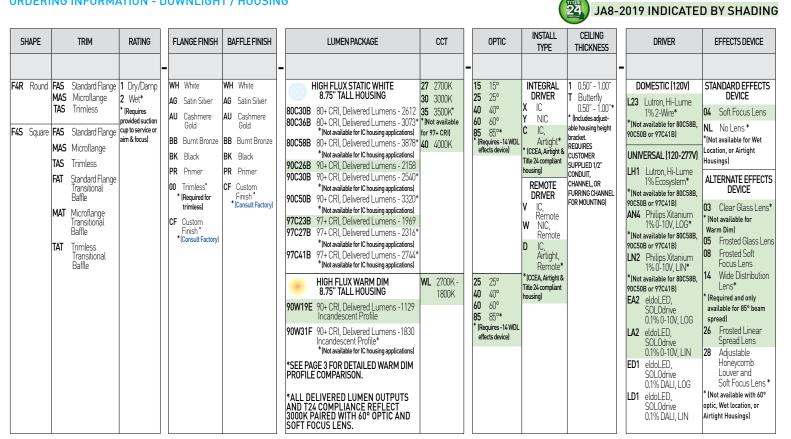
Very versatile, and highly configurable, these 4-inch downlights are the widest aperture we offer, ideal for overall illumination in residential and commercial spaces.

ORDERING INFORMATION - DOWNLIGHT / HOUSING





PART NUMBER NOTES

Housing and trim ship as e.g., F4RMAS1-WHWH-90C30B-3Y1-AN4

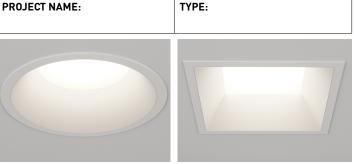
• Remote driver ships with fixture as e.g., PSF4-RMT-90C-30B-1L23



luciferlighting.com

©2022 Lucifer® Lighting Company

As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.



ACCESSORIES

ROUND ALTERNATE EFFECTS DEVICES Dry/Damp location only.

Wet location requires alternate baffle.

CGL-F4R	Clear Glass Lens* *(Not available for Warm Dim)	
🗆 FGL-F4R	Frosted Glass Lens	
SFL-F4R	Soft Focus Lens	
FSFL-F4R	Frosted Soft Focus Lens	C
U WDL-F4R	Wide Distribution Lens*	
	*(Required and only available for 85° beam spread)	
FLSL-F4R	Frosted Linear Spread Lens	C

SQUARE ALTERNATE EFFECTS DEVICES Dry/Damp location only.

Wet location requires alternate baffle.

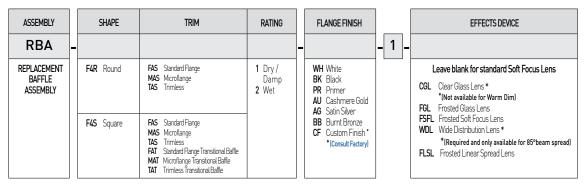
🗆 CGL-F4S	Clear Glass Lens*
	*(Not available for Warm Dim)
🗆 FGL-F4S	Frosted Glass Lens
🗆 SFL-F4S	Soft Focus Lens
□ FSFL-F4S	Frosted Soft Focus Lens
U WDL-F4S	Wide Distribution Lens*
	*(Required and only available for 85° beam spread)
□ FLSL-F4S	Frosted Linear Spread Lens

ADJUSTABLE HCL ASSEMBLY

Dry / Damp location only.

□ OLR-F4RS1-SFL-HCL Adjustable Honeycomb Louver and Soft Focus Lens* *(Not available for 60° optic, or Airtight housings)

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES EFFECTS DEVICE)



REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

🗆 R0-70-15-2	15° optic
🗆 R0-70-25-2	25° optic
🗆 R0-70-40-2	40° optic
🗆 R0-70-60-2	60° optic

REPLACEMENT SUCTION TOOL

One included with every six fixtures designated Wet location.

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

BUTTERFLY 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". Requires customer supplied 1/2" conduit, channel, or furring channel for mounting.

DHA-BFLY-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 □ EMB-S-100-277-LEDX □ EMB-S-250-120/277-LEDX
- 100 watt max capacity, 120 VAC 60Hz, Dimmable 100 watt max capacity, 277 VAC 60Hz, Dimmable 250 watt max capacity, 120 or 277 VAC 60Hz, Dimmable



©2022 Lucifer[®] Lighting Company As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

PERFORMANCE - 3000K

LUMEN	WATTAGE	15° 0 SOFT FOC				60° OPTIC SOFT FOCUS LENS		85° OPTIC WIDE DISTRIBUTION LENS			
PACKAGE	WAINAGE	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW	DELIVERED	LPW
80C30B	30	2472	82	2280	76	2507	84	2612	87	2041	68
80C36B	35	2909	83	2684	77	2950	84	3073	88	2401	69
80C58B	53	3670	69	3386	64	3723	70	3878	73	3029	57
								,		,,	
90C26B	30	2043	68	1884	63	2071	69	2158	72	1686	56
90C30B	35	2404	69	2218	63	2438	70	2540	73	1985	57
90C50B	53	3142	59	2900	55	3188	60	3320	63	2594	49
97C23B	30	1863	62	1719	57	1889	63	1969	66	1538	51
97C27B	35	2192	63	2022	58	2223	64	2316	66	1809	52
97C41B	53	2596	49	2395	45	2634	50	2744	52	1923	36
	~	~								• • •	
90W19E	23	-	-	987	43	1085	47	1129	49	883	38
90W31F	27	-	-	1598	59	1757	65	1830	68	1429	53

OUTPUT MULTIPLIER					
CCT CCT SCALE					
2700K	0.957				
3000K	1.000				
3500K	1.019				
4000K	1.030				

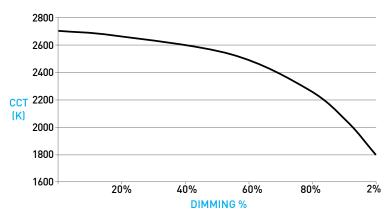
LIGHT LOSS FACTOR MULTIPLIER					
NO LENS	1.05				
CGL	1.00				
SFL	1.00				
FGL	0.90				
FSFL	0.87				
FLSL	0.83				
WDL	0.78				

24 JA8-2019 INDICATED BY SHADING

WARM DIM PERFORMANCE - 60° OPTIC - SOFT FOCUS LENS

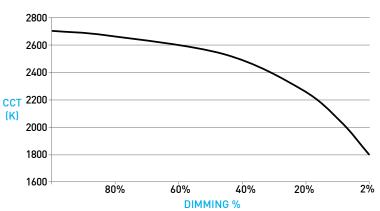
WARM DIM TO MIRROR INCANDESCENT DIMMING PROFILE

90W19E 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
ССТ (К)	2700	2650	2620	2520	2180	1950	1800
Light Output (Lm)	1129	903	790	564	225	112	22
Power (W)	23	18	16	11	4	2	.5
Efficacy (LPW)	49	49	49	49	49	49	49



WARM DIM TO MIRROR INCANDESCENT DIMMING PROFILE

90W31F 2700K - 1800K	Full on 100%	Dimmed to 80%	Dimmed to 70%	Dimmed to 50%	Dimmed to 20%	Dimmed to 10%	Dimmed to 2%
ССТ (К)	2700	2650	2620	2520	2180	1950	1800
Light Output (Lm)	1830	1464	1281	915	366	183	36
Power (W)	27	21	19	13	5	3	.5
Efficacy (LPW)	68	68	68	68	68	68	68





©2022 Lucifer[®] Lighting Company As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

DOWNLIGHT / HOUSING

ADJUSTABILITY

Aiming mechanism is integral to the housing, providing hot-aim tilt up to 40° and 365° rotation. 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 (see A) for section view).

🕑 LED

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

C OPTIC

Proprietary optic integrates Reflection, Refraction and TIR offering 10°, 15°, 25°, 40° & 60° beams.

01 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.

EFFECTS DEVICES

Soft focus lens included and sealed in Wet location option. Fixture is limited to 1 lens. Suction tool provided for removal of wet location baffles.

ADJUSTABLE HCL ASSEMBLY

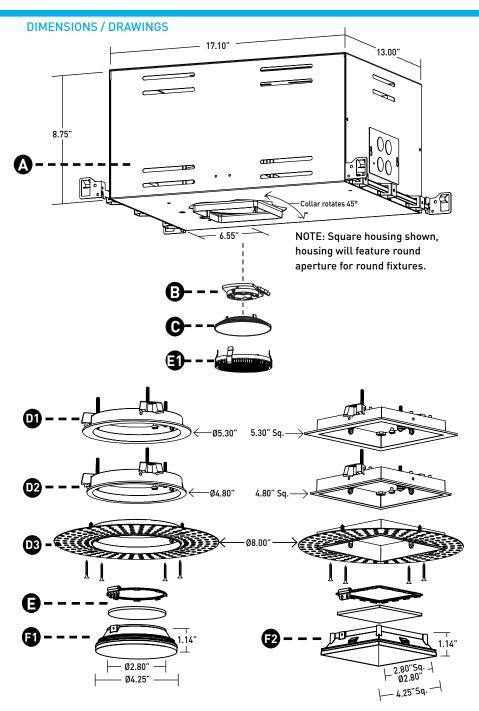
Honeycomb Louver and Soft Focus Lens attach directly to optic with clip-on lens retainer and adjusts with fixture. Only compatible with no lens baffle. Dry/Damp locations only.

ROUND BAFFLE

Die-cast removable baffle provides easy access to tilting mechanism and features 72° glare cutoff. Minimizes aperture glare and conceals view into housing; includes silicone gasket.

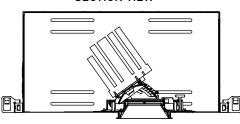
SQUARE / TRANSITIONAL BAFFLE

Die-cast removable baffle provides easy access to tilting mechanism and features 72° glare cutoff. Minimizes aperture glare and conceals view into housing; includes silicone gasket. Transitional baffle transitions from square aperture at ceiling plane to round aperture at light source.



A

SECTION VIEW





luciferlighting.com

©2022 Lucifer® Lighting Company

As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

DOWNLIGHT / HOUSING

TRIMLESS APPLIQUÉ DETAIL Integrated appliqué for plaster floating directly to baffle.

BUTTERFLY BRACKET ASSEMBLY

Adjustable height bracket assembly provided with ceiling thickness "T" and recommended for installations in T-Grid and with furring channel. Requires customer supplied 1/2" conduit, channel or furring cahnnel for mounting. Allows housing to be raised and lowered; ceiling thickness remains 0.5" to 1.0" max.

IC HOUSING

- For IC ceilings.
- CCEA, Airtight and Title 24 (JA8) listed.
- Accommodates max 2612 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 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.

REMOTE POWER SUPPLY

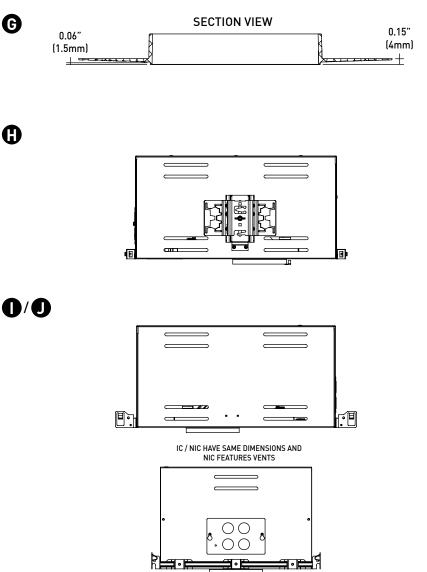
Provided with install Types "V", "W" and "D". Remote power supply provides additional driver options. See page 6 for maximum allowable secondary run lengths between PSF4-RMT and fixture. Must be installed in an accessible location.

HOUSING NOTES

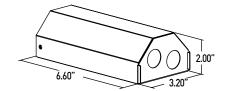
- 80C30B, 80C36B, 90C26B, 90C30B, 97C23B, 97C27B, and 90W19E: Do not install in environments where ambient temperatures exceed 40°C (104°F).
- 80C58B, 90C50B, 97C41B, and 90W31F: Do not install in environments where ambient temperatures exceed 35°C (95°F).
- Power supply compartment and all splice connections 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; 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 1.00".

K





24" Standard Maximum 46" Maximum with Extension Kit





©2022 Lucifer[®] Lighting Company

As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

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.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

	ELV	EC0		0-1	DA	ALI		
Power Supply	L23	LH1	AN4	LN2	EA2	LA2	ED1	LD1
Minimum °C	0°C	0°C	-20 °C	-20 °C	-20 °C	-20 °C	-20°C	-20 °C
Maximum °C	40°C	40 °C	40 °C	40°C	40°C	40 °C	40 °C	40°C
Dimming %	1.0%	1.0%	1.0%	1.0%	0.1%	0.1%	0.1%	0.1%

Note: For L23, LH1, AN4, EA2 and LA2 drivers consult chart on page 7 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

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

LISTING

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 High Flux Adjustable configurations are Buy American Act compliant.

WEIGHT

Fixture - 15lbs 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.



[DATE OF REV: 10172022]

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 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 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 Homeworks QS control unit	QSN-2ECO-S
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





©2022 Lucifer[®] Lighting Company As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.