 80S06A 80+ CRI, 6 Watts (Delivered - 2RW 415, 2SW 351) 80S11A 80+ CRI, 11 Watts (Delivered - 2RW 680, 2SW 554) 80S15A 80+ CRI, 15 Watts (Delivered - 2RW 926, 2SW 770) 90S06A 90+ CRI, 6 Watts (Delivered - 2RW 358, 2SW 303) 90S11A 90+ CRI, 11 Watts (Delivered - 2RW 586, 2SW 478) 90S15A 90+ CRI, 15 Watts (Delivered - 2RW 798, 2SW 664) 97S06A 97+ CRI, 6 Watts (Delivered - 2RW 315, 2SW 267) 97S11A 97+ CRI, 11 Watts (Delivered - 2RW 516, 2SW 421) 97S15A 97+ CRI, 15 Watts (Delivered - 2RW 702, 2SW 584)	24 2400K* *(90+CRI only, 15W max) 27 2700K 30 3000K 35 3500K 40 4000K	WW Wallwash Optic	EX Export	0 3mm-13mm 1 13mm-20mm 2 20mm-32mm	(120-277V) 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	WL Wallwash Lens	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)	
				HIGH FLUX STATIC WHITE 6.5" TALL HOUSING 80S21A 80+ CRI, 21 Watts (Delivered - 2RW 1245, 2SW 1029) 90S21A 90+ CRI, 21 Watts (Delivered - 2RW 1073, 2SW 887) 97S21A 97+ CRI, 21 Watts (Delivered - 2RW 944, 2SW 781)							
				WARM DIM 6.5" TALL HOUSING 90W11A 90+ CRI, 11 Watts Incandescent Profile: 2700K - 1800K (Delivered - 2RW 408, 2SW 355) Halogen Profile: 3000K - 1800K (Delivered - 2RW 412, 2SW 354) 90W15A 90+ CRI, 15 Watts Incandescent Profile: 2700K - 1800K (Delivered - 2RW 571, 2SW 496) Halogen Profile: 3000K - 1800K (Delivered - 2RW 578, 2SW 497) *SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON.	WL 2700K - 1800K WD 3000K - 1800K WL 2700K - 1800K WD 3000K - 1800K						
				TUNABLE WHITE 6.5" TALL HOUSING 90T17A 90+ CRI, 17 Watts Warm Profile (Delivered - 2RW 700, 2SW 610) Cool Profile (Delivered - 2RW 694, 2SW 605) *ALL DELIVERED LUMEN OUTPUTS REFLECT 3000K.	TR 4000K - 1800K TH 5000K - 2700K						

PART NUMBER NOTES

- Fittings ships as e.g. 2SW1-WH-80S15A-WEX1-AN3WL
- Driver ships with fitting
- Appliqué ships with fitting



2 SERIES LED INT WALLWASH

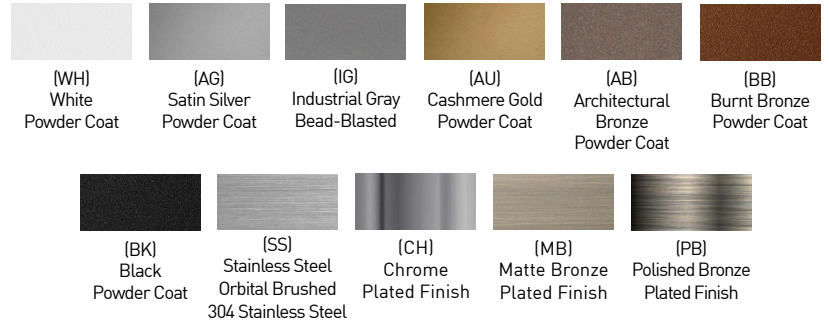
ACCESSORIES

ROUTER TOOL GUIDE (IP20 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

REPLACEMENT OPTIC

Interchangeable optics accessible through fixture aperture.
 RO-50-WW-S Wall Grazer Optic, Static White
 RO-50-WW-W Wall Grazer Optic, Warm Dim

FINISHES BY LUCIFER LIGHTING™



DRIVE CURRENT SPECIFICS

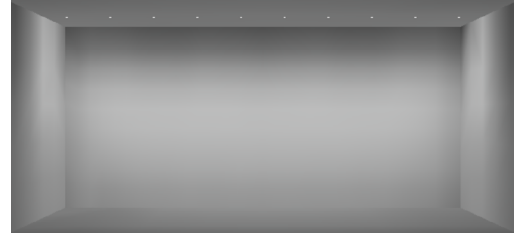
	80S				90S				97S				90W				90T	
	06A	11A	15A	21A	06A	11A	15A	21A	06A	11A	15A	21A	11AD	11AL	15AD	15AL	17AH	17AR
Minimum Vf	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Maximum Vf	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	37.6	37.6	37.6	37.6	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

	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	15	15	15

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WALLWASH DESIGN GUIDE

ROUND



RECOMMENDED

30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 15.46
- MIN / MAX: 2.94
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 25FT WALL SHOWN

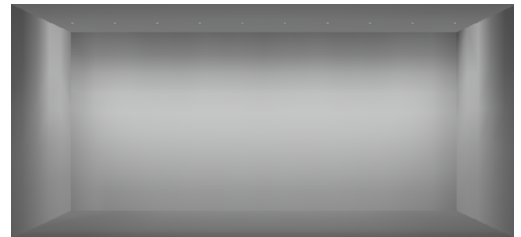
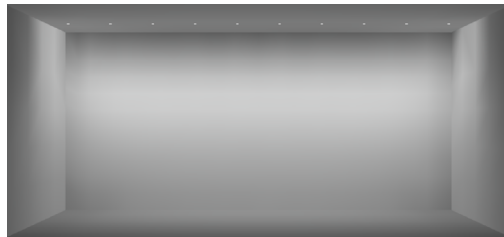
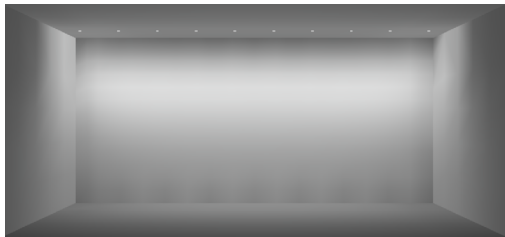
36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 11.73
- MIN / MAX: 3.11
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 30FT WALL SHOWN

42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 9.22
- MIN / MAX: 3.77
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 35FT WALL SHOWN

SQUARE



RECOMMENDED

30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 16.00
- MIN / MAX: 4.62
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 25FT WALL SHOWN

36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 12.47
- MIN / MAX: 2.98
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 30FT WALL SHOWN

42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 9.99
- MIN / MAX: 2.96
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 10 FIXTURES / 35FT WALL SHOWN

ADDITIONAL SPACINGS AND SETBACKS

ROUND			
ON CENTER SPACING	SETBACK		
	30"	36"	42"
30"	SHOWN ABOVE	AVERAGE FC: 14.02 MIN / MAX: 3.34	AVERAGE FC: 12.56 MIN / MAX: 3.85
36"	AVERAGE FC: 12.90 MIN / MAX: 2.63	SHOWN ABOVE	AVERAGE FC: 10.58 MIN / MAX: 3.47
42"	AVERAGE FC: 11.16 MIN / MAX: 2.88	AVERAGE FC: 10.18 MIN / MAX: 3.27	SHOWN ABOVE

SQUARE			
ON CENTER SPACING	SETBACK		
	30"	36"	42"
30"	SHOWN ABOVE	AVERAGE FC: 14.82 MIN / MAX: 3.38	AVERAGE FC: 16.38 MIN / MAX: 3.14
36"	AVERAGE FC: 13.40 MIN / MAX: 4.09	SHOWN ABOVE	AVERAGE FC: 11.52 MIN / MAX: 2.86
42"	AVERAGE FC: 11.51 MIN / MAX: 4.36	AVERAGE FC: 10.73 MIN / MAX: 3.16	SHOWN ABOVE

***ALL DATA REFLECTS 90S15A WATTAGE PACKAGE**

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STATIC WHITE PERFORMANCE - 3000K

CRI / WATTAGE PACKAGE	WATTAGE	WALLWASH			
		2RW		2SW	
		DELIVERED	LPW	DELIVERED	LPW
80S06A	6	415	69	351	59
80S11A	11	680	56	554	49
80S15A	15	926	62	770	51
80S21A	21	1245	59	1029	49
90S06A	6	358	62	303	53
90S11A	11	586	53	478	43
90S15A	15	798	53	664	44
90S21A	21	1073	51	887	42
97S06A	6	315	53	267	44
97S11A	11	516	47	421	38
97S15A	15	702	47	584	39
97S21A	21	944	45	781	37
90W11A (WL 27K-18K)	11	408	42	355	37
90W11A (WD 30K-18K)	11	412	43	354	37
90W15A (WL 27K-18K)	15	571	38	496	33
90W15A (WD 30K-18K)	15	578	38	497	33
90W17A (TR 40K-18K)	17	700	42	610	36
90W17A (TH 50K-27K)	17	694	41	605	36

OUTPUT MULTIPLIER

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

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

Part L

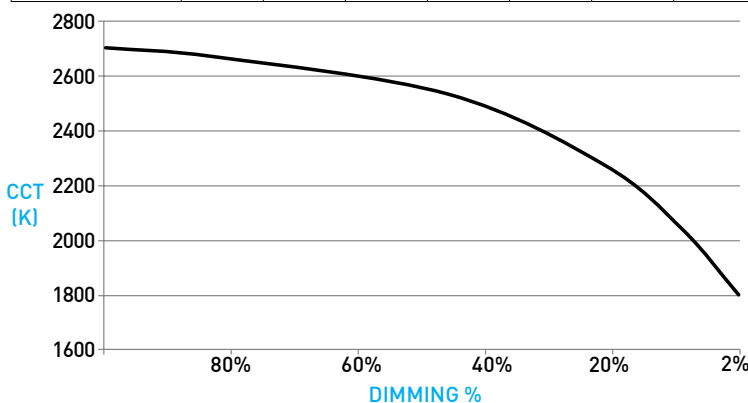
75+ LPW configurations comply with residential Part L
95+ LPW configurations comply with commercial Part L

WARM DIM PERFORMANCE

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)	408	326	286	204	82	41	8
Power (W)	11	9	8	6	2.2	1.1	.2
Efficacy (LPW)	37	37	37	37	37	37	37

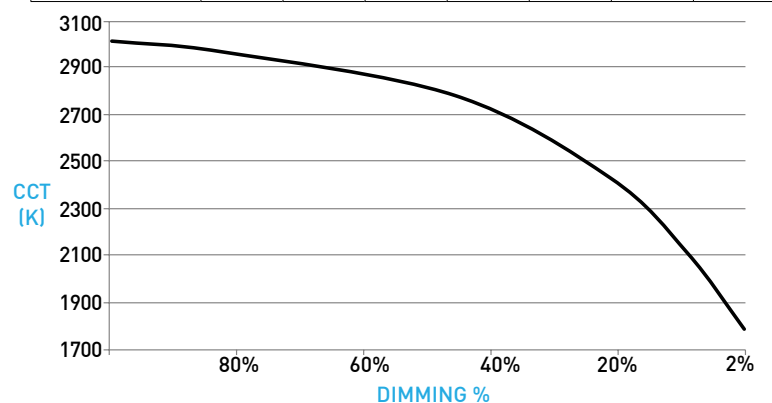
90W15AL 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
CCT (K)	2700	2650	2625	2550	2200	1900	1800
Light Output (Lm)	571	457	400	286	114	57	11.4
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	38	38	38	38	38	38	38



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)	412	330	288	206	82	41	8
Power (W)	11	9	8	6	2.2	1.1	.2
Efficacy (LPW)	37	37	37	37	37	37	37

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)	578	462	405	289	116	58	12
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	38	38	38	38	38	38	38



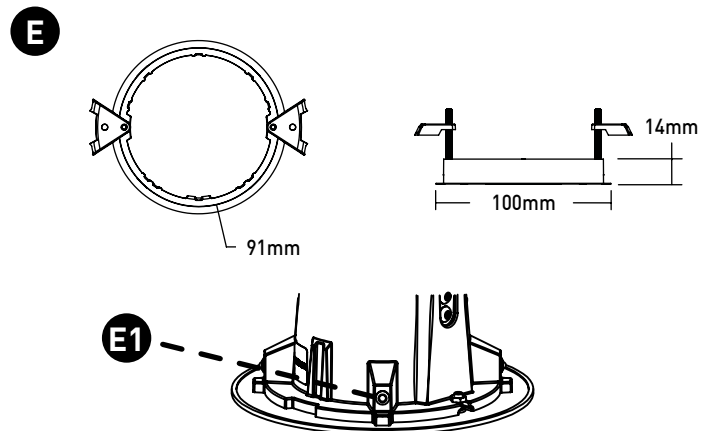
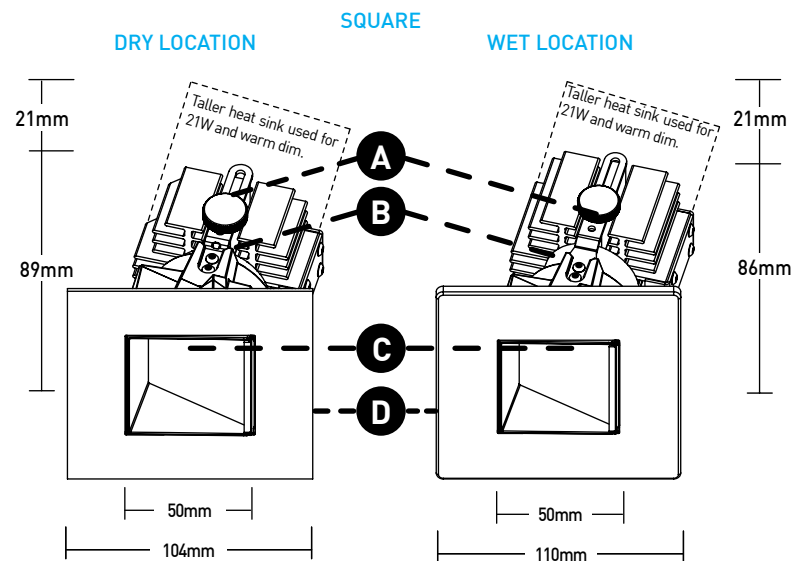
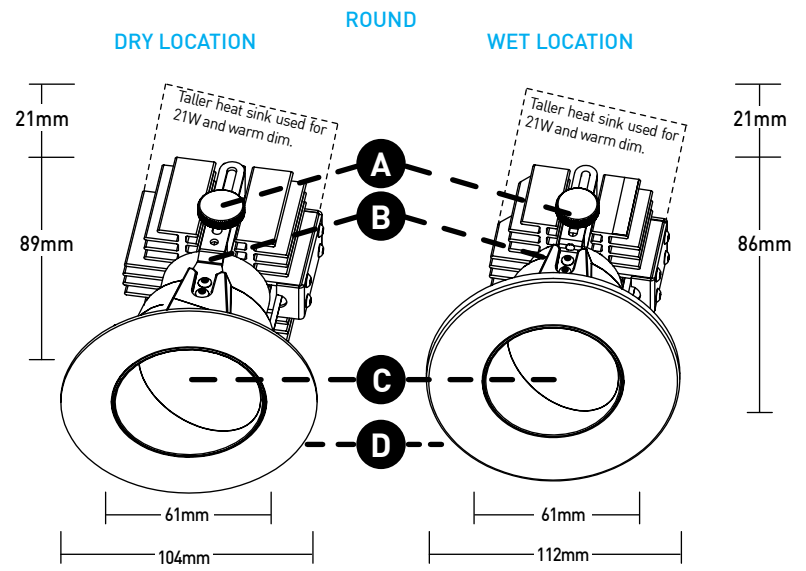
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DOWNLIGHT FITTING

Die-cast baffle and precision kick reflector provide dynamic wallwashing and minimal aperture glare.

- A** **ADJUSTABLE YOKE**
Adjustable yoke allows for quick access to optic and media.
- B** **OPTICS**
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering a 40° wallwashing beam.
- C** **MEDIA**
Wallwash lens included and sealed in place on wet location fixtures
- D** **TRIM PLATE**
 - Dry / Damp Location: Thickness measures 0.065" (1.7mm)
 - Wet Location: Sealed aperture and integral silicone gasket. 0.17" (4.3mm) 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**
Engineered integral ball plungers correspond to trim adapter ensuring snug fit against finished ceiling.

DIMENSIONS / DRAWINGS



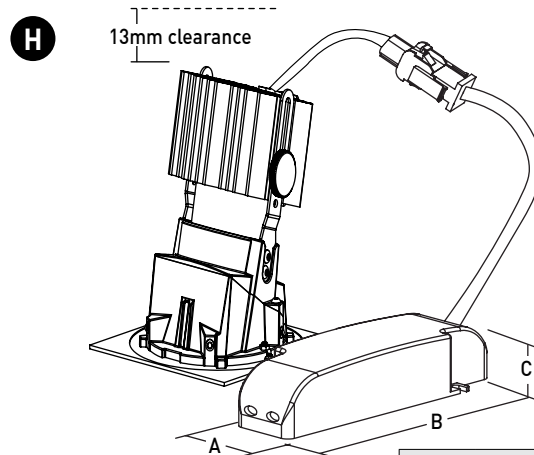
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POWER SUPPLY

J 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
AN3	41mm	210mm	34mm
LN1			
EA1			
LA1			
ED1	76mm	152mm	31mm
LD1			

ZERO-SIGHTLINE INSTALLATIONS

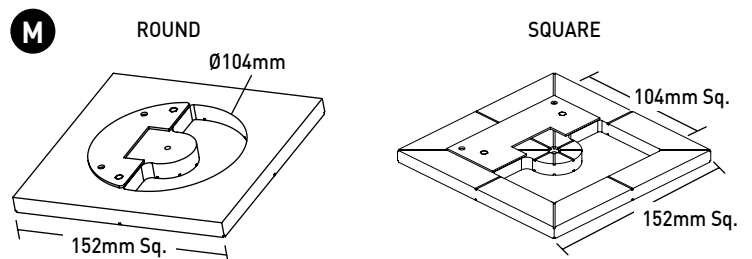
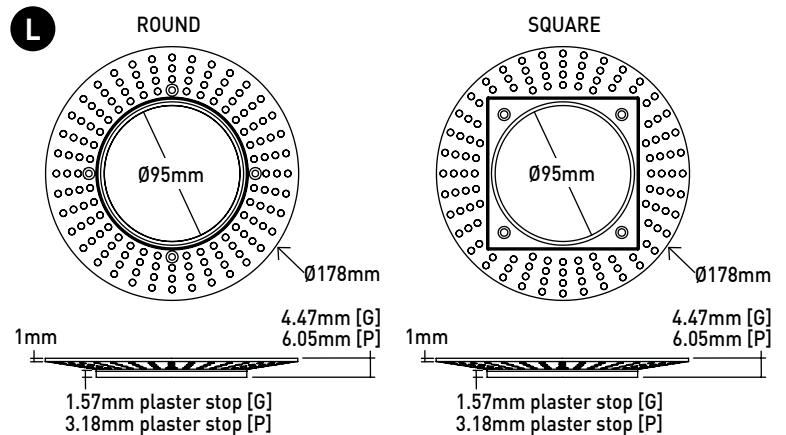
Fixture regresses flush with the finished ceiling plane when installed according to manufacturer instructions and finished ceiling conditions are met. Consult 2-Series Installation Guidelines for appropriate ceiling cutouts and instructions for proper Zero-Sightline installations.

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.



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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	0-10V				DALI-2		
	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 8 to confirm appropriate dimming curve for compatibility with selected control.

SPACING

Recommended fitting spacing is 36" on center with 36" setback from wall plane.

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.

PART L

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

FIXTURE WEIGHT

Trim - 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

- 01/12/2021: ADDED 2200K AND 2700K-1800K WARM DIM OFFERINGS.
- 10/08/2019: NEW CONSOLIDATED SPEC SHEETS WITH SINGLE NOMENCLATURE FOR SPECIFICATION.
- 10/17/2022: REMOVED 90WA13H 3200K-1800K WARM DIM AND ADDED 90WA12H 3000K-1800K WARM DIM.
- 08/08/2023: UPDATED WITH NEW LED AND OPTIC SYSTEM.
- 02/07/2024: ADDED 2400K, LOW WATTAGE, AND TUNABLE WHITE OFFERINGS.
- 2/15/2024: PART L COMPLIANCE ADDED



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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