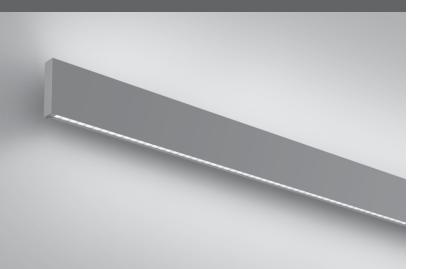
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SPECIFICATION DATA LINES ONWALL 4/6/8 FT (LW1-WS48)

CATALOG #			
PROJECT			
NOTES			

PERFORMANCE FOCUS

ASYM 30 Up 70 Dn, 80 CRI 4000 K (LW1-W-Y3840)

	Energy (W/4ft)	Light (Im/4ft)	Efficacy (Im/W)
B (100 Dn)	13 W	1450	124
С	16 W	1850	125
D	20 W	2350	126
E	25 W	3000	127
F	30 W	3700	126
G	37 W	4600	125
Color Matching (SDCM)		Lumen Mainter) per TM21	nance (hr) L80 per TM21
< 2	>	59,000	> 102,000

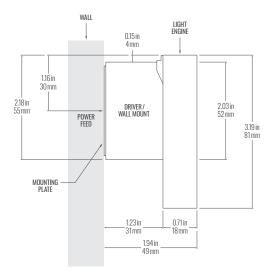
Preliminary nominal values, refer to back pages for full performance data.

FEATURES

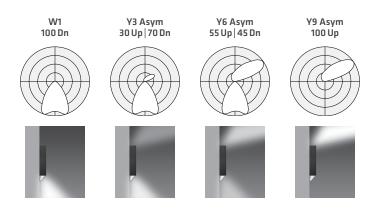
- High performance, ultra-slim (0.7") linear, perimeter mounted luminaire, matching Lines, Hyphen & Portal families.
- Advanced optics shape the light distribution for exceptional cut-off and comfort. An upper wide throw, asymmetric light distribution provides ceiling uniformity and room fill.
- 1ft, 2ft, 4ft, 6ft and 8ft lengths support a variety of spaces.
- Complementary endcap styles to choose from Capsule or Flat.
- 4 up/down lighting distributions enable a range of lighting effects 100 Dn, 100 Up, 30 Up | 70 Dn & 55 Up | 45 Dn.
- Hidden wall mounting system and power source for minimal install coordination.
- Light outputs from 800 lm (1ft) to over 7000 lm (8 ft) with efficacies exceeding 125 lm/W.



CROSS SECTION



DISTRIBUTIONS



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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. LW1-W548 | 2024-11

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SPECIFICATION DATA

ORDER GUIDE

1 2	3	4	5	6	7	8	9	10	11	12	OPTIONS	CONTROLS
LW1 – W												

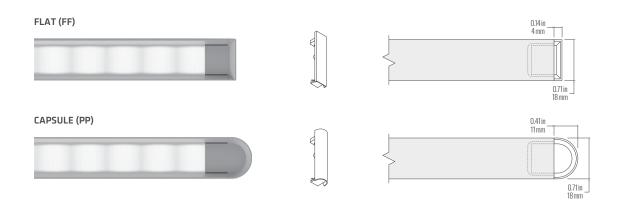
1	FAMILY	2 VERSION	3 SIZE	4 APPLICATION	5 ENDCAP
LW1	Lines Wall –	₩ Onwall	S4 4ftS6 6ftS8 8ft	D DrywallR Remote Driver	FF Flat PP Capsule
6	FINISH	7 DISTRIBUTION	8 CRI	9 CCT	10 ENERGY / 4 FT ¹
BB SS WW CC	Black Powdercoat Metallic Silver Powdercoat White Powdercoat Custom Color (RAL)	W1 100 Dn Y3 Asym 30 Up 70 Dn Y6 Asym 55 Up 45 Dn Y9 Asym 100 Up	8 80 CRI 9 90 CRI	 27 2700 K 30 3000 K 35 3500 K 40 4000 K 	 B 13 W C 16 W D 20 W E 25 W F 30 W G 37 W²

11	DRIVER	12 VOLTAGE	OPTIONS	CONTROLS	
F1 F2 F4	Non-Dim 0–10 V Dim 3% Line Voltage Dim (Fwd/Rev) 3% 120 V	 M 120-277 V 1 120 V ⁵ 2 277 V ⁵ 3 347 V ⁶ 	 Battery Pack ⁷ C Chicago CCEA ⁹ H Emergency Switch ^{7,8} (GTD or Controller) 	TYPE & LOCATION ¹⁰ R Remote Sensor / Controller on Ceiling V Controller on	 BRAND & PROTOCOL 10 N1 Acuity nLight Wired 11 N2 Acuity nLight Air rIO 11 N3 Acuity nLight Air
E1 E2 E3 E4	eldoLED ECO 0-10 V Dim 1% eldoLED SOLO 0-10 V Dim 0.1% eldoLED ECO DALI-2 DT6 Dim 1% eldoLED SOLO DALI-2 DT6 Dim 0.1%			Remote Enclosure Y Controller on Fixture / Room side	 K3 ACUTY Incigne Air RPP20 ¹¹ E1 Enlighted Smart Sensor ¹² L1 Lutron Athena Wireless M1 LeGrand Encelium X / SensiLum
L1 ³ Lutror	Lutron Hi-Lume 1% EcoSystem (LDE1) ³ n L1: Min Energy A (10 W).	⁵ Fixed voltage only for (F4) Line Dim Driver or nLight controls. 6 347 V: Remote with transformer except F1/F2.	 ⁷ Remote mounted BP & GTD. ⁸ GTD not compatible with (F4) Line Dim driver. ⁹ For Remote driver. 	¹⁰ Controls selection may be limited by version, protocol or other features – see Controls page.	V1 Leviton Intellect Wireless ¹¹ nLight: Controller (V,Y) only. ¹² Enlighted: Sensor/Controller (R) only.



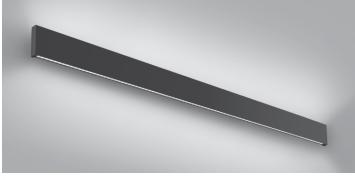
SPECIFICATION DATA LINES ONWALL 4|6|8 FT (LW1-WS48)

ENDCAP OPTIONS



FINISHES

All finishes high temperature powder coated.



(B) BLACK



(W) WHITE



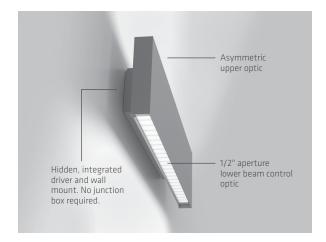
(S) SILVER



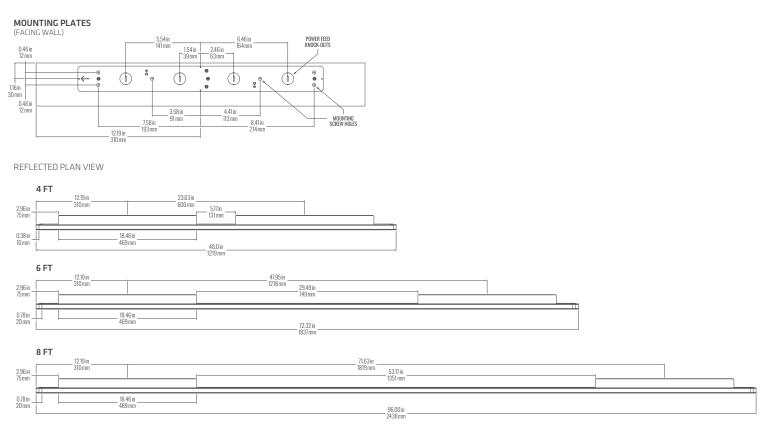


SPECIFICATION DATA LINES ONWALL 4/6/8 FT (LW1-WS48)

PRODUCT DETAILS



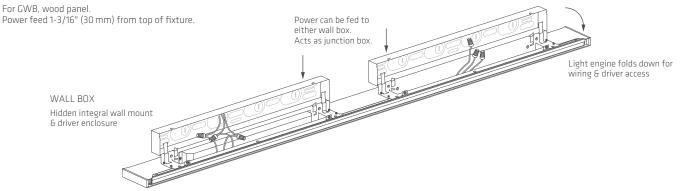
DIMENSIONS



SPECIFICATION DATA

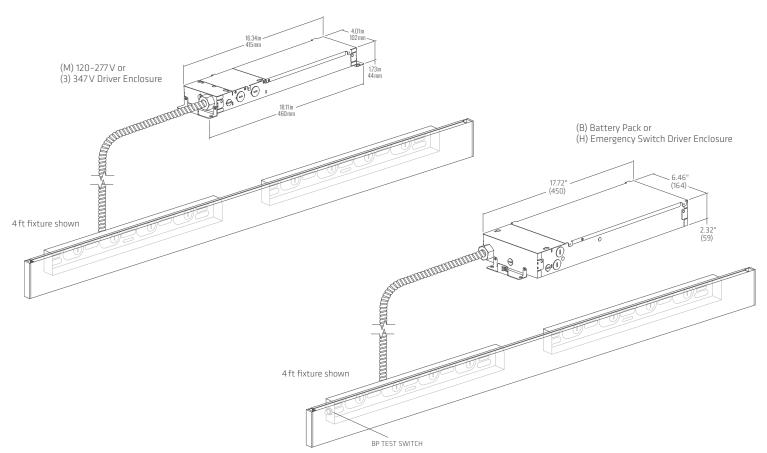
WALL INTEGRATION

(D) DRYWALL



(R) REMOTE DRIVER

External remote mounted driver, Battery Pack or GTD. See Notes for recommended wire gauge.



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SPECIFICATION DATA

CONTROLS & SENSORS

LUMINAIRE INTEGRATION

- And	A LOCE	V Controller, Remote Enclosure	Controller, Fixture/Room S	Side	R Sensor, Remote/on Ceiling
(N1)	Acuity nLight Wired	HEIGHT	nLight wired, digital network. Model: nPS-80-EZ or nPS-80-EZ-ER (with H - Emergency Switching)	VN	1 nLight Wired Controller, Remote Enclosure
(N2, N3)	Acuity nLight Air	HEIGHT	Acuity nLight wireless network interfaces. Models: rIO, rPP20	VN VN VN VN	2 nLight rIO Controller, Fixture/Room Side
(E1)	Siemens Enlighted	Enlighted	Siemens Enlighted wireless smart sensor-controllers. Model: SU-5E-CL	RE	1 Enlighted Smart Sensor, Remote/on Ceiling
(L1)	Lutron Athena	※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	VL VL RL	Athena Controller, Fixture/Room Side
(M1)	Legrand Encelium X	Encelium	Encelium X wireless smart controllers & sensors. Models: ZBHA-CLM, EN-CLM-PIR	VM YM RM	1 X Control Module, Fixture/Room Side
(V1)	Leviton Intellect	LEVITON®	Leviton Intellect wireless smart controllers & sensors. Models: ZL0x0, ZL0xS	VV VV RV	1 Intellect Controller, Fixture/Room Side
All integrated cor	Ask us abo ntrols trademarks and	ut Wattstopper	Pass & Seymour [®] FIT•N	DISTECH CONTROLS CRES	TRON CASAMBI

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SPECIFICATION DATA LINES ONWALL 4|6|8 FT (LW1-WS48)

NOTES

CONSTRUCTION

- Architectural grade aluminum and 22 ga. steel housings
- Housing designed for new build or retrofit mounting onto a GWB cavity wall
- White, metallic silver or black textured powdercoat standard finishes

OPTICAL

- Precision molded high transmittance clear acrylic lenses
- Long life LED system designed for typical TM21 lumen maintenance ≥L80 @ 102,000 h
- Available in 2700 K, 3000 K, 3500 K, 4000 K with CRI ≥ 80 and R9 ≥ 0, or $CRI \ge 90$ and $R9 \ge 50$, all with color accurate binning ≤ 2 SDCM

ELECTRICAL

- Low voltage power cord, factory preinstalled
- Integral high efficiency drivers for 50-60 Hz, 120-277 V or 347 V Power Factor: > 0.90 (Drivers F1, F2, F4, E1-4) except
- > 0.80 (Energy A, B in 2 ft, 3 ft source) > 0.75 (Driver L1) Total Harmonic Distortion:
- < 20 % (Drivers F1, F2, F4, E1-E4)
- 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. See Family Performance for estimated emergency output
- Optional GTD (Generator Transfer Switch), 120–277 V, disables 0–10 V or DALI 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 O-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.

WEIGHT

- Fixture: 1lb (0.45 kg) per ft
- Pivot: 0.4 lbs (0.18 kg)

WARRANTY

• 5 year limited warranty on all components and workmanship

INDEPENDENT TESTING

- IESNA LM79 (Pending)
- IESNA LM80 (LED @ 17,000 hr)

APPROVALS

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

DRIVERS + EMERGENCY

STANDARD DRIVER OPTIONS		EMERGENCY OPTIONS	
OPTOTRONIC® ADVANCE	 F1 Non-Dim F2 0-10 V Dim 3% F4 Line Voltage Dim 3% (Forward/Reverse) 120 V 	bodine RIB	 B Battery Pack Bodine BSL310 (10 W) H Emergency Switching Functional Devices ESRB Emergency Lighting Relay
eldoLED	 eldoLED ECO 0-10 V Dim 1% eldoLED SOLO 0-10 V Dim 0.1% eldoLED ECO DALI-2 DT6 Dim 1% eldoLED SOLO DALI-2 DT6 Dim 0.1% 		
፨LUTRON 。	L1 Lutron Hi-Lume 1% EcoSystem (LDE1)		

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

LW1-W548 | 2024-11

SPECIFICATION DATA LINES ONWALL 4|6|8 FT (LW1-WS48)

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FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K		
Color Rendering (CRI)	83	82	81		
Red Index (R9)	4	1	1		
Fidelity (TM-30 R _f)	84	83	84		
Gamut (TM-30 R _s)	95	95 95 94			
Color Matching (SDCM)		< 2			
90 CRI	4000 K	3500 K	3000 K		
Color Rendering (CRI)	93	92	91		
Red Index (R9)	55	53	53		
Fidelity (TM-30 R _f)	90	89	90		

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Typical colorimetry values.

96

LUMEN MAINTENANCE

	13 W (B) – 37 W (G)
L90 per TM-21 (hr)	> 59,000
L80 per TM-21 (hr)	> 102,000

OUTPUT MULTIPLIERS

MULTIPLIER Applies To								
90 CRI	0.84		All 80 CRI					
Battery Pack	1.00		Energy B (13 W)					
FINISH	100 Dn (W1)	30	70 (Y3)	55 45 (Y6)	100 Up (Y9)			
Black	0.89	(0.90	0.91	0.94			
Metallic Silver	0.93	(0.93	0.94	0.96			

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

W1 - 100 Dn, 80 CRI

Gamut (TM-30 R_g)

Color Matching (SDCM)

CONFIGURATION			LIGHT & POWER				
ССТ	ENERGY (NOM.)		LIGHT (Im/4ft)	POWER (W/4ft)	EFFICACY (Im/W)	MAX BEAM INTENSITY (Cd)	
	В	13 W	1558	11.89	131.0		
LW1-W54-W1840	С	16 W	1998	15.21	131.3		
4000 K	D	20 W	2526	19.18	131.7		
4000 K	Е	25 W	3183	24.09	132.1		
	F	30 W	3911	30.25	129.3		
	В	13 W	1543	11.89	129.8		
LW1-WS4-W1835	С	16 W	1979	15.21	130.1		
3500 K	D	20 W	2503	19.18	130.5		
3300 K	E	25 W	3153	24.09	130.9		
	F	30 W	3874	30.25	128.1		
	В	13 W	1507	11.89	126.8		
LW1-W54-W1830	С	16 W	1934	15.21	127.1		
3000 K	D	20 W	2445	19.18	127.5		
5000 K	Е	25 W	3080	24.09	127.9		
	F	30 W	3785	30.25	125.1		
	В	13 W	1467	11.89	123.4		
I W1-W54-W1827	С	16 W	1882	15.21	123.7		
2700 K	D	20 W	2379	19.18	124.1		
2700 K	Е	25 W	2997	24.09	124.4		
	F	30 W	3683	30.25	121.8		

97

< 2





SPECIFICATION DATA LINES ONWALL 4/6/8 FT (LW1-WS48)

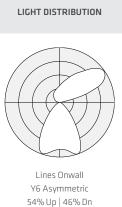
VERSION PERFORMANCE

Y3 - Asymmetric 30 Up | 70 Dn, 80 CRI

CONFIGURATION			LIGHT 8	POWER			
CCT	ENE	ERGY (NOM.)	LIGHT (Im/4ft)	POWER (W/4ft)	EFFICACY (Im/W)	MAX BEAM INTENSITY (Cd)	LIGHT DISTRIBUTION
	В	13 W	1457	11.77	123.8		
	С	16 W	1876	15.04	124.8		
LW1-WS4-Y3840	D	20 W	2383	18.93	125.9		
4000 K	E	25 W	3017	23.72	127.2		
	F	30 W	3728	29.71	125.5		
	G	37 W	4640	37.04	125.3		$\left(\left(A \right) \right)$
	В	13 W	1443	11.77	122.6		
	С	16 W	1859	15.04	123.6		
LW1-WS4-Y3835	D	20 W	2360	18.93	124.7		
3500 K	E	25 W	2989	23.72	126.0		
	F	30 W	3693	29.71	124.3		
	G	37 W	4596	37.04	124.1		
	В	13 W	1410	11.77	119.8		Lines Onwall
	С	16 W	1816	15.04	120.7		Y3 Asymmetric
LW1-WS4-Y3830	D	20 W	2306	18.93	121.8		28% Up 72% Dn
3000 K	E	25 W	2920	23.72	123.1		
	F	30 W	3608	29.71	121.4		
	G	37 W	4490	37.04	121.2		
	В	13 W	1372	11.77	116.6		
	С	16 W	1767	15.04	117.5		
LW1-WS4-Y3827	D	20 W	2244	18.93	118.5		
2700 K	E	25 W	2841	23.72	119.8		
	F	30 W	3511	29.71	118.2		
	G	37 W	4370	37.04	118.0		



CONFIGURATION			LIGHT & POWER					
CCT	ENE	ERGY (NOM.)	LIGHT (Im/4ft)	POWER (W/4ft)	EFFICACY (Im/W)	MAX BEAM INTENSITY (Cd)		
	В	13 W	1337	11.64	114.9			
LW1-WS4-Y6840 4000 K	С	16 W	1732	14.83	116.8			
	D	20 W	2213	18.63	118.8			
	E	25 W	2821	23.28	121.1			
	F	30 W	3508	29.06	120.7			
	G	37 W	4400	36.15	121.7			
LW1-WS4-Y6835 3500 K	В	13 W	1324	11.64	113.8			
	С	16 W	1716	14.83	115.7			
	D	20 W	2193	18.63	117.7			
	E	25 W	2794	23.28	120.0			
	F	30 W	3475	29.06	119.6			
	G	37 W	4359	36.15	120.6			
LW1-WS4-Y6830 3000 K	В	13 W	1293	11.64	111.2			
	С	16 W	1677	14.83	113.0			
	D	20 W	2142	18.63	115.0			
	E	25 W	2729	23.28	117.2			
	F	30 W	3395	29.06	116.8			
	G	37 W	4258	36.15	117.8			
LW1-WS4-Y6827 2700 K	В	13 W	1259	11.64	108.2			
	С	16 W	1632	14.83	110.0			
	D	20 W	2084	18.63	111.9			
	E	25 W	2656	23.28	114.1			
	F	30 W	3304	29.06	113.7			
	G	37 W	414.4	36.15	114.7			





SPECIFICATION DATA LINES ONWALL 4/6/8 FT (LW1-WS48)

VERSION PERFORMANCE

Y9 - Asymmetric 100 Up, 80 CRI

CONFIGURATION								
CCT	ENE	ERGY (NOM.)	LIGHT POWER EFFICACY (Im/4ft) (W/4ft) (Im/W) I		MAX BEAM INTENSITY (Cd)	LIGHT DISTRIBUTION		
LW1-W54-Y9840 4000 K	В	13 W	1260	11.60	108.6			
	С	16 W	1630	14.81	110.1			
	D	20 W	2084	18.61	111.9			
	Е	25 W	2663	23.27	114.4			
	F	30 W	3291	29.15	112.9			
	G	37 W	4095	36.34	112.7			
LW1-WS4-Y9835 3500 K	В	13 W	1248	11.60	107.6			
	С	16 W	1615	14.81	109.1			
	D	20 W	2064	18.61	110.9			
	E	25 W	2638	23.27	113.3			
	F	30 W	3260	29.15	111.8			
	G	37 W	4057	36.34	111.6			
LW1-WS4-Y9830 3000 K	В	13 W	1219	11.60	105.1		Lines Onwall	
	С	16 W	1577	14.81	106.5		Y9 Asymmetric	
	D	20 W	2016	18.61	108.3		100% Up	
	E	25 W	2577	23.27	110.7			
	F	30 W	3185	29.15	109.2			
	G	37 W	3963	36.34	109.1			
LW1-WS4-Y9827 2700 K	В	13 W	1187	11.60	102.3			
	С	16 W	1535	14.81	103.7			
	D	20 W	1962	18.61	105.4			
	E	25 W	2508	23.27	107.8			
	F	30 W	3099	29.15	106.3			
	G	37 W	3857	36.34	106.1			



Photometry baseline established with integrating sphere and goniophotometer results from an independent accredited testing laboratory per IES LM-79, ANSI 78.377. Remaining values scaled from baseline data. Output and power may vary by up to 5%.

TYPE