

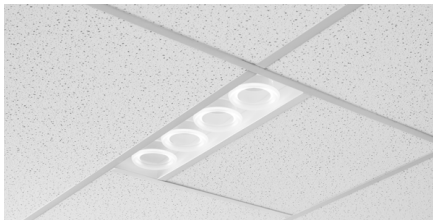
FLUXWERX®

SPECIFICATION DATA LOOP RECESSED (LR1)

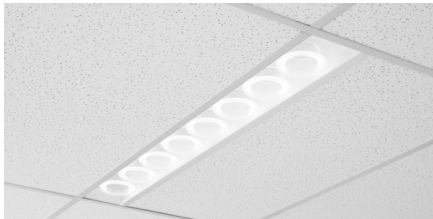


2' x 2' | 9 OPTICS

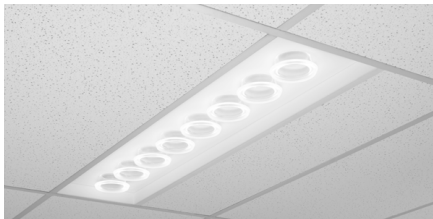
2' x 2'



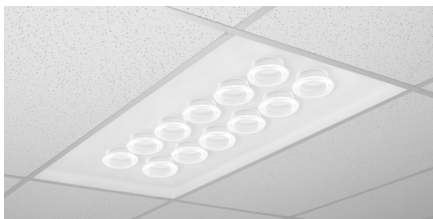
6" x 2' | 4 OPTICS



6" x 4' | 8 OPTICS



1' x 4' | 8 OPTICS



2' x 4' | 12 OPTICS

CATALOG

PROJECT

NOTES

PERFORMANCE FOCUS

2x2, 80 CRI 4000 K (LR122x40)

	Energy (W)	Light (lm)	Efficacy (lm/W)
A	19 W	2700	149
B	23 W	3400	146
C	29 W	4050	143
D	38 W	5350	138

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L70 Estimate
< 2	> 54,000	> 200,000

Nominal values, refer to back pages for full performance data.

FEATURES

- Fluxwerx radial Anidolic optics provide a precisely controlled 360° symmetrical batwing distribution with no view of the LED point source.
- Complete family of recessed configurations for a multitude of applications and spaces: 1x1, 1x4, 2x2, 2x4, plus 6"x2 and 6"x4.
- Companion Loop Suspended family allows for an aesthetically connected design language.
- Suitable for T-Bar or Drywall ceilings with a Trim or Trimless Flange. 6" wide versions are compatible with TechZone™ and USG Logix™ ceiling systems.
- The light distribution and high efficacies combine to allow wide fixture spacing with ample general illumination at energy densities less than 0.4 W/ft².



SPECIFICATION DATA

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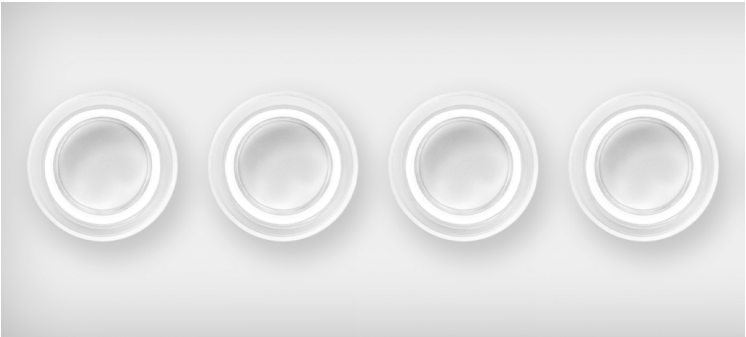
ORDER GUIDE

1	2	3	4	5	6	OPTIONS	CONTROLS
LR1							

1	FAMILY	2	SIZE	3	ENERGY ¹	4	CRI-CCT	5	DRIVER
LR1	Loop Recessed	62	6" x 2'	A	12 W	30	80 CRI 3000 K	F1	Non-Dim
				B	15 W	35	80 CRI 3500 K	F2	0-10 V Dim 3%
				C	19 W	40	80 CRI 4000 K	F4	Line Voltage Dim (Fwd/Rev) 3% 120 V
		64	6" x 4'	A	19 W	93	90 CRI 3000 K	E1	eldoLED ECO 0-10 V Dim 1%
		14	1' x 4'	B	23 W	90	90 CRI 3500 K	E2	eldoLED SOLO 0-10 V Dim 0.1%
		22	2' x 2'	C	29 W	94	90 CRI 4000 K	E3	eldoLED ECO DALI-2 DT6 Dim 1%
		24	2' x 4'	D	38 W			E4	eldoLED SOLO DALI-2 DT6 Dim 0.1%
								L1	Lutron Hi-Lume 1% EcoSystem (LDE1)
				¹ Nominal input power. Add 4 W for 347 V with E1-4/L1.					

6	VOLTAGE	OPTIONS	CONTROLS
M	120-277 V	B Battery Pack ⁴	TYPE & LOCATION ⁶
1	120 V ²	C Chicago CCEA	R Remote Sensor / Controller on Ceiling V Controller on Enclosure / Plenum Side
2	277 V ²	F 6' Flex Whip	
3	347 V ³	H Emergency Switching ^{4,5} (GTD or Controller)	
		J1 Surface Mount Enclosure (2x2)	
		K1 Drywall Flange Kit – Trim	
		K2 Drywall Flange Kit – Trimless	BRAND & PROTOCOL ⁶
			N1 Acuity nLight Wired ⁷
			N3 Acuity nLight Air RPP20 ⁷
			E1 Enlighted Smart Sensor ⁸
			L1 Lutron Athena Wireless
			M1 Legrand Wattstopper PLUS
			V1 Leviton Intellect Wireless
² Fixed voltage only for (F4) Line Dim Driver or nLight controls.		⁴ BP & GTD available for 120-277 V.	⁶ Controls selection may be limited by version, protocol or other features – see Controls page.
³ 347 V transformer for drivers E1-4/L1.		⁵ GTD not compatible with (F4) Line Dim driver.	⁷ nLight: Controller (V) only. ⁸ Enlighted: Sensor/Controller (R) only.

RADIAL ANIDOLIC OPTIC

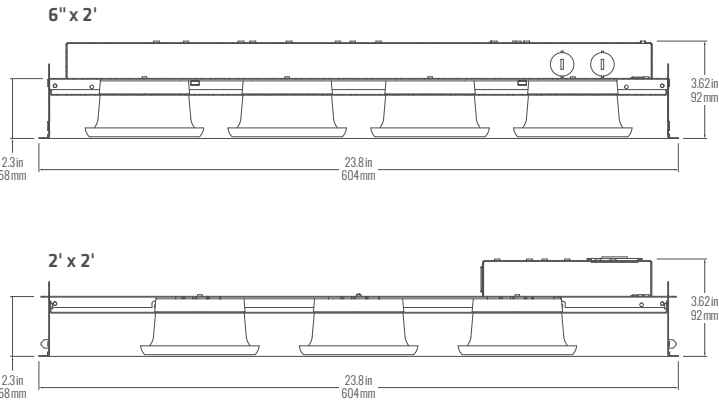


SURFACE MOUNT ENCLOSURE (2x2)

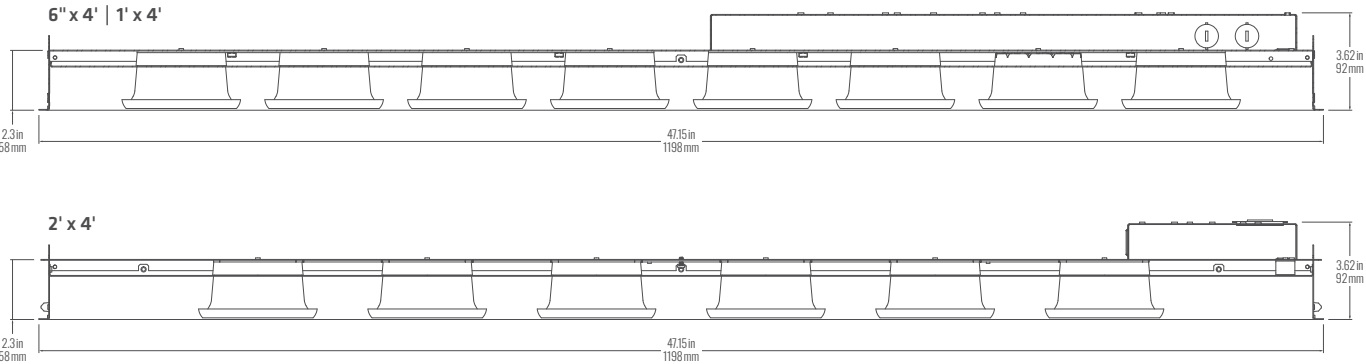
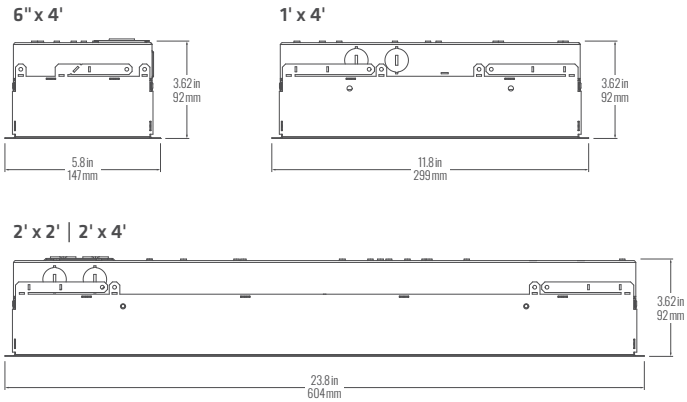


DIMENSIONS

CROSS SECTION



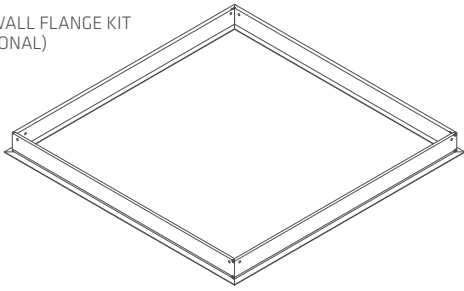
END VIEW



SPECIFICATION DATA
LOOP RECESSED (LR1)

CEILING INTEGRATION

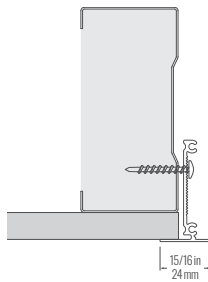
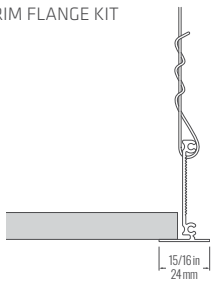
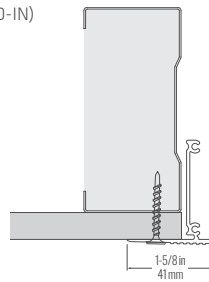
DRYWALL

DRYWALL FLANGE KIT
(OPTIONAL)

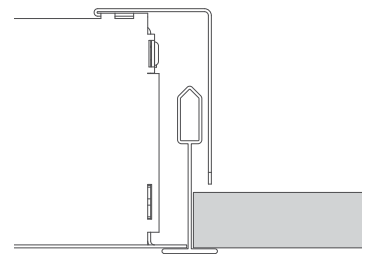
CEILING CUT-OUT

(62)	6" x 2'	6.5" x 24.5"	(165 x 622 mm)
(64)	6" x 4'	6.5" x 48.5"	(165 x 1232 mm)
(14)	1' x 4'	12.5" x 48.5"	(318 x 1232 mm)
(22)	2' x 2'	24.5" x 24.5"	(622 x 622 mm)
(24)	2' x 4'	24.5" x 48.5"	(622 x 1232 mm)

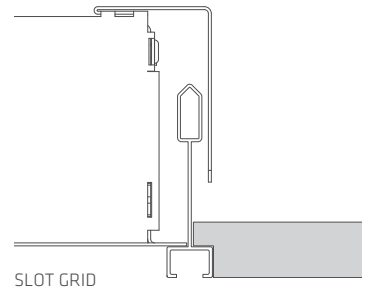
TRIM FLANGE KIT

TRIMLESS (MUD-IN)
FLANGE KIT

GRID



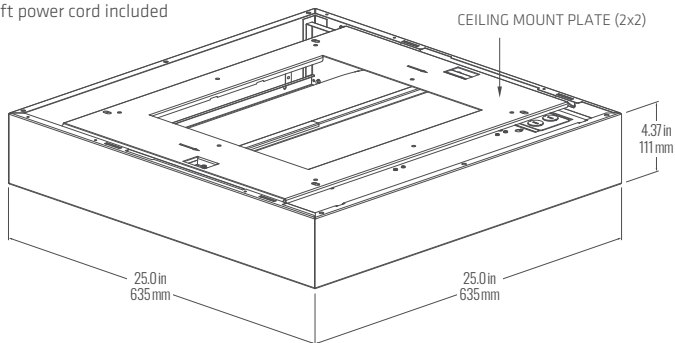
FLAT GRID



SLOT GRID

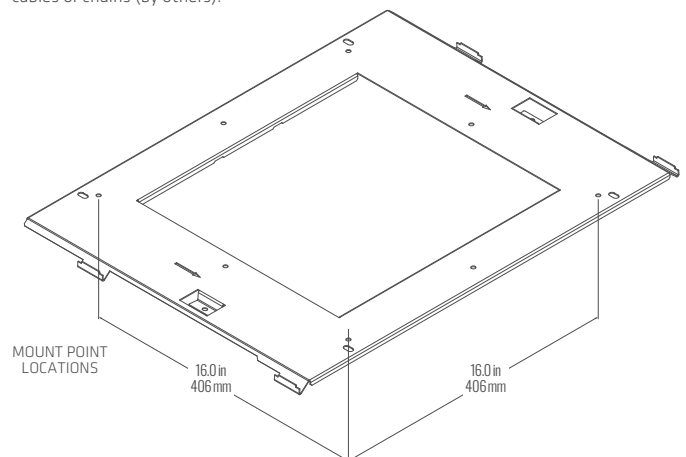
SURFACE 2' x 2'

(J1) SURFACE MOUNT ENCLOSURE (2x2)

White Finish
6 ft power cord included

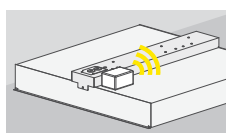
CEILING MOUNT PLATE (2x2)

Attach to structure with bolts, threaded rod, cables or chains (by others).

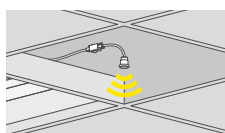


CONTROLS & SENSORS

LUMINAIRE INTEGRATION



V
Controller,
Enclosure/Plenum Side

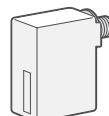


R
Sensor,
Remote/on Ceiling

(N1) Acuity
nLight Wired



nLight wired, digital network.
Model: nPS-80-EZ or nPS-80-EZ-ER
(with H – Emergency Switching)

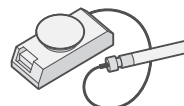


VN1 nLight Wired Controller, Enclosure/Plenum Side

(N2, N3) Acuity
nLight Air



Acuity nLight wireless network
interfaces.
Models: rIO, rPP20

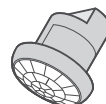


VN2 nLight rIO Controller, Enclosure/Plenum Side
VN3 nLight rPP20 Controller, Enclosure/Plenum Side

(E1) Siemens
Enlighted



Siemens Enlighted wireless smart
sensor-controllers.
Model: SU-5E-CL



RE1 Enlighted Smart Sensor, Remote/on Ceiling

(L1) Lutron
Athena



Lutron Athena wireless smart
controllers & sensors.
Models: A-WN-D01-RF, A-WN-D01-OCC
For YL1 and SL1:
Default Athena color to match fixture/canopy color
Canopy Athena
WH WH
SV BK
BK BK
For VL1 and RL1: default WH

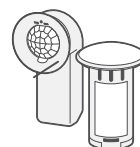


VL1 Athena Controller, Enclosure/Plenum Side
RL1 Athena Sensor, Remote/on Ceiling

(M1) Legrand
Wattstopper
PLUS



Wattstopper PLUS wireless smart
controllers & sensors.
Models: ZBHA-CLM, EN-CLM-PIR

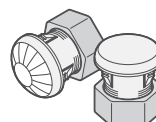


VM1 Wattstopper PLUS Control Module,
Enclosure/Plenum Side
RM1 SensiLUM Sensor, Remote/on Ceiling

(V1) Leviton
Intellect



Leviton Intellect wireless smart
controllers & sensors.
Models: ZL0x0, ZL0xS



VV1 Intellect Controller, Enclosure/Plenum Side
RV1 Intellect Sensor, Remote/on Ceiling

Ask us about...

Pass & Seymour®

EATON

DISTECH
CONTROLS

CRESTRON

CASAMBI

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Due to continuous product improvements, specifications and dimensions are subject to change without notice.
Certain options have limited compatibility with some other product selections. Consult www.fluxwerx.com for most current technical information.

SPECIFICATION DATA

LOOP RECESSED (LR1)

NOTES

CONSTRUCTION

- Formed 22 ga. steel housing
- Quick wire access plate and integral seismic restraint tabs/tie-offs
- Optional drywall trim or trimless (mud-in) flange kits
- High reflectance diffuse white textured powdercoat

OPTICAL

- Radial Anidolic optical structures with detailed light extraction elements for 360° symmetric batwing distribution
- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance $\geq$ L90 @ 54,000 h
- Available in 3000 K, 3500 K, 4000 K with CRI $\geq$ 80 and R9 $\geq$ 0, or CRI $\geq$ 90 and R9 $\geq$ 50, all with color accurate binning $\leq$ 2 SDCM

ELECTRICAL

- Integral high efficiency drivers for 50–60 Hz, 120–277 V and transformer for 347 V
- Power Factor > 0.90
- Total Harmonic Distortion $< 20\%$
- Dim level: Standard 3%, optional 1% or 0.1%
- Optional flex whip: 6' prewired
- Surge Protection: Meets ANSI C82.11 spec and ANSI/IEEE C62.41
- Inrush Current: Meets NEMA 410

EMERGENCY

- Optional Battery Pack delivers 10 W Class 2 rated output for 90 min. Use 12 W input energy to estimate emergency flux, typically 1150–1750 lm (@ 100–150 lm/W).
- Optional GTD (Generator Transfer Switch), 120–277 V, disables 0–10 V control during emergency for full light output

ENVIRONMENTAL & CARE

- Designed for use in dry or damp indoor locations with ambient temperatures of 0–30°C (32–86°F)
- The luminaire may be damaged by chemicals such as chlorine, solvents, ammonia, alcohol or sulfur in the area of operation or in cleaning products. Damage from contaminants is not covered under warranty.
- Not suitable for natatorium environments, e.g. swimming pools, hot tubs and saunas.
- Clean only by wiping with a slightly water-damp, soft, clean cloth.

WARRANTY

- 5 year limited warranty on all components and workmanship

MAX WEIGHT

	120–277 V NO OPTIONS	EMERGENCY OR 347 V
6" x 2'	11 lb (5 kg)	14.2 lb (6.5 kg)
2' x 2'	18 lb (8.2 kg)	22 lb (10 kg)
6" x 4'	15.6 lb (7.1 kg)	17.4 lb (7.9 kg)
1' x 4'	18 lb (8.2 kg)	22 lb (10 kg)
2' x 4'	31 lb (14.1 kg)	35 lb (15.9 kg)

INDEPENDENT TESTING

- IESNA LM79
- IESNA LM80 (LED @ 9,000 or 10,000 h)

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- IC Rated

Protected by one or more US patents: D877968; EU patents: 005607132-0001, 005607132-0002, 005607132-0003, 005607132-0004, 005607132-0005, 005607132-0006, 005607132-0007.

DRIVERS + EMERGENCY

STANDARD DRIVER OPTIONS	
OPTOTRONIC® ADVANCE 	F1 Non-Dim F2 0–10 V Dim 3% F4 Line Voltage Dim 3% (Forward/Reverse) 120 V
eldoLED®	E1 eldoLED ECO 0–10 V Dim 1% E2 eldoLED SOLO 0–10 V Dim 0.1% E3 eldoLED ECO DALI-2 DT6 Dim 1% E4 eldoLED SOLO DALI-2 DT6 Dim 0.1%
	L1 Lutron Hi-Lume 1% EcoSystem (LDE1)

EMERGENCY OPTIONS	
	B Battery Pack Bodine BSL310 (10 W) H Emergency Switching Functional Devices ESRB Emergency Lighting Relay

Driver and emergency selection may be limited by product or version.
For further options, contact Fluxwerx.

SPECIFICATION DATA
LOOP RECESSED (LR1)

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	83	83
Red Index (R9)	8	8	5
Color Matching (SDCM)	< 2		

90 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	92	92	92
Red Index (R9)	63	63	59
Color Matching (SDCM)	< 2		

Typical colorimetry values.

LUMEN MAINTENANCE

	A 19 W	B 23 W	C 29 W	D 38 W
L90 per TM-21 (hr)	> 54,000			> 50,000
L70 Estimate (hr)	> 200,000			> 150,000

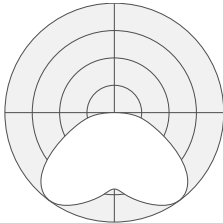
OUTPUT MULTIPLIERS

MULTIPLIER	Applies To	
90 CRI	0.80	All 80 CRI
Battery Pack – 6" x 2'	1.01	Energy A (12 W)
Battery Pack – 6" x 4', 1' x 4', 2' x 2', 2' x 4'	0.63	Energy A (19 W)

For 90 CRI or emergency BP, use multipliers to scale published Light (lm), Efficacy (lm/W), Intensity (Cd), Luminance (Cd/m²) and IES files.

VERSION PERFORMANCE

LR162 – 6"x2', 80 CRI

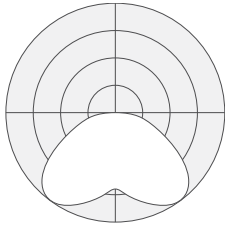
CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m ²)	
LR162x40 4000 K	A	12 W	1582	11.72	134.9	432	8,204	 Loop Recessed 6" x 2'
	B	15 W	1968	14.79	133.1	538	10,209	
	C	19 W	2465	19.87	124.0	673	12,787	
LR162x35 3500 K	A	12 W	1542	11.72	131.6	421	7,998	
	B	15 W	1897	14.79	128.3	524	9,952	
	C	19 W	2403	19.87	120.9	656	12,465	
LR162x30 3000 K	A	12 W	1502	11.72	128.1	410	7,792	
	B	15 W	1826	14.44	126.5	511	9,695	
	C	19 W	2341	19.45	120.4	639	12,143	

SPECIFICATION DATA

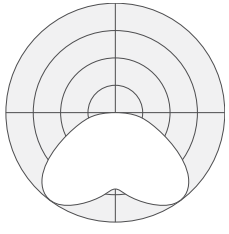
LOOP RECESSED (LR1)

VERSION PERFORMANCE

LR164 – 6" x 4', 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
LR164x40 4000 K	A	19 W	2590	18.63	139.0	698	7,039	 Loop Recessed 6" x 4'
	B	23 W	3126	23.16	135.0	843	8,499	
	C	29 W	3756	28.41	132.2	1,012	10,207	
	D	38 W	4957	39.96	124.1	1,336	13,474	
LR164x35 3500 K	A	19 W	2552	18.63	137.0	688	6,941	
	B	23 W	3080	23.16	133.0	830	8,370	
	C	29 W	3700	28.41	130.3	997	10,056	
	D	38 W	4884	39.96	122.2	1,316	13,277	
LR164x30 3000 K	A	19 W	2514	18.63	134.9	678	6,835	
	B	23 W	3034	23.16	131.0	818	8,249	
	C	29 W	3645	28.41	128.3	983	9,913	
	D	38 W	4811	39.38	122.2	1,297	13,081	

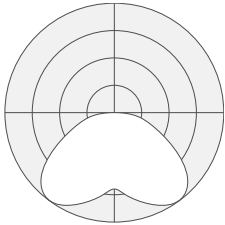
LR114 – 1' x 4', 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
LR114x40 4000 K	A	19 W	2710	18.95	143.0	711	3,566	 Loop Recessed 1' x 4'
	B	23 W	3170	23.16	136.9	832	4,171	
	C	29 W	3808	28.41	134.0	1,000	5,013	
	D	38 W	5026	38.59	130.3	1,319	6,615	
LR114x35 3500 K	A	19 W	2669	18.95	140.9	701	3,514	
	B	23 W	3122	23.16	134.8	820	4,109	
	C	29 W	3751	28.41	132.0	985	4,937	
	D	38 W	4951	38.59	128.3	1,300	6,516	
LR114x30 3000 K	A	19 W	2629	18.95	138.7	690	3,459	
	B	23 W	3075	23.16	132.8	807	4,047	
	C	29 W	3694	28.41	130.0	970	4,862	
	D	38 W	4876	38.23	127.5	1,280	6,419	

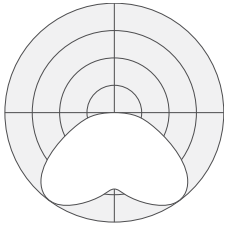
SPECIFICATION DATA
LOOP RECESSED (LR1)

VERSION PERFORMANCE

LR122 – 2' x 2', 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
LR122x40 4000 K	A	19 W	2737	18.40	148.7	708	3,707	 Loop Recessed 2' x 2'
	B	23 W	3391	23.16	146.4	877	4,591	
	C	29 W	4074	28.41	143.4	1,054	5,515	
	D	38 W	5377	39.06	137.7	1,391	7,279	
LR122x35 3500 K	A	19 W	2714	18.40	147.5	702	3,673	
	B	23 W	3282	23.16	141.7	849	4,443	
	C	29 W	3943	28.41	138.8	1,020	5,340	
	D	38 W	5205	39.06	133.2	1,346	7,047	
LR122x30 3000 K	A	19 W	2690	18.84	142.8	696	3,643	
	B	23 W	3173	23.16	137.0	821	4,298	
	C	29 W	3813	28.41	134.2	986	5,162	
	D	38 W	5032	38.41	131.0	1,302	6,812	

LR124 – 2' x 4', 80 CRI

CONFIGURATION			LIGHT & POWER			VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm)	POWER (W)	EFFICACY (lm/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	
LR124x40 4000 K	A	19 W	2702	18.38	147.0	690	1,930	 Loop Recessed 2' x 4'
	B	23 W	3226	23.16	139.3	823	2,310	
	C	29 W	3875	28.41	136.4	989	2,770	
	D	38 W	5115	36.91	138.6	1,306	3,660	
LR124x35 3500 K	A	19 W	2658	18.38	144.6	678	1,900	
	B	23 W	3247	23.16	140.2	829	2,320	
	C	29 W	3901	28.41	137.3	996	2,790	
	D	38 W	5149	36.91	139.5	1,314	3,680	
LR124x30 3000 K	A	19 W	2613	18.13	144.1	667	1,870	
	B	23 W	3269	23.16	141.1	834	2,340	
	C	29 W	3927	28.41	138.2	1,002	2,810	
	D	38 W	5183	38.33	135.2	1,323	3,710	

Photometry Reports: 12156787.09, 12167992.01 – 07, 12539604.03 – 08

Photometry baseline established with integrating sphere and goniophotometer results from an independent accredited testing laboratory per IES LM-79, ANSI C78.377. Remaining values scaled from baseline data per IES LM-63. Output and power may vary by up to 5%.