

FRAXION®3

INTERNATIONAL

DEEP REGRESS

- Max output of 1548lm at 80+ CRI
- Deep regress baffle options in round and square featuring UGR as low as 1
- Now available for remodel and concrete pour applications

PROJECT NAME:

TYPE:



ORDERING INFORMATION - DOWNLIGHT FITTING

SHAPE	RATING	TYPE	FINISH	BAFFLE FINISH	CRI	WATTAGE	CCT	OPTIC (UGR)	MEDIA	INSTALL TYPE	CEILING THICKNESS	DRIVER
											1	
F3RD Round Deep Regress	1 IP20 Dry/Damp	A Adjustable	POWDERCOAT MICROFLANGE	POWDERCOAT	STATIC WHITE	STATIC WHITE 06D 06W - 524 Lm 09H 09W - 363 Lm* * (For use with 10" optic only)	24 2400K* * (90+ CRI 11D, 15D, and 09H only) 27 2700K 30 3000K 35 3500K 40 4000K	10 10° (<10) * (09H package only) 15 15° (<13) 25 25° (<13) 35 35° (<16) 50 50° (<19) 80 80° (>19) * (Requires -07 WDL media)	STANDARD MEDIA 04 Soft Focus Lens* * (Required for 10" Optic) ALTERNATE MEDIA 01 Honeycomb Louver* * (Not available for IP64 Wet Location, or Adjustable Fixtures) 02 Clear Glass Lens 03 Frosted Glass Lens 05 Frosted Soft Focus Lens 06 Frosted Linear Spread Lens 07 Wide Distribution Lens* * (Required and only available for 85° optic)	EX Export CONCRETE POUR KC Integral Driver KR Remote Driver	1 6mm-54mm	PH1 Forward / Reverse Phase, 2%, 120V* * (120V, For use in Mexico only) IG1 eldoLED, SOLOdrive 0.1% 0-10V, LOG, 120V-277V IN1 eldoLED, SOLOdrive 0.1% 0-10V, LIN, 120V-277V ID1 eldoLED, SOLOdrive 0.1% DALI-2, LOG, 120V-277V TUNABLE WHITE MD2 0.1% DALI-2 DT8, LOG 120V-277V
F3SD Square Deep Regress	2 IP64 Wet* * (Suction cup provided for aim and focus)	F Fixed	WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish* * (Consult Factory) TRIMLESS TG Trimless Gypsum 1.5mm* * (Not available for concrete pour installations) TM Trimless Millwork* * (Not available for concrete pour installations)	WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish* * (Consult Factory) NATURAL WOOD W0 Customer Supplied Dried Hardwood* * (Not available for IP64 wet locations) W1 Lucifer Lighting Walnut* * (Not available for IP64 wet locations) W2 Lucifer Lighting Maple* * (Not available for IP64 wet locations)	80S 80+ 90S 90+ 95S 95+	WARM DIM 90L 90+ 11D 90+ CRI, 11 Watts 15D 90+ CRI, 16 Watts Incandescent Profile 11D - 711 Lm 15D - 744 Lm Halogen Profile 11D - 909 Lm 15D - 935 Lm SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON.	WL 2700K -1800K WD 3000K -1800K	15 15° (<13) * (Not available with 01, 02, or NL media) 25 25° (<13) 35 35° (<16) 50 50° (<19) 80 80° (>19) * (Requires -07 WDL media)	HS Adjustable Honeycomb Louver and Soft Focus Lens* * (Not available for IP64 Wet Location, 19W, or Fixed Fixtures) NL No Lens* * (Not available for IP64 Wet Location)			
F3TD Square Transitional Deep Regress*	* (Not available for natural wood baffles)					TUNABLE WHITE 90T 90+ 10D 10W Warm Profile: 4000K - 1800K 746 Lm Cool Profile: 5000K - 2700K 657 Lm	TR 4000K - 1800K TH 5000K - 2700K	15 15° (<13) 25 25° (<13) 35 35° (<16) 50 50° (<19) 80 80° (>19) * (Requires -07 WDL media)				



LUMEN DELIVERED OUTPUTS
REFLECT 80+ CRI / 3000K PAIRED
WITH 50° OPTIC AND SOFT FOCUS
LENS

FRAXION3 INTERNATIONAL DEEP REGRESS

ACCESSORIES

ROUND / SQUARE TRANSITIONAL ALTERNATE MEDIA

- IP20 Dry / Damp location only.
IP64 Wet location requires alternate baffle.
- ☐ **HCL-F3RD** Honeycomb Louver*
*(Not available for warm dim when paired with 15° optic)
 - ☐ **CGL-F3RD** Clear Glass Lens*
*(Not available for warm dim when paired with 15° optic)
 - ☐ **FGL-F3RD** Frosted Glass Lens
 - ☐ **SFL-F3RD** Soft Focus Lens
 - ☐ **FSFL-F3RD** Frosted Soft Focus Lens
 - ☐ **WDL-F3RD** Wide Distribution Lens*
*(Required and only available for 80° beam spread)
 - ☐ **FLSL-F3RD** Frosted Linear Spread Lens

SQUARE ALTERNATE MEDIA

- IP20 Dry / Damp location only.
IP64 Wet location requires alternate baffle.
- ☐ **HCL-F3SD** Honeycomb Louver*
*(Not available for warm dim when paired with 15° optic)
 - ☐ **CGL-F3SD** Clear Glass Lens*
*(Not available for warm dim when paired with 15° optic)
 - ☐ **FGL-F3SD** Frosted Glass Lens
 - ☐ **SFL-F3SD** Soft Focus Lens
 - ☐ **FSFL-F3SD** Frosted Soft Focus Lens
 - ☐ **WDL-F3SD** Wide Distribution Lens*
*(Required and only available for 80° beam spread)
 - ☐ **FLSL-F3SD** Frosted Linear Spread Lens

ADJUSTABLE HCL ASSEMBLY

- Dry / Damp location only.
- ☐ **OLR-F3RD1-SFL-HCL**
Adjustable Honeycomb Louver and Soft Focus Lens*
*(Not available for IP64 Wet Location, 19W, or Fixed Fixtures)

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	RATING	FINISH	MEDIA
RBA				
REPLACEMENT BAFFLE ASSEMBLY	F3RD Round Deep Regress F3SD Square Deep Regress F3TD Square Transitional Deep 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) HCL Honeycomb Louver* *(Not available for IP64 Wet Location, adjustable fixtures, or warm dim when using 15° optic) CGL Clear Glass Lens* *(Not available for warm dim when using 15° optic) FGL Frosted Glass Lens FSFL Frosted Soft Focus Lens FLSL Frosted Linear Spread Lens WDL Wide Distribution Lens* *(Required and only available for 80° optic) NL No Lens* *(Not available for IP64 Wet Location, or warm dim when using 15° optic)

DEEP REGRESS REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

STATIC WHITE

- ☐ **RO-35-15-S** 15° optic
- ☐ **RO-35-25-S** 25° optic
- ☐ **RO-35-35-S** 35° optic
- ☐ **RO-35-50-S** 50° optic

WARM DIM

- ☐ **RO-35-15-W** 15° optic
- ☐ **RO-35-25-W** 25° optic
- ☐ **RO-35-35-W** 35° optic
- ☐ **RO-35-50-W** 50° optic

TUNABLE WHITE

- ☐ **RO-35-15-T** 15° optic
- ☐ **RO-35-25-T** 25° optic
- ☐ **RO-35-35-T** 35° optic
- ☐ **RO-35-50-T** 50° 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 DEEP REGRESS

PERFORMANCE - 3000K

LUMEN PACKAGE	WATT-AGE	10° OPTIC FIELD REDUCER KIT		15° OPTIC SOFT FOCUS LENS		25° OPTIC SOFT FOCUS LENS		35° OPTIC SOFT FOCUS LENS		50° OPTIC SOFT FOCUS LENS		80° OPTIC SOFT FOCUS LENS	
		DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW	DLVD	LPW
80S06D	06	-	-	527	88	524	87	477	80	500	83	430	72
80S09H	09	363	33	-	-	-	-	-	-	-	-	-	-
80S11D	11	-	-	848	77	842	77	768	70	805	73	692	63
80S15D	15	-	-	1129	75	1138	76	1038	69	1087	72	935	62
80S19D	19	-	-	1548	74	1537	73	1401	67	1468	70	1263	60
90S06D	06	-	-	446	74	443	74	404	67	423	71	364	61
90S09H	09	312	35	-	-	-	-	-	-	-	-	-	-
90S11D	11	-	-	718	65	713	65	650	59	681	62	585	53
90S15D	15	-	-	970	65	963	64	878	59	920	61	791	63
90S19D	19	-	-	1310	62	1300	62	1185	56	1242	59	1068	51
95S06D	06	-	-	396	66	393	66	358	60	375	63	323	54
95S09H	09	269	18	-	-	-	-	-	-	-	-	-	-
95S11D	11	-	-	637	58	632	57	576	52	604	55	519	47
95S15D	15	-	-	861	57	854	57	779	52	816	54	702	47
95S19D	19	-	-	1162	55	1153	55	1052	50	1102	52	948	45
90W11D (26K-18K)	11	-	-	698	63	711	65	644	59	665	60	538	49
90W11D (29K-18K)	11	-	-	747	68	744	68	674	61	706	64	566	51
90W15D (27K-18K)	15	-	-	912	61	909	61	811	54	857	57	685	46
90W15D (30K-18K)	15	-	-	975	65	935	62	989	66	888	59	935	62
90T10D (50K-27K)	10	-	-	662	66	657	66	586	59	623	62	674	67
90T10D (40K-18K)	10	-	-	752	75	746	75	667	67	708	71	766	77

Part L

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

PERFORMANCE ATTRIBUTES

OPTIC	10° OPTIC FIELD REDUCER	15° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	35° OPTIC SOFT FOCUS LENS	50° OPTIC SOFT FOCUS LENS	80° OPTIC WIDE DIST.
MAX UGR	<10	<13	<13	<16	>19	>19
MAX TILT	15°	13°	8°	5°	<5°	

*UGR VALUES REFLECT WHITE BAFFLE AND 30 WATTS, LOWER UGR VALUES AVAILABLE WITH DIFFERENT FINISHES AND LOWER WATTAGES.
**MAX TILT REFLECTS TILT ANGLE PRIOR TO BEAM CLIPPING.

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-2800K
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

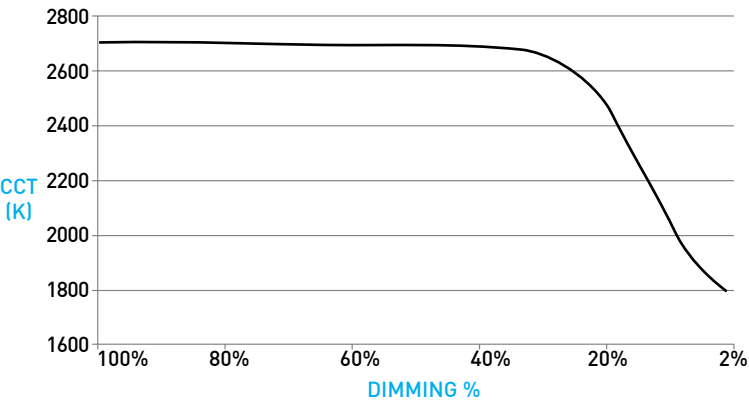
MEDIA LIGHT LOSS FACTOR

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

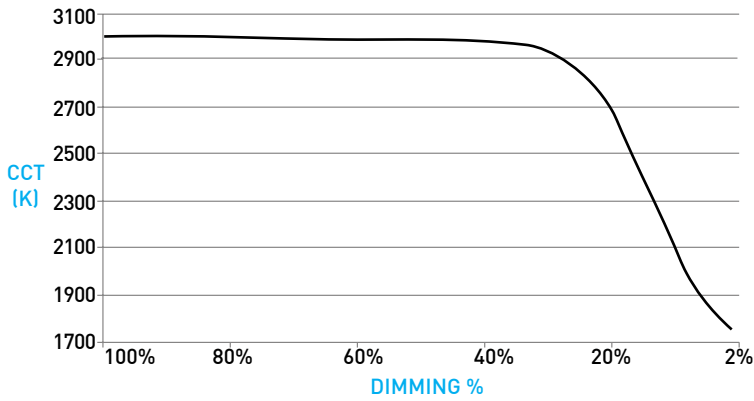
FRAXION3 INTERNATIONAL DEEP REGRESS

WARM DIM PERFORMANCE - 25° OPTIC - SOFT FOCUS LENS

INCANDESCENT PROFILE							
90L11DWL 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	2700	2700	2700	2200	1900	1800
Light Output (Lm)	711	569	498	356	142	71	14
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	65	65	65	65	65	65	65
90L15DWL 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	2700	2700	2700	2450	1950	1800
Light Output (Lm)	909	727	636	455	182	91	18
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	61	61	61	61	61	61	61



HALOGEN PROFILE							
90L11DWD 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	3000	3000	3000	2200	1850	1800
Light Output (Lm)	744	595	521	372	149	74	15
Power (W)	11	8.8	7.7	5.5	2.2	1.1	0.2
Efficacy (LPW)	68	68	68	68	68	68	68
90L15DWD 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	3000	3000	3000	2700	1900	1800
Light Output (Lm)	935	748	655	468	187	94	19
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	62	62	62	62	62	62	62



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

FRAXION3 INTERNATIONAL DEEP REGRESS

DOWNLIGHT FITTING

A ADJUSTABILITY

Hot-aim tilt up to 40° and 361° rotation with Philips screwdriver, features 5° tilt increment indicators. Sliding pivot point optimizes center beam, ensuring unclipped beam of 15° at 13° tilt and 25° at 8° tilt.

B RETENTION

Integrated metal arm clamps located within fixture body allow discreet flange design, while accommodating varying ceiling thicknesses from 6mm to 54mm. Snap-on spacer clips (2X) supplied for ceiling thickness below 13 mm only.

C OPTIC

Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering wallwash, 10°, 15°, 25°, 35°, & 50° beams.

D 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%.

E 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

F MICROFLANGE PROFILE

Provides industry standard 11mm total contractor (goof) allowance with 7mm flange. Thickness measures 1.5mm. IP64 Wet location features integral silicone gasket.

G 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.

H EFFECTS DEVICES / LENS RETAINER

Fixture is limited to 1 effects device installed on the baffle, see Section D 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.

I ROUND / SQUARE BAFFLE

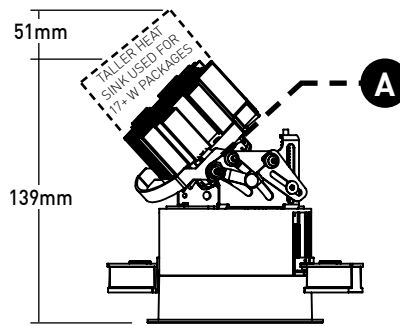
Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 60° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

SQUARE TRANSITIONAL BAFFLE

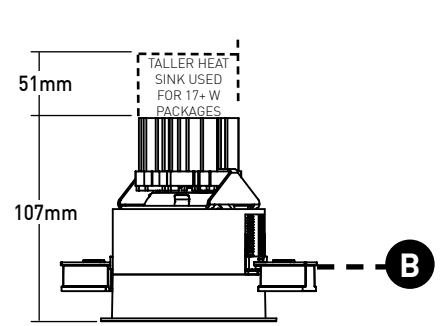
Transitions from square aperture at ceiling to round aperture at light source. Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 60° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

DIMENSIONS / DRAWINGS

ADJUSTABLE DEEP REGRESS



FIXED DEEP REGRESS



C



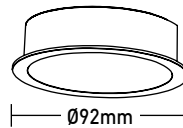
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E



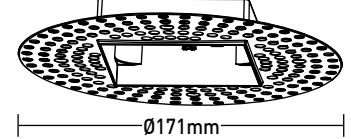
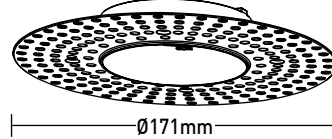
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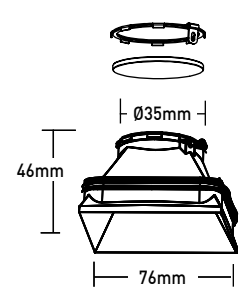
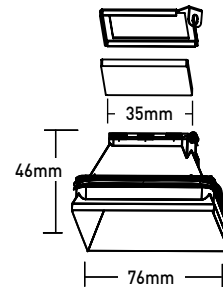
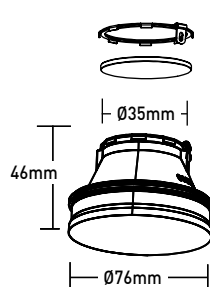
ROUND

SQUARE

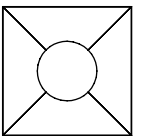
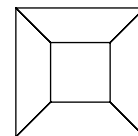
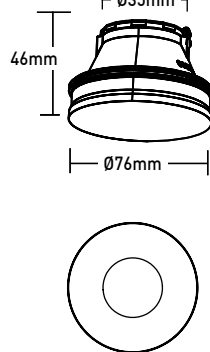
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H



I



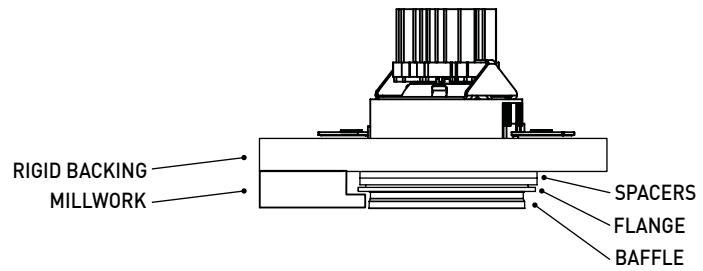
FRAXION3 INTERNATIONAL DEEP REGRESS

DOWNLIGHT FITTING

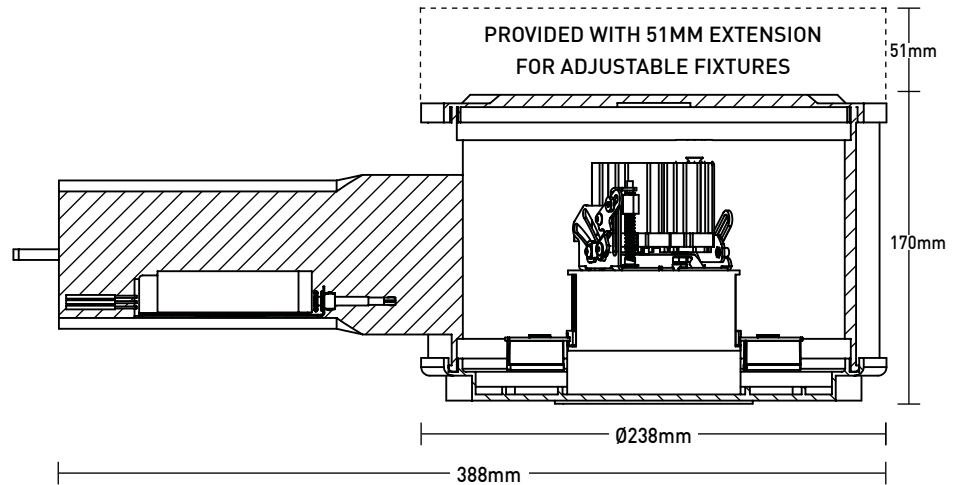
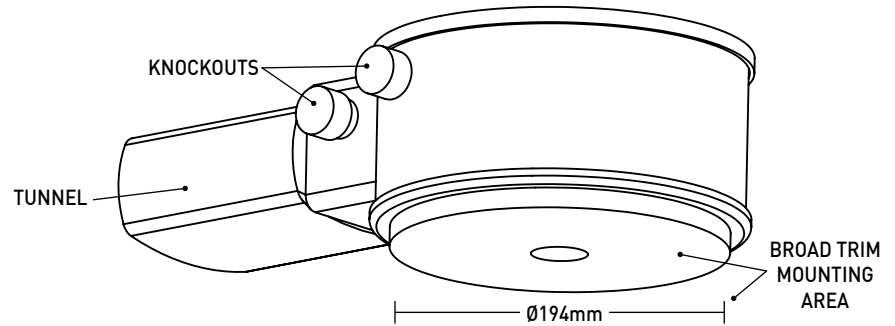
- J TRIMLESS MILLWORK PROFILE / SPACERS**
No visible flange, installs totally flush with millwork. Requires rigid backing for installation. Includes (1) 1.5mm spacer and (5) 3mm spacers.
- K CONCRETE POUR HOUSING / PROFILE**
- Provided with install types "KC and KR".
 - Ships separate from downlight 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.

DIMENSIONS / DRAWINGS

J

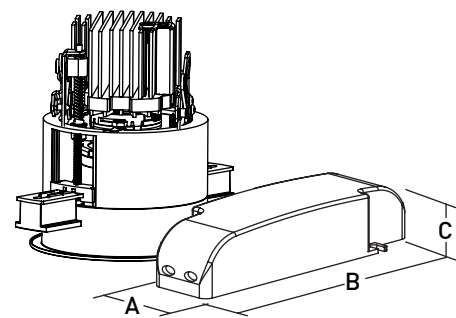


K



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

FRAXION3 INTERNATIONAL DEEP 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'

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.

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

