

SPECIFICATION DATA

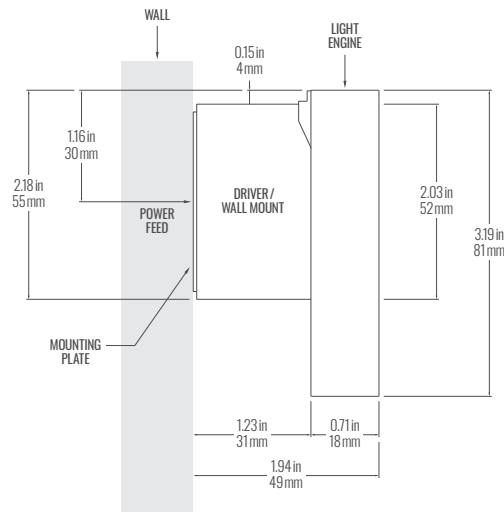
LINES ONWALL 4|6|8 FT (LW1-WS48)

CATALOG

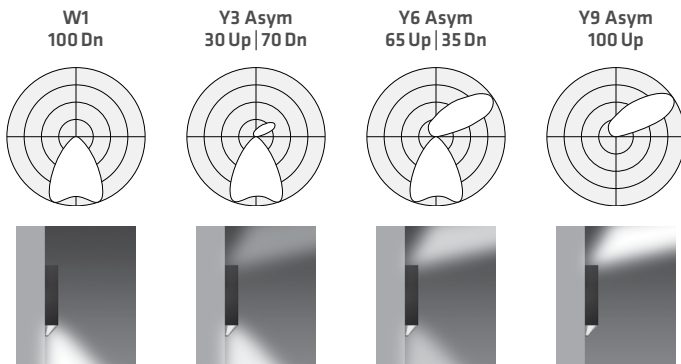
PROJECT

NOTES

CROSS SECTION



DISTRIBUTIONS



PERFORMANCE FOCUS

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

	Energy (W/4ft)	Light (lm/4ft)	Efficacy (lm/W)
B	13 W	1450	129
C	16 W	2000	137
D	20 W	2500	127
E	25 W	3150	127
F	31 W	3900	128
G	38 W	4900	128

Color Matching (SDCM)	Lumen Maintenance (hr)	
	L90 per TM21	L80 per TM21
< 2	> 59,000	> 102,000

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 & 65 Up | 35 Dn.
- Hidden wall mounting system and power source for minimal install coordination.
- Light outputs from 1200 to 4900 lm/4ft with efficacies to 140 lm/W.

Declare.



SPECIFICATION DATA

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

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	—	W Onwall	S4	4 ft	D	Drywall	FF	Flat
				S6	6 ft	R	Remote Driver	PP	Capsule
				S8	8 ft				

6	FINISH	7	DISTRIBUTION	8	CRI	9	CCT	10	ENERGY / 4 FT ¹
BB	Black Powdercoat	W1	100 Dn	8	80 CRI	27	2700 K	B	13 W
SS	Metallic Silver Powdercoat	Y3	Asym 30 Up 70 Dn	9	90 CRI	30	3000 K	C	16 W
WW	White Powdercoat	Y6	Asym 65 Up 35 Dn			35	3500 K	D	20 W
CC	Custom Color (RAL)	Y9	Asym 100 Up			40	4000 K	E	25 W
								F	31 W
								G	38 W ²

¹ Nominal input power. Add 4 W for Battery Pack or 347 V.
² 100 Dn (W1) max F.

11	DRIVER	12	VOLTAGE	OPTIONS	CONTROLS
F1	Non-Dim	M	120–277 V	B Battery Pack ⁷	TYPE & LOCATION ¹⁰
F2	0–10 V Dim 3%	1	120 V ⁵	C Chicago CCEA ⁹	BRAND & PROTOCOL ¹⁰
F4	Line Voltage Dim (Fwd/Rev) 3% 120 V	2	277 V ⁵	H Emergency Switch ^{7,8} (GTD or Controller)	R Remote Sensor / Controller on Ceiling
E1	eldoLED ECO 0–10 V Dim 1%	3	347 V ⁶		V Controller on Remote Enclosure
E2	eldoLED SOLO 0–10 V Dim 0.1%				Y Controller on Fixture / Room side
E3	eldoLED ECO DALI-2 DT6 Dim 1%				
E4	eldoLED SOLO DALI-2 DT6 Dim 0.1%				
L1	Lutron Hi-Lume 1% EcoSystem (LDE1) ³				

³ Lutron 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.
¹¹ nLight: Controller (V,Y) only.

ENDCAP OPTIONS

FLAT (FF)

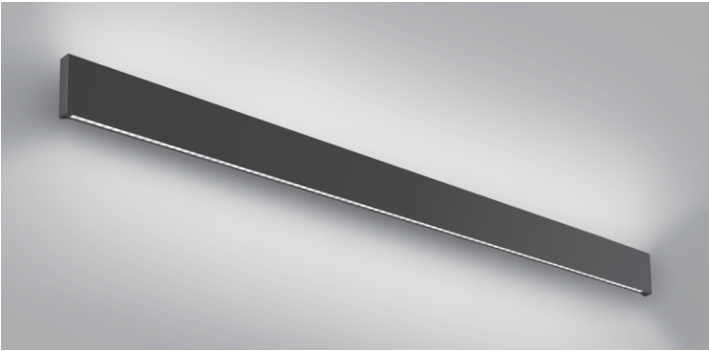


CAPSULE (PP)

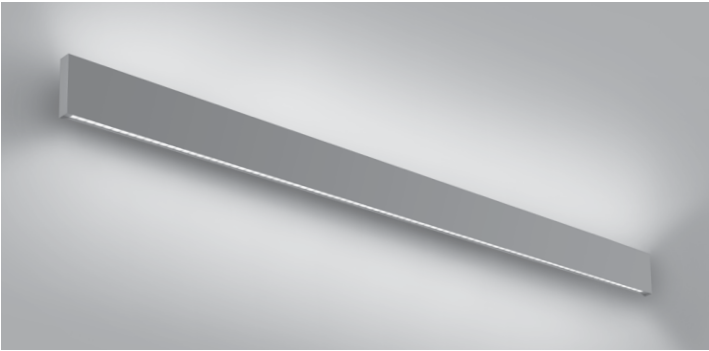


FINISHES

All finishes high temperature powder coated.



(B) BLACK



(S) SILVER

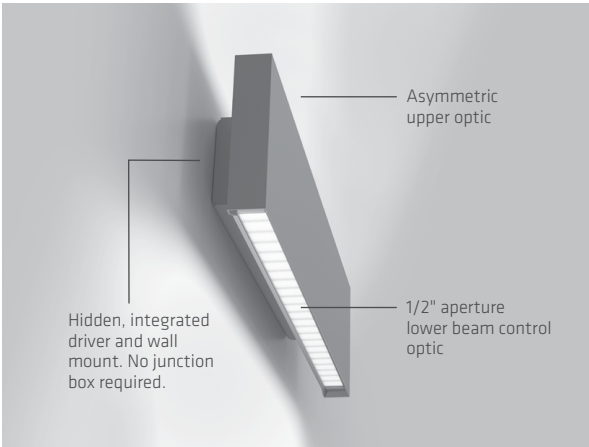


(W) WHITE



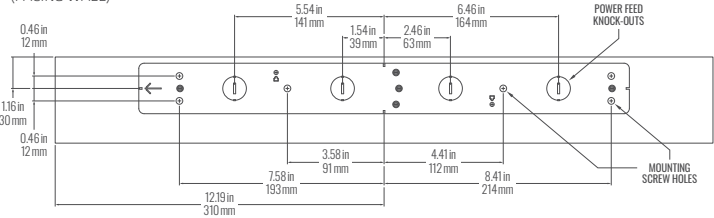
CUSTOM

PRODUCT DETAILS

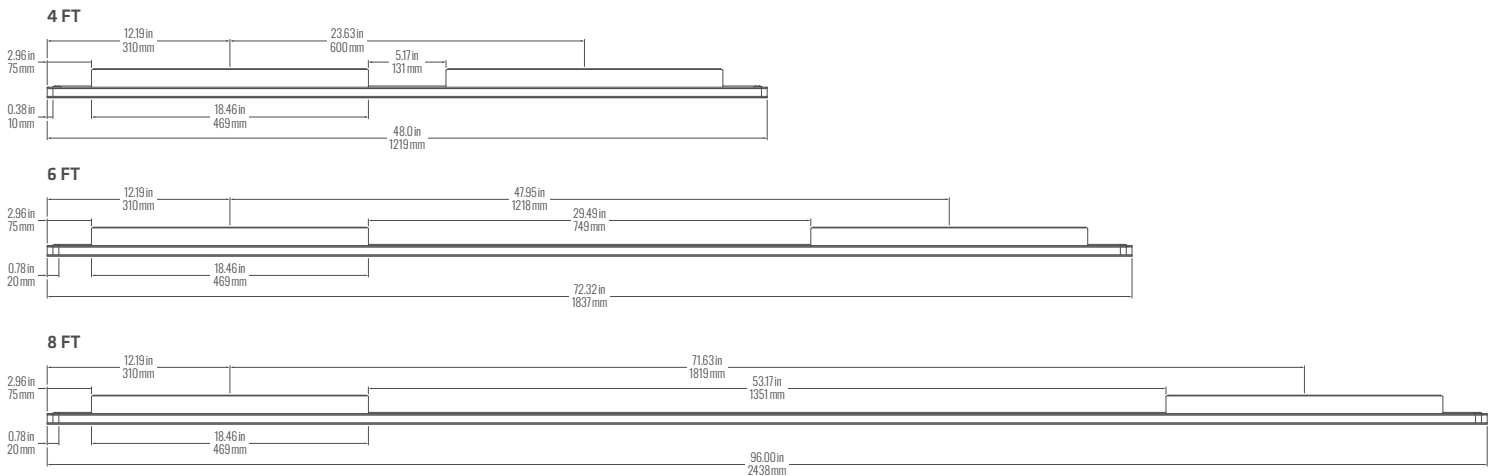


DIMENSIONS

MOUNTING PLATES
(FACING WALL)



REFLECTED PLAN VIEW



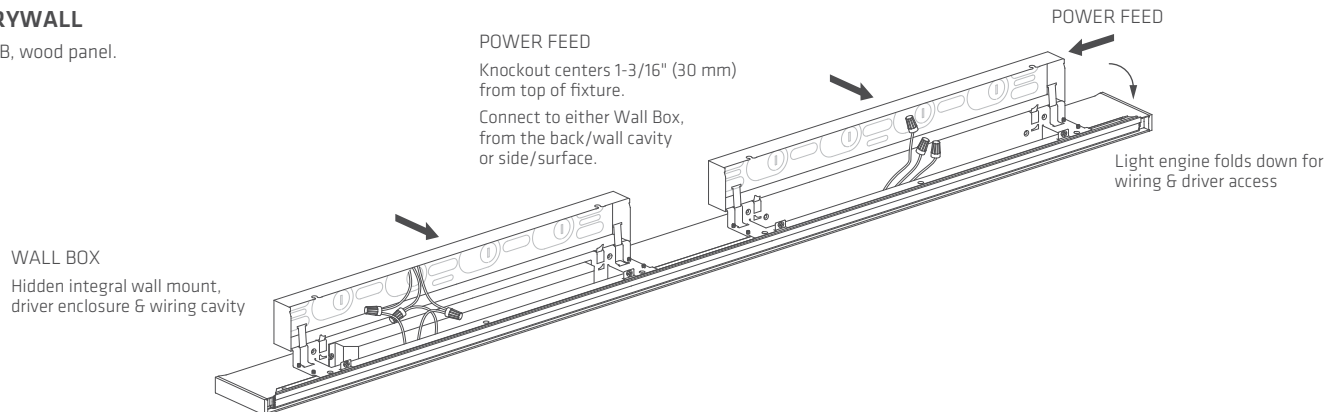
SPECIFICATION DATA

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

WALL INTEGRATION

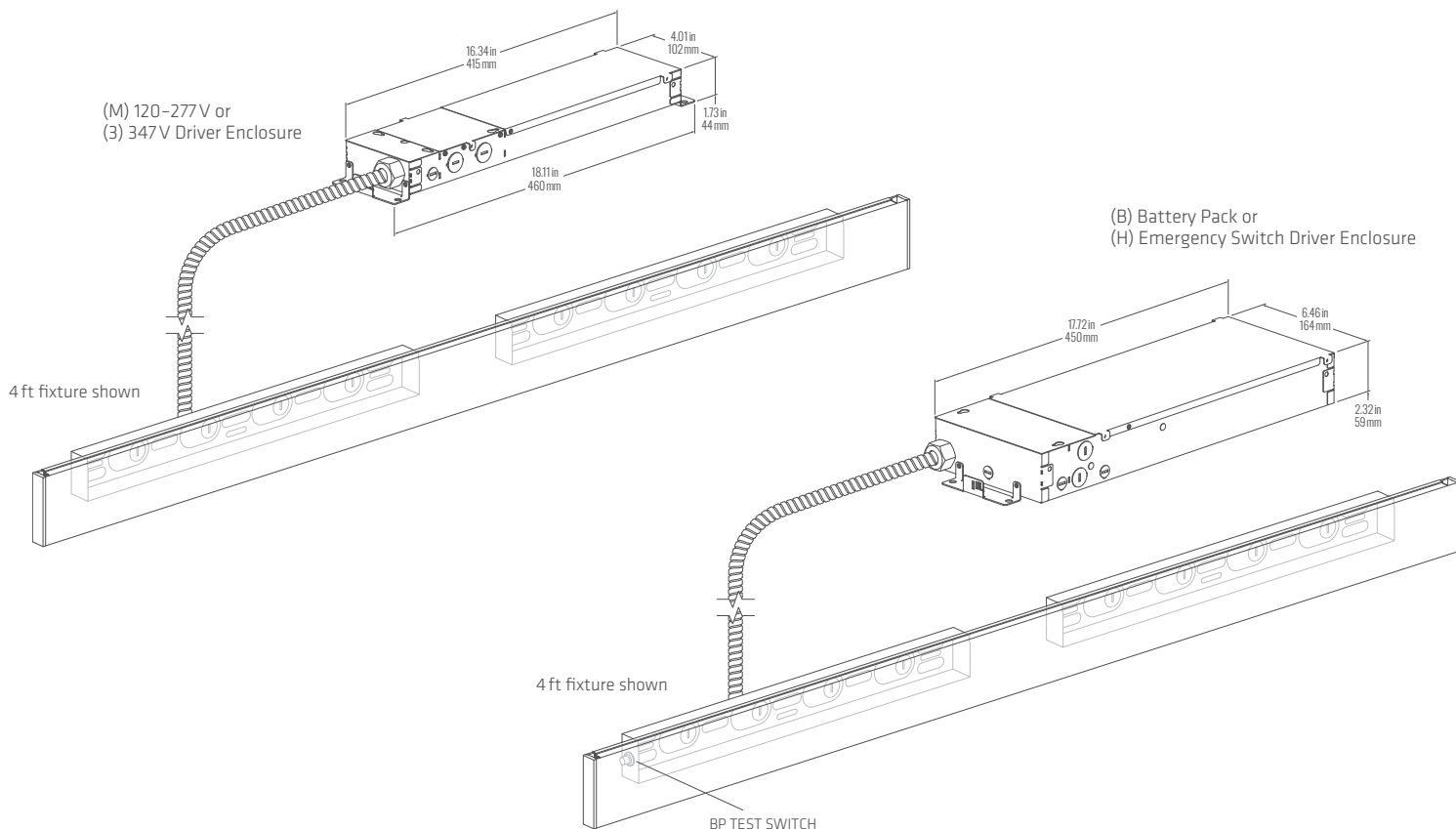
(D) DRYWALL

For GWB, wood panel.



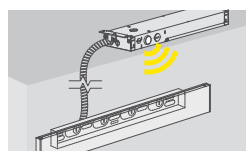
(R) REMOTE DRIVER

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

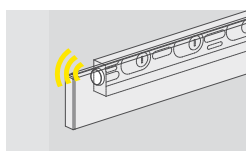


CONTROLS & SENSORS

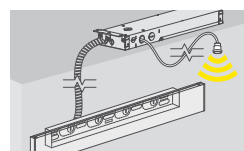
LUMINAIRE INTEGRATION



V
Controller,
Remote Enclosure



Y
Controller,
Fixture/Room Side

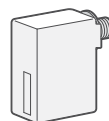


R
Sensor,
Remote/on Ceiling

(N1) Acuity
nLight Wired



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

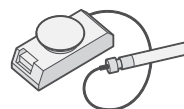


VN1 nLight Wired Controller, Remote Enclosure

(N2, N3) Acuity
nLight Air



Acuity nLight wireless network
interfaces.
Models: rIO, rPP20



VN2 nLight rIO Controller, Remote Enclosure
YN2 nLight rIO Controller, Fixture/Room Side
VN3 nLight rPP20 Controller, Remote Enclosure

(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

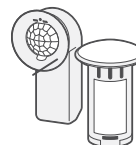


VL1 Athena Controller, Remote Enclosure
YL1 Athena Controller, Fixture/Room Side
RL1 Athena Sensor, Remote/on Ceiling

(M1) Legrand
Wattstopper
PLUS



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

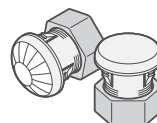


VM1 Wattstopper PLUS Control Module,
Remote Enclosure
YM1 Wattstopper PLUS Control Module,
Fixture/Room Side
RM1 SensiLUM Sensor, Remote/on Ceiling

(V1) Leviton
Intellect



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



VV1 Intellect Controller, Remote Enclosure
YV1 Intellect Controller, Fixture/Room Side
RV1 Intellect Sensor, Remote/on Ceiling

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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.

Spec-Fluxwerx-LinesOnwall-4-8ft-na-en | 2025-04

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 $\geq$ L80 @ 102,000 h
- Available in 2700 K, 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

- 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 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.

WEIGHT

- Fixture: 1 lb (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	
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

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

FAMILY PERFORMANCE

COLOR

80 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	83	82	81
Red Index (R9)	9	2	1
Fidelity (TM-30 R _f)	84	84	84
Gamut (TM-30 R _g)	94	95	94
Color Matching (SDCM)	< 2		

90 CRI	4000 K	3500 K	3000 K
Color Rendering (CRI)	94	93	92
Red Index (R9)	63	62	61
Fidelity (TM-30 R _f)	90	89	88
Gamut (TM-30 R _g)	96	97	96
Color Matching (SDCM)	< 2		

Typical colorimetry values.

LUMEN MAINTENANCE

13 W (B) – 38 W (G)	
L90 per TM-21 (hr)	> 59,000
L80 per TM-21 (hr)	> 102,000

OUTPUT MULTIPLIERS

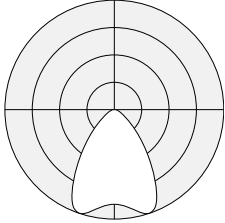
MULTIPLIER	Applies To			
90 CRI	0.84	All 80 CRI		
Battery Pack	1.01	Energy B (13 W)		

FINISH	100 Dn (W1)	30 70 (Y3)	65 35 (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 (lm), Efficacy (lm/W), Intensity (Cd), Luminance (Cd/m²) and IES files.

VERSION PERFORMANCE

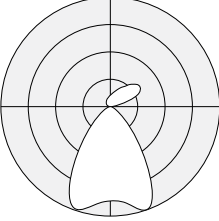
W1 – 100 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45–90° (Cd)	UGR (4H x 8H)	
LW1-WS4-W1840 4000 K	B	13 W	1602	11.69	137.0	1,043	344	23.7	
	C	16 W	2186	14.95	146.3	1,424	470	24.8	
	D	20 W	2701	19.99	135.2	1,759	581	>25	
	E	25 W	3429	25.29	135.6	2,233	738	>25	
	F	31 W	4243	31.06	136.6	2,763	912	>25	
LW1-WS4-W1835 3500 K	B	13 W	1587	11.69	135.7	1,034	341	23.7	
	C	16 W	2166	14.95	144.9	1,411	466	24.8	
	D	20 W	2676	19.99	133.9	1,743	576	>25	
	E	25 W	3397	25.29	134.3	2,212	731	>25	
	F	31 W	4203	31.06	135.3	2,737	904	>25	
LW1-WS4-W1830 3000 K	B	13 W	1550	11.69	132.6	1,010	333	23.6	
	C	16 W	2116	14.95	141.5	1,378	455	24.7	
	D	20 W	2614	19.99	130.8	1,702	562	>25	
	E	25 W	3318	25.29	131.2	2,161	714	>25	
	F	31 W	4106	31.06	132.2	2,674	883	>25	
LW1-WS4-W1827 2700 K	B	13 W	1479	11.69	126.4	963	318	23.4	
	C	16 W	2018	14.95	135.0	1,314	434	24.5	
	D	20 W	2493	19.99	124.8	1,624	536	>25	
	E	25 W	3165	25.29	125.1	2,062	681	>25	
	F	31 W	3916	31.06	126.1	2,551	842	>25	

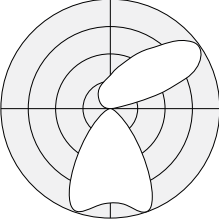
LINES ONWALL 4|6|8 FT (LW1-WS48)

VERSION PERFORMANCE

Y3 – Asymmetric 30 Up|70 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	UGR (4H x 8H)	
LW1-WS4-Y3840 4000 K	B	13 W	1477	11.48	128.6	689	221	18.7	 Lines Onwall Y3 Asymmetric 28% Up 72% Dn
	C	16 W	2015	14.67	137.4	940	302	19.8	
	D	20 W	2490	19.62	126.9	1,162	373	20.5	
	E	25 W	3161	24.83	127.3	1,475	474	21.4	
	F	31 W	3911	30.49	128.3	1,824	586	22.1	
	G	38 W	4907	38.49	127.5	2,289	736	22.9	
LW1-WS4-Y3835 3500 K	B	13 W	1463	11.48	127.4	682	219	18.7	
	C	16 W	1996	14.67	136.1	931	299	19.8	
	D	20 W	2467	19.62	125.7	1,151	370	20.5	
	E	25 W	3131	24.83	126.1	1,461	469	21.3	
	F	31 W	3874	30.49	127.1	1,807	581	22.1	
	G	38 W	4861	38.49	126.3	2,268	729	22.9	
LW1-WS4-Y3830 3000 K	B	13 W	1429	11.48	124.5	667	214	18.6	
	C	16 W	1950	14.67	132.9	910	292	19.7	
	D	20 W	2409	19.62	122.8	1,124	361	20.4	
	E	25 W	3059	24.83	123.2	1,427	458	21.3	
	F	31 W	3784	30.49	124.1	1,766	567	22.0	
	G	38 W	4749	38.49	123.4	2,215	712	22.8	
LW1-WS4-Y3827 2700 K	B	13 W	1363	11.48	118.7	636	204	18.5	
	C	16 W	1860	14.67	126.8	868	279	19.5	
	D	20 W	2298	19.62	117.2	1,072	344	20.3	
	E	25 W	2918	24.83	117.5	1,361	437	21.1	
	F	31 W	3610	30.49	118.4	1,684	541	21.8	
	G	38 W	4529	38.49	117.7	2,113	679	22.6	

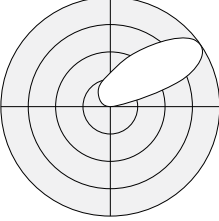
Y6 – Asymmetric 65 Up|35 Dn, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	UGR (4H x 8H)	
LW1-WS4-Y6840 4000 K	B	13 W	1414	11.44	123.7	332	111	11.3	 Lines Onwall Y6 Asymmetric 66% Up 34% Dn
	C	16 W	1814	14.57	124.5	426	142	12.2	
	D	20 W	2340	18.51	126.4	550	184	13.0	
	E	25 W	2987	23.34	128.0	702	235	13.9	
	F	31 W	3699	28.96	127.7	869	290	14.6	
	G	38 W	4667	37.46	124.6	1,096	367	15.4	
LW1-WS4-Y6835 3500 K	B	13 W	1401	11.44	122.5	329	110	11.3	
	C	16 W	1808	14.56	124.2	425	142	12.1	
	D	20 W	2318	18.51	125.2	545	182	13.0	
	E	25 W	2959	23.34	126.8	695	232	13.9	
	F	31 W	3664	28.96	126.5	861	288	14.6	
	G	38 W	4623	37.46	123.4	1,086	363	15.4	
LW1-WS4-Y6830 3000 K	B	13 W	1369	11.44	119.7	322	108	11.2	
	C	16 W	1730	14.61	118.4	406	136	12.0	
	D	20 W	2264	18.51	122.3	532	178	12.9	
	E	25 W	2891	23.34	123.9	679	227	13.8	
	F	31 W	3579	28.96	123.6	841	281	14.5	
	G	38 W	4516	37.46	120.5	1,061	355	15.3	
LW1-WS4-Y6827 2700 K	B	13 W	1305	11.44	114.1	307	102	11.0	
	C	16 W	1676	14.56	115.1	394	132	11.9	
	D	20 W	2160	18.51	116.7	508	170	12.8	
	E	25 W	2757	23.34	118.2	648	217	13.6	
	F	31 W	3414	28.96	117.9	802	268	14.4	
	G	38 W	4308	37.46	115.0	1,012	338	15.2	

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

VERSION PERFORMANCE

Y9 – Asymmetric 100 Up, 80 CRI

CONFIGURATION			LIGHT & POWER				VISUAL COMFORT		LIGHT DISTRIBUTION
CCT	ENERGY (NOM.)		LIGHT (lm/4ft)	POWER (W/4ft)	EFFICACY (lm/W)	MAX BEAM INTENSITY (Cd)	MAX INTENSITY 45-90° (Cd)	UGR (4H x 8H)	
LW1-WS4-Y9840 4000 K	B	13 W	1325	11.87	111.6	-	-	-	 Lines Onwall Y9 Asymmetric 100% Up
	C	16 W	1711	15.11	113.2	-	-	-	
	D	20 W	2193	19.22	114.1	-	-	-	
	E	25 W	2799	24.23	115.6	-	-	-	
	F	31 W	3466	30.07	115.3	-	-	-	
	G	38 W	4374	38.89	112.5	-	-	-	
LW1-WS4-Y9835 3500 K	B	13 W	1313	11.87	110.6	-	-	-	
	C	16 W	1695	15.11	112.1	-	-	-	
	D	20 W	2172	19.22	113.0	-	-	-	
	E	25 W	2773	24.23	114.5	-	-	-	
	F	31 W	3434	30.07	114.2	-	-	-	
	G	38 W	4333	38.89	111.4	-	-	-	
LW1-WS4-Y9830 3000 K	B	13 W	1283	11.87	108.0	-	-	-	
	C	16 W	1655	15.11	109.5	-	-	-	
	D	20 W	2122	19.22	110.4	-	-	-	
	E	25 W	2709	24.23	111.8	-	-	-	
	F	31 W	3355	30.07	111.6	-	-	-	
	G	38 W	4233	38.89	108.8	-	-	-	
LW1-WS4-Y9827 2700 K	B	13 W	1224	11.87	103.0	-	-	-	
	C	16 W	1579	15.11	104.5	-	-	-	
	D	20 W	2024	19.22	105.3	-	-	-	
	E	25 W	2584	24.23	106.7	-	-	-	
	F	31 W	3200	30.07	106.4	-	-	-	
	G	38 W	4037	38.89	103.8	-	-	-	

Photometry Reports: 15316229.15 – 29, 15460735.01 – 05, 15504506.16 – 32

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%.