Versatile, high-performance, and retrofittable downlights, in a precise, 4-inch profile, the most diminutive in the industry.

ORDERING INFORMATION - DOWNLIGHT FITTING

SHAPE	TRIM	RATING	FLANGE FINISH	BAFFLE FINISH	CRI/WATTAGE PACKAGE	ССТ	OPTIC (UGR)	INSTALL TYPE	CEILING THICKNESS	DRIVER	MEDIA
								EX	2		
F4R Round	MFD Microflange TFD Trimless FFD Standard Flange Transitional	1 IP20 Dry/Damp 2 IP64 Wet* *(Suction cup provided for Aim & Focus)	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 80511A 80+ CRI, 11W, Lumens Dlvd 1105 80515A 80+ CRI, 15W, Lumens Dlvd 1479 80521A 80+ CRI, 15W, Lumens Dlvd 2032 80530B 80+ CRI, 21W, Lumens Dlvd 2032 80530B 80+ CRI, 30W, Lumens Dlvd 2607 90515A 90+ CRI, 11W, Lumens Dlvd 2607 90515A 90+ CRI, 15W, Lumens Dlvd 1271 90521A 90+ CRI, 15W, Lumens Dlvd 1271 90521A 90+ CRI, 21W, Lumens Dlvd 1746 90530B 90+ CRI, 21W, Lumens Dlvd 2240 97511A 97+ CRI, 11W, Lumens Dlvd 833 97515A 97+ CRI, 15W, Lumens Dlvd 1116 97521A 97+ CRI, 21W, Lumens Dlvd 1533 97530B 97+ CRI, 21W, Lumens Dlvd 1533 97530B 97+ CRI, 21W, Lumens Dlvd 1533 97530B 97+ CRI, 30W, Lumens Dlvd 1533	24 24/00/K* *190+ CRI only. Not available for 30W package) 27 27 2700/K 30 3000/K 35 3500/K 40 4000/K	10 10°* [<13]	EX Export	2 7mm-63mm	UNIVERSAL (120-277V) AN3 eldoLED, ECOdrive 1.0% 0-10V, LOG LN1 eldoLED, ECOdrive 1.0% 0-10V, LIN EA1 eldoLED, SOL.0drive 0.1% 0-10V, LOG LA1 eldoLED, SOL.0drive 0.1% 0-10V, LIN ED1 eldoLED, SOL.0drive 0.1% DALI-2, LOG LD1 eldoLED, SOL.0drive 0.1% DALI-2, LOG	STANDARD MEDIA 04 Soft Focus Lens NL No Lens * "[Standard with 10° optic. Not available for IP64 Wet Location or Warm Dim] ALTERNATE MEDIA 02 Honeycomb Louver* *[Not available for IP64 Wet location or Warm Dim] 03 Clear Glass Lens* *[Not available for Warm Dim] 05 Frosted Glass Lens 8 Frosted Glass Lens
					WARM DIM 90W15A 90+ CRI, 15W Incandescent Profile: 2700K - 1800K Lumens Divd 924 Halogen Profile: 3000K - 1800K Lumens Divd 936 SEE PAGE 3 FOR DETAILED WARM DIM PROFILE COMPARISON.	WL 2700K - 1800K WD 3000K - 1800K	20 20° (<10)			0.1% DALI-2, LIN EX1 eldoLED, POWERdrive 0.1% DMX, LOG	Focus Lens Focus Lens 4 Wide Distribution Lens* * (Required and only available for 85° beam spread) 26 Frosted Linear Spread Lens
					TUNABLE WHITE 90T13B 90+ CRI, 13W Cool Profile: 5000K - 2700K Lumens Dlvd 982 Warm Profile: 4000K - 1800K Lumens Dlvd 991 90T22B 90+ CRI, 22W Cool Profile: 5000K - 2700K Lumens Dlvd 1559 Warm Profile: 4000K - 1800K Lumens Dlvd 1573	TH 5000K - 2700K TR 4000K - 1800K	15 15° <16)			TUNABLE WHITE POWER SUPPLIES (120-277V) DD1 eldoLED, DUALdrive 0.1% DALI-2, LOG	
					LUMENS DELIVERED REFLECT 3000K PAIRED WITH 20° OPTIC AND SOFT FOCUS LENS.		SEE PAGE 3 For Ugr Ratings				



R

PART NUMBER NOTES

Fitting ships as e.g., F4RFFD1-WHWH-90S11A2-3E2-AN3 Driver ships with fitting ٠

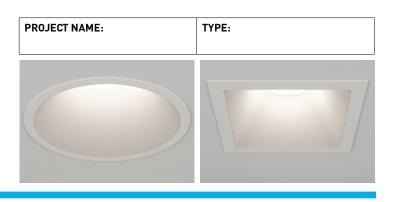
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ACCESSORIES

ALTERNATE MEDIA

IP20 Dry / Damp location only. IP64 Wet location requires alternate baffle.

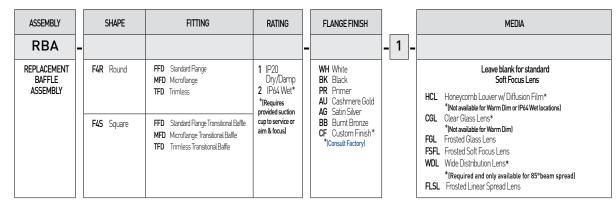
	I Contraction of the second seco
□ HCL-F4R-2	Honeycomb Louver w/ Diffusion Film* *(Not available for Warm Dim or IP64 Wet locations)
CGL-F4R-2	Clear Glass Lens*
	*(Not available for Warm Dim)
GL-F4R-2	Frosted Glass Lens
SFL-F4R-2	Soft Focus Lens
FSFL-F4R-2	Frosted Soft Focus Lens
U WDL-F4R-2	Wide Distribution Lens*
	*(Required and only available for 85° beam spread)
	Frosted Linear Spread Lens

□ FLSL-F4R-2 Frosted Linear Spread Lens

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

REPLACEMENT SUCTION TOOL

One included with every six fixtures designated IP64 Wet location. **F4-TOOL-SUCTION** Allows for removal of baffle with IP64 Wet location



REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

STATIC W	HITE	WARM DIM	TUNABLE	WHITE
□ R0-50-15-S □ R0-50-20-S □ R0-50-25-S □ R0-50-40-S □ R0-50-60-S	20° optic 25° optic 40° optic	 R0-50-20-W2 20° optic R0-50-25-W2 25° optic R0-50-40-W2 40° optic R0-50-60-W2 60° optic 	□ R0-50-15-T □ R0-50-20-T □ R0-50-25-T □ R0-50-40-T □ R0-50-60-T	20° optic 25° optic 40° optic

REPLACEMENT SUCTION TOOL

One included with every six fixtures designated Wet location. **F4-TOOL-SUCTION** Allows for removal of baffle with Wet location

DRIVE CURRENT SPECIFICS

		80S				90S			975				90W
	11A	15A	21A	30B	11A	15A	21A	30B	11A	15A	21A	30B	15A
Minimum Vf	30.5	30.5	30.5	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	39	39	39
Current mA	250	350	500	700	250	350	500	700	250	350	500	700	350
Wattage W	8.2	11.8	17.4	25.4	8.2	11.8	17.4	25.4	8.2	11.8	17.4	25.4	11.8



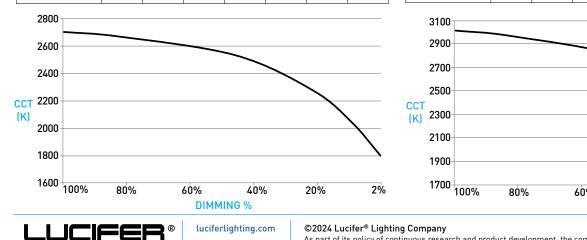
PERFORMANCE - 3000K

		10° (OPTIC	15° C	PTIC	20° 0	PTIC	25° (OPTIC	40° 0	PTIC	60° 0	PTIC	85° (OPTIC	ССТ	PUT MULT	CCT SCALE
LUMEN	WATTS		LENS	SOFT FO		SOFT FOC			CUS LENS	SOFT FO			CUS LENS		TRIBUTION			UUT SUALE
PACKAGE		DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	2400K		0.85
80S11A	11	-	-	899	82	1105	100	1063	97	942	86	1022	93	853	78	2700K		0.97
80S15A	15	1079	98	1226	82	1479	99	1429	95	1273	85	1376	92	1133	76	3000K		1.00
80S21A	21	-	-	1664	79	2032	97	1897	90	1731	82	1860	89	1545	74	3500K		1.03
80S30B	30	-	-	2217	74	2607	87	2474	82	2204	73	2408	80	1984	66	4000K		1.08
90S11A	11	-	-	772	70	949	86	913	83	809	74	878	80	733	67	MEDIA	LIGHT LOS	SS FACTOR
90S15A	15	930	85	1053	70	1271	85	1228	82	1094	73	1182	79	973	65	MEDI	A	LIGHT LOSS FACTOR
90S21A	21	-	-	1429	68	1746	83	1629	78	1487	71	1598	76	1328	63	NO LE	NS	1.06
90S30B	30	-	-	1905	64	2240	75	2125	71	1893	63	2069	69	1704	57	CGL		1.00
97S11A	11	-	-	678	62	833	76	802	73	711	65	771	70	643	58	SFL		1.00
97S15A	15	802	73	925	62	1116	74	1078	72	961	64	1038	69	854	57	FGL		0.89
97S21A	21	-	-	1255	60	1533	73	1431	68	1306	62	1403	67	1166	56	FSFL	-	0.81
97S30B	30	-	-	1673	56	1967	66	1866	62	1662	55	1817	61	1496	50	FLSI	-	0.82
90W15A																HCL		0.73
(WL 27K-18K	15	-	-	-	-	924	62	881	59	795	53	860	57	702	47	TUNABL	E WHITE I	MULTIPLIER
90W15A (WD 30K-18K	15	-	-	-	-	936	62	897	60	803	54	867	58	730	49	сст	5000K- 2700K	
90T13B (40K-18K)	13	-	-	814	63	991	76	957	74	849	65	921	71	731	56	5000K	1.16	-
90T13B	10				(0	000		0/0		0/1	(5	010	70	80/	F (4000K	1.08	1.14
(50K-27K)	13	-	-	806	62	982	76	948	73	841	65	913	70	724	56	3500K	1.04	1.07
90T22B (40K-18K)	22	-	-	1258	57	1573	72	1499	68	1346	61	1464	67	1167	53	3000K	1.00	1.00
90T22B (50K-27K)	22	-	-	1247	57	1559	71	1485	68	1334	61	1450	66	1157	53	2700K	0.96	0.92
(JUK-27K)																2400K	-	0.84
							ι	JNIFIED GL	ARE RATIN	G						1800K	-	0.69
						20° 0												

10° OPTIC	15° OPTIC	20° OPTIC	25° OPTIC	40° OPTIC	60° OPTIC	85° OPTIC
NO LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	SOFT FOCUS LENS	WIDE DISTRIBUTION
<13	<16	<13	<13	<16	<13	

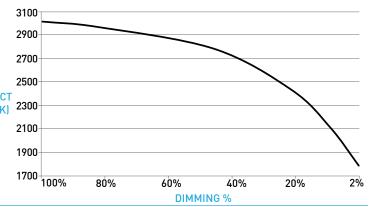
WARM DIM PERFORMANCE - 20° OPTIC - SOFT FOCUS LENS

v	VARM DIM T	O MIRROR I	NCANDESC	ENT DIMMI	NG PROFILI	E		
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	Γ
Light Output (Lm)	924	739	646	462	184	92	18	
Power (W)	15	12	10.5	7.5	3	1.5	.3	
Efficacy (LPW)	62	62	62	62	62	62	62	ſ



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)	3000	2950	2920	2775	2375	2000	1800
Light Output (Lm)	936	748	655	468	187	93	18
Power (W)	15	12	10.5	7.5	3	1.5	.3
Efficacy (LPW)	62	62	62	62	62	62	62



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pg. 3

DOWNLIGHT FITTING

A BAFFLE

ROUND

Die-cast deep baffle features 60° glare cutoff. Minimizes aperture glare and conceals view into housing; includes silicone gasket.

TRANSITIONAL

Die-cast deep baffle transitions from square aperture at ceiling plane to round aperture at light source and features 60° glare cutoff. Minimizes aperture glare and conceals view into housing; includes silicone gasket.

RETENTION

Integrated metal arm clamps located within fixture body allow discreet flange design, while accommodating varying ceiling thicknesses from 7mm to 64mm. Snap-on spacer clips (3X) supplied for ceiling thickness below 13mm only.

STANDARD FLANGE PROFILE

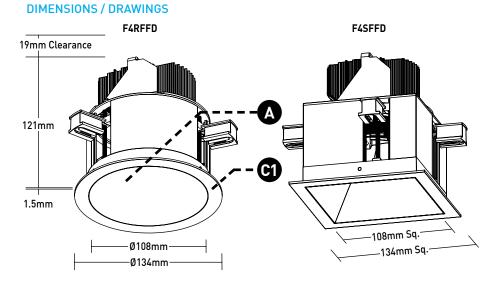
Provides 22mm total contractor (goof) allowance with 13mm flange. Thickness measures 1.5mm. P64 Wet location features integral silicone gasket.

MICROFLANGE PROFILE

Provides industry standard 11mm total contractor (goof) allowance with 7mm flange. Thickness measures 1.5mm. IP64 Wet location features integral silicone gasket.

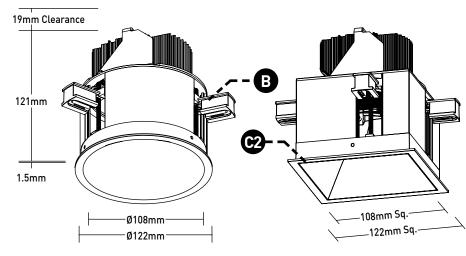
C3 TRIMLESS PROFILE

Installs totally flush with the ceiling with no visible trim. Features integrated appliqué for plaster floating directly to the baffle. Not recommended for stucco applications.



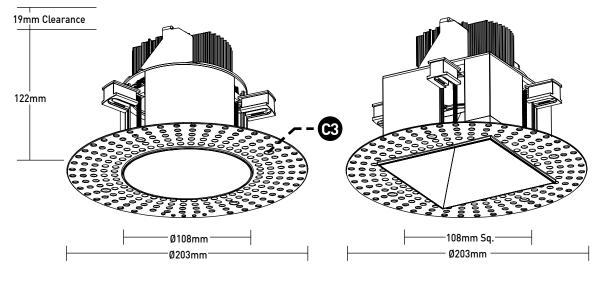
F4RMFD

F4SMFD





F4STFD





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DOWNLIGHT FITTING

OPTIC

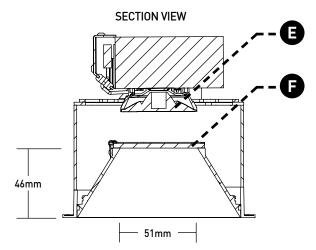
Proprietary optic integrates Reflection, Refraction and TIR offering 10°, 15°, 15°, 25°, 40° & 60° beams.

MEDIA

Soft focus lens included and sealed in IP64 Wet location option. Fixture is limited to 1 media. Suction tool provided for removal of IP64 Wet location baffles.

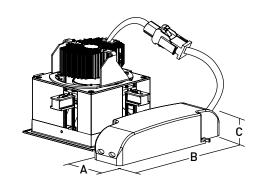
CLEARANCE / POWER SUPPLY

- **6** FITTING WITH NON-IC TETHERED POWER SUPPLY
- Requires 113mm diameter cutout.
- Tethered power supply protected wiring and quickconnect plug between fitting and power supply.
- Minimum 19mm clearance from top of fitting.
- Minimum setback from combustible and noncombustible materials of 168mm radius from fitting centerline; minimum 76mm from surfaces of power supply if not situated within above noted radius from fitting centerline.
- Minimum additional 76mm setback from insulation material with max R-Value 30 from any surface of downlight fitting assembly.
- Minimum additional 152mm setback from polycell spray foam insulation with max R-Value 60 from any surface of downlight fitting assembly.
- Consult factory for spacing requirements for any installations exceeding R-Value 60.
- Do not install in environments where ambient temperatures exceed 40°C (104°F).



DIMENSIONS / DRAWINGS

G



P	OWER SUPPL	LY DIMENSIONS						
Model	А	В	С					
AN3								
LN1								
EA1	41mm	210mm	34mm					
LA1	4111111	21011111	3411111					
ED1								
LD1								
EX1	76mm	152mm	30mm					
DD1	76mm	130mm	30mm					



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TECHNICAL

CONSTRUCTION

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

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

		0-1	10V			DMX		
Power Supply	AN3	LN1	EA1	LA1	ED1	LD1	DD1	EX1
Minimum °C	-20 °C	-20 °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%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Note: For EA1 and LA1 drivers consult chart on page 7 to confirm appropriate dimming curve for compatibility with selected control.

LISTING

CE listed for IP20 Dry / Damp and IP64 Wet locations. NEMA 410 Compliant. U.S. Patent: 10,344,958

WEIGHT

Fitting - 2.6 lbs max Driver - 0.4 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

1.03/15/2021: UPDATED HIGH FLUX STATIC WHITE PHOTOMETRICS.

2.03/15/2021: REMOVED HIGH FLUX 97+ CRI 3500K OFFERING.

3.03/15/2021: REMOVED 15 AND 22 DEGREE OPTIC OFFERINGS FROM HIGH FLUX AND ADDED 28 DEGREE OPTIC OFFERING.

4. 10/17/2022: REMOVED 90W13A 3200K-1800K WARM DIM AND ADDED

90W12A 3000K-1800K WARM DIM.

5.08/08/2023: ADDED NEW LED AND OPTIC SYSTEM

6.02/08/2024: ADDED 2400K, AND WARM PROFILE TUNABLE WHITE.



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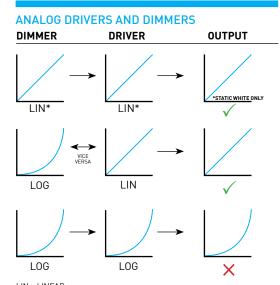
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DIMMING COMPATIBILITY

eldoLED DRIVER COMPATIBILITY

Power supply EA1 / LA1 Dimmer / Switch Control Manufacturer	Family/Model #
Busch-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IP710-DLX
Lightolier Controls	ZP600FAM120
Lutron Electronics	Nova T® - NTFTV
Lutron Electronics	Diva® - DVTV
Lutron Electronics	Nova® - NFTV
Merten	5729
Pass & Seymour	CD4FB-W
The Watt Stopper	DCLV1
Sensor Switch	nIO EZ
Synergy	ISD BC
Power supply EA1 / LA1 Lighting Control System Manufacturer	Family/Model #
Lutron Electronics	GrafixEye® GRX-TVI w GRX3503
Lutron Electronics	Energy Savr Node™ - QSN-4T16-S
Lutron Electronics	TVM2 Module
Crestron®	GLX-DIMFLV8
Crestron®	GLXP-DIMFLV8
	02.0 000 200
Crestron®	GLPAC-DIMFLV4-*
Crestron® Crestron®	
	GLPAC-DIMFLV4-*
Crestron®	GLPAC-DIMFLV4-* GLPAC-DIMFLV8-*
Crestron® Crestron®	GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLVEX-PM
Crestron® Crestron® Crestron®	GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM
Crestron® Crestron® Crestron® Crestron®	GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLV8-* GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV2EX-PM
Crestron® Crestron® Crestron® Crestron® Crestron®	GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM DIN-A08
Crestron® Crestron® Crestron® Crestron® Crestron® Crestron®	GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM DIN-A08 DIN-4DIMFLV4





*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM OR TUNABLE WHITE



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