

INTERNATIONAL SHALLOW REGRESS

- Max output of 2435lm at 80+ CRI
- Baffle options in round and square featuring UGR as low as 4
- Now available for remodel and concrete pour applications

ORDERING INFORMATION - DOWNLIGHT FITTING

[illegible]

FRAXION3 INTERNATIONAL SHALLOW REGRESS

ACCESSORIES

ROUND / SQUARE TRANSITIONAL ALTERNATE MEDIA

- IP20 Dry / Damp location only.
IP64 Wet location requires alternate baffle.
- ☐ **HCL-F3RS** Honeycomb Louver*
 - * (Not available for IP64 Wet Location, 21W, or Adjustable Fixtures)
 - ☐ **CGL-F3RS** Clear Glass Lens
 - ☐ **FGL-F3RS** Frosted Glass Lens
 - ☐ **SFL-F3RS** Soft Focus Lens
 - ☐ **FSFL-F3RS** Frosted Soft Focus Lens
 - ☐ **WDL-F3RS** Wide Distribution Lens*
 - * (Required and only available for 85° beam spread)
 - ☐ **FLSL-F3RS** Frosted Linear Spread Lens

SQUARE ALTERNATE MEDIA

- IP20 Dry / Damp location only.
IP64 Wet location requires alternate baffle.
- ☐ **HCL-F3SS** Honeycomb Louver*
 - * (Not available for IP64 Wet Location, 21W, or Adjustable Fixtures)
 - ☐ **CGL-F3SS** Clear Glass Lens
 - ☐ **FGL-F3SS** Frosted Glass Lens
 - ☐ **SFL-F3SS** Soft Focus Lens
 - ☐ **FSFL-F3SS** Frosted Soft Focus Lens
 - ☐ **WDL-F3SS** Wide Distribution Lens*
 - * (Required and only available for 85° beam spread)
 - ☐ **FLSL-F3SS** Frosted Linear Spread Lens

ADJUSTABLE HCL ASSEMBLY

- Dry / Damp location only.
- ☐ **OLR-F3RS1-SFL-HCL** Adjustable Honeycomb Louver and Soft Focus Lens*
 - * (Not available for IP64 Wet Location, 21W, or Fixed Fixtures)

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	RATING	FINISH	MEDIA
RBA				
REPLACEMENT BAFFLE ASSEMBLY	F3RS Round Shallow Regress F3RW Round Wallwash F3SS Square Shallow Regress F3SW Square Wallwash F3TS Square Transitional Shallow Regress	1 IP20 Dry/Damp 2 IP64 Wet* * (Requires provided suction cup to service or aim & focus)	WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish * * (Consult Factory)	LEAVE BLANK FOR SOFT FOCUS LENS (SFL) OR WALLWASH (WW) HCL Honeycomb Louver* * (Not available for IP64 Wet Location, or adjustable fixtures) CGL Clear Glass Lens FGL Frosted Glass Lens FSFL Frosted Soft Focus Lens FLSL Frosted Linear Spread Lens WDL Wide Distribution Lens* * (Required and only available for 85° optic) NL No Lens* * (Not available for IP64 Wet Location)

SHALLOW REGRESS / WALLWASH REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

- | STATIC WHITE | WARM DIM | TUNABLE WHITE |
|---|---|---|
| <input type="checkbox"/> RO-50-15-S 15° optic | <input type="checkbox"/> RO-50-15-W 15° optic | <input type="checkbox"/> RO-50-15-T 15° optic |
| <input type="checkbox"/> RO-50-20-S 20° optic | <input type="checkbox"/> RO-50-20-W 20° optic | <input type="checkbox"/> RO-50-20-T 20° optic |
| <input type="checkbox"/> RO-50-25-S 25° optic | <input type="checkbox"/> RO-50-25-W 25° optic | <input type="checkbox"/> RO-50-25-T 25° optic |
| <input type="checkbox"/> RO-50-40-S 40° optic | <input type="checkbox"/> RO-50-40-W 40° optic | <input type="checkbox"/> RO-50-40-T 40° optic |
| <input type="checkbox"/> RO-50-60-S 60° optic | <input type="checkbox"/> RO-50-60-W 60° optic | <input type="checkbox"/> RO-45-WW-T Wallwash optic |
| <input type="checkbox"/> RO-45-WW-S Wallwash optic | <input type="checkbox"/> RO-45-WW-W Wallwash optic | |

REPLACEMENT SUCTION TOOL

- One included with every six fixtures designated Wet location.
- ☐ **F4-TOOL-SUCTION** Allows for removal of baffle with Wet location

FRAXION3 INTERNATIONAL SHALLOW REGRESS

PERFORMANCE - 3000K

LUMEN PACKAGE	WATT-AGE	10° OPTIC FIELD REDUCER KIT		15° OPTIC SOFT FOCUS LENS		20° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		40° OPTIC SOFT FOCUS LENS		60° OPTIC SOFT FOCUS LENS		85° OPTIC WIDE DISTRIBUTION		WW OPTIC WALLWASH LENS	
		DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW
80S06A	06	-	-	740	110	795	123	779	120	678	113	727	121	640	92	634	106
80S11A	11	-	-	1190	97	1279	108	1254	106	1090	99	1169	106	954	80	1020	93
80S15A / C	15	633	42	1608	96	1729	107	1694	105	1474	98	1580	105	1289	80	1378	92
80S21A	21	-	-	2290	97	2435	107	2386	105	2075	99	2226	106	1740	77	1861	89
90S06A	06	-	-	635	95	683	105	669	103	582	97	624	104	509	79	545	91
90S11A	11	-	-	1022	83	1099	93	1077	91	937	85	1005	91	820	69	876	80
90S15A / C	15	544	36	1381	82	1485	92	1455	90	1266	84	1358	91	1107	68	1184	79
90S21A	21	-	-	1938	82	2092	92	2050	90	1783	85	1912	91	1495	66	1598	76
97S06A	06	-	-	558	83	600	93	588	91	511	85	548	91	447	69	478	80
97S11A	11	-	-	898	73	965	81	946	80	822	75	882	75	720	61	769	70
97S15A / C	15	469	31	1213	72	1304	80	1278	79	1111	74	1192	79	972	60	1040	69
97S21A	21	-	-	1701	72	1837	81	1800	79	1565	75	1679	80	1313	58	1403	67
90L11A (26K-18K)	11	-	-	787	72	888	81	865	79	803	73	884	80	764	69	823	75
90L11A (29K-18K)	11	-	-	778	71	894	81	875	80	807	73	894	81	768	70	727	66
90L15A (27K-18K)	15	-	-	1049	70	1184	79	1153	77	1070	71	1179	79	1019	68	1097	73
90L15A (30K-18K)	15	-	-	1038	69	1193	80	1168	78	1077	72	1193	80	1025	68	971	65
90L22A (27K-18K)	22	-	-	1359	62	1534	70	1494	68	1389	63	1528	69	1320	60	1421	65
90L22A (30K-18K)	22	-	-	1386	63	1594	72	1560	71	1439	65	1594	72	1369	62	1297	59
90T17A (50K-27K)	17	-	-	1082	62	1231	69	1217	68	1241	63	1249	68	1005	51	1009	59
90T17A (40K-18K)	17	-	-	1086	62	1235	69	1221	68	1245	64	1254	68	1008	52	1012	60

Part L

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

UNIFIED GLARE RATING

OPTIC	10° OPTIC FIELD REDUCER	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS	85° OPTIC WIDE DIST.	WW OPTIC WALLWASH LENS
MAX UGR	<10	>19	<13	<13	<16	>19	>19	>19

*UGR VALUES REFLECT WHITE BAFFLE AND 30 WATTS, LOWER UGR VALUES AVAILABLE WITH DIFFERENT FINISHES AND LOWER WATTAGES.

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.00
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

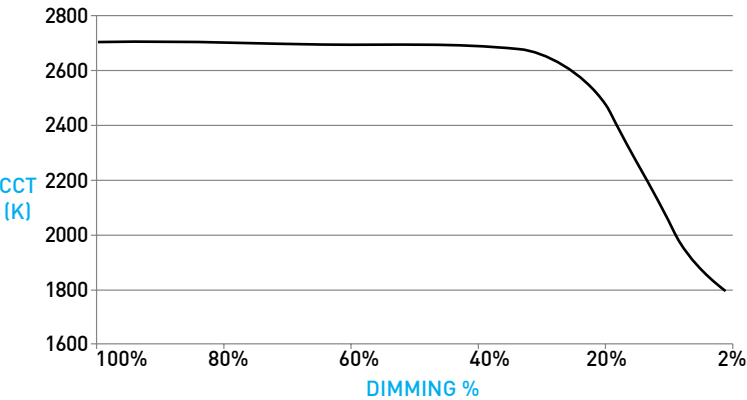
MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.06
CGL	1.00
SFL	1.00
FGL	0.89
FLSL	0.82
FSFL	0.81
HCL	0.74

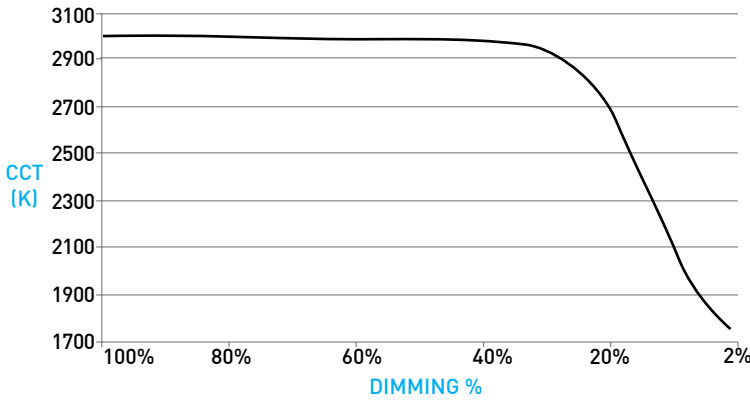
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WARM DIM PERFORMANCE - 20° OPTIC - SOFT FOCUS LENS

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)	888	710	622	444	178	89	18
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	81	81	81	81	81	81	81
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)	1184	947	828	592	236	118	23
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	79	79	79	79	79	79	79
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)	1534	1227	1074	767	307	153	31
Power (W)	22	17.6	15.4	11	4.4	2.2	0.4
Efficacy (LPW)	70	70	70	70	70	70	70



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)	894	715	626	447	179	89	18
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	79	79	79	79	79	79	79
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)	1193	954	835	596	238	119	23
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	80	80	80	80	80	80	80
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)	1594	1275	1116	797	319	159	32
Power (W)	22	17.6	15.4	11	4.4	2.2	0.4
Efficacy (LPW)	72	72	72	72	72	72	72



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

FRAXION3 INTERNATIONAL SHALLOW REGRESS

DOWNLIGHT FITTING

A RETENTION

Integrated metal arm clamps located within fixture body allow discreet flange design, while accommodating varying ceiling thicknesses from 0.25" to 1.50". Snap-on spacer clips (2X) supplied for ceiling thickness below 0.50" only.

B ADJUSTABILITY

Hot-aim 40° tilt and 365° rotation. #2 Philips or flathead screwdriver, provided by others, engages with tilt and rotation mechanisms.

C MICROFLANGE PROFILE

Provides industry standard 0.43" total contractor (goof) allowance with 0.27" flange. Thickness measures 1/16". IP64 Wet location features integral silicone gasket.

D TRIMLESS GYPSUM PROFILE

Installs totally flush with the ceiling with no visible trim. Features integrated appliqué for plaster floating directly to the baffle. Not recommended for stucco applications.

E ROUND / SQUARE BAFFLE

Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 64° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

SQUARE TRANSITIONAL BAFFLE

Transitions from square aperture at ceiling to round aperture at light source. Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 64° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

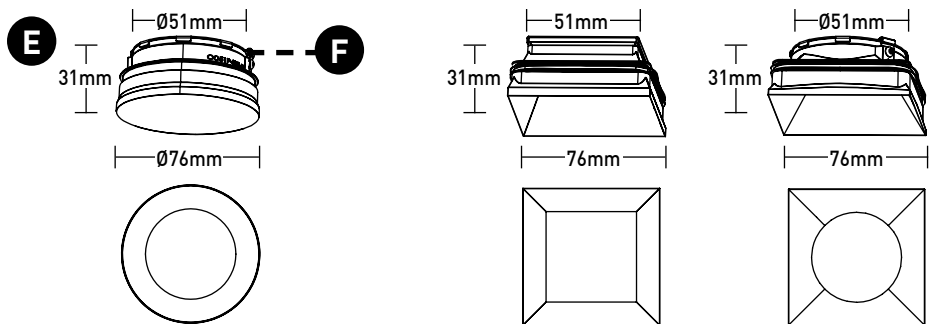
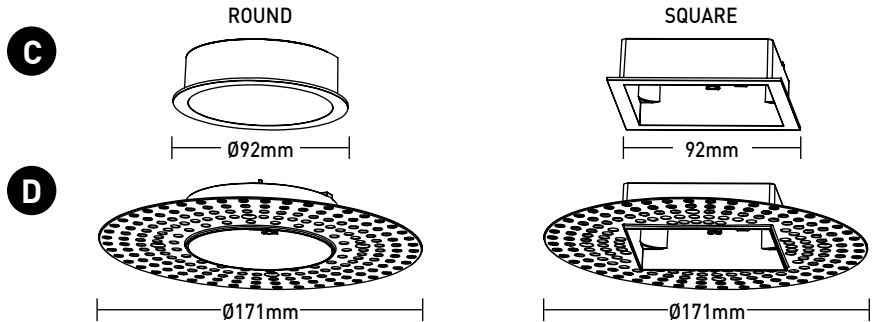
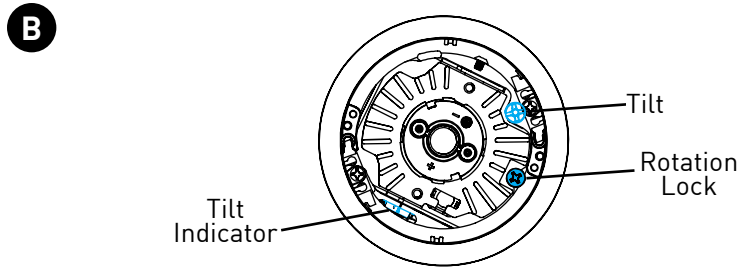
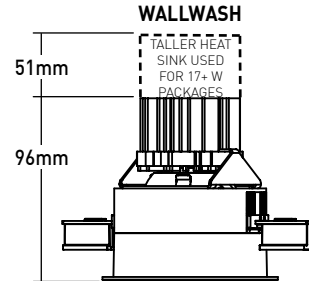
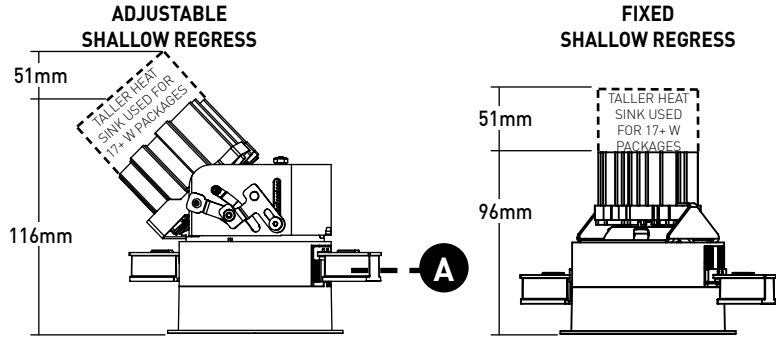
WALLWASH BAFFLE / MEDIA

Die-cast baffle with angled wide aperture for enhanced uniformity. Features asymmetrical spread lens, sealed in place, combined with auxiliary reflector for optimum performance. Includes gasket, mitigating light leak, and Suction Tool to accommodate baffle removal.

F EFFECTS DEVICES / LENS RETAINER

Fixture is limited to 1 effects device installed on the baffle, see Section I for Adjustable HCL assembly. Wet location effects device is sealed in place on baffle, suction tool provided for removal of baffle. Lens retainer allows effects devices to be changed in Dry /Damp locations.

DIMENSIONS / DRAWINGS



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DOWNLIGHT FITTING

DIMENSIONS / DRAWINGS

- G OPTIC**
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering wallwash, 10°, 15°, 20°, 25°, 40° & 60° beams.
- H 10° FIELD REDUCER**
Provided with 10° optic. Pairs Soft Focus Lens, Field Reducer, and Honeycomb Louver to deliver tight 10° beam while reducing field angle by 30%.
- I ADJUSTABLE HCL ASSEMBLY**
Honeycomb Louver and Soft Focus Lens attach directly to optic with clip-on lens retainer and adjusts with fixture. Only compatible with no lens baffle. Dry/Damp locations only. Specified as "HS" Effects Device
- J TRIMLESS MILLWORK PROFILE / SPACERS**
No visible flange, installs totally flush with millwork. Requires rigid backing for installation. Includes (1) 1.5mm spacer and (5) 3mm spacers.
- K CONCRETE POUR HOUSING / PROFILE**
- Provided with install types "KC and KR".
 - Ships separate from downlight and power supply.
 - Features 4 conduit entries compatible with 20mm and 25mm ENT. Includes tunnel to accommodate installation of power supply.
 - Includes tunnel to accommodate installation of power supply.
 - Features broad mounting tolerance area for trim location.
 - Tunnel not included for "KR" remote driver configurations.

G



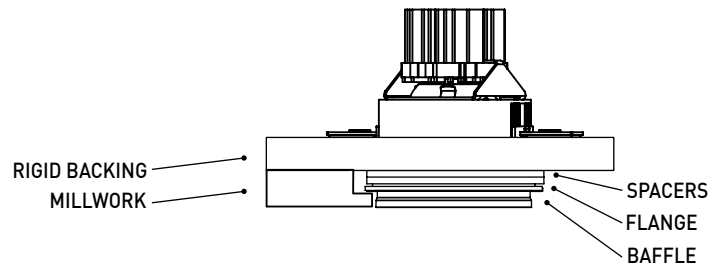
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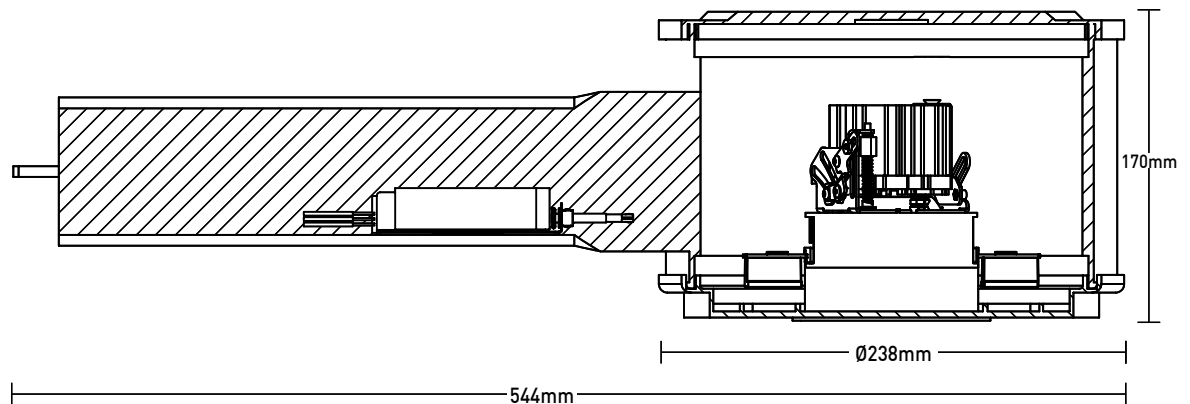
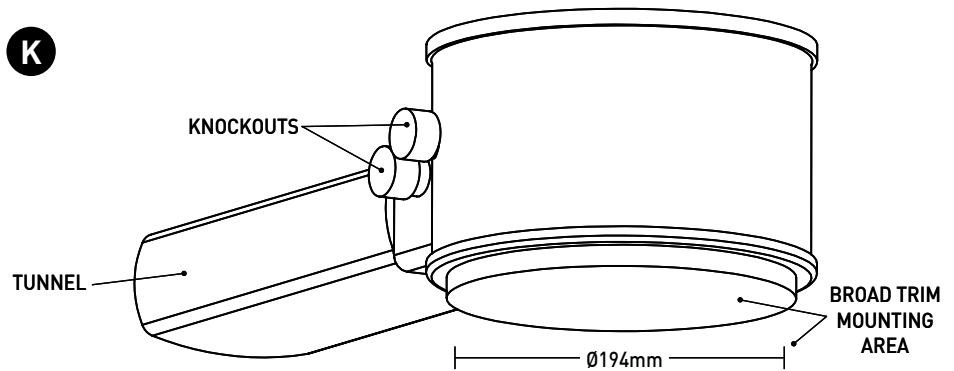
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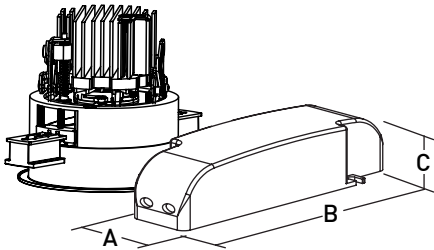
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POWER SUPPLY

- L

FITTING WITH NON-IC TETHERED POWER SUPPLY

 - Requires 86mm cutout.
 - Features quick-connect plug between fitting and power supply.
 - Minimum 19mm 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 downlight fitting assembly.
 - Minimum additional 152mm setback from polycell spray foam insulation with max R-Value 60 from any surface of downlight 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).
- L



POWER SUPPLY DIMENSIONS			
Model	A	B	C
PH1	85mm	176mm	51mm
IG1	41mm	210mm	34mm
IN1			
ID1			
MD2	43mm	150mm	26mm

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LOW VOLTAGE SYSTEM (LVS) SPECIFICATION NOTES

- Customers are responsible for ensuring power supply drive current is set to correct values shown below in the drive current specifics section.
- Customers must ensure voltage range of the proposed power supply encompasses the fixtures complete Vf range, both maximum and minimum, and can be set to the required mA drive current. If assistance is required contact your maunfacturers representative or the factory.
- Lucifer Lighting is not responsible for confirming dimming compatability between power supplies and control systems / dimmers.
- Lucifer Lighting will not ship fixtures with a power supply supplied by others inside the fixture.
- Consult power supply manufacturer for maximum remote wiring distances.
- Housing and Fixture feature 18 AWG wiring.
- Wiring connections are made in the splicing compartment using customer supplied connectors, ex. wire nuts, push-in connectors, or terminal blocks.
- LVS Housings and Fixtures supplied by Lucifer Lighing are UL 2108 Listed.

DRIVE CURRENT SPECIFICS

	80S / 90S / 97S					90L			90T
	06A	11A	15A	15C	21A	11A	15A	22A	17A
Minimum Vf	31	31	31	31	31	31	31	31	31
Maximum Vf	36	36	36	37	36	37	37	37	37
Current mA	150	250	350	350	500	250	350	500	400
Wattage W	5.0	8.4	11.8	11.8	16.9	8.4	11.7	16.8	13.2

FRAXION3 INTERNATIONAL SHALLOW REGRESS

TECHNICAL

CONSTRUCTION

Downlight: Painted finishes are granulated powder coat. Forged aluminum heat-sink.

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 ranges of 1800K to 4000K and 2700K to 5000K. Average rated lamp life of 50,000 hours. LED and driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	PHASE		0-10V		DALI-2	
Power Supply	PH1	IG1	IN1	ID1	MD2	
Minimum °C	-20 °C	-20 °C	-20 °C	-20 °C	-40 °C	
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	
Dimming %	2.0%	0.1%	0.1%	0.1%	0.1%	

Note: For IG1 and IN1 drivers consult chart on page 9 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

DRIVER	WIRE AWG				
	12	14	16	18	20
PH1	285'	180'	113'	71'	45'
IG1, IN1, ID1	-	-	118'	72'	46'

WALLWASH SPACING

Recommended fixture spacing is 36" (914mm) on center with 36" (914mm) setback from wall plane.

LISTING

CE Listed for IP20 Dry / Damp and IP64 Wet locations.
NEMA 410 Compliant.

DECLARE

LBC Red List Approved.

WEIGHT

Fixture - 3 lbs max
Remote 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 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. 05/07/2025: UPDATED WARM DIM OFFERING. ADDED PH1 DRIVER.
- 2. 11/14/2025: ADDED LVS OFFERING.

FRAXION3 INTERNATIONAL SHALLOW REGRESS

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply PH1 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

eldoLED DRIVER COMPATIBILITY

Power supply IG1 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 IN1	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	n10 EZ
ABB	SD/S 2.16.1

ANALOG DRIVERS AND DIMMERS

