



d³series

D-Series Size 1 LED Flood Luminaire



Catalog
Number

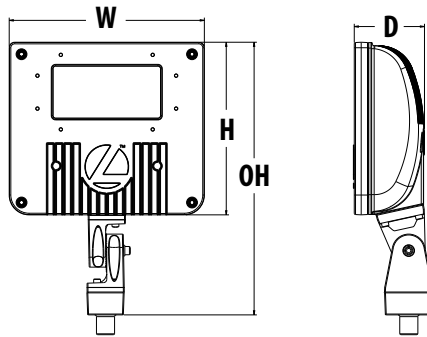
Notes

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Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.6 ft ² (0.05 m ²)
Depth:	3-1/8" (8.0 cm)
Width:	8-7/8" (22.4 cm)
Height:	7-3/4" (19.8 cm)
Overall Height:	12" (30.5 cm)
Weight:	7.2 lbs (3.3 kg)



Introduction

D-Series Size 1 Flood features advanced optics and precision illumination in a sleek and compact form that seamlessly blends with the environment. State of the art reflector design with cutting edge chip-on-board LED technology produces excellent uniformity using precision beam patterns. Provides long-life replacement for 70-150W metal halide floodlights offering up to 77% energy savings with expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSXF1 LED P1 40K MSP MVOLT THK DDBXD

DSXF1 LED							
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (required)
DSXF1 LED	P1	30K 3000K	NSP Narrow spot	MVOLT ¹	Shipped included	Shipped installed	DDBXD Dark bronze
	P2	40K 4000K	MSP Medium spot	120 ²	THK Knuckle with 1/2" NPS threaded pipe	PE Photocontrol, button style ^{4,5}	DBLXD Black
		50K 5000K	MFL Medium flood	208 ²	IS Integral slipfitter (fits 2-3/8" O.D. tenon)	PEX Photocontrol external threaded adjustable ⁵	DNAXD Natural aluminum
			FL Flood	240 ²	YKC62 Yoke with 16-3 SO cord	SF Single fuse (120, 277, 347V) ²	DWHXD White
		WFL Wide flood	277 ²	Shipped separately³	DF Double fuse (208, 240) ²		
		WFR Wide flood, rectangular	347 ²	DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required)	DMG 0-10V dimming driver (no controls)	Shipped separately³	
		HMF Horizontal flood		FTS CG6 Tenon Slipfitter (fits 2-3/8" to 2-7/8" O.D. tenon. YKC62 required)	UBV Upper/bottom visor (universal)		
					FV Full visor		
					VG Vandal guard		

Accessories

Ordered and shipped separately.

DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" OD tenons; mates with 1/2" threaded knuckle (specify finish)
FRWB DDBXD U	Radius wall bracket, 2-3/8" OD tenon (specify finish)
FSPB DDBXD U	Steel square pole bracket, 2-3/8" OD tenon (specify finish)
DSXF1UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF1FV DDBXD U	Full visor accessory (specify finish)
DSXF1VG U	Vandal guard accessory

For more mounting options, visit our [Floodlighting Accessories](#) pages.

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number	CI Code
DSXF1 LED P1 40K WFL MVOLT THK DDBXD	DSXF1 LED P1 40K	*240TJH
DSXF1 LED P1 50K WFL MVOLT THK DDBXD	DSXF1 LED P1 50K	*240TJG
DSXF1 LED P1 40K WFL MVOLT YKC62 DDBXD	DSXF1 LED P1 40K YK	*263KL9
DSXF1 LED P1 50K WFL MVOLT YKC62 DDBXD	DSXF1 LED P1 50K YK	*263UJE
DSXF1 LED P2 40K WFL MVOLT THK DDBXD	DSXF1 LED P2 40K	*240TJL
DSXF1 LED P2 50K WFL MVOLT THK DDBXD	DSXF1 LED P2 50K	*240TJJ
DSXF1 LED P2 40K WFL MVOLT YKC62 DDBXD	DSXF1 LED P2 40K YK	*263KLA
DSXF1 LED P2 50K WFL MVOLT YKC62 DDBXD	DSXF1 LED P2 50K YK	*263UJG
DSXF1/2 Slip-fitter Tenon Accessory DDBXD	DSXF1/2TS DDBXD U	*216GSK

NOTES

- MVOLT driver operates on line voltage from 120-277V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as accessories; see Accessories information at left.
- Rated 25C maximum ambient for performance package P2. Specify PEX for higher ambient temperatures.
- Photocontrol (PE, PEX) requires 120, 208, 240, 277 or 347 voltage option.
- Must specify 120, 277 or 347 voltage option.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	Field Angle		Beam Angle		30K (3000K, 70 CRI)			40K (4000K, 70 CRI)			50K (5000K, 70 CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
			P1	21W	NSP	37	38	18	19	16,316	2,601	124	18,039	2,876	137
		MSP	51	51	27	28	9,908	2,578	123	10,954	2,850	136	10,954	2,850	136
		MFL	60	60	46	45	4,027	2,435	116	4,452	2,692	128	4,452	2,692	128
		FL	84	91	59	72	2,255	2,682	128	2,494	2,965	141	2,494	2,965	141
		WFL	109	101	86	85	1,494	2,766	132	1,652	3,058	146	1,652	3,058	146
		WFR	103	92	80	71	1,809	2,794	133	2,000	3,089	147	2,000	3,089	147
		HMF	124	63	100	48	2,001	2,329	111	2,212	2,575	123	2,212	2,575	123
P2	42W	NSP	37	38	18	19	29,740	4,741	113	32,881	5,242	125	32,881	5,242	125
		MSP	51	51	27	28	18,060	4,699	112	19,967	5,195	124	19,967	5,195	124
		MFL	60	50	46	45	7,340	4,439	106	8,115	4,908	117	8,115	4,908	117
		FL	84	91	59	72	4,111	4,889	116	4,545	5,406	129	4,545	5,405	129
		WFL	109	101	86	85	2,568	4,753	113	3,011	5,573	133	3,011	5,573	133
		WFR	103	92	80	71	3,297	5,094	121	3,645	5,631	134	3,645	5,632	134
		HMF	124	63	100	48	3,647	4,245	101	4,032	4,693	112	4,032	4,693	112

IF REPLACING OLD BELOW	USE NEW BELOW	RECOMMENDED	ALSO CONSIDER
DSXF1 LED 1	DSXF1 LED P1	Summary, customer gets ~ 900 more lumens* at slightly higher watts	---
DSXF1 LED 2	DSXF1 LED P2	Summary, customer gets ~ 1500 more lumens* at higher watts	Consider dropping down to DSXF1 LED P1, however 900 lumens less VS. older design, but at half the watts
DSXF2 LED 3	DSXF1 LED P2	Summary, use size 1-P2 at lower watts, roughly same lumens	If staying with size two, same watts, but 2000 more lumens
DSXF2 LED 4	DSXF2 LED P1	Summary, use size 2-P1 at lower watts, roughly same lumens	---

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	
0°C	32°F
10°C	50°F
20°C	68°F
25°C	77°F
30°C	86°F
40°C	104°F

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXF1 LED P2** platform noted in a 25C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.97	0.96	0.95

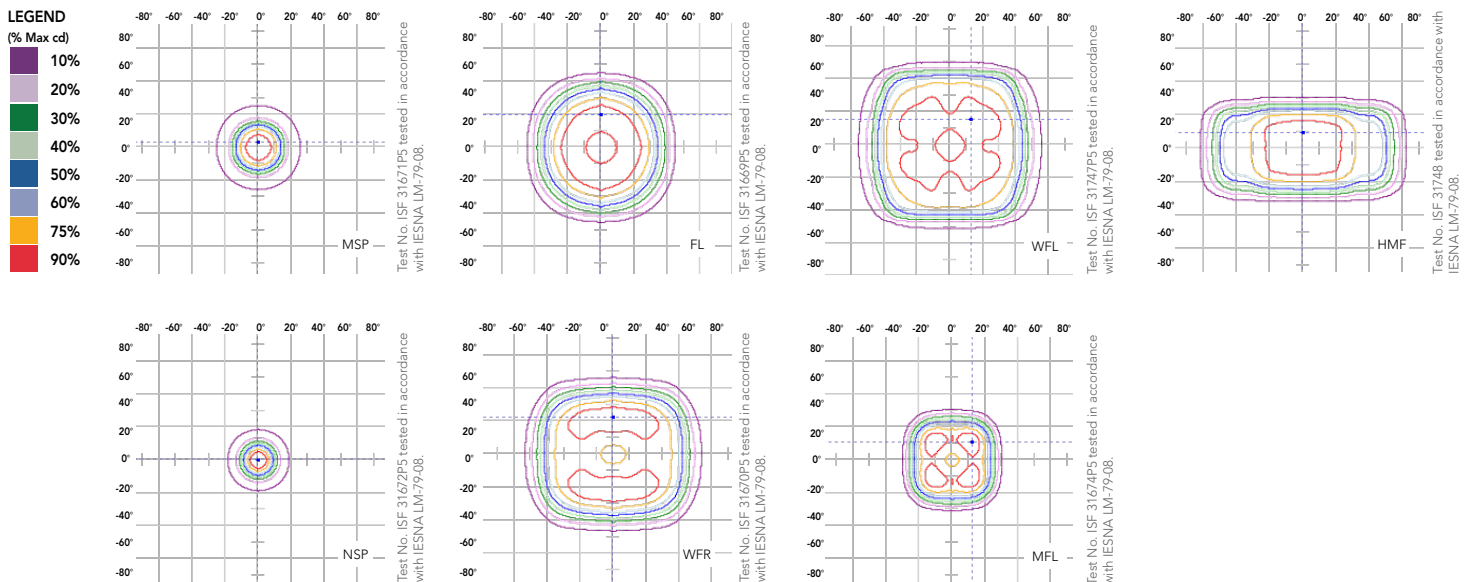
Electrical Load

Light Engines	System Watts	Current (A)					
		120	208	240	277	347	480
P1	21W	0.18	0.1	0.09	0.08	0.07	-
P2	42W	0.35	0.20	0.18	0.15	0.12	-

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Flood Size 1 homepage](#).

Iscandela plots for the DSXF1 LED P2 40K.



Mounting, Options and Accessories



THK - Knuckle with 1/2" NPS threaded pipe



YKC62 - Yoke with 50 cord
H= 4-1/4" (10.7 cm)
D= 2-1/4" (5.7 cm)



IS - Integral slipfitter
H= 2-1/2" (6.3 cm)
ID= 2-3/8" (6.0 cm)
OD= 3-1/2" (8.8 cm)



UBV - Upper/bottom visor
W= 5-1/4" (13.3 cm)
H= 2-1/2" (6.3 cm)
D= 3" (7.6 cm)



FV - Full visor
W= 5-1/4" (13.3 cm)
H= 2-1/2" (6.3 cm)
D= 3" (7.6 cm)



VG - Vandal guard
W= 6-1/2" (16.5 cm)
H= 4" (10.1 cm)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 Flood reflects the embedded high performance LED technology. It is ideal for landscape, signage and accent lighting in many commercial and residential applications.

CONSTRUCTION

Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants using a tempered glass lens (IP66). Low EPA (0.6 ft) for optimized wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

A variety of precision-molded vacuum-metallized specular reflectors are engineered for superior target illumination, uniformity and spacing. Light engines are available in 3000K (70 CRI min.), 4000K (70 CRI min.) or 5000K (70 CRI min.) configurations. Optional visors offer additional versatility.

ELECTRICAL

Light engine(s) consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L80). Single-engine unit uses a Class 2 electronic driver; dual-engine unit uses a Class 1 electronic driver. Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Standard 6KV surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Integral adjustable knuckle with 1/2-14NPS threaded pipe, tenon slipfitter, or integral slipfitter, facilitates quick and easy installation to a variety of mounting accessories. This secure connection enables the D-Series Size 1 to withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.