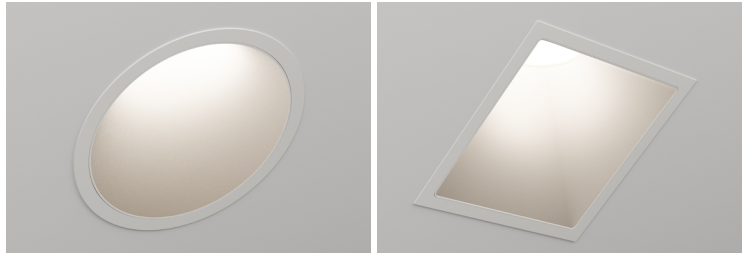


FRAXION® SLOPED LVS

FIXED DOWNLIGHT

One of our most versatile and flexible fixtures is now available for sloped ceilings, allowing designers to use a single style of fixture across a wider array of spaces.

PROJECT NAME:	TYPE:
---------------	-------



ORDERING INFORMATION - DOWNLIGHT / HOUSING

SLOPE RANGE	SHAPE	TRIM	RATING	FLANGE FINISH	BAFFLE FINISH	CRI/WATTAGE PACKAGE	CCT	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	DRIVER	MEDIA	
											LVS		
FS1 15° - 30° (3/12 - 7/12) Slope 1	R Round	M Microflange	1 Dry/Damp	WH White	WH White	STATIC WHITE 80S11A 80+ CRI, 11 Watts Lumens Delivered - 1041 80S15A 80+ CRI, 15 Watts Lumens Delivered - 1413 80S21A 80+ CRI, 21 Watts Lumens Delivered - 1918 90S11A 90+ CRI, 11 Watts Lumens Delivered - 894 90S15A 90+ CRI, 15 Watts Lumens Delivered - 1214 90S21A 90+ CRI, 21 Watts Lumens Delivered - 1648 97S11A 97+ CRI, 11 Watts Lumens Delivered - 785 97S15A 97+ CRI, 15 Watts Lumens Delivered - 1066 97S21A 97+ CRI, 21 Watts Lumens Delivered - 1447	24 2400K* *90+ CRI only) 27 2700K 30 3000K 35 3500K 40 4000K	15 15° (<19) 20 20° (<13) 25 25° (<13) 40 40° (<19) 60 60° (<19)	REMOTE V IC / Non-IC Remote D IC Airtight, Remote* *(CCEA & Airtight compliant housing)	1 0.5" - 1.375" 2 1.375" - 2.0" 3 2.0" - 2.25"	LVS Low Voltage System	STANDARD MEDIA	
	S Square	T Trimless	2 Wet	AG Satin Silver	AG Satin Silver							00 Trimless* *(Required for trimless) CF Custom Finish* *(Consult Factory)	
FS2 30° - 45° (7/12 - 12/12) Slope 2		W Trimless Wood* *(Not available for Wet location)		AU Cashmere Gold	AU Cashmere Gold	WARM DIM 90W15A 90+ CRI, 15 Watts Incandescent Profile: 2700K - 1800K Lumens Delivered - 884 Halogen Profile: 3000K - 1800K Lumens Delivered - 920 SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON. LUMENS DELIVERED REFLECT 3000K, 60° OPTIC, SOFT FOCUS LENS, AND 5/12 CEILING PITCH.	WL 2700K - 1800K WD 3000K - 1800K	20 20° (<13) 25 25° (<13) 40 40° (<13) 60 60° (<16)	85 85° (>19) *(Requires -14 WDL media)				ALTERNATE MEDIA 03 Clear Glass Lens* *(Not available for Warm Dim) 05 Frosted Glass Lens 08 Frosted Soft Focus Lens 14 Wide Distribution Lens* *(Required and only available for 85° beam spread) 26 Frosted Linear Spread Lens 28 Adjustable Honeycomb Louver and Soft Focus Lens* *(Not available with wet location, or Airtight Housings)
					BB Burnt Bronze	BB Burnt Bronze							
				BK Black	BK Black								
				PR Primer	PR Primer								



PART NUMBER NOTES




- Housing and trim ship as e.g., FS1RM1-WHBK-90C14A2-3V1-LVS04

FRACTION SLOPED LVS FIXED DOWNLIGHT

APPLICATION NOTES

- Lucifer Lighting will not supply a fixture with a POE node or power supply inside the fixture. This allows for easier site install with nodes of 2 or more outputs.
- Consult node manufacturer for maximum remote wiring distances.
- Housing and Fixture feature 18 Gauge wiring.
- Wiring connections are made in the splicing compartment or on the fixture using customer supplied connectors, ex. wire nuts, push-in connectors, or terminal blocks.
- Confirm node compatibility with factory if it is not listed.
- Customers are responsible for ensuring POE node drive current is set to correct values shown below.
- Customers must ensure voltage range of the proposed POE node encompasses the fixtures complete Vf range, both maximum and minimum. If assistance is required contact LLC rep or factory.

NODE COMPATIBILITY

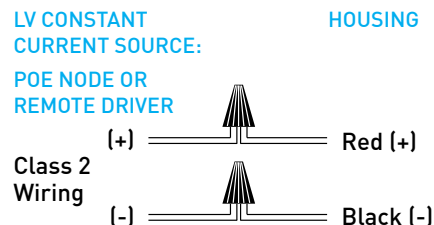
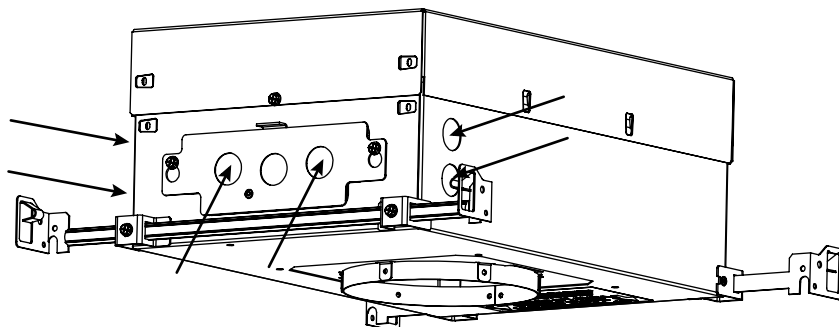
Manufacturer	Model Number
 Igor® Enabling Smart Buildings™	NP50-60-C-F-5
 molex	180996-5107 180996-5101 180996-5102
 PLATFORMATICS	1 Channel Node, POE-LN2-1U-E 2 Channel Node, POE-LN2-2U-E 4 Channel Node, POE-LN2-4U-E

DRIVE CURRENT SPECIFICS

	80S			90S			97S			90W
	11A	15A	21A	11A	15A	21A	11A	15A	21A	15A
Minimum Vf	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Maximum Vf	39	39	39	39	39	39	39	39	39	39
Current mA	250	350	500	250	350	500	250	350	500	350
Wattage W	8.2	11.8	17.4	8.2	11.8	17.4	8.2	11.8	17.4	11.8

WIRING DIAGRAM AND HOUSING ENTRY/ EXIT POINTS

HOUSING



FRACTION SLOPED LVS FIXED DOWNLIGHT

ACCESSORIES

ALTERNATE MEDIA

Dry / Damp location only.

- CGL-F3R** Clear Glass Lens*
*(Not available for Warm Dim)
- FGL-F3R** Frosted Glass Lens
- SFL-F3R** Soft Focus Lens
- FSFL-F3R** Frosted Soft Focus Lens
- WDL-F3R** Wide Distribution Lens*
*(Only available for 85° beam spread)
- FLSL-F3R** 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 Wet location or Airtight housings)

REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

Static White

Warm Dim

- | | |
|--|--|
| <input type="checkbox"/> RO-50-15-S 15° optic | <input type="checkbox"/> RO-50-20-W 20° optic |
| <input type="checkbox"/> RO-50-20-S 20° optic | <input type="checkbox"/> RO-50-25-W 25° optic |
| <input type="checkbox"/> RO-50-25-S 25° optic | <input type="checkbox"/> RO-50-40-W 40° optic |
| <input type="checkbox"/> RO-50-40-S 40° optic | <input type="checkbox"/> RO-50-60-W 60° optic |
| <input type="checkbox"/> RO-50-60-S 60° optic | |

HANGER BAR EXTENDER KIT

Extends hanger bars from 24.0" to 46.0" maximum.

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

FURRING CHANNEL ACCESSORY KIT

Recommended for installations in furring channel. Available for ceiling thicknesses from 0.5" - 2.25".

- DHA-FC-KIT**

FRACTION SLOPED LVS FIXED DOWNLIGHT

PERFORMANCE - 3000K

LUMEN PACKAGE	WATTAGE	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 LENS	
		DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80S11A	11	939	85	989	90	1077	98	1036	94	1041	95	941	86
80S15A	15	1269	85	1332	89	1369	91	1332	89	1413	94	1413	94
80S21A	21	1718	82	1793	85	1851	88	1798	86	1918	91	1702	81
90S11A	11	807	73	850	77	925	84	890	81	894	81	808	73
90S15A	15	1090	73	1144	76	1176	78	1144	76	1214	81	1077	72
90S21A	21	1476	70	1540	73	1590	76	1545	74	1648	78	1462	70
97S11A	11	709	64	746	68	812	74	781	71	785	71	709	64
97S15A	15	957	64	1004	67	1033	69	1004	67	1066	71	946	63
97S21A	21	1296	62	1352	64	1396	66	1356	65	1447	69	1284	61
90W15A (WL 27K-18K)	15	-	-	911	61	875	58	753	50	884	59	748	50
90W15B (WD 30K-18K)	15	-	-	889	59	886	59	961	64	920	61	758	51

*Performance reflects 5/12 ceiling pitch and 0.5" ceiling thickness. Consult factory for additional performance information.

OUTPUT MULTIPLIER

CCT	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.00
3500K	1.03
4000K	1.08

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

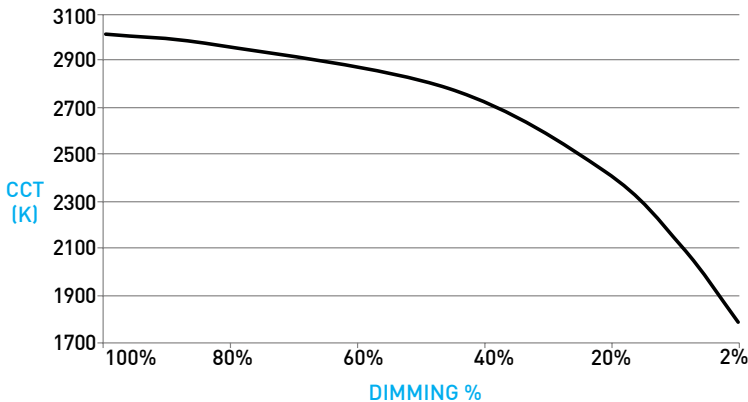
UNIFIED GLARE RATING

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 LENS
<19	<19	<13	<13	<19	<19	>19

WARM DIM PERFORMANCE - 60° OPTIC - SOFT FOCUS LENS

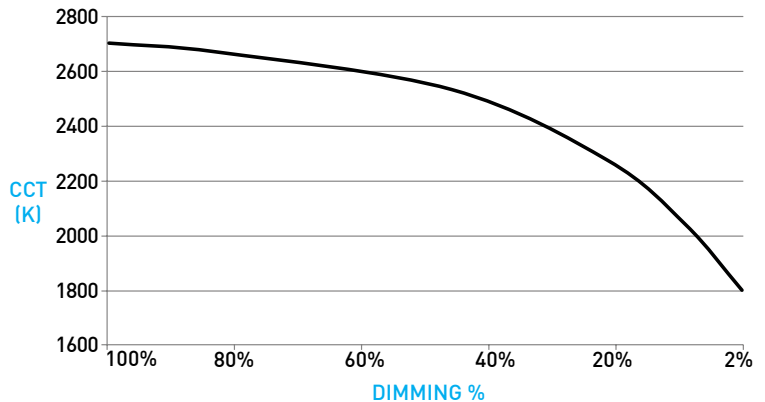
INCANDESCENT DIMMING PROFILE

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	2620	2520	2180	1950	1800
Light Output (Lm)	884	707	619	442	177	88.4	18
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	59	59	59	59	59	59	60



HALOGEN DIMMING PROFILE

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)	920	736	644	460	184	92	18.4
Power (W)	15	12	10.5	7.5	3	1.5	0.3
Efficacy (LPW)	61	61	61	61	61	61	61

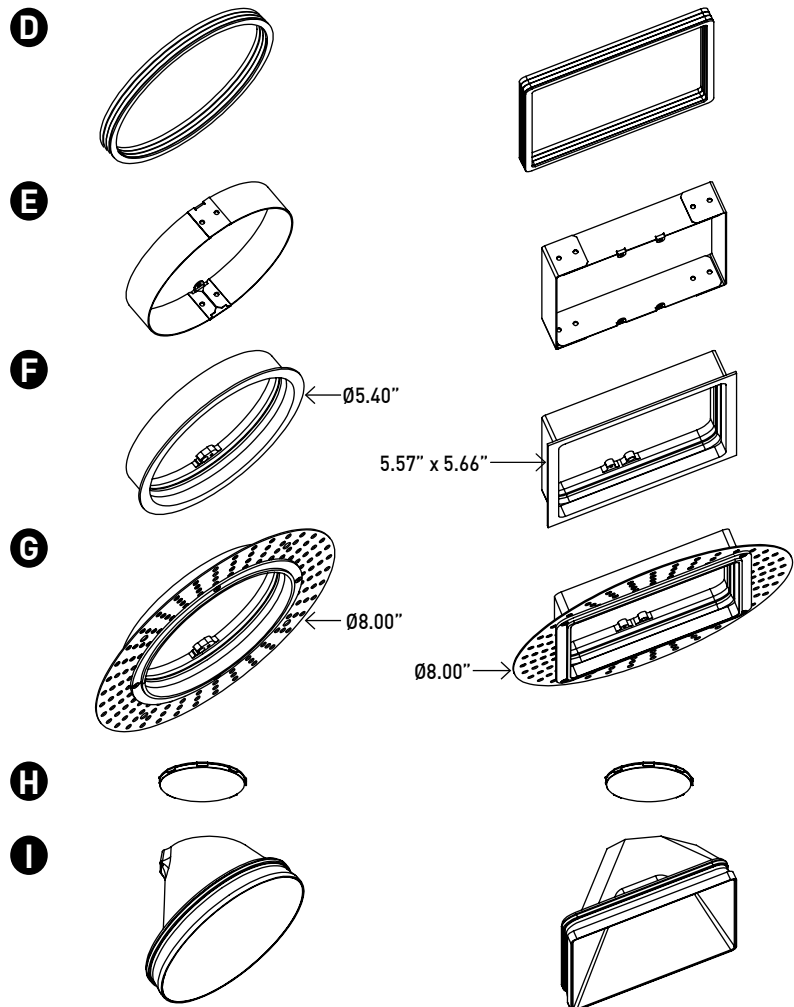
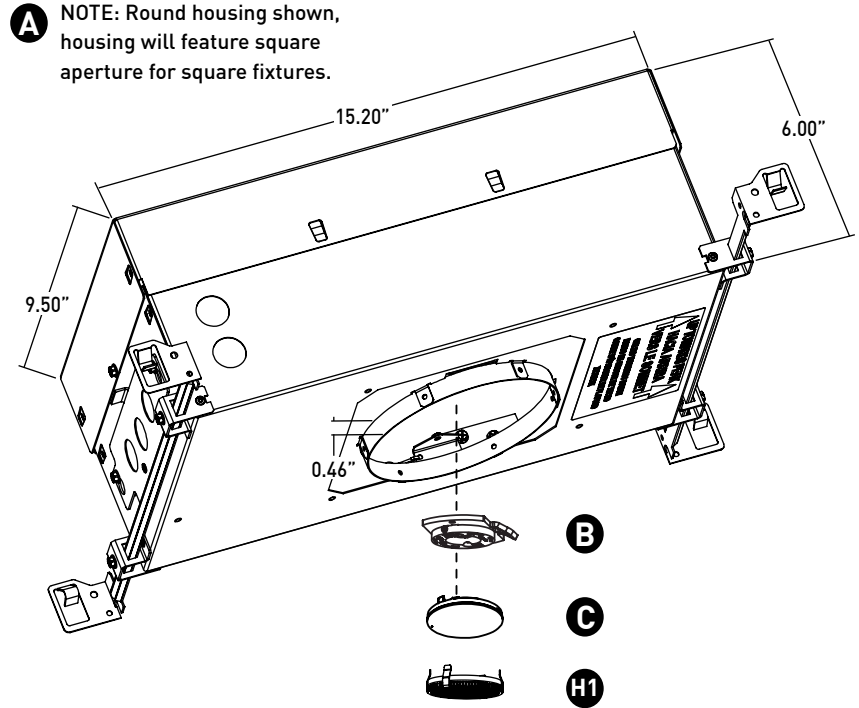


FRAXION SLOPED LVS FIXED DOWNLIGHT

DOWNLIGHT / HOUSING

- A PITCH ADJUSTMENT**
Tilting mechanism is integral to the housing, provides lockable tilt for 3/12 (15°) - 12/12 (45°) slope ranges. Ships in 12/12 (45°) position (see **J** tilt guide).
 - B LED**
Integral LED module design enables field service / replacement through housing aperture.
 - C OPTIC**
Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.
 - D TRIMLESS WOOD SPACERS**
Provided for Trimless Wood installations; includes (1) 1/16" spacer and (5) 1/8" spacers.
 - E TRIM EXTENSIONS**
Provided for -2 and -3 ceiling thickness; accommodate 2.25" max ceiling thickness.
 - F MICROFLANGE PROFILE**
Features 0.30" flange. Thickness measures 0.06". Installed after ceiling is complete. Round requires 5.4" diameter cutout, and square requires 5.57" x 5.66" cutout. Wet location features integral silicone gasket.
 - G TRIMLESS DRYWALL PROFILE**
Installs totally flush with the ceiling with no visible trim. Appliqué has 0.07" plaster stop. Not recommended for stucco applications.
 - H MEDIA / LENS RETAINER**
Fixture is limited to 1 media, Soft Focus Lens standard. Lens retainer allows media to be changed in Dry /Damp and Wet locations.
 - H1 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 -28 Media.
 - I ROUND BAFFLE**
Removable baffle provides easy access to tilting mechanism. Minimizes aperture glare and conceals view into housing; includes gasket. Available in two slope ranges 3/12 - 7/12 (15° - 30°) **K** and 7/12 - 12/12 (30° - 45°) **M**.
- SQUARE TRANSITIONAL BAFFLE**
Removable baffle provides easy access to tilting mechanism. Transitions from square aperture at ceiling plane to round aperture at light source. Minimizes aperture glare and conceals view into housing; includes gasket. Available in two slope ranges 3/12 - 7/12 (15° - 30°) **L** and 7/12 - 12/12 (30° - 45°) **N**.

DIMENSIONS / DRAWINGS



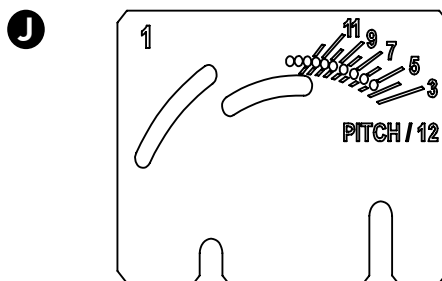
FRAXION SLOPED LVS FIXED DOWNLIGHT

TILT / BAFFLE

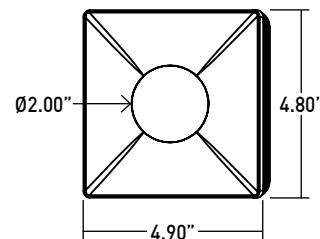
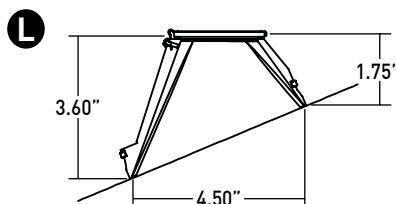
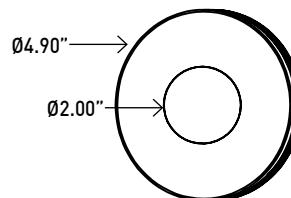
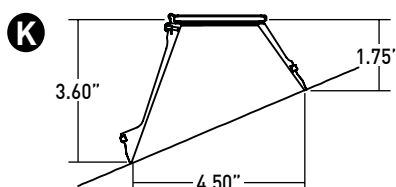
TILT GUIDE

Displays tilt indicators to adjust trim to ceiling pitch.

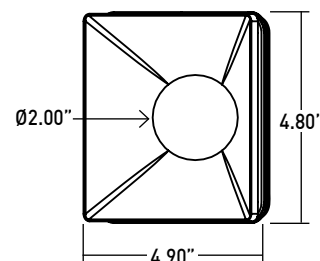
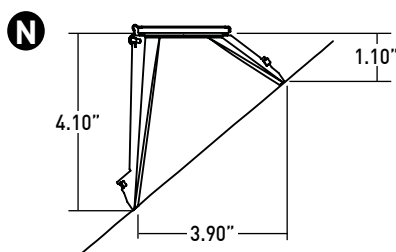
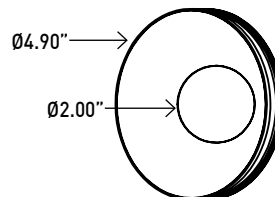
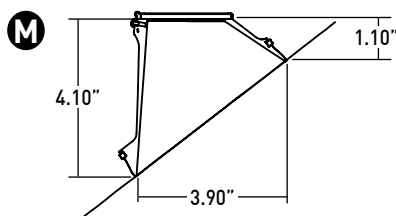
DIMENSIONS / DRAWINGS



SLOPE 1 BAFFLE: 3/12 - 7/12 (15° - 30°) SLOPE RANGES



SLOPE 2 BAFFLE: 7/12 - 12/12 (30° - 45°) SLOPE RANGES



FRACTION SLOPED LVS FIXED DOWNLIGHT

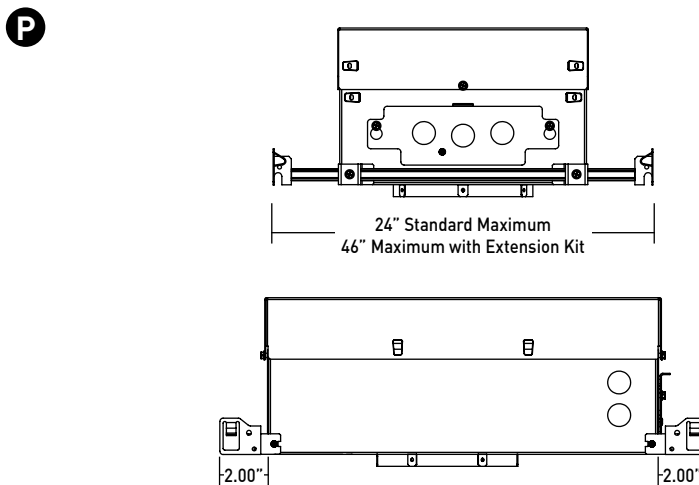
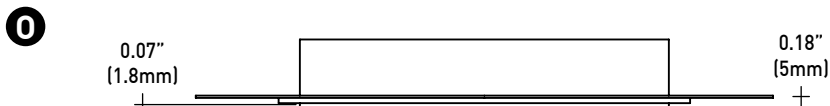
DOWNLIGHT / HOUSING

- O** TRIMLESS APPLIQUÉ DETAIL
Integrated appliqué for plaster floating directly to baffle.
- P** IC / NON-IC HOUSING
 - For IC or Non-IC ceilings.
 - CCEA, Airtight and Title 24 (JA8) listed.
 - Accommodates max 1650 Lumens Delivered.
 - No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

HOUSING NOTES

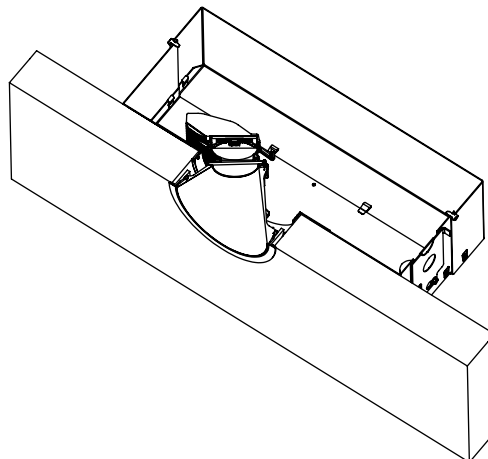
- Do not install in environments where ambient temperatures exceed 40°C (104°F).
- Splice connections may be serviced from room side.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Hanger bars fitted to short side of housing; extend from 14.0" to 24.0", but may 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" to the overall dimension, but are exclusive of the setback requirements.
- Housings for round trims feature a round aperture housing collar, and for square trims, a square housing collar, accommodating ceiling thicknesses between 0.50" and 2.25".

DIMENSIONS / DRAWINGS



CEILING THICKNESS RANGES

- 1 0.5" - 1.375"
- 2 1.375" - 2.0"
- 3 2.0" - 2.25"



FRAXION SLOPED LVS FIXED DOWNLIGHT

TECHNICAL

CONSTRUCTION

Downlight: Painted finishes are granulated powder coat.

Housing: Aluminum and 22 Gauge galvanized steel.

Appliqué: Aluminum and 22 Gauge galvanized steel.

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.

LISTING

cTUVus listed to UL2108 standard for Dry / Damp and Wet locations. CCEA and Airtight listed.

WEIGHT

Fixture - 9 lbs max

Remote Driver - 1.4 lbs

LIMITED WARRANTY

Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. 5-year warranty on LED to operate with 70% of the original flux and remain within a range of 3 duv. Warranty period begins from the date of shipment by Seller. Consult [website](#) for full warranty terms and conditions.

CHANGE LOG

1. 10/17/2022: REMOVED 90W13A 3200K-1800K WARM DIM AND ADDED 90W12A 3000K-1800K WARM DIM.

2. 08/08/2023: ADDED NEW LED AND OPTIC SYSTEM.

3. 02/08/2024: ADDED 2400K.