

DEEP REGRESS

- Max output of 3459lm at 80+ CRI
- Deep regress baffle options in round and square featuring UGR as low as 10
- Integral drivers for tunable white with our 2 ranges, 1800K to 4000K and 2700K to 5000K
- Concrete Pour applications now available. See separate spec sheet

PROJECT NAME:	TYPE:
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ORDERING INFORMATION - FIXTURE

[illegible]

Declare.

FRAXION4 SLIM DEEP REGRESS

ACCESSORIES

ROUND / SQUARE TRANSITIONAL ALTERNATE MEDIA

Dry/Damp location only.
Wet location requires alternate baffle.

- ☐ **CGL-F4RD** Clear Glass Lens*
*(Not available for Warm Dim)
- ☐ **FGL-F4RD** Frosted Glass Lens
- ☐ **SFL-F4RD** Soft Focus Lens
- ☐ **FSFL-F4RD** Frosted Soft Focus Lens
- ☐ **WDL-F4RD** Wide Distribution Lens*
*(Required and only available for 85° beam spread)
- ☐ **FLSL-F4RD** Frosted Linear Spread Lens

SQUARE ALTERNATE MEDIA

Dry/Damp location only.
Wet location requires alternate baffle.

- ☐ **CGL-F4SD** Clear Glass Lens*
*(Not available for Warm Dim)
- ☐ **FGL-F4SD** Frosted Glass Lens
- ☐ **SFL-F4SD** Soft Focus Lens
- ☐ **FSFL-F4SD** Frosted Soft Focus Lens
- ☐ **WDL-F4SD** Wide Distribution Lens*
*(Required and only available for 85° beam spread)
- ☐ **FLSL-F4SD** Frosted Linear Spread Lens

ADJUSTABLE HCL ASSEMBLY

Dry / Damp location only.

- ☐ **OLR-F4RD1-SFL-HCL** Adjustable Honeycomb Louver and Soft Focus Lens*
*(Not available for IP64 Wet Location, 21W or 22W, Fixed Fixtures, or Warm Dim)

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	TYPE	RATING	FINISH	MEDIA
RBA		AF			
REPLACEMENT BAFFLE ASSEMBLY	F4RD Round Deep Regress F4SD Square Deep Regress F4TD Square Transitional Deep Regress	AF Adjustable / Fixed	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)	04 Soft Focus Lens* *(Required for 10° optic) 01 Honeycomb Louver* *(Not available for IP64 Wet Location, adjustable fixtures, or Warm Dim) 02 Clear Glass Lens* *(Not available for Warm Dim) 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) NL No Lens* *(Not available for IP64 Wet Location or Warm Dim)

REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

STATIC WHITE

- ☐ **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

WARM DIM

- ☐ **RO-50-20-W** 20° optic
- ☐ **RO-50-25-W** 25° optic
- ☐ **RO-50-40-W** 40° optic
- ☐ **RO-50-60-W** 60° optic

TUNABLE WHITE

- ☐ **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

T-GRID ACCESSORY KIT

Supplied with ceiling thickness "T" and recommended for installations in T-Grid up to 1.5" tall. Available for ceiling thicknesses from 0.50" - 2.125".

- ☐ **DHA-TG-KIT**

FURRING CHANNEL ACCESSORY KIT

Recommended for installations in furring channel. Available for ceiling thicknesses from 0.50" - 2.125".

- ☐ **DHA-FC-KIT**

HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum.

- ☐ **FRX-HBE-46** Extender, Hanger Bar

REPLACEMENT SUCTION TOOL

One included with every six fixtures designated Wet location.

- ☐ **F4-TOOL-SUCTION** Allows for removal of baffle with Wet location

EMERGENCY LIGHTING - REMOTE MOUNT ONLY

During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.

- ☐ **EMB-S-25-120/277-LEDX** 25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable
- ☐ **EMB-S-100-120-LEDX** 100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable
- ☐ **EMB-S-100-277-LEDX** 100 watt max capacity, 277 VAC 60Hz, 0-10V Dimmable
- ☐ **EMB-S-250-120/277-LEDX** 250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable

NOTE: SHUNT REQUIRED FOR USE WITH ATHENA AND CASAMBI CONTROLS, CONSULT FACTORY FOR DETAILS.

FRAXION4SLIM DEEP REGRESS

PACKAGE	WATTS	10° OPTIC NO LENS		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	
		DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW
80S11A	11	-	-	999	91	1129	103	1189	108	1037	94	1209	110	992	90
80S15A / C	15	540	36	1346	90	1519	101	1478	99	1342	89	1610	107	1336	89
80S21A	21	-	-	1864	89	2036	97	1997	95	1814	86	2175	104	1818	87
80S30B	30	-	-	2449	82	2792	93	2690	90	2428	81	2950	98	2495	83
80S36B	36	-	-	2888	80	3289	91	3179	88	2863	80	3459	96	2940	82
90S11A	11	-	-	858	78	970	88	1021	93	891	81	1038	94	852	77
90S15A / C	15	465	31	1156	77	1305	87	1270	85	1153	77	1383	92	1148	77
90S21A	21	-	-	1601	76	1749	83	1716	82	1558	74	1869	89	1562	74
90S30B	30	-	-	2104	70	2399	80	2311	77	2086	70	2534	84	2143	71
90S36B	36	-	-	2481	69	2826	78	2731	76	2459	68	2972	83	2526	70
97S11A	11	-	-	754	69	851	77	897	82	72	71	912	83	748	68
97S15A / C	15	401	26	1015	68	1146	76	1115	74	1012	67	1214	81	1008	67
97S21A	21	-	-	146	67	1536	73	1507	72	1368	65	1641	78	1371	65
97S30B	30	-	-	1847	62	2106	70	2029	68	1832	61	2225	74	1882	63
97S36B	36	-	-	2178	61	2481	69	2398	67	2159	60	2609	72	2218	62
90W15A (WL 27K-18K)	15	-	-	-	-	994	66	937	62	833	56	1022	68	878	59
90W15A (WD 30K-18K)	15	-	-	-	-	995	66	938	63	838	56	1031	69	885	59
90T15B (40K-18K)	15	-	-	1082	72	1140	76	1097	73	991	66	1209	81	999	67
90T15B (50K-27K)	15	-	-	1072	71	1130	75	1087	72	982	65	1198	80	990	66
90T22B (40K-18K)	22	-	-	1497	68	1576	72	1504	68	1374	62	1696	77	1394	63
90T22B (50K-27K)	22	-	-	1483	67	1561	71	1491	68	1362	62	1680	76	1381	63

MAX UNIFIED GLARE RATING

10° OPTIC NO LENS	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
<10	<16	<10	<10	<13	<13	>19

*UGR VALUES REFLECT WHITE BAFFLE AND 36 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

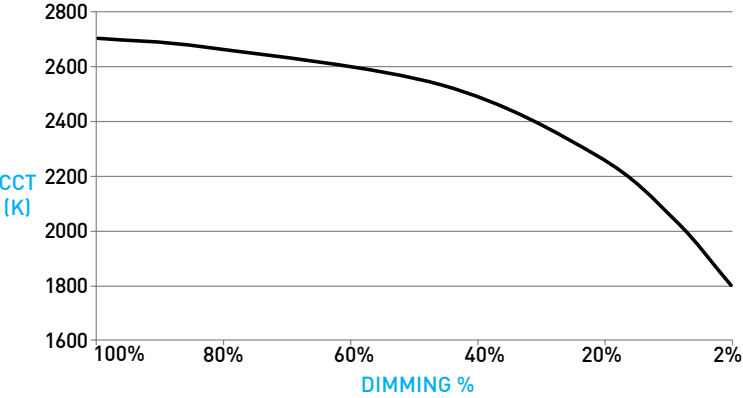
MEDIA	LIGHT LOSS FACTOR
NO LENS	1.06
CGL	1.00
SFL	1.00
FGL	0.89
FSFL	0.81
FLSL	0.82
HCL	0.73

FRAXION4 SLIM DEEP REGRESS

WARM DIM PERFORMANCE - 60° OPTIC - SOFT FOCUS LENS

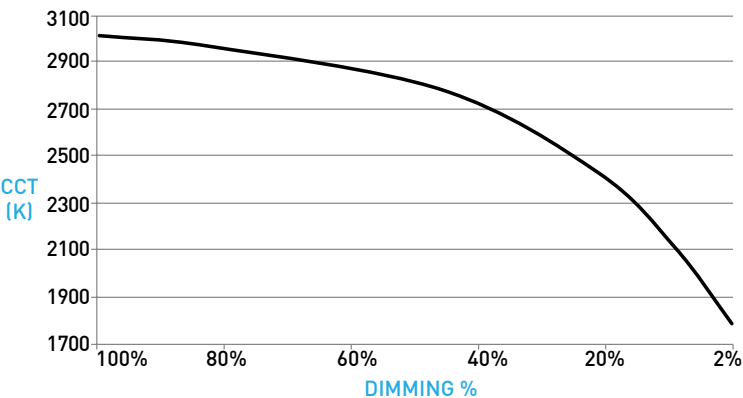
INCANDESCENT DIMMING PROFILE

WL 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	2620	2520	2180	1950	1800
Light Output (Lm)	1022	817	715	511	204	102	20
Power (W)	15	12	10.5	7.5	3	1.5	.3
Efficacy (LPW)	68	68	68	68	68	68	68



HALOGEN WARM DIM PROFILE

WD 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)	1031	824	721	515	206	103	20
Power (W)	15	12	10.5	7.5	3	1.5	.3
Efficacy (LPW)	69	69	69	69	69	69	69



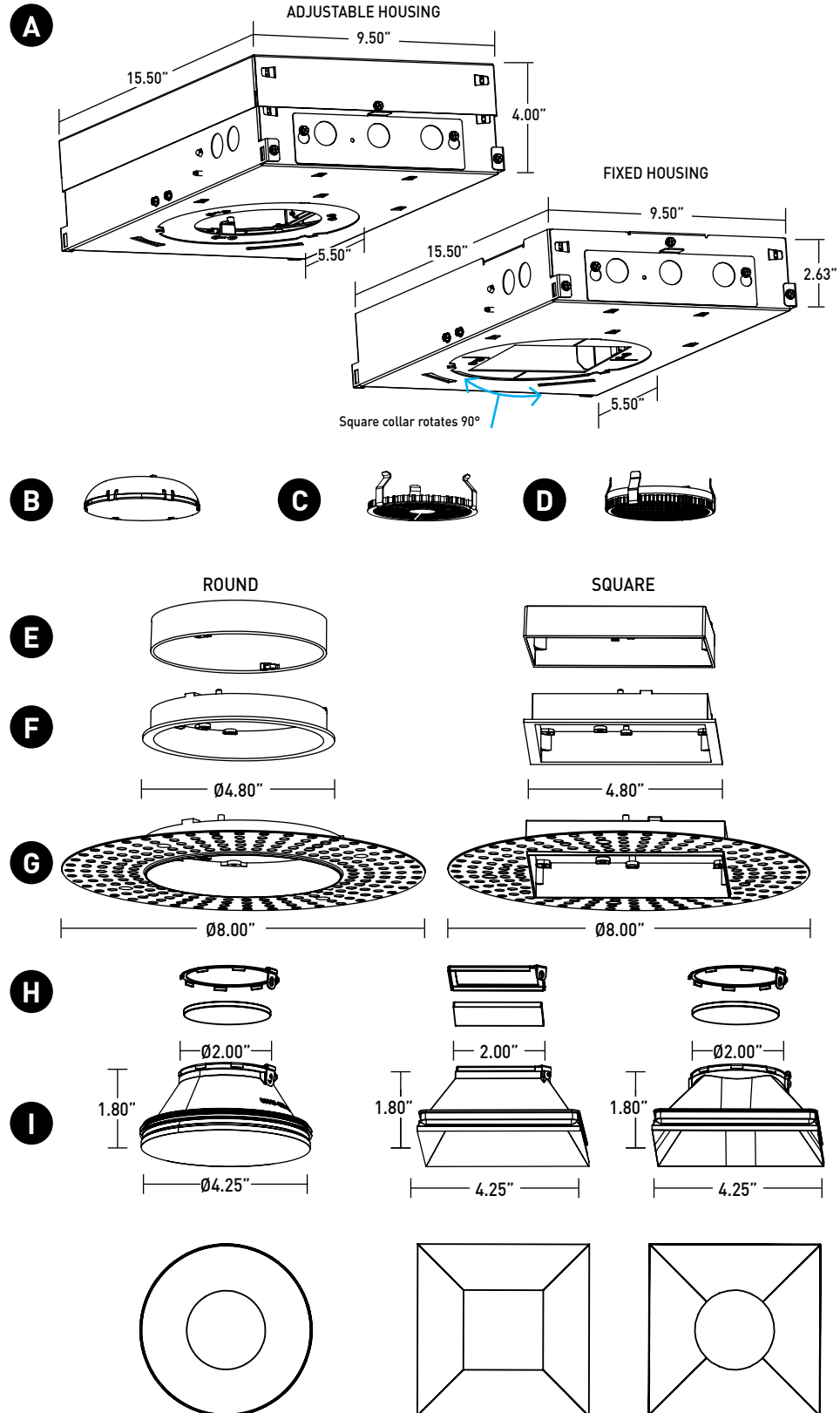
NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

FRAXION4 SLIM DEEP REGRESS

DOWNLIGHT / HOUSING

- A DOWNLIGHT / HOUSING**
Integral LED module design enables field service / replacement through housing aperture.
 - B OPTIC**
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.
 - C 10° FIELD REDUCER**
Provided with 10° optic, includes honeycomb louver. Reduces field angle by 30%.
 - D 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
 - E TRIM EXTENSION**
Provided for -2 ceiling thickness; accommodates 2.125" max ceiling thickness.
 - F 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.
 - 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.

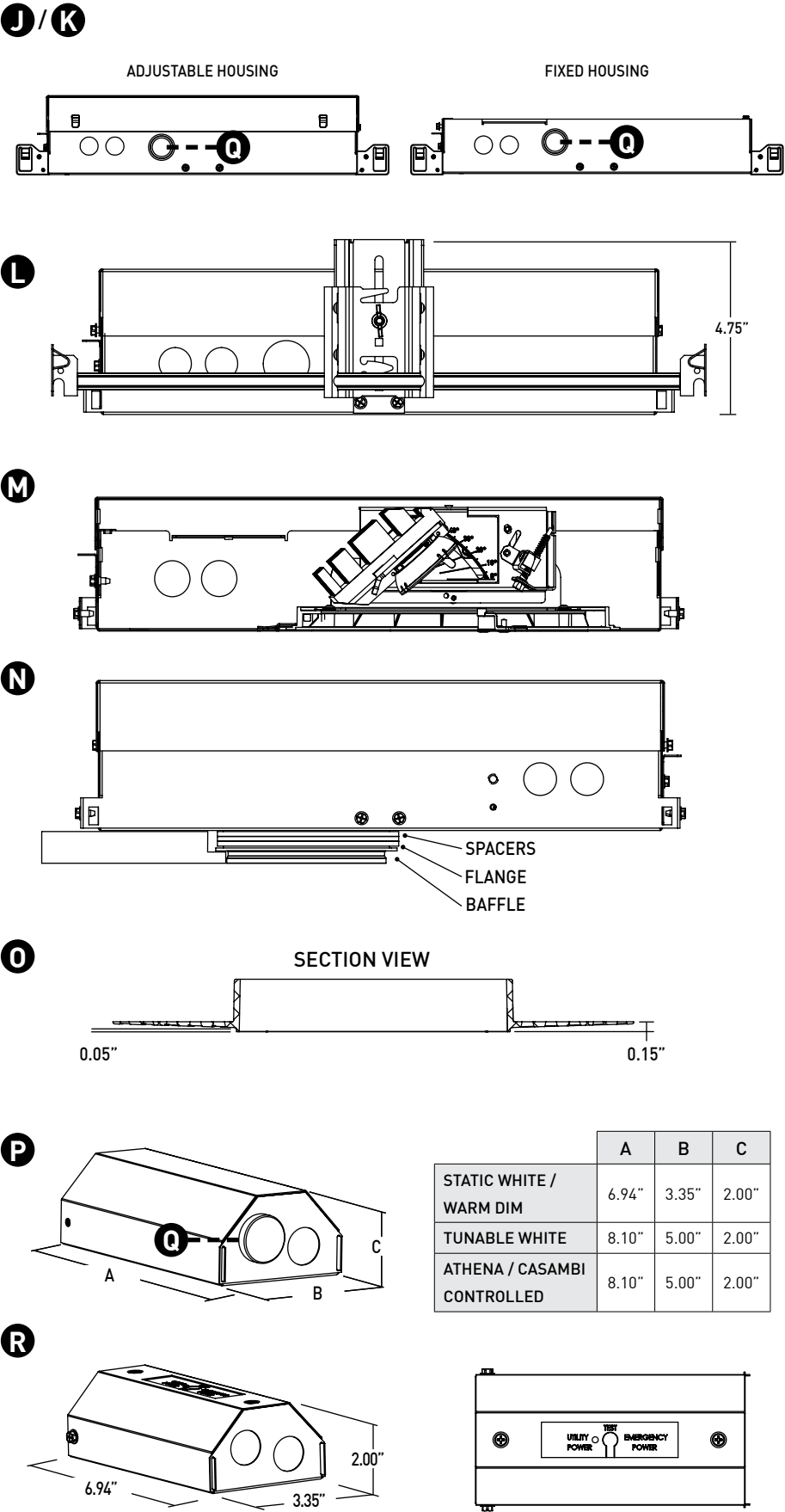
DIMENSIONS / DRAWINGS



FRAXION4 SLIM DEEP REGRESS

DOWNLIGHT / HOUSING

- J IC HOUSING**
- For IC ceilings.
 - No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.
- K NIC HOUSING**
- Minimum 0.50" setback from combustible and non-combustible materials on all sides and top of housing.
 - Minimum 3.00" setback from insulation material having max R-Value 30 on all sides and top of housing.
 - Minimum 6.00" setback from polycell spray foam insulation having max R-Value 60.
- L ADJUSTABLE HANGER BAR HEIGHT ACCESSORY**
Provided with ceiling thickness "T" and recommended for installations in T-Grid up to 1.5" tall. Hanger bars are installed to adjustable bracket. Allows housing to be raised and lowered; ceiling thickness remains 0.5" to 2.125" max.
- M ADJUSTABILITY**
Aiming mechanism is integral to the housing, providing hot-aim tilt up to 40° with Philips screwdriver and 365° rotation with toolless locking tab. Sliding pivot point optimizes center beam, ensuring unclipped beam of 15° at 40° tilt and 25° at 30° tilt. 1° tilt increments with 5° indicators, tilt guide included.
- N TRIMLESS MILLWORK PROFILE / SPACERS**
No visible flange, installs totally flush with millwork. Includes (1) 1/16" spacer and (5) 1/8" spacers.
- O APPLIQUÉ DETAIL**
Appliqué for plaster floating directly to baffle. Provided with 1/16" plaster stop.
- P REMOTE POWER SUPPLY**
Provided with install Types "IR", "NR", "AR", and "CR". Remote power supply provides additional driver options. See page 7 for maximum allowable secondary run lengths between remote driver and fixture. Must be installed in an accessible location.
- Q ATHENA / CASAMBI CONTROL**
Controls integrated into housing or remote driver assembly. All equipment is serviceable.
- R ATHENA / CASAMBI EM SHUNT**
Included with drivers specified as ASR, ADR, CSR, or CDR. One required for each wireless EM fixture, requires class 2 control wiring between fixture and shunt. Features integrated test switch.
- Model Number: PS-RMT-SHUNT



FRAXION4 SLIM DEEP REGRESS

TECHNICAL

CONSTRUCTION

Downlight: Painted finishes are granulated powder coat.
Housing: Aluminum and 22 Gauge galvanized steel. Extruded aluminum housing panel to act as heat-sink.
Remote Power Supply: 22 Gauge galvanized steel.
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						ECO	DALI-2		ATHENA		CASAMBI	
Power Supply	PH1	SG3	SN3	EG1	EN1	DG1	DN1	LP1	ED1	DD1	AS1	AD1	CS1	CD1
Minimum °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	0 °C	-20 °C	-20 °C	0 °C	0 °C	-20 °C	-20 °C
Maximum °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Dimming %	2.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For PH1, LP1, EG1 and EN1 drivers consult chart on page 8 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'
LP1	60'	40'	25'	15'	-
EG1, EN1, ED1, DG1, DN1, DD2, AS1, AD1, CS1, CD1	-	-	118'	72'	46'

LISTING

UL listed to UL1598 standard for Dry / Damp and Wet locations. CCEA, Airtight and Title 24 JA8-2022 Listed.
NEMA 410 Compliant.
U.S. Patent: 10,317,066

BUY AMERICAN ACT

All Fraxion4 SLIM configurations are Buy American Act compliant.

DECLARE

LBC Red List Approved.

WEIGHT

Fixture - 7.5 lbs max
Remote Driver - 1.4 lbs

HOUSING NOTES

- Do not install housings in environments where ambient temperatures exceed 40°C (104°F).
- Power supply compartment and all splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars fitted to short side of housing or long side when TG accessory is specified; extend from 14.0" to 24.0", but may be field cut to accommodate narrow stud spacing. Can be extended up to 46" maximum with FRX-HBE-46 kit.
- Hanger bars and brackets add 4.00" max to the overall dimension, but are exclusive of the setback requirements.
- Housings for round trims feature a round aperture housing collar. Housings for square trims feature a square housing collar that rotates up to 90 degrees for fixture alignment. Housing collars accommodate ceiling thicknesses between 0.50" and 2.125".

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.](#)



FRAXION4 SLIM DEEP 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

LUTRON DRIVER COMPATIBILITY

Power supply LP1 Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-EC032-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit	QSN-2ECO-S
Homeworks QS control unit	QSGRJ- E (wireless) QSGR- _E
Quantum Hub	QP2- _ _ 2C
Quantum Hub	QP2- _ _ 4C
Quantum Hub	QP2- _ _ 6C
Quantum Hub	QP2- _ _ 8C
Homeworks QS power module	LQSE-2ECO-D
myRoom Plus power module	



elDoLED DRIVER COMPATIBILITY

Power supply EG1 / SG3 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 EN1 / SN3 Manufacturer	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	nIO EZ
ABB	SD/S 2.16.1

ANALOG DRIVERS AND DIMMERS

