Prepared By	Catalog #	
Project	Comments	Date

LightingScience®

Changing the way the world experiences light.

Symetrie Flat

The Flat is a low profile, linear LED fixture featuring high lumen output and high quality illumination ideal for display cases, showcases, exhibits, under shelves, cove, alcoves and other venues.

Features

Typical Lumens	
Warm White	270 (lm/ft, lm/305mm)
Neutral White	280 (lm/ft, lm/305mm)
Cool White	340 (lm/ft, lm/305mm)
Power Consumption[1]	
Warm White	7 (w/ft, w/305mm)
Neutral White	6 (w/ft, w/305mm)
Cool White	7 (w/ft, w/305mm)
Efficacy[1]	
Warm White	39 (lm/w)
Neutral White[2]	47 (lm/w)
Cool White	49 (lm/w)
Color Temperature (CCT)	
Warm White	2950K
Neutral White	4100K
Cool White	5200K
Color Rendering Index (CRI)[2]	
Warm White	78
Neutral White	70
Cool White	70
Rated Life	50,000 Hours @ 70% Lumen Maintenance
Housing	
Standard	Natural Aluminum
Optional	Black
Mounting	All Options Included
Connections	Available with multiple series of fixtures
Lens	Prismatic Diffused Acrylic
Beam Spread	55°
Operating Temperature	-40°C to +40°C
Voltage	20 Volts DC (24VDC Max.)
Warranty	3 Year Limited
Standards	UL48, UL2108
Certification	c UL us LISTED, CE, ETL, RoHS COMPLIANT 2002/95/EC
Environment	DRY

[1] Fixture power consumption for 24.0 VDC is 7 watts per foot max.
[2] Engineering data, pending photometric testing.

Benefits

Low Energy Consumption.
- 7 (w/ft, w/305mm).

Free of UV and IR emissions.
- No product and packaging discoloration.

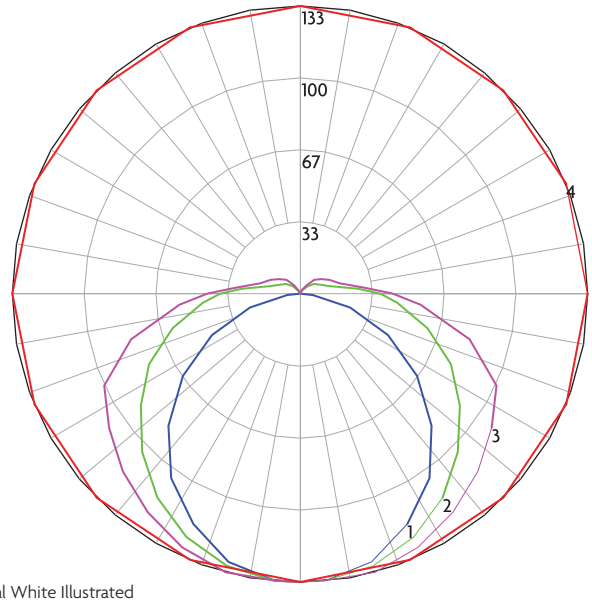
Lower Maintenance Cost.
- 50,000 hour life.

Environmentally Friendly.
- No mercury or other hazardous materials.
- Fully Recyclable

FLD SP002
July 2009

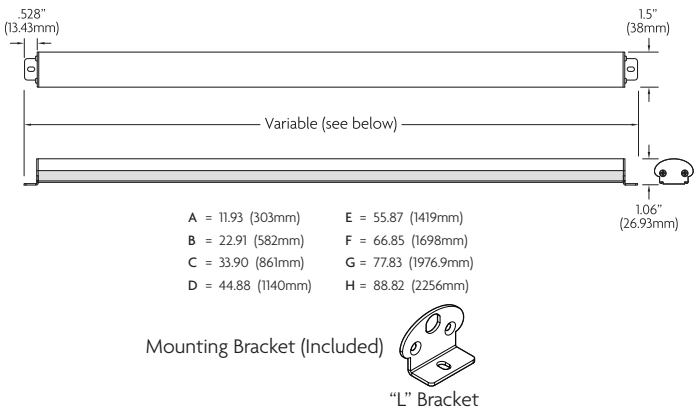
Symetrie Flat

Fixture Tested: Neutral White, B



Neutral White Illustrated

Maximum Candela = 133 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.) : BLUE
2 - Vertical Plane Through Horizontal Angles (45 - 225) : GREEN
3 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA
4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.) : RED



Dimensions shown in inches (mm)

Cautions

- Dry location use only.
- Fixtures are suitable for cabinet use or for surface mounting inside a cabinet.
- UL and ETL recognition is valid when fixtures are used only with 24 VDC, 4 Amp max output Class 2 power units that are cord connected or direct plug-in.

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	5,081	4,654	4,836
55°	4,746	4,514	4,890
65°	4,299	4,493	5,124
75°	3,578	4,414	4,953
85°	2,185	4,464	4,411

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0–30	75.7	N.A.	13.3
0–40	140.77	N.A.	24.8
0–60	296.86	N.A.	52.4
0–90	511.19	N.A.	90.1
90–120	40.81	N.A.	7.2
90–130	48.22	N.A.	8.5
90–150	55.17	N.A.	9.7
90–180	55.87	N.A.	9.9
0–180	567.06	N.A.	100

LightingScience®

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Specifications subject to change.

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Ordering Information

Example: FLD NW A MTL W18 PDF NTL

Product	Color Temperature	Fixture Length	Power Connection	DC Cable Wire Length	Lens Type	Finish
FLD Flat	**CW** Cool White	**A** 11.93" (303mm)	**MTL**[1] Multiple Series	**W06** 6"	**PDF** Prismatic Diffused	**BLK** Black[3]
	NW Neutral White	**B** 22.91" (582mm)	**SGM** Single End - Male	**W18** 18"		**NTL** Natural
	WW Warm White	**C** 33.90" (861mm)		**W48** 48"		
		D 44.88" (1140mm)		**Custom**[2]		
		E 55.87" (1419mm)				
		F 66.85" (1698mm)				
		G 77.83" (1976.9mm)				
		H 88.82" (2256mm)				
		Custom[2]				

All mounting hardware included with each unit. Custom DC extension cables available to order as a separate unit.

1. Male connector on one end, female on opposite end to connect a series of fixtures.
2. Please contact a representative for available options.
3. For lead time contact a representative.

Power Supply Compatibility

Must be ordered separately

Power Supply Part No.	Fixture Length (Max) (Inches/Mm)	DC Output Voltage	Input Voltage	Output Wattage	AC Cord[1] Options	DC Cord (Inches/Mm)	Certifications	IP Rating	Operating Temp	Frequency	Weight (Ounces/Grams)
Fixture Only (w/ft, w/305mm)		5.7									
PS 025W 1[4]	48 / 1219	21 VDC	120 VAC	25W	Wall-Mount USA Plug	1 - 48 / 1 - 1219	UL, cUL, VCCI, CB	Dry Location	0°to 40°C	60Hz	5.2 / 145
PS 025W 2/3	48 / 1524	21 VDC	100-240 VAC	25W	Univ. AC, Wall-Mount, UK, EU, Japan	1 - 48 / 1 - 1219	UL, cUL, VCCI, CB	Dry Location	0°to 40°C	50/60 Hz	9.4 / 262
PS 025 1[4] PS 025 2 PS 025 3 PS 025 4	48 / 1524	24 VDC	85-277 VAC	25W	NEMA 5-15P UK-Type G EU-Type E AU-Type I	1 - 48 / 1 - 1219	UL[2], cUL[2], CE, ETL, FCC	Dry Location	-25°to 50°C	50/60 Hz	1lb-9.6oz / 725
PS 060 1[4] PS 060 2 PS 060 3 PS 060 4	120 / 3048	24 VDC	100-240 VAC	60W	NEMA 5-15P UK-Type G EU-Type E AU-Type I	2 - 48 / 2 - 1219	UL, cUL, CE, ETL, FCC	IP64	-25°to 50°C	50/60 Hz	2lb-3.6oz / 1010
Dimmable[3] PSDM 060 1[4] PSDM 060 2 PSDM 060 3 PSDM 060 4	120 / 3048	24 VDC (Adjustable)	100-240 VAC	60W	NEMA 5-15P UK-Type G EU-Type E AU-Type I	2 - 48 / 2 - 1219	Pending	IP64	-30°to 70°C	47 to 63 Hz	2lb-9oz / 1177
PS 096 1[4] PS 096 2 PS 096 3 PS 096 4	192 / 4876	24 VDC (Adjustable)	90-240 VAC OR 90-277 VAC	96W	NEMA 5-15P UK-Type G EU-Type E AU-Type I	3 - 48 / 3 - 1219	UL, cUL, CE, ETL, FCC, CISPR, Class B	IP66**	-30°to 70°C	47 to 63 Hz	2lb-9.1oz / 1177
Dimmable[3] PSDM 096 1[4] PSDM 096 2 PSDM 096 3 PSDM 096 4	192 / 4876	24 VDC (Adjustable)	90-240 VAC OR 90-277 VAC	96W	NEMA 5-15P UK-Type G EU-Type E AU-Type I	2 - 48 / 2 - 1219	Pending	IP66**	-30°to 70°C	47 to 63 Hz	2lb-9oz / 1177

1. Power Supply P/N with "1" suffix is USA/Japan Plug, "2" is European UK Plug, "3" is EU Plug, "4" is Australian/New Zealand, "5" is Wire Leads.
2. Approval pending.

3.Currently tested for use with the following 3-wire dimmers Leviton Illumatech IP710-DLX; Lutron® Nova NTFTV; Lithonia Control Systems Advance Mark VII, and Hunt Control Systems PS-010.

4. Products using a NEMA 5-15P AC connector for the input cord must be marked with 120 VAC per UL and ETL guidelines; even if the power supply capability is 100-277 VAC.

* IP66 in accordance to EN60529. Contact factory for conditions of acceptability.

**The power supply primary strain relief must be changed by the customer for a connection to liquid tight conduit fitting. The liquid tight shall be provided by the customer with listed (QCRV) 1/2 inch, liquid tight conduit fittings, When field wired, a junction box is not provided. Installer is to use a UL listed junction box suitable for use in wet location for primary leads connection.

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