- Max output of 2950lm at 80+ CRI
- Deep regress baffle options in round and square featuring UGR as low as 10
- Concrete Pour applications now available

PROJECT NAME:	TYPE:





ORDERING INFORMATION - FIXTURE

SHAPE	RATING	TYPE	FINISH	BAFFLE FINISH	CRI	WATTAGE	ССТ	OPTIC (UGR)	MEDIA	INSTALL TYPE	CEILING THICKNESS	DRIVER
F4RD Round Deep Regres F4SD Square Deep Regres F4TD Square Transition Deep Regres	Dry/Damp 2 IP64 Wet* * (Suction cup provided for aim and focus)	A Adjust- able F Fixed	POWDERCOAT MICROFLANGE WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black	POWDERCOAT WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer	STATIC WHITE 80S 80+ 90S 90+ 97S 97+	STATIC WHITE 11A 11W - 1209 Lm 15A 15W - 1610 Lm 15C 15W - 540 Lm* *[For use with 10" optic only] 21A 21W - 2175 Lm 30B 30W - 2950 Lm	24 2400K* * 190+ CRI 11A, 15A, and 15C only) 27 2700K 30 3000K 35 3500K 40 4000K	10 10°* (<10) * [15C packages only] 15 15° (<16) 20 20° (<10) 25 25° (<10) 40 40° (<10) 85 85°* (>19) * [Requires -07 WDL effects device]	04 Soft Focus Lens* * (Required for 10* Optic) ALTERNATE MEDIA	EX Export CONCRETE POUR KC Integral Driver KR Remote Driver	1 1 6mm-54mm	IG1 eldoLED, SOLOdrive 0.1%
			PR Primer CF Custom Finish* *(Consult Factory) TRIMLESS TG Trimless Gypsum 1.5mm* *(Not available for concrete pour installations) TM Trimless Millwork* *(Not available for concrete pour installations)	CF Custom Finish* *(Consult Factory)	WARM DIM 90W 90+ TUNABLE WHITE 90T 90+	WARM DIM 15A 15W Incandescent Profile: 2700K - 1800K 1022 Lm Halogen Profile: 3000K - 1800K 1031 Lm SEE PAGE 4 FOR DETAILED WARM DIM PROFILE COMPARISON. TUNABLE WHITE 15B 15W Warm Profile: 4000K - 1800K 1209 Lm Cool Profile: 5000K - 2700K 1198 Lm 22B 22W Warm Profile: 4000K - 1800K 1696 Lm Cool Profile: 5000K - 2700K	WL 2700K- 1800K WD 3000K- 1800K TR 4000K- 1800K TH 5000K- 2700K	20 20° (<16) 25 25° (<10) 40 40° (<10) 60 60° (<13) 85 85°* (>19) * (Requires -07 WDL effects device) 15 15° (<16) 20 20° (<10) 25 25° (<10) 40 40° (<10) 60 60° (<13) 85 85°* (>19) * (Requires -07 WDL effects device)	Distribution Lens* * (Required and only available for 85° optic) HS Adjustable Honeycomb Louver and Soft Focus Lens* * (Not available for IP64 Wet Location, 21W or 22W, Fixed Fixtures, or Warm Dim) NL No Lens*			120V-277V REMOTE DRIVER NOT ACCESSIBLE THROUGH CEILING CUTOUT
	(WH) White Powder Coat (AU) Cashmere Gold Powder Coat	Architectu Powd (E Burnt	er Coat Po BB) Bronze	(AG) atin Silver wwder Coat (BK) Black bwder Coat		LUMEN DELIVERED OUTPUTS REFLECT 80+ CRI / 3000K PAIRED WITH 60° OPTIC AND SOFT FOCUS LENS			* (Not available for IP64 Wet Location or Warm Dim)			





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

ACCESSORIES

ROUND / SQUARE TRANSITIONAL ALTERNATE MEDIA

Dry/Damp location only.

Wet location requires alternate baffle.

☐ CGL-F4RD Clear Glass Lens* * (Not available for Warm Dim)

☐ FGL-F4RD Frosted Glass Lens

☐ **SFL-F4RD** Soft Focus Lens

☐ FSFL-F4RD Frosted Soft Focus Lens

□ WDL-F4RD Wide Distribution Lens*

* (Required and only available for 85° beam spread)

☐ FLSL-F4R Frosted Linear Spread Lens

SQUARE ALTERNATE MEDIA

Dry/Damp location only.

Wet location requires alternate baffle.

☐ CGL-F4SD Clear Glass Lens*

* (Not available for Warm Dim)

☐ FGL-F4SD Frosted Glass Lens

☐ SFL-F4SD Soft Focus Lens

☐ FSFL-F4SD Frosted Soft Focus Lens □ WDL-F4SD Wide Distribution Lens*

* (Required and only available for 85° beam spread)

☐ FLSL-F4SD Frosted Linear Spread Lens

ADJUSTABLE HCL ASSEMBLY

Dry / Damp location only.

□ **OLR-F4RD1-SFL-HCL** Adjustable Honeycomb Louver and Soft Focus Lens*

* (Not available for IP64 Wet Location, 21W or 22W, Fixed Fixtures, or Warm Dim)

REPLACEMENT BAFFLE ASSEMBLY (INCLUDES MEDIA)

ASSEMBLY	SHAPE	TYPE	RATING	FINISH	MEDIA
RBA	_	- AF	-	-	-
REPLACEMENT BAFFLE ASSEMBLY	F4RD Round Shallow Regress F4SD Square Shallow Regress F4TD Square Transitional Shallow Regress	AF Adjustable/Fixed	1 IP20 Dry/Damp 2 IP64 Wet* *Requires provided suction cup to service or aim & focus)	WH White AB Architectural Bronze AG Satin Silver AU Cashmere Gold BB Burnt Bronze BK Black PR Primer CF Custom Finish *(Consult Factory)	04 Soft Focus Lens* * (Required for 10° optic) 01 Honeycomb Louver* * (Not available for IP64 Wet Location, adjustable fixtures, or Warm Dim) 02 Clear Glass Lens* * (Not available for Warm Dim) 03 Frosted Glass Lens 05 Frosted Soft Focus Lens 06 Frosted Linear Spread Lens 07 Wide Distribution Lens* * (Required and only available for 85° optic) NL No Lens * * (Not available for IP64 Wet Location or Warm Dim

REPLACEMENT OPTICS

Interchangeable optics accessible through fixture aperture.

WARM DIM TUNABLE WHITE □ **RO-50-15-S** 15° optic ☐ **RO-50-20-W** 20° optic □ **RO-50-15-T** 15° optic

- □ **RO-50-20-S** 20° optic □ **RO-50-25-W** 25° optic □ **RO-50-40-W** 40° optic **□ R0-50-25-S** 25° optic
- □ **RO-50-40-S** 40° optic □ **RO-50-60-W** 60° optic □ **RO-50-60-S** 60° optic

☐ **RO-50-20-T** 20° optic □ **R0-50-25-T** 25° optic □ **R0-50-40-T** 40° optic ☐ **RO-50-60-T** 60° optic

REPLACEMENT SUCTION TOOL

One included with every six fixtures designated Wet location.

☐ **F4-T00L-SUCTION** Allows for removal of baffle with Wet location



PERFORMANCE - 3000K

PACKAGE	WATTS		OPTIC LENS		PTIC CUS LENS		OPTIC CUS LENS		PTIC CUS LENS		PTIC CUS LENS		PTIC CUS LENS	85° C WIDE DIST	PTIC RIBUTION
TACTACE	, TALLS	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW	DLVD.	LPW
80S11A	11	-	-	999	91	1129	103	1189	108	1037	94	1209	110	992	90
80S15A	15	540	36	1346	90	1519	101	1478	99	1342	89	1610	107	1336	89
80S21A	21	-	-	1864	89	2036	97	1997	95	1814	86	2175	104	1818	87
80S30B	30	-	-	2449	82	2792	93	2690	90	2428	81	2950	98	2495	83
90S11A	11	-	-	858	78	970	88	1021	93	891	81	1038	94	852	77
90S15A	15	465	31	1156	77	1305	87	1270	85	1153	77	1383	92	1148	77
90S21A	21	-	-	1601	76	1749	83	1716	82	1558	74	1869	89	1562	74
90S30B	30	-	-	2104	70	2399	80	2311	77	2086	70	2534	84	2143	71
97S11A	11	-	-	754	69	851	77	897	82	72	71	912	83	748	68
97S15A	15	401	26	1015	68	1146	76	1115	74	1012	67	1214	81	1008	67
97S21A	21	-	-	146	67	1536	73	1507	72	1368	65	1641	78	1371	65
97S30B	30	-	-	1847	62	2106	70	2029	68	1832	61	2225	74	1882	63
90W15A (WL 27K-18K)	15	-	-	-	-	994	66	937	62	833	56	1022	68	878	59
90W15A (WD 30K-18K)	15	-	-	-	-	995	66	938	63	838	56	1031	69	885	59
90T15B (40K-18K)	15	-	-	1082	72	1140	76	1097	73	991	66	1209	81	999	67
90T15B (50K-27K)	15	-	-	1072	71	1130	75	1087	72	982	65	1198	80	990	66
90T22B (40K-18K)	22	-	-	1497	68	157+	72	1504	68	1374	62	1696	77	1394	63
90T22B (50K-27K)	22	-	-	1483	67	1561	71	1491	68	1362	62	1680	76	1381	63

75+ LPW configurations comply with residential Part L 95+ LPW configurations comply with commercial Part L

MAX UNIFIED GLARE RATING

10° OPTIC NO LENS	15° OPTIC SOFT FOCUS LENS	20° OPTIC SOFT FOCUS LENS	25° OPTIC SOFT FOCUS LENS	40° OPTIC SOFT FOCUS LENS	60° OPTIC SOFT FOCUS LENS	85° OPTIC WIDE DISTRIBUTION
<10	<16	<10	<10	<13	<13	>19

*UGR VALUES REFLECT WHITE BAFFLE AND 30 WATTS, LOWER UGR VALUES AVAILABLE WITH DIFFERENT FINISHES AND LOWER WATTAGES.

OUTPUT MULTIPLIER

ССТ	CCT SCALE
2400K	0.85
2700K	0.97
3000K	1.00
3500K	1.03
4000K	1.08

TUNABLE WHITE MULTIPLIER

сст	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

MEDIA LIGHT LOSS FACTOR

MEDIA	LIGHT LOSS FACTOR
NO LENS	1.06
CGL	1.00
SFL	1.00
FGL	0.89
FSFL	0.81
FLSL	0.82
HCL	0.73

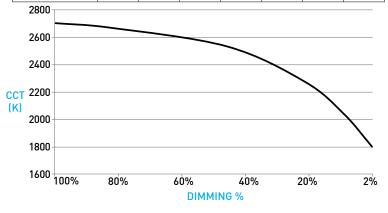
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pg. 3

WARM DIM PERFORMANCE - 60° OPTIC - SOFT FOCUS LENS

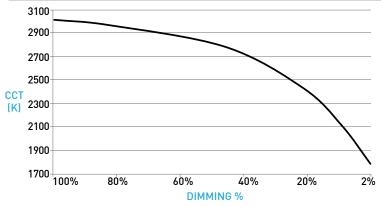
INCANDESCENT DIMMING PROFILE

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)	1022	817	715	511	204	102	20
Power (W)	15	12	10.5	7.5	3	1.5	.3
Efficacy (LPW)	68	68	68	68	68	68	68



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)	1031	824	721	515	206	103	20
Power (W)	15	12	10.5	7.5	3	1.5	.3
Efficacy (LPW)	69	69	69	69	69	69	69



NOTE: LIN-TO-LIN 0-10V PAIRING NOT COMPATIBLE WITH WARM DIM.

DOWNLIGHT FITTING

A ADJUSTABILITY

Hot-aim tilt up to 40° and 361° rotation with Philips screwdriver, features 5° tilt increment indicators. Sliding pivot point optimizes center beam, ensuring unclipped beam of 15° at 40° tilt and 25° at 30° tilt.

B RETENTION

Integrated metal arm clamps located within fixture body allow discreet flange design, while accommodating varying ceiling thicknesses from 6mm to 54mm. Snapon spacer clips (3X) supplied for ceiling thickness below 13 mm only.

OPTIC

Robust light engine with optimized optic pairing integrates Reflection, Refraction, and TIR offering 10°, 15°, 20°, 25°, 40° & 60° beams.

10° FIELD REDUCER

Provided with 10° optic. Pairs Soft Focus Lens, Field Reducer, and Honeycomb Louver to deliver tight 10° beam while reducing field angle by 30%.

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. Specified as "HS" Effects Device

■ MICROFLANGE PROFILE

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

6 TRIMLESS GYPSUM 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.

♠ EFFECTS DEVICES / LENS RETAINER

Fixture is limited to 1 effects device installed on the baffle, see Section E for Adjustable HCL assembly. Wet location effects device is sealed in place on baffle, suction tool provided for removal of baffle. Lens retainer allows effects devices to be changed in Dry /Damp locations.

ROUND / SQUARE BAFFLE

Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 60° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

SQUARE TRANSITIONAL BAFFLE

Transitions from square aperture at ceiling to round aperture at light source. Die-cast removable baffle provides easy access to adjustment mechanisms for tilt and rotation. Features 60° glare cutoff, minimizing aperture glare and concealing view into housing. Includes gasket, mitigating light leak.

DIMENSIONS / DRAWINGS ADJUSTABLE FIXED DEEP REGRESS DEEP REGRESS 56mm TALLER HEAT SINK 56mm USED FOR 21+ W 143mm 107mm ROUND **SQUARE** Ø122mm 122mm Ø203mm Ø203mm Ø51mm -51mm ⊢ Ø51mm 46mm 46mm 46mm Ø108mm 108mm 108mm

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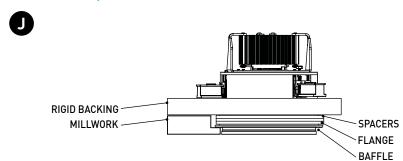
DOWNLIGHT FITTING

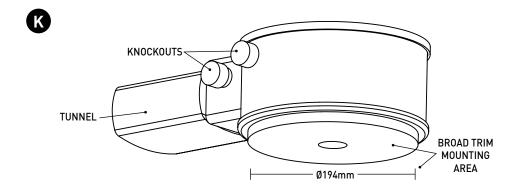
TRIMLESS MILLWORK PROFILE / SPACERS No visible flange, installs totally flush with millwork. Requires rigid backing for installation. Includes (1) 1.5mm spacer and (5) 3mm spacers.

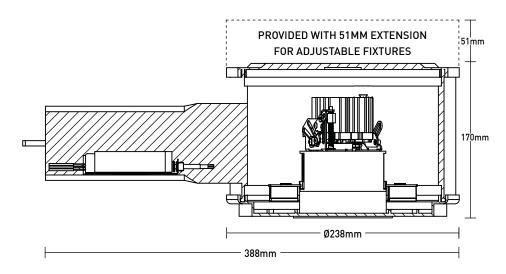
CONCRETE POUR HOUSING / PROFILE

- Provided with install types "KC and KR".
- Ships separate from downlight and power supply.
- Features 4 conduit entries compatible with 20mm and 25mm ENT. Includes tunnel to accommodate installation of power supply.
- Includes tunnel to accommodate installation of power supply.
- Features broad mounting tolerance area for trim location.

DIMENSIONS / DRAWINGS





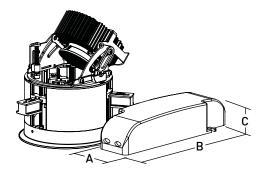


POWER SUPPLY

FITTING WITH NON-IC TETHERED POWER SUPPLY

- Requires 113mm cutout.
- Features quick-connect 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).





POWER SUPPLY DIMENSIONS									
Model A B C									
IG1	IG1								
IN1	41mm	210mm	34mm						
ID1	ID1								
DD1	76mm	130mm	30mm						



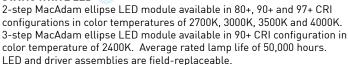
TECHNICAL

CONSTRUCTION

Downlight: Painted finishes are granulated powder coat. Forged

aluminum heat-sink. Appliqué: Zinc alloy.





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	IOV	DAI	LI-2
Power Supply	IG1	IN1	ID1	DD1
Minimum °C	-20°C	-20°C	-20°C	-20°C
Maximum °C	40 °C	40 °C	40 °C	40 °C
Dimming %	0.1%	0.1%	0.1%	0.1%

Note: For IG1 and IN1 drivers consult chart on page 9 to confirm appropriate dimming curve for compatibility with selected control.

MAXIMUM ALLOWABLE REMOTE DRIVER WIRING DISTANCES

	WIRE AWG				
DRIVER	12	14	16	18	20
IG1, IN1, ID1, DD1	-	-	118'	72	46'

LISTING

CE Listed for IP20 Dry / Damp and IP64 Wet locations. NEMA 410 Compliant.

U.S. Patent: 10,317,066

DECLARE

LBC Red List Approved.

Fixture - 3.1 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. Consult website for full warranty terms and conditions.







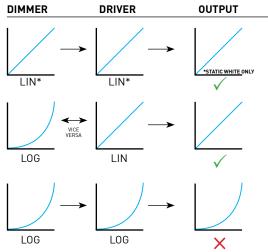
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DIMMING COMPATIBILITY

eldoLED DRIVER COMPATIBILITY

Power supply IG1 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 IN1	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				
	1 - 1				

ANALOG DRIVERS AND DIMMERS



LIN = LINEAR

LOG = LOGARITHMIC

*LIN-TO-LIN NOT COMPATIBLE FOR WARM-DIM

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

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