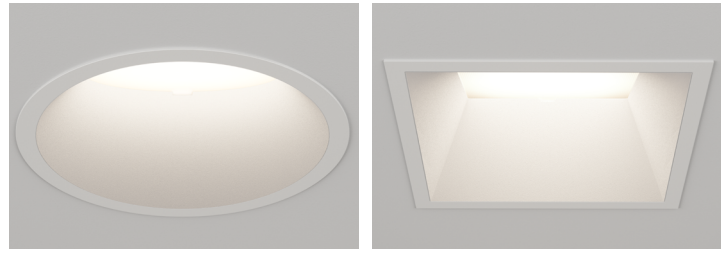




# FRAXION® 4 HIGH FLUX LVS WALLWASH

Very versatile, and highly configurable, these 4-inch downlights are the widest aperture we offer, ideal for overall illumination in residential and commercial spaces.

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



## ORDERING INFORMATION - DOWNLIGHT / HOUSING

SHAPE	TRIM	RATING	FLANGE FINISH	BAFFLE FINISH	CRI / WATTAGE PACKAGE	CCT	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	DRIVER
							<b>WW</b>			<b>LVS</b>
F4R Round	FWW Standard Flange MWW Microflange TWW Trimless	1 Dry/Damp 2 Wet	WH White AG Satin Silver AU Cashmere Gold	WH White AG Satin Silver AU Cashmere Gold	 <b>STATIC WHITE 4.38" TALL HOUSING</b> 80S53E 80+ CRI, 53W, Lumens Dvld. - 3731 90S53E 90+ CRI, 53W, Lumens Dvld. - 3324 97S53E 97+ CRI, 53W, Lumens Dvld. - 2985	27 2700K 30 3000K 35 3500K 40 4000K	WW Wallwash Optic (>19)	INTEGRAL DRIVER NIC	1 0.50" - 1.00" T TG 0.50" - 1.00"* *(Includes adjustable housing height bracket)	LVS Low Voltage System
F4S Square	FWW Standard Flange MWW Microflange TWW Trimless		BB Burnt Bronze BK Black PR Primer 00 Trimless* *(Required for trimless) CF Custom Finish* *(Consult Factory)	BB Burnt Bronze BK Black PR Primer CF Custom Finish* *(Consult Factory)	 <b>WARM DIM 4.38" TALL HOUSING</b> 90W26B 90+ CRI, 26W, Lumens Dvld. - 1318 Incandescent Profile 90W42E 90+ CRI, 42W, Lumens Dvld. - 2085 Incandescent Profile *SEE PAGE 5 FOR DETAILED WARM DIM PROFILE *LUMEN DELIVERED OUTPUTS REFLECT 3000K.	WL 2700K - 1800K		REMOTE DRIVER NIC, Remote		



## PART NUMBER NOTES




- Housing and trim ship as e.g., F4RMWW1-WHWH-90C50B2-5W1-LVS

# FRAXION4 HIGH FLUX LVS WALLWASH

## APPLICATION NOTES

- Customers must ensure voltage range of the proposed POE node 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 LLC rep or factory.
- Customers are responsible for ensuring POE node drive current is set to correct values shown below.
- 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 using customer supplied connectors, ex. wire nuts, push-in connectors, or terminal blocks.
- Confirm node compatibility with factory if it is not listed.

## NODE COMPATIBILITY

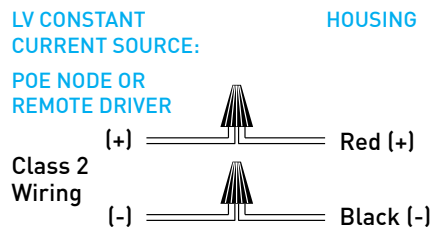
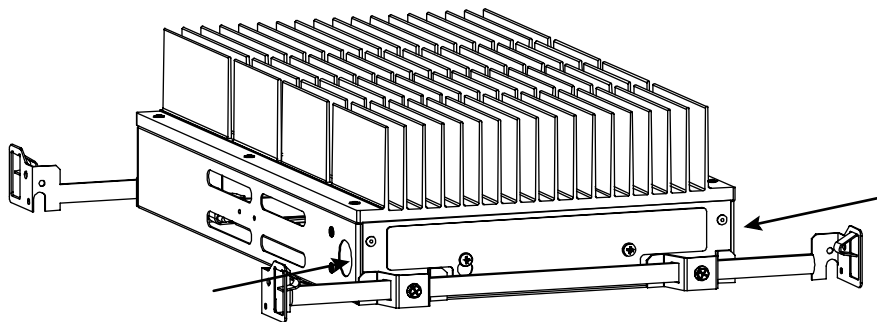
Manufacturer	Model Number
 Igor Enabling Smart Buildings™	NP50-60-C-F-5
 molex	180996-5103* 180996-5106* 180996-5104*
 PLATFORMATICS	1 Channel Node, POE-LN2-1U-E 2 Channel Node, POE-LN2-2U-E 4 Channel Node, POE-LN2-4U-E

\*SEE APPLICATION NOTE 1

## DRIVE CURRENT SPECIFICS

	80S	90S	97S	90W	
	53E	53E	53E	26B	42E
Minimum Vf	30.5	30.5	30.5	30.5	30.5
Maximum Vf	39	39	39	39	39
Current mA	1250	1250	1250	600	1000
Wattage W	43.6	43.6	43.6	20.1	34

## WIRING DIAGRAM AND HOUSING ENTRY/ EXIT POINTS



# FRAXION4 HIGH FLUX LVS WALLWASH

## ACCESSORIES

### REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	TRIM	RATING	FLANGE FINISH
<b>RBA</b>				
REPLACEMENT BAFFLE ASSEMBLY	F4R Round	FWW Standard Flange MWW Microflange TWW Trimless	1 Dry / Damp 2 Wet	WH White BK Black PR Primer AU Cashmere Gold AG Satin Silver BB Burnt Bronze CF Custom Finish* *(Consult Factory)
	F4S Square	FWW Standard Flange MWW Microflange TWW Trimless		

1

### REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

#### STATIC WHITE

**RO-70-WW-S** Wallwash optic

#### WARM DIM

**RO-70-WW-W** Wallwash 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 0.5" - 1.0".

**DHA-TG-KIT**

### FURRING CHANNEL ACCESSORY KIT

Recommended for installations in furring channel. Available for ceiling thicknesses from 0.5" - 1.0".

**DHA-FC-KIT**

### HANGER BAR EXTENDER KIT

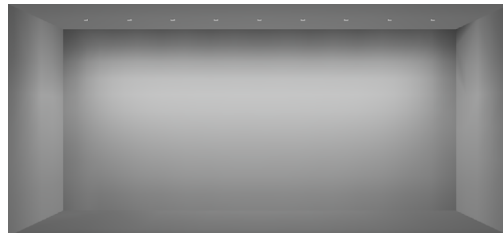
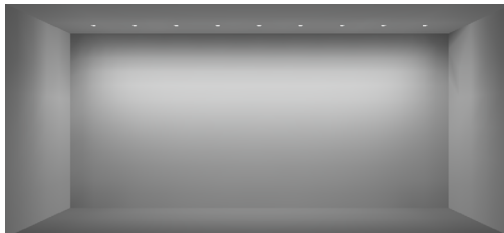
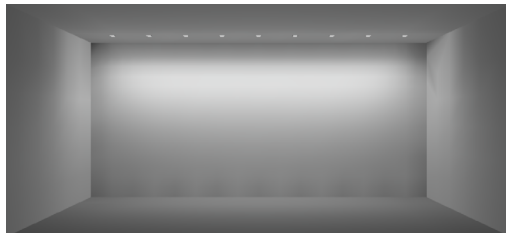
Extends hanger bars from 24.0" to 46.0" maximum.

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

# FRAXION4 HIGH FLUX LVS WALLWASH

## WALLWASH DESIGN GUIDE

### ROUND



#### RECOMMENDED

#### 30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 41.56
- MIN / MAX: 5.70
- 12FT CEILING SHOWN / 10-14FT IDEAL
- 9 FIXTURES / 25FT WALL SHOWN

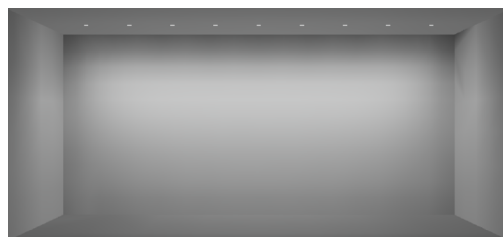
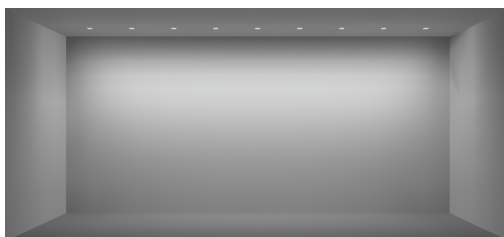
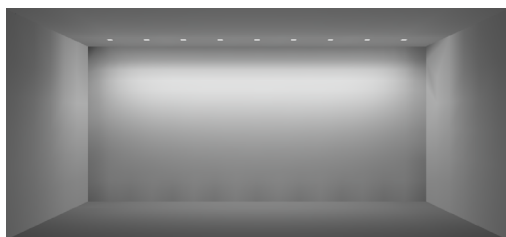
#### 36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 33.08
- MIN / MAX: 4.79
- 12FT CEILING SHOWN / 10-14FT IDEAL
- 9 FIXTURES / 30FT WALL SHOWN

#### 42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 26.75
- MIN / MAX: 6.17
- 12FT CEILING SHOWN / 10-14FT IDEAL
- 9 FIXTURES / 35FT WALL SHOWN

### SQUARE



#### RECOMMENDED

#### 30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 43.81
- MIN / MAX: 5.84
- 12FT CEILING SHOWN / 10-14FT IDEAL
- 9 FIXTURES / 25FT WALL SHOWN

#### 36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 35.06
- MIN / MAX: 4.40
- 12FT CEILING SHOWN / 10-14FT IDEAL
- 9 FIXTURES / 30FT WALL SHOWN

#### 42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 28.39
- MIN / MAX: 5.86
- 12FT CEILING SHOWN / 10-14FT IDEAL
- 9 FIXTURES / 35FT WALL SHOWN

### ADDITIONAL SPACINGS AND SETBACKS

ROUND			
ON CENTER SPACING	SETBACK		
	30"	36"	42"
30"	SHOWN ABOVE	AVERAGE FC: 38.91 MIN / MAX: 5.35	AVERAGE FC: 36.21 MIN / MAX: 5.68
36"	AVERAGE FC: 35.45 MIN / MAX: 5.44	SHOWN ABOVE	AVERAGE FC: 30.89 MIN / MAX: 5.14
42"	AVERAGE FC: 30.25 MIN / MAX: 6.80	AVERAGE FC: 28.54 MIN / MAX: 6.38	SHOWN ABOVE

SQUARE			
ON CENTER SPACING	SETBACK		
	30"	36"	42"
30"	SHOWN ABOVE	AVERAGE FC: 41.17 MIN / MAX: 4.83	AVERAGE FC: 38.39 MIN / MAX: 5.05
36"	AVERAGE FC: 37.53 MIN / MAX: 5.76	SHOWN ABOVE	AVERAGE FC: 32.75 MIN / MAX: 4.59
42"	AVERAGE FC: 32.02 MIN / MAX: 6.04	AVERAGE FC: 30.24 MIN / MAX: 5.74	SHOWN ABOVE

**\*ALL DATA REFLECTS 90C50B LUMEN PACKAGE**

# FRAXION4 HIGH FLUX LVS WALLWASH

## PERFORMANCE - 3000K

LUMEN PACKAGE	WATTAGE	WW OPTIC	
		DLVD.	LPW
80S53E	53	2654	70
90S53E	53	2265	63
97S53E	53	2985	56
90W26B	26	1318	51
90W42E	42	2085	50

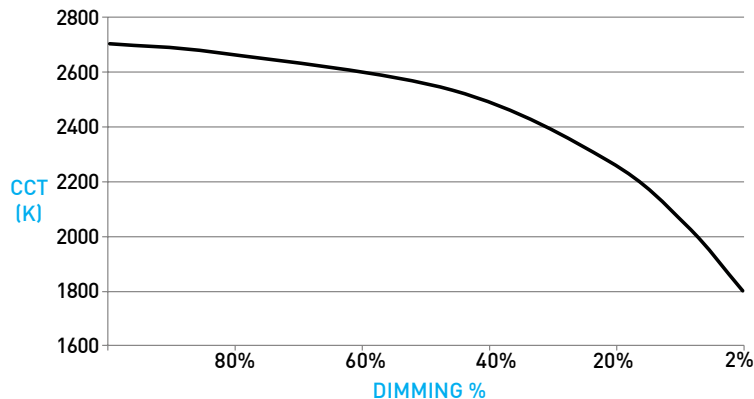
OUTPUT MULTIPLIER	
CCT	CCT SCALE
2700K	0.97
3000K	1.00
3500K	1.03
4000K	1.08

UNIFIED GLARE RATING
WALLWASH OPTIC
>19

## WARM DIM PERFORMANCE

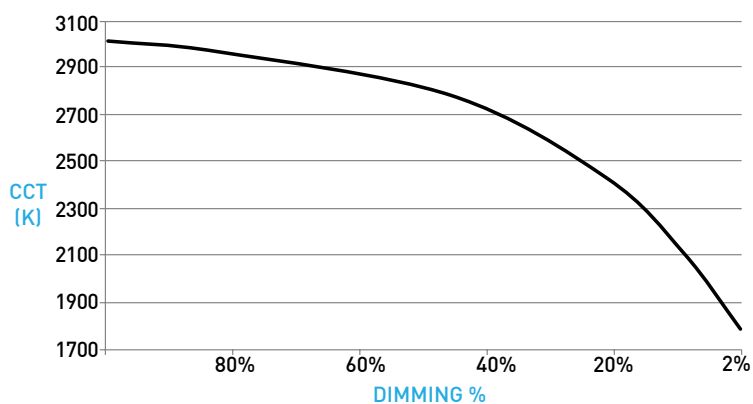
WARM DIM TO MIRROR INCANDESCENT DIMMING PROFILE

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)	1318	1054	922	659	263	131	26
Power (W)	26	21	18	13	5	3	.5
Efficacy (LPW)	51	51	51	51	51	51	51



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)	2700	2650	2620	2520	2180	1950	1800
Light Output (Lm)	2085	1668	1459	1042	417	208	41
Power (W)	42	33	29	21	8	4	.8
Efficacy (LPW)	50	50	50	50	50	50	50

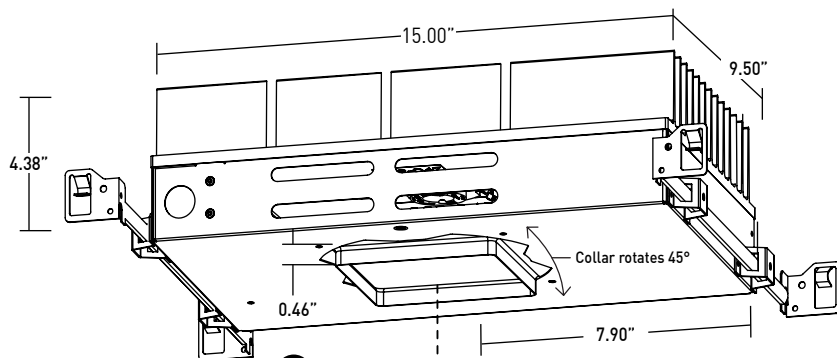


# FRAXION4 HIGH FLUX LVS WALLWASH

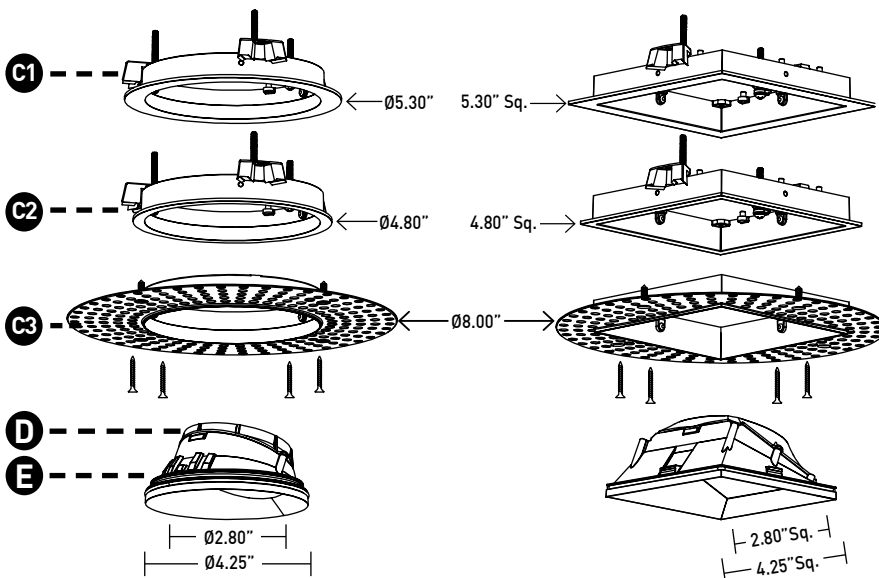
## DOWNLIGHT / HOUSING

- A LED**  
Integral LED module design enables field service / replacement through housing aperture.
- B OPTIC**  
Robust light engine with optimized wallwash optic pairing integrates Reflection, Refraction and TIR.
- C1 STANDARD FLANGE PROFILE**  
Installed after ceiling is complete. Requires 4.625" diameter cutout. Provides 0.86" total contractor (goof) allowance with 0.50" flange. Thickness measures 0.06". Wet location features integral silicone gasket.
- C2 MICROFLANGE PROFILE**  
Installed after ceiling is complete. Requires 4.625" diameter cutout. Provides 0.42" total contractor (goof) allowance with 0.28" flange. Thickness measures 0.06". Wet location features integral silicone gasket.
- C3 TRIMLESS PROFILE**  
Installs totally flush with the ceiling with no visible trim. Appliqué includes screws for mounting and has 0.06" plaster stop. Not recommended for stucco applications.
- D MEDIA**  
Asymmetrical spread lens, included and sealed in place, combined with angled optic and wide aperture enhance uniformity.
- E ROUND/SQUARE BAFFLE**  
Die-cast removable baffle minimizes aperture glare and conceals view into housing; includes silicone gasket.

## DIMENSIONS / DRAWINGS



NOTE: Square housing shown, housing will feature round aperture for round fixtures.



# FRAXION4 HIGH FLUX LVS WALLWASH

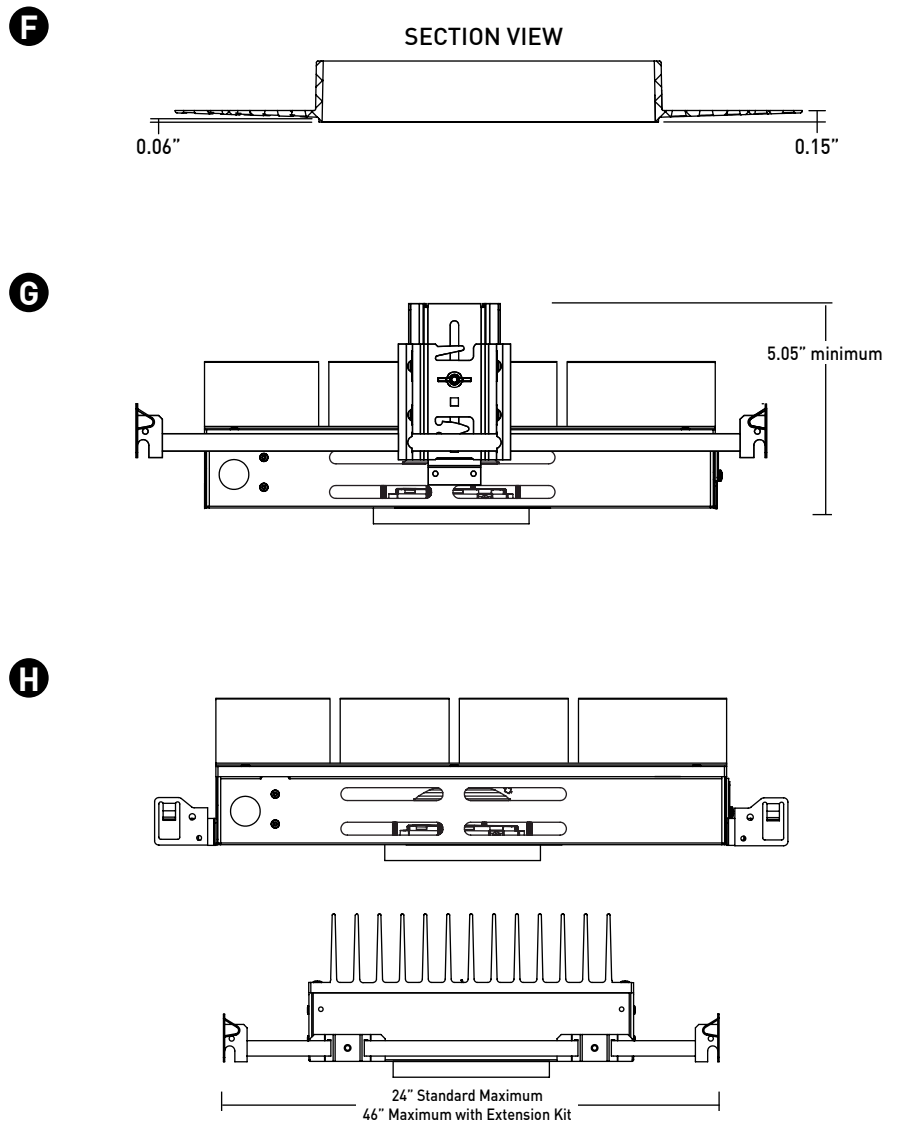
## DOWNLIGHT / HOUSING

- F TRIMLESS APPLIQUÉ DETAIL**  
Integrated appliqué for plaster floating directly to baffle.
- G TG BRACKET ASSEMBLY**  
Adjustable height bracket assembly provided with ceiling thickness "T" and recommended for installations in T-Grid and with furring channel. Hanger bars are installed to adjustable bracket. Allows housing to be raised and lowered; ceiling thickness remains 0.5" to 1.0" max.
- H 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.

## HOUSING NOTES

- Do not install in environments where ambient temperatures exceed 40°C (104°F) for 26W configurations.
- Do not install in environments where ambient temperatures exceed 35°C (95°F) for 42W and 53W configurations.
- 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; 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 excluded from 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 1.00".

## DIMENSIONS / DRAWINGS



# FRAXION4 HIGH FLUX LVS WALLWASH

## 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.

**Appliqué:** Zinc Alloy

### STATIC WHITE LED

2-step MacAdam ellipse LED module available in 80+, 90+ and 97+ CRI configurations in color temperatures of 2400K (90+ CRI only), 2700K, 3000K, 3500K and 4000K. 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. 2700K at full brightness, warming to 1800K at full dim. Average rated lamp life of 50,000 hours. LED assemblies are field-replaceable.

### SPACING

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

### LISTING

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

CCEA and Airtight Listed.

U.S. Patent: 10,317,066

### WEIGHT

Fixture - 11lbs max

### LIMITED WARRANTY

Manufacturer's Limited Warranty guarantees

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. 08/08/2023: UPDATED WITH NEW LED AND OPTIC SYSTEM.