

TYPE



CATALOG #	
PROJECT	
NOTES	

PERFORMANCE FOCUS

55 Up 45 Dn, 80 CRI 4000 K (LS1xEx40)

	Energy (W/4ft)	Light (Im/4ft)	Efficacy (Im/W)
А	19 W	2500	136
В	23 W	3000	133
С	29 W	3700	131
D	38 W	4900	129
Color Match	iing	Lumen Maintenar	ice (hr)

(SDCM)	L90 per 1M21	L/U Estimate	
< 2	> 60,000	> 200,000	

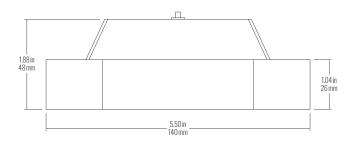
Nominal values, refer to back pages for full performance data.

FEATURES

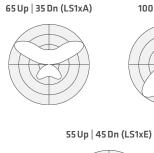
- Highly efficacious radial Anidolic optics deliver an axially symmetric batwing distribution for wide row spacing with outstanding ceiling and workplane uniformity.
- Multiple high performance direct & direct/indirect general area lighting versions and an independently controlled Up | Dn switching option.
- Precision machined, clear anodized extruded aluminum and 3 standard powdercoat finishes.
- To minimize installation time and ensure precision fit and finish, ٠ all fixtures arrive with machined endcaps, joints and power drop cords factory preinstalled.
- Companion Loop Recessed family with 6" and 1' wide versions available, as well as 2×2 and 2×4 sizes.

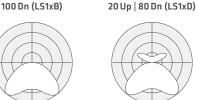


CROSS SECTION



DISTRIBUTIONS









Indep. Up Dn (LS3xB) (Full: 55 Up | 45 Dn)

Spec_Fluxwerx_Loop-Suspend_na-en | 2025-03

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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.

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SPECIFICATION DATA

ORDER GUIDE

1 2	3	4	5	6	7	8	9	10	11	OPTIONS	CONTROLS

1	FAMILY	2 ENDCAP	3 DISTRIBUTION	4 ENERGY ¹	5 CRI-CCT	6 FINISH ²
LS1	Loop Suspended	R RadiusS Square	 A 65 Up 35 Dn B 100 Dn D 20 Up 80 Dn E 55 Up 45 Dn 	 A 19 W B 23 W C 29 W D 38 W 	 30 80 CRI 3000 K 35 80 CRI 3500 K 40 80 CRI 4000 K 93 90 CRI 3000 K 	 A Clear Anodized B Black Powdercoat S Metallic Silver Powdercoat W White Powdercoat
LS3	Loop Independent Up Dn		B Independent Up Dn Control (Full: SS Up 45 Dn)	D 38 W	90 90 CRI 3500 K 94 90 CRI 4000 K	W White PowdercoatC Custom Color (RAL)
				¹ Nominal input power /4 ft. Add 4 W for Battery Pack or 347 V.		² Fixture finish only. Canopies are standard white.

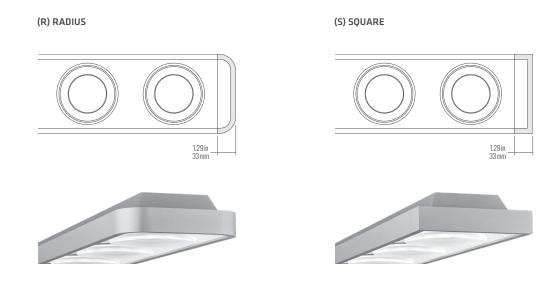
7 LENGTH	8 CEILING TYPE ⁴	9 DRIVER	10 VOLTAGE	11 SUSPENSION
04 4 ft 06 6 ft 08 8 ft XX x ft ³	 D Drywall G Grid S Structure R Remote 	 F1 Non-Dim F2 0-10 V Dim 3% F4 Line Voltage Dim (Fwd/Rev) 3% 120 V E1 eldol ED ECO 0-10 V Dim 1% 	 M 120-277 V 1 120 V⁵ 2 277 V⁵ 3 347 V⁶ 	03 ≤ 3 ft 06 ≤ 6 ft 12 ≤ 12 ft 25 ≤ 25 ft
	K Remote	 eldoLED ECO 0-10 V Dim 1/8 eldoLED SOLO 0-10 V Dim 0.1% eldoLED ECO DALI-2 DT6 Dim 1% eldoLED SOLO DALI-2 DT6 Dim 0.1% Lutron Hi-Lume 1% EcoSystem (LDE1) 	3 347 V	23 52510
³ Specify run length in 2' nominal increments. Important: Row lengths cannot be modified on site (factory installed endcaps & joiners).	⁴ Integrated driver with mounting, power feed, suspension + canopy, except for remote.		⁵ Fixed voltage only for (F4) Line Dim Driver or nLight controls. ⁶ 347 V transformer, not with Up Dn Control or Drywall ceiling.	

OPTIONS		CONTROLS			
WIRING & EMERGENCY 7	ROW LAYOUT	TYPE & LOCATION 10	BRAND & PROTOCOL 10		
 A# Alternate Wiring Module Qty ⁸ (2nd circuit in 8 ft modules for EM/NL or presentation switching) B# Battery Pack Qty H# Emergency Switch Qty (GTD or Controller) 	 C Chicago CCEA F 4 ft End Module G 6 ft Modules ⁹ N Non-Power End 	 R Remote Sensor / Controller on Ceiling S Sensor / Controller on Canopy V Controller on Driver / Plenum Side Y Controller on Canopy / Room side 	 N1 Acuity nLight Wired " N2 Acuity nLight Air rIO " N3 Acuity nLight Air RPP20 " E1 Enlighted Smart Sensor ¹² L1 Lutron Athena Wireless M1 Legrand Wattstopper PLUS V1 Leviton Intellect Wireless 		
⁷ BP & GTD available for 120–277V in Grid (G), Structure (S) and Remote (R) ceilings. GTD not compatible with (F4) Line Dim driver. ⁸ Alt. Wiring: not with Up Dn Control.	⁹ For 12 ft & 18 ft rows.	¹⁰ Controls selection may be limited by version, protocol or other features – see Controls page.	¹¹ Controller (V,Y) only. ¹² Sensor/Controller (R,S) only.		

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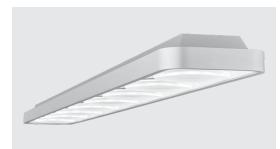
SPECIFICATION DATA

ENDCAPS

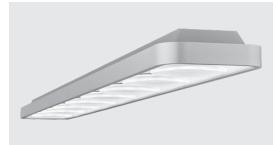


FINISHES

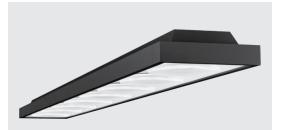
All finishes high temperature powder coated.



(A) CLEAR ANODIZED



(S) SILVER



(B) BLACK





(W) WHITE

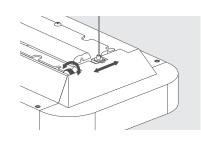
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SPECIFICATION DATA

PRODUCT DETAILS



Radial Anidolic Optic



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IMPORTANT

Endcaps and joiners are integral luminaire

Thumbwheel for rapid, tool-less crosswise leveling.

RUN LENGTHS

Standalone fixtures are available in 4', 6' + 8' nominal lengths.



Run lengths are available in 2' nominal increments.

10'	6'	4'		
12'	8'	4'		
12'	6'	6'	* Alternate option (G)	
14'	8'	6'		
16'	8'	8	1	
18'	8'	4'	6'	
18'	6'	6'	6'	* Alternate option (G)
20'	8'	4'	8	н Н
22'	8'	8		6'
24'	8'	8	1	8'

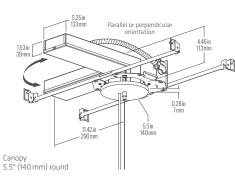


CEILING INTEGRATION

INTEGRATED DRIVER, MOUNTING, POWER FEED, SUSPENSION AND CANOPY Refer to separate IDC (Integrated Driver Enclosure) datasheet for wiring and detailed dimensions of driver and mounting hardware.

(D) DRYWALL

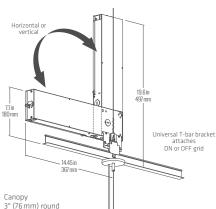
For GWB or panel ceiling < 0.875" (22 mm) thick.



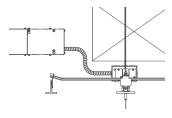
NEW CONSTRUCTION

(G) GRID

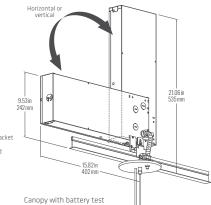
For accessible ceiling grid (acoustic tile) < 1.75" (44 mm) tall.



120-277 V, 347 V DRIVER ENCLOSURE



DETACHED METHOD

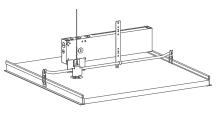


RETROFIT INSTALLATION

120-277 V, 347 V DRIVER ENCLOSURE

button or sensor/controller. 5.5" (140 mm) round

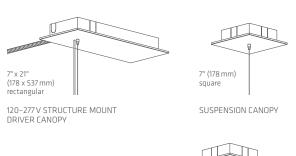
(B) BATTERY PACK OR (H) EMERGENCY SWITCH DRIVER ENCLOSURE

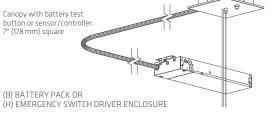


OFF GRID INSTALLATION

(S) STRUCTURE

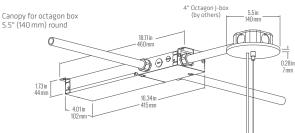
For exposed ceiling with conduit or recessed junction box.



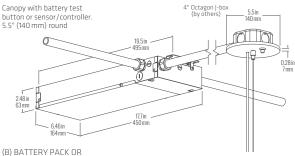


(R) REMOTE

External remote mounted driver for exposed ceiling with conduit or recessed junction box. See Notes for recommended wire gauge.



120-277 V, 347 V DRIVER ENCLOSURE



(H) EMERGENCY SWITCH DRIVER ENCLOSURE

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TYPE

SPECIFICATION DATA

INDEPENDENT UP | DOWN

CONTROLS & SENSORS

LUMINAIRE INTEGRATION

	Encl V Cont Cant ntroller preinstallec	troller, osure/Plenum Side troller, opy/Room Side l into suspension canopy or ceiling l connectors for fast field activation	R Sensor, Remote/on Ceiling S Sensor, on Canopy collar (for remote tile or J-box lid installation).	uplight and vic PRODU 3 * Some C	te on/off and dimming control of t and downlight. Ideal for presentations leo conferencing. CT VERSION Independent Up Dn * Controls unavailable with Independent Up/Down space constraints – contact Fluxwerx.
(N1)	Acuity nLight Wired	HEIGHT	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	HEIGHT	Acuity nLight wireless network interfaces. Models: rIO, rPP20	VN2 YN2 VN3	nLight rIO Controller, Enclosure/Plenum Side nLight rIO Controller, Canopy/Room Side nLight rPP20 Controller, Enclosure/Plenum Side
(E1)	Siemens Enlighted		Siemens Enlighted wireless smart sensor-controllers. Model: SU-SE-CL	RE1 SE1	Enlighted Smart Sensor, Remote/on Ceiling Enlighted Smart Sensor, on Fixture/Canopy Enlighted in Drywall ceiling requires (R) Remote driver.
(L1)	Lutron Athena	満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 YL1 RL1 SL1	Athena Controller, Enclosure/Plenum Side Athena Controller, Canopy/Room Side Athena Sensor, Remote/on Ceiling Athena Sensor, on Canopy
(M1)	Legrand Wattstopper PLUS	L'Ilegrand ° WATTSTOPPER® PLUS	Wattstopper PLUS wireless smart controllers & sensors. Models: ZBHA-CLM, EN-CLM-PIR	VM1 YM1 RM1 SM1	Enclosure/Plenum Side Wattstopper PLUS Control Module, Canopy/Room Side SensiLUM Sensor, Remote/on Ceiling
(V1)	Leviton Intellect	LEVITON®	Leviton Intellect wireless smart controllers & sensors. Models: ZL0x0, ZL0xS	VV1 YV1 RV1 SV1	Intellect Controller, Enclosure/Plenum Side Intellect Controller, Canopy/Room Side Intellect Sensor, Remote/on Ceiling Intellect Sensor, on Canopy
	Ask	us about Pass & Seyr		RON	CASAMBI

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SPECIFICATION DATA

NOTES

CONSTRUCTION

- Anodized, extruded + machined architectural grade aluminum
- Precision machined aluminum joints and endcaps are factory preinstalled for seamless fit
- Stainless steel fasteners
- 0.04" (1.0 mm) stainless steel aircraft cable suspensions
- Clear anodized surface finish or powdercoated in white, metallic silver or black, canopies in white as standard

OPTICAL

- Radial Anidolic optical structures with detailed light extraction elements for 360° symmetric downlight batwing distribution
- Precision molded high transmittance clear acrylic lenses
- Long life mid-flux LED system designed for typical TM21 lumen maintenance ≥ L90 @ 60,000 h
- Available in 3000 K, 3500 K, 4000 K with CRI ≥ 80 and R9 ≥ 0, or CRI ≥ 90 and R9 ≥ 50, all with color accurate binning ≤ 2 SDCM

ELECTRICAL

- No electrical connections are required at fixture level for installation; low voltage power cords factory preinstalled
- High efficiency multivolt drivers, integrated with suspension and mounting components, 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%
- 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

WIRE GAUGE

 Recommended low voltage wire gauge (AWG) for minimal losses over distance when REMOTE mounting: 30 ft | 18 ga 50 ft | 14 ga

80 ft | 12 ga

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.

ΕN

• Clean only by wiping with a slightly water-damp, soft, clean cloth.

WEIGHT

• Fixture only: ~ 2.9 lb/ft (4.3 kg/m)

WARRANTY

• 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

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

APPROVALS

- UL Listed (USA + Canada)
- CCEA Chicago Plenum
- Living Building Challenge (LBC) Declared

Protected by one or more US patents: D877969; EU patents: 005606795-0001, 005606795-0002, 005606795-0003, 005606795-0004.

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%
※LUTRON 。	L1 Lutron Hi-Lume 1% EcoSystem (LDE1)

MERGENCY OPTIONS		
bodine RIB	B	Battery Pack Bodine BSL310 (10 W) Emergency Switching Functional Devices ESRB Emergency Lighting Relay

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

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	83	82
Red Index (R9)	4	4	2
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)	> 60,000					
L70 Estimate (hr)	> 200,000					

OUTPUT MULTIPLIERS

MULTIPLIER		Applies To
90 CRI	0.80	All 80 CRI
Battery Pack	0.65	Energy A (19 W)

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

VERSION PERFORMANCE

LS1xA - 65 Up 35 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER		VISUAL			
ССТ	EN	ERGY (NOM.)	LIGHT (Im/4ft)	POWER (W/4ft)	EFFICACY (Im/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)	L
	А	19 W	2518	18.52	136.0	266	2,318	
LS1xAx40	В	23 W	3028	22.70	133.4	320	2,787	F
4000 K	С	29 W	3733	28.57	130.7	395	3,436	\square
	D	38 W	4922	38.09	129.2	520	4,530	
	А	19 W	2487	18.52	134.3	263	2,289	
LS1xAx35	В	23 W	2991	22.70	131.7	316	2,753	
3500 K	С	29 W	3687	28.57	129.0	390	3,393	
	D	38 W	4861	38.09	127.6	514	4,473	
	А	19 W	2456	18.52	132.6	260	2,260	
LS1xAx30 3000 K	В	23 W	2953	22.70	130.1	312	2,717	
	С	29 W	3640	28.57	127.4	385	3,350	
	D	38 W	4799	38.09	126.0	507	4,417	





VERSION PERFORMANCE

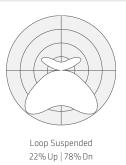
LS1xB - 100 Dn, 80 CRI

CONI CCT	CONFIGURATION ENERGY (NOM.)		LIGHT (Im/4ft)	LIGHT & POWER POWER (W/4ft)	EFFICACY (Im/W)	VISUAL (MAX INTENSITY 45-90° (Cd)	COMFORT MAX LUMINANCE 45-90° (Cd/m²)	LIGHT DISTRIBUTION
	А	19 W	2562	19.48	131.5	687	8,167	
LS1xBx40	В	23 W	3057	24.01	127.3	819	9,744	
4000 K	С	29 W	3730	30.34	122.9	1,000	11,891	
	D	38 W	4789	41.78	114.6	1,283	15,267	
	А	19 W	2483	19.48	127.5	665	7,915	
LS1xBx35	В	23 W	2973	24.01	123.8	797	9,477	
3500 K	С	29 W	3628	30.34	119.6	972	11,565	Loop Suspended 100% Dn
	D	38 W	4658	41.78	111.5	1,248	14,845	
	А	19 W	2404	19.19	125.3	644	7,663	
LS1xBx30 3000 K	В	23 W	2889	24.01	120.3	774	9,211	
	С	29 W	3525	30.34	116.2	945	11,240	
	D	38 W	4526	41.00	110.4	1,213	14,423	

LS1xD - 20 Up | 80 Dn, 80 CRI

CONFIGURATION				LIGHT & POWER	VISUAL COMFORT		
CCT	ENE	RGY (NOM.)	LIGHT (Im/4ft)	POWER (W/4ft)	EFFICACY (Im/W)	MAX INTENSITY 45-90° (Cd)	MAX LUMINANCE 45-90° (Cd/m²)
	А	19 W	2581	19.48	132.5	548	4,798
LS1xDx40	В	23 W	3080	24.01	128.3	654	5,726
4000 K	С	29 W	3758	30.34	123.9	797	6,986
	D	38 W	4825	40.58	118.9	1,024	8,969
	А	19 W	2510	19.48	128.9	533	4,667
LS1xDx35	В	23 W	2995	24.01	124.8	636	5,568
3500 K	С	29 W	3655	30.34	120.5	776	6,794
	D	38 W	4693	40.58	115.6	996	8,723
	А	19 W	2440	19.48	125.2	518	4,535
LS1xDx30 3000 K	В	23 W	2911	24.01	121.2	618	5,411
	С	29 W	3552	30.34	117.1	754	6,602
	D	38 W	4560	40.58	112.4	968	8,477





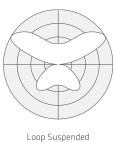


TYPE

VERSION PERFORMANCE

LS1xE - 55 Up 45 Dn, 80 CRI

CONF	CONFIGURATION ENERGY (NOM.)		LIGHT & POWER LIGHT POWER EFFICACY (Im/4ft) (Im/VM) (Im/VM)		VISUAL (MAX INTENSITY 45-90° (Cd)	COMFORT MAX LUMINANCE 45-90° (Cd/m²)	LIGHT DISTRIBUTION	
	А	19 W	2479	18.52	133.8	307	2,690	
LS1xEx40	В	23 W	2981	22.70	131.3	369	3,235	
4000 K	С	29 W	3675	28.57	128.6	455	3,988	
	D	38 W	4845	38.79	124.9	600	5,257	
	А	19 W	2419	18.52	130.6	300	2,625	
LS1xEx35	В	23 W	2944	22.70	129.7	365	3,194	
3500 K	С	29 W	3629	28.57	127.0	450	3,938	Loop Suspended 55% Up 45% Dn
	D	38 W	4785	38.79	123.3	593	5,192	
	А	19 W	2358	18.30	128.8	292	2,559	
LS1xEx30 3000 K	В	23 W	2907	22.70	128.0	360	3,154	
	С	29 W	3583	28.57	125.4	444	3,889	
	D	38 W	4724	38.57	122.6	585	5,127	



LS3xB - Indep. Up Dn, 80 CRI

CON	ONFIGURATION ENERGY (NOM.)		LIGHT & POWER LIGHT POWER EFFICACY (Im/4ft) (W/4ft) (Im/W)		VISUAL COMFORT MAX INTENSITY MAX LUMINANCE 45-90° (Cd) 45-90° (Cd/m²)		LIGHT DISTRIBUTION	
LS3xBx40 4000 K	D	38 W	4845	38.79	124.9	600	5,257	
LS3xBx35 3500 K	D	38 W	4785	38.79	123.3	593	5,192	
LS3xBx30 3000 K	D	38 W	4724	38.57	122.5	585	5,127	Loop Suspended 55% Up 45% Dn

Photometry Reports: 12139695

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%.