FRAXION®4 HIGH FLUX 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.

ORDERING INFORMATION - DOWNLIGHT / HOUSING

SHAPE	TRIM	RATING	FLANGE FINISH	BAFFLE FINISH	CRI / WATTAGE PACKAGE	CCT	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	DRIVER
							WW			
F4R Round	FWW Standard Flange MWW Microflange TWW Trimless	1 Dry/Damp 2 Wet	WH White AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer 00 Trimless* * (Required for trimless) CF Custom Finish * * (Consult Factory)	WH White AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish * * (Consult Factory)	**STATIC WHITE** **4.38" TALL HOUSING** 80S53E 80+ CRI, 53W, Lumens Dlvd. - 3731 90S53E 90+ CRI, 53W, Lumens Dlvd. - 3324 97S53E 97+ CRI, 53W, Lumens Dlvd. - 2985	27 2700K 30 3000K 35 3500K 40 4000K	WW Wallwash Optic (>19)	**INTEGRAL DRIVER** Y NIC **REMOTE DRIVER** W NIC, Remote	1 0.50" - 1.00" T TG 0.50" - 1.00"* * (Includes adjustable housing height bracket)	**UNIVERSAL (120-277V)** LH1 Lutron, Hi-Lume 1% Ecosystem* *(Not available for 53W packages) AN4 Philips Xitanium 1% 0-10V, LOG* *(Not available for 53W packages) LN2 Philips Xitanium 1% 0-10V, LIN* *(Not available for 53W packages) EA2 eldoLED, SOLOdrive 0.1% 0-10V, LOG LA2 eldoLED, SOLOdrive 0.1% 0-10V, LIN ED1 eldoLED, SOLOdrive 0.1% DALI, LOG LD1 eldoLED, SOLOdrive 0.1% DALI, LIN AS1 / Athena Control ASR eldoLED, SOLOdrive 0.1%* *(Includes Athena Node. Extended lead time, consult factory. ASR includes shunt) CS1 / Casambi Control CSR eldoLED, SOLOdrive 0.1%* *(Includes Casambi Node. Extended lead time, consult factory. CSR includes shunt)
F4S Square	FWW Standard Flange MWW Microflange TWW Trimless				**WARM DIM** **4.38" TALL HOUSING** 90W26B 90+ CRI, 26W, Lumens Dlvd. - 1318 Incandescent Profile 90W42E 90+ CRI, 42W, Lumens Dlvd. - 2085 Incandescent Profile **SEE PAGE 4 FOR DETAILED WARM DIM PROFILE**	WL 2700K - 1800K				**TUNABLE WHITE POWER SUPPLIES (120-277V)** DD1 eldoLED, DUALdrive 0.1% DALI-2, LOG DG1 eldoLED, DUALdrive 0.1% 0-10V, LOG DL1 eldoLED, DUALdrive 0.1% 0-10V, LIN AD1 / Athena Control ADR eldoLED, DUALdrive 0.1%* *(Includes Athena Node. Extended lead time, consult factory. ADR includes shunt) CD1 / Casambi Control CDR eldoLED, DUALdrive 0.1%* *(Includes Casambi Node. Extended lead time, consult factory. CDR includes shunt)
					TUNABLE WHITE **4.38" TALL HOUSING** 90T30B 90+ CRI, 30W Cool Profile: 5000K - 2700K Lumens Dlvd. - 1684 Warm Profile: 4000K - 1800K Lumens Dlvd. - 1573	TH 5000K - 2700K TR 4000K - 1800K				
					LUMEN DELIVERED OUTPUTS REFLECT 3000K.					

(WH) White Powder Coat

(AG) Satin Silver Powder Coat

(AU) Cashmere Gold Powder Coat

(BB) Burnt Bronze Powder Coat

(BK) Black Powder Coat

PART NUMBER NOTES

- Housing and trim ship as e.g., F4RMWW1-WHWH-90S53E2-5X1-EA2

[DATE OF REV: 07242024]

ACCESSORIES

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES EFFECTS DEVICE)

ASSEMBLY		SHAPE		TRIM		RATING		FLANGE FINISH		
RBA	-						-			-1
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*		
		F4S Square		**FWW** Standard Flange **MWW** Microflange **TWW** Trimless				*(Consult Factory)		

REPLACEMENT OPTICS
Interchangeable optics accessible through fixture aperture.

STATIC WHITE	**WARM DIM**	**TUNABLE WHITE**
☐ **RO-70-WW-S** Wallwash optic	☐ **RO-70-WW-W** Wallwash optic	☐ **RO-70-WW-T** 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

EMERGENCY LIGHTING - REMOTE MOUNT ONLY
During disruption of main power, emergency battery inverter provides temporary 120V or 277V to fixture.
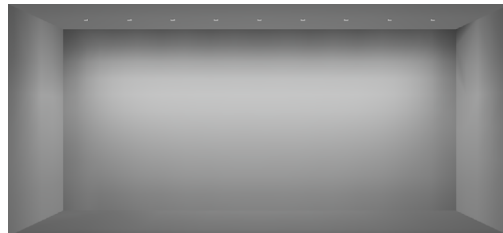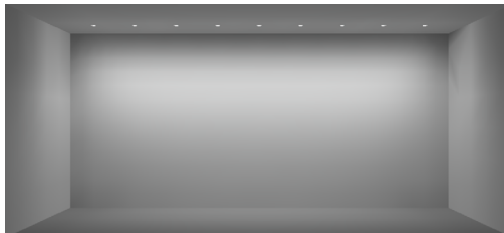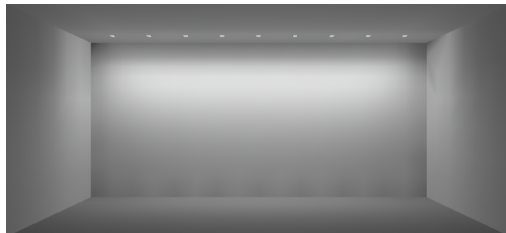
☐ **EMB-S-100-120-LEDX**	100 watt max capacity, 120 VAC 60Hz, 0-10V Dimmable
☐ **EMB-S-100-277-LEDX**	100 watt max capacity, 277 VAC 60Hz, 0-10V Dimmable
☐ **EMB-S-250-120/277-LEDX**	250 watt max capacity, 120 or 277 VAC 60Hz, 0-10V Dimmable

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

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WALLWASH DESIGN GUIDE

ROUND

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

RECOMMENDED
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

30" SETBACK / 30" ON CENTER SPACING

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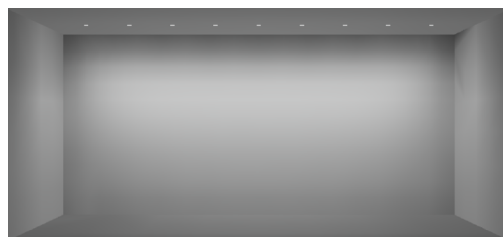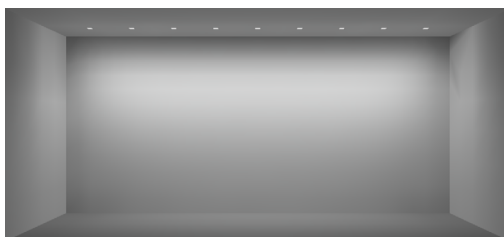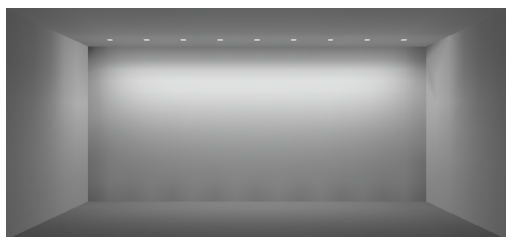- 9 FIXTURES / 25FT WALL SHOWN

RECOMMENDED
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

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FRAXION4 HIGH FLUX 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
90T30B (40K-18K)	30	1573	52
90T30B (50K-27K)	30	1684	56

OUTPUT MULTIPLIER

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

UNIFIED GLARE RATING

WALLWASH OPTIC
>19

TUNABLE WHITE MULTIPLIER

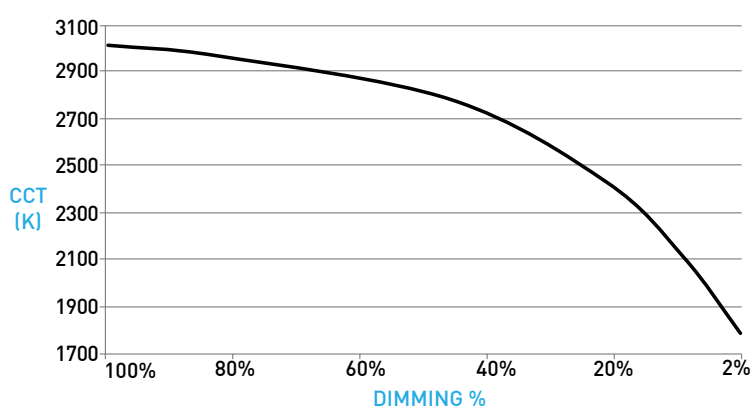| CCT	5000K-2700K	4000K-1800K
5000K	1.16	-
4000K	1.08	1.14
3500K	1.04	1.07
3000K	1.00	1.00
2700K	0.96	0.92
2400K	-	0.84
1800K	-	0.69

◉ 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
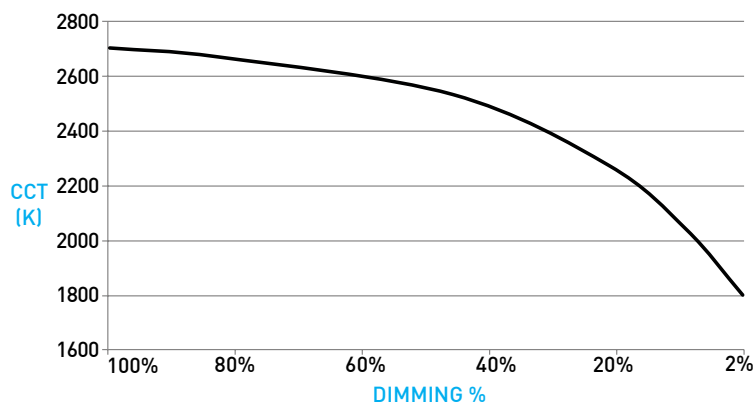
HALOGEN WARM DIM PROFILE

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

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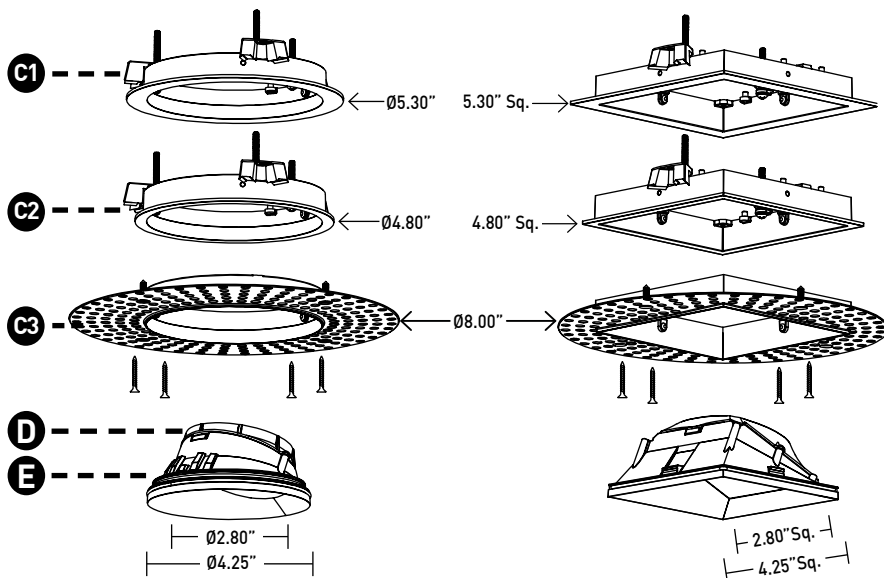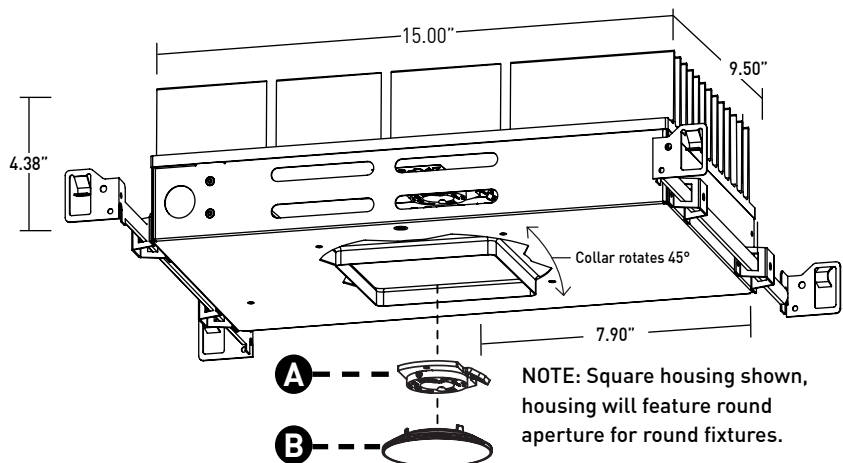
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FRAXION4 HIGH FLUX WALLWASH

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.

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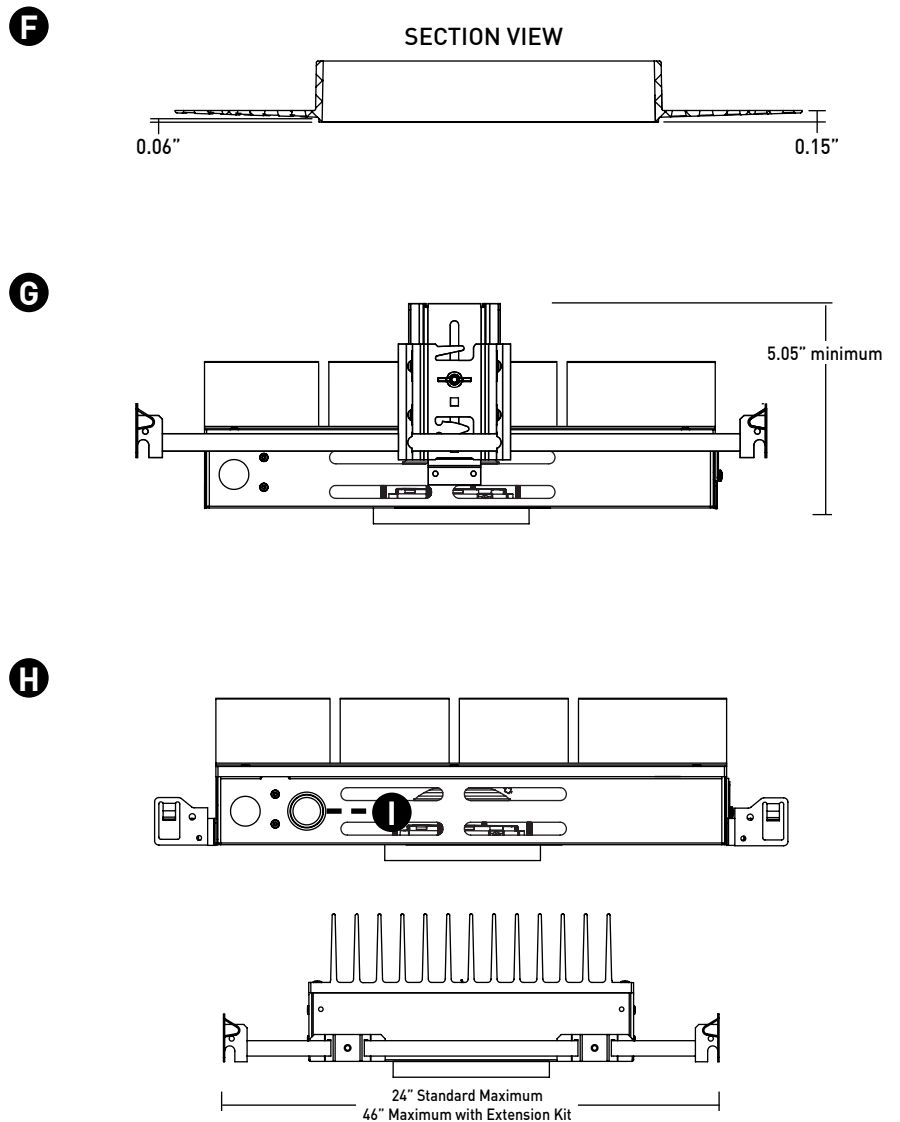
FRAXION4 HIGH FLUX WALLWASH

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.

I ATHENA / CASAMBI CONTROL
Controls integrated into housing assembly. All equipment is serviceable.

Athena Model Numbers: A-WN-D01-RF-BL & DFC-OEM-DBI

Casambi Model Number: BT-S1E1-5400

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

F

SECTION VIEW

0.06"

0.15"

G

5.05" minimum

H

I

24" Standard Maximum
46" Maximum with Extension Kit

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FRAXION4 HIGH FLUX WALLWASH

REMOTE POWER SUPPLY

J REMOTE POWER SUPPLY
- Provided with install Type "W" .
- Requires plenum rated Class 2 cable between fixture and remote driver. Cable supplied by others.
- See page 6 for maximum allowable wiring distance.
- Must be installed in an accessible location
- Do not install in environments where ambient temperatures exceed 40°C (104°F).
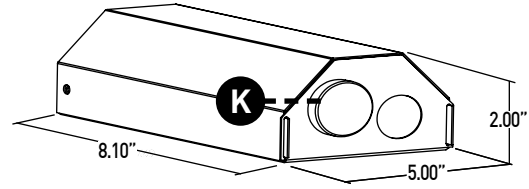
K ATHENA / CASAMBI CONTROL
Controls integrated into remote driver assembly. All equipment is serviceable.

Athena Model Numbers: A-WN-D01-RF-BL & DFC-OEM-DBI

Casambi Model Number: BT-S1E1-5400

L ATHENA / CASAMBI EM SHUNT
Inlcuded with drivers specified as ASR, ATR, CSR, or CTR. 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

J

8.10"
5.00"
2.00"

L

ATHENA / CASAMBI
EM SHUNT

6.94"
3.35"
2.00"

UTILITY POWER   TEST   EMERGENCY POWER

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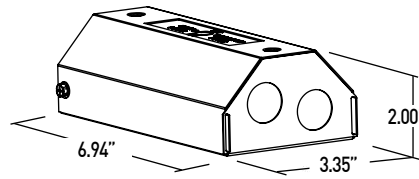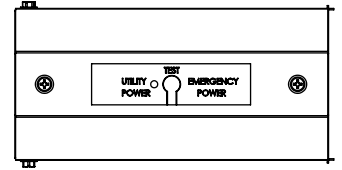
TECHNICAL

CONSTRUCTION

<u>Downlight</u>: Painted finishes are granulated powder coat.
<u>Housing</u>: Aluminum and 22 Gauge galvanized steel. Extruded aluminum housing panel to act as heat-sink.
<u>Remote Power Supply</u>: 22 Gauge galvanized steel.
<u>Appliqué</u>: 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. 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 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

	ECO		0-10V				DALI-2		ATHENA	CASAMBI
Power Supply	LH1	LP1	AN4	LN2	EA2	LA2	ED1	LD1	AS	CS
Minimum °C	0 °C	0 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C	0 °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
Dimming %	1.0%	0.1%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For LH1, AN4, EA2 and LA2 drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

SPACING

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

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG				
DRIVER	12	14	16	18	20
AN4, LN2	285'	180'	113'	71'	45'
LH1	60'	40'	25'	15'	-
EA2, LA2, ED1, LD1, AS, CS	-	-	118'	72	46'

LISTING

cTUVus listed to UL1598 standard for Dry / Damp and Wet locations.
NEMA 410 Compliant.
U.S. Patent: 10,317,066

BUY AMERICAN ACT

All Fraxion4 High Flux Wallwash configurations are Buy American Act compliant.

WEIGHT

Fixture - 11lbs 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. 08/08/2023: UPDATED WITH NEW LED AND OPTIC SYSTEM.
2. 02/08/2024: ADDED ATHENA AND CASAMBI CONTROL OFFERING, 2400K, AND WARM PROFILE TUNABLE WHITE.
3. 07/24/2024: DISCONTINUED L23 LUTRON HI-LUME 1% 2-WIRE DRIVER OFFERING.

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FRAXION4 HIGH FLUX WALLWASH

DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply **AN4** Manufacturer	Family/Model #
Lutron Electronics	DVTV plus PP-DV
Lutron Electronics	DVSCTV plus PP-DV
Lutron Electronics	DVSTV
Lutron Electronics	DVSCSTV
Lutron Electronics	QSGRJ-XP plus GRX-TVI
Lutron Electronics	QSGRJ-XE plus GRX-TVI
Lutron Electronics	QSGR-XE plus GRX-TVI
Lutron Electronics	NFTV plus PP-DV
Lutron Electronics	NTSTV
Lutron Electronics	RMJ-5T
Lutron Electronics	RMJS-8T
Lutron Electronics	FCJS-010
Leviton	IllumaTch IP7 series
Philips	Sunrise - SR1200ZTUNV

LUTRON DRIVER COMPATIBILITY

Power supply **LH1** Lutron Product Family	Part No.
PowPak Dimming Modules	RMJ-ECO32-DV-B
PowPak Dimming Modules	FCJ/FCJS-ECO
Energi Savr Nodes	QSN-1ECO-S
GRAFIK Eye QS control unit Homeworks QS control unit	QSN-2ECO-S
GRAFIK Eye QS control unit 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 myRoom Plus power module	LQSE-2ECO-D

eldoLED DRIVER COMPATIBILITY

Power supply **EA2** 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-AO8
Crestron®	DIN-4DIMFLV4
Crestron®	CLS-EXP-DIMFLV
Crestron®	CLCI-1DIMFLV2EX

Power supply **LA2** 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

DIMMER — DRIVER — OUTPUT

LIN* → LIN* → *STATIC WHITE ONLY ✓

LOG ↔ VICE VERSA LIN → ✓
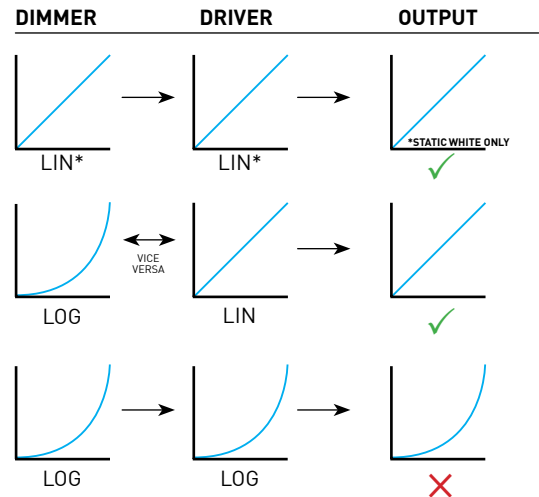
LOG → LOG → ✗

LIN = LINEAR
LOG = LOGARITHMIC
*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM OR TUNABLE WHITE

LUTRON 2016 OEM ADVANTAGE ACCOUNT