FRAXION®4 SLIM

WALLWASH

Fraxion4 Slim incorporates an LED, optic, and housing into a single complete unit featuring a removable baffle and trim. Conversely, Fraxion4 standard offers a traditional housing and separate trim assembly.

PROJECT NAME:	TYPE:





ORDERING INFORMATION - DOWNLIGHT / HOUSING

JA8-2019 INDICATED BY SHADING

SHAPE TRIM	RATING	FLANGE FINISH	BAFFLE FINISH	LUMEN PACKAGE	CCT		OPTIC	INSTALL TYPE	CEILING THICKNESS	DRIVER
	-	-		-		-	ww			-
FWW Standard Flange MWW Microflange TWW Trimless FWW Standard Flange MWW Microflange TWW Trimless FWW Standard Flange MWW Microflange TWW Trimless	1 Dry/Damp 2 Wet	WH White AG Satin Silver AU Cashmere Gold BB Bumt 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 Custorn Finish * (Consult Factory)	*(Not available for IC housing applications) 80C36B 80+ CRI, Delivered Lurmens - 2028* *(Not available for IC housing applications) 90C26B 90+ CRI, Delivered Lurmens - 1424* *(Not available for IC housing applications) 90C30B 90+ CRI, Delivered Lurmens - 167* *(Not available for IC housing applications) 97C23B 97+ CRI, Delivered Lurmens - 1298* *(Not available for IC housing applications) 97C27B 97+ CRI, Delivered Lurmens - 1529* *(Not available for IC housing applications) 97C27B 17+ CRI, Delivered Lurmens - 1529* *(Not available for IC housing applications) LOW FLUX WARM DIM 2.10" TALL HOUSING	22 2200K* *(only available with 90C+ CRI) 30 3000K 35 3500K 40 4000K 27 2700K 30 3000K 35 3500K* *(Not available for 97+ CRI) 40 4000K WL 2700K- 1800K WD 3000K- 1800K TW 5000K-	ww	Wallwash Optic	INTEGRAL DRIVER X IC Y ICC C IC, Airtight* *ICCEA Airtight & Title 24 compliant housing) REMOTE DRIVER V IC, Remote W NIC, Remote D IC, Airtight, Remote *ICCEA Airtight, Remote *CCEA Airtight, Remote *CCEA Airtight & Title 24 compliant housing)	1 0.50" - 1.00" T TG 0.50" - 1.00"* * (Includes adjustable housing height bracket)	DOMESTIC (120V) TR2

(MH) (AG) White

Powder Coat

(AU) Satin Silver Cashmere Gold Powder Coat Powder Coat

(BB) Burnt Bronze

Powder Coat Powder Coat

(BK)

Black

PART NUMBER NOTES

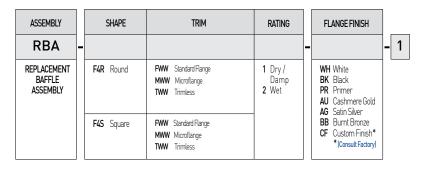
- Housing and trim ship as e.g., F4RMWW1-WHWH-90C14A2-5X1-AN4
- Remote driver ships with fixture as e.g., PSF4-RMT-90C-14A-1L23





ACCESSORIES

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES EFFECTS DEVICE)



LOW FLUX AND WARM DIM REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

□ R0-70-WW-1 WW optic

HIGH FLUX AND TUNABLE WHITE REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

□ R0-70-WW-2 WW optic

TG BRACKET ASSEMBLY

Supplied with ceiling thickness "T" and recommended for installations in T-Grid and furring channel up to 1.5" tall. Available for ceiling thicknesses from 0.50" - 1.00".

☐ DHA-TG-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-20/25-120/277-LEDX** 20/25 watt max capacity, 120 or 277 VAC 60Hz, Non-Dimmable

☐ EMB-S-100-120-LEDX 100 watt max capacity, 120 VAC 60Hz, Dimmable

☐ EMB-S-100-277-LEDX 100 watt max capacity, 277 VAC 60Hz, Dimmable

☐ EMB-S-250-120/277-LEDX 250 watt max capacity, 120 or 277 VAC 60Hz, Dimmable

reserves the right to change or withdraw specifications without prior notice.

pg. 2

WALLWASH DESIGN GUIDE



30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 23.81
- MIN / MAX: 4.23
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 9 FIXTURES / 25FT WALL SHOWN

ROUND



RECOMMENDED 36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 18.27
- MIN / MAX: 4.43
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 9 FIXTURES / 30FT WALL SHOWN



42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 14.44
- MIN / MAX: 5.51
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 9 FIXTURES / 35FT WALL SHOWN

SQUARE



30" SETBACK / 30" ON CENTER SPACING

- AVERAGE FC: 25.23
- MIN / MAX: 4.12
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 9 FIXTURES / 25FT WALL SHOWN



RECOMMENDED 36" SETBACK / 36" ON CENTER SPACING

- AVERAGE FC: 19.43
- MIN / MAX: 4.19
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 9 FIXTURES / 30FT WALL SHOWN



42" SETBACK / 42" SPACING ON CENTER

- AVERAGE FC: 15.32
- MIN / MAX: 5.18
- 10FT CEILING SHOWN / 8-12FT IDEAL
- 9 FIXTURES / 35FT WALL SHOWN

ADDITIONAL SPACINGS AND SETBACKS

ROUND							
ON CENTER	SETBACK						
SPACING	30"	36"	42"				
30"	SHOWN	AVERAGE FC: 21.62	AVERAGE FC: 19.42				
	ABOVE	MIN / MAX: 4.38	MIN / MAX: 4.72				
36"	AVERAGE FC: 16.38	SHOWN	AVERAGE FC: 16.53				
	MIN / MAX: 4.53	ABOVE	MIN / MAX: 4.73				
42"	AVERAGE FC: 17.28	AVERAGE FC: 15.79	SHOWN				
	MIN / MAX: 5.40	MIN / MAX: 5.41	ABOVE				

SQUARE							
ON CENTER	SETBACK						
SPACING	30" 36"		42"				
30"	SHOWN ABOVE	AVERAGE FC: 23.05 MIN / MAX: 4.17	AVERAGE FC: 20.74 MIN / MAX: 4.15				
36"	AVERAGE FC: 17.03 SHOWN MIN / MAX: 4.26 ABOVE		AVERAGE FC: 17.62 MIN / MAX: 4.51				
42"	AVERAGE FC: 18.34 MIN / MAX: 5.00	AVERAGE FC: 16.79 MIN / MAX: 5.02	SHOWN ABOVE				

*ALL DATA REFLECTS 90C19A LUMEN PACKAGE

[DATE OF REV: 04262023]

PERFORMANCE - 3000K - WALLWASH LENS

PERFORMANCE - 3000K - WA						
LUMEN	WATTAGE		OPTIC			
PACKAGE	WATTAGE	DELIVERED	LPW			
80C12A	10	599	59			
80C16A	14	819	57			
80C23A	21	1129	53			
80C30B	30	1724	57			
80C36B	35	2028	58			
90C10A	10	495	49			
90C14A	14	677	47			
90C19A	21	933	44			
90C26B	30	1424	47			
90C30B	35	1677	48			
.=						
97C10A	10	452	45			
97C12A	14	617	43			
97C17A	21	851	40			
97C23B	30	1298	43			
97C27B	35	1529	44			
90W11A	14	695	49			
90W12A	14	782	55			
90T10B	14	590	42			
90T14B	22	807	36			

OUTPUT MULTIPLIER						
ССТ	CCT SCALE					
2200K (Consult factory for JA8 details)	0.800					
2700K	0.957					
3000K	1.000					
3500K	1.019					
4000K	1.030					

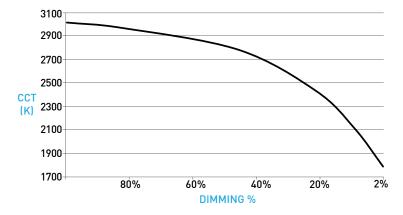


JA8-2019 INDICATED BY SHADING

WARM DIM PERFORMANCE

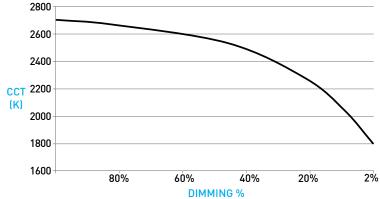
STANDARD WARM DIM PROFILE

90W12A 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)	782	625	547	391	156	78	15
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	55	55	55	55	55	55	55



WARM DIM TO MIRROR INCANDESCENT DIMMING PROFILE

90W11A 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)	695	556	487	347	139	69	13
Power (W)	14	11	10	7	3	1.5	0.3
Efficacy (LPW)	49	49	49	49	49	49	49



[DATE OF REV: 04262023]

DOWNLIGHT / HOUSING

Integral LED module design enables field service / replacement through housing aperture.

Proprietary wallwash optic integrates Reflection, Refraction and TIR principles.

GI 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.

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.

TRIMLESS PROFILE

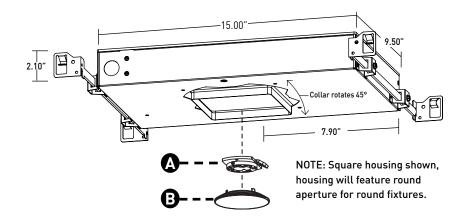
Installs totally flush with the ceiling with no visible trim. Appliqué includes screws for mounting and has 0.06" plaster stop. Not recommended for stucco applications.

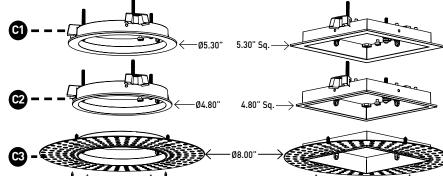
Asymmetrical spread lens, included and sealed in place, combined with angled optic and wide aperture enhance uniformity.

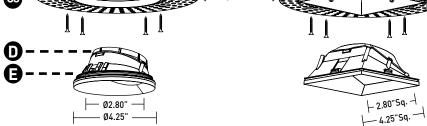
■ ROUND/SQUARE BAFFLE

Die-cast removable baffle minimizes aperture glare and conceals view into housing; includes silicone gasket.

DIMENSIONS / DRAWINGS







DOWNLIGHT / HOUSING

TRIMLESS APPLIQUÉ DETAIL

Integrated appliqué for plaster floating directly to baffle.

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.

IC HOUSING

- For IC ceilinas.
- CCEA, Airtight and Title 24 (JA8) listed.
- Accommodates max 1711 delivered lumens.
- No setback from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

NIC HOUSING

- Minimum 0.50" setback from combustible and non-combustible materials on all sides and top of
- 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.

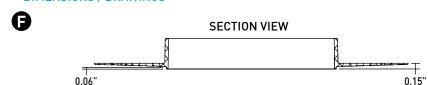
REMOTE POWER SUPPLY

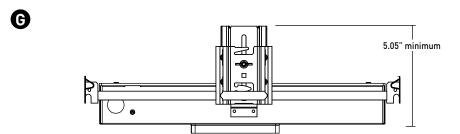
Provided with install Types "V", "W" and "D". Remote power supply provides additional driver options. See page 7 for maximum allowable secondary run lengths between PSF4-RMT and fixture. Must be installed in an accessible location.

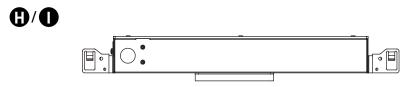
HOUSING NOTES

- Do not install 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, and long side of Low Flux housings; 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".

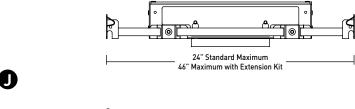
DIMENSIONS / DRAWINGS

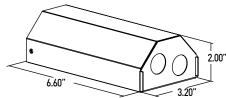






IC / NIC HAVE SAME DIMENSIONS AND NIC FEATURES VENTS





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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 2200K, 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. 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 🕕



5-step MacAdam ellipse tunable white LED module available in 90+ CRI configuration. Features tuning range of 2700K to 5000K. Average rated lamp life of 50,000 hours. LED and driver assemblies are fieldreplaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	El	LV	EC	0	0-10V			DALI					
Power Supply	TR2	L23	LH1	LP1	AN4	LN2	EA2	LA2	DL1	DG1	ED1	LD1	DD1
Minimum °C	-20 °C	0°C	0°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	40 °C	40°C	40 °C
Dimming %	2.0%	1.0%	1.0%	0.1%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For TR2, L23, LH1, LP1, AN4, EA2 and LA2 drivers consult chart on page 8 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG					
DRIVER	12	14	16	18	20	
TR2, AN4, LN2	285'	180′	113′	71'	45'	
L23, LH1, LP1	60'	40'	25'	15'	-	
EA2, LA2, ED1, LD1, DG1, DL1, DD1	-	-	118'	72	46'	

LISTING

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

cTUVus listed to UL1598 standard for Dry / Damp and Wet locations. CCEA, Airtight and Title 24 JA8-2019 Listed.

U.S. Patent: 10,317,066

BUY AMERICAN ACT

All Fraxion4 Slim Wallwash configurations are Buy American Act compliant.

DECLARE

LBC Red List Approved.

WEIGHT

Fixture - 6.4 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 and conditional upon the use of manufacturer-supplied power supply. Consult website for full warranty terms and conditions.

CHANGE LOG

- 1. 01/12/2021: ADDED 2200K AND 2700K-1800K WARM DIM OFFERINGS.
- 2. 03/15/2021: UPDATED HIGH FLUX STATIC WHITE PHOTOMETRICS.
- 3. 03/15/2021: REMOVED HIGH FLUX 97+ CRI 3500K OFFERING.
- 4. 04/30/2021: REMOVED QUICK SHIP.
- 5. 11/08/2021: ADDED LP1 DRIVER OFFERING AND DISCONTINUED 90T20B OFFERING.
- 6. 11/08/2021: MOVED 80C58B AND 90C50B OFFERING TO NEW HIGH FLUX WALLWASH SPEC SHEET.
- 7. 10/17/2022: REMOVED 90W13A 3200K-1800K WARM DIM AND ADDED 90W12A 3000K-1800K WARM DIM.
- 8. 04/26/2023: ADDED DECLARE LBC RED LIST APPROVED.



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DIMMING COMPATIBILITY

PHILIPS DRIVER COMPATIBILITY

Power supply TR2 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
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 L23 Lutron Product Family	Part No.
Maestro WirelessR 600 W dimmer	MRF2-6ND-120-
Maestro WirelessR 1000 W dimmer	MRF2-10ND-120-
Caséta® Wireless Pro 1000 W dimmer	PD-10NXD-
GRAFIK T™ CL® dimmer	GT-250M- GTJ-250M-
HomeWorks® QS adaptive dimmer	HQRD-6NA-
HomeWorks® QS 600 W dimmer	HQRD-6ND-
HomeWorks® QS 1000 W dimmer	HQRD-10ND-
RadioRA® 2 adaptive dimmer	RRD-6NA-
RadioRA® 2 1000 W dimmer	RRD-10ND
myRoom™ DIN power module	MQSE-4A1-D
HomeWorks® QS DIN power module	LQSE-4A1-D
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120
HomeWorks® wallbox power module	HWI-WPM-6D-120
GRAFIK Eye® QS control unit	QSGR-, QSGRJ-
GRAFIK Eye® 3000 control unit	GRX-3100- GRX-3500-
RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4U-120 LP-RPM-4U-120
RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4A-120, LP-RPM-4A-120
GP dimming panels	Various
Ariadni CL 250W dimmer	AYCL-253P-
Diva CL 250W dimmer	DVCL-253P- DCSCCL-253P-
Nova T CL 250W dimmer	NTCL-250-
Power supply LH1 & 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	
GRAFIK Eye QS control unit Homeworks QS control unit	QSGRJE (wireless) QSGRE
Quantum Hub	QP22C
Quantum Hub	QP24C
Quantum Hub	QP26C
Quantum Hub	QP28C
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-A08
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



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