



d<sup>2</sup>series

# D-Series Size 2 LED Flood Luminaire



Catalog Number

Notes

Type

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

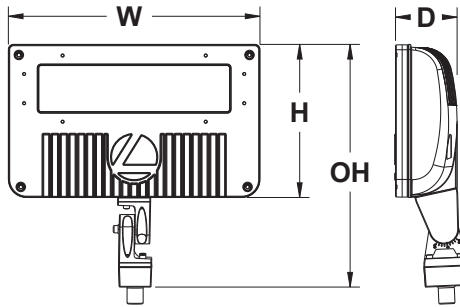
## Introduction

The D-Series Size 2 Flood features precision optics to beautifully illuminate a variety of applications as its sleek, compact styling blends seamlessly with its environment.

The D-Series Flood reflector systems and cutting-edge chip-on-board LED technology produce excellent uniformity combined with precision beam patterns for minimal spill light and incredible photometric performance. It's the ideal long-life replacement for 150 - 250W metal halide floods, with typical energy savings of 70% and expected service life of over 100,000 hours.

## Specifications

<b>EPA:</b>	0.8 ft <sup>2</sup> (0.05 m <sup>2</sup> )
<b>Depth:</b>	3-1/8" (8.0 cm)
<b>Width:</b>	12-7/8" (32.6 cm)
<b>Height:</b>	7-3/4" (19.8 cm)
<b>Overall Height:</b>	12" (30.5 cm)
<b>Weight:</b>	10.5 lbs (4.8 kg)



## Ordering Information

**EXAMPLE:** DSXF2 LED P1 40K MSP MVOLT THK DDBXD

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (required)
DSXF2 LED	P1 P2 P3 <sup>1,2,3</sup>	30K 3000K 40K 4000K 50K 5000K	NSP Narrow spot MSP Medium spot MFL Medium flood FL Flood WFL Wide flood WFR Wide flood, rectangular HMF Horizontal flood	MVOLT <sup>4</sup> 120 <sup>4</sup> 208 <sup>4</sup> 240 <sup>4</sup> 277 <sup>4</sup> 347 480 <sup>5</sup> HVOLT	<b>Shipped included</b> THK Knuckle with 1/2" NPS threaded pipe YKC62 Yoke with 16-3 SO cord IS Integral slipfitter (fits 2-3/8" O.D. tenon) <b>Shipped separately<sup>6</sup></b> DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required) FTS CG6 Tenon slipfitter (2-7/8" O.D. YKC62 required)	<b>Shipped installed</b> PE Photocontrol, button style <sup>7,8</sup> PEX Photocontrol external threaded adjustable <sup>8</sup> DMG 0-10V dimming driver (no controls) SF Single fuse (120, 277, 347V) <sup>9</sup> DF Double fuse (208, 240, 480V) <sup>10</sup> SPD10KV Separate surge protection <sup>11</sup> <b>Shipped separately<sup>6</sup></b> UBV Upper/bottom visor (universal) FV Full visor VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White

## 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)
FTS CG6 DDBXD U	Slipfitter for 2-3/8" to 2-7/8" OD tenons; mates with yoke mount (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)
DSXF2UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF2FV DDBXD U	Full visor accessory (specify finish)
DSXF2VG 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
DSXF2 LED P1 50K WFL MVOLT THK DDBXD	DSXF2 LED P1 50K
DSXF2 LED P2 50K WFL MVOLT THK DDBXD	DSXF2 LED P2 50K

## NOTES

- Performance package P3 rated 35C maximum ambient.
- Not available with PE (use PEX).
- Rated 25C maximum ambient with SPD10KV.
- MVOLT driver operates on line voltage from 120-277V. Specify specific voltage when ordering with fusing (SF, DF) or photocontrol (PE, PEX).
- Not available with PE and PEX.
- Also available as accessories; see accessories information at left.
- Rated 25C maximum ambient for performance package P2. Not available in performance package P3. 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.
- Must specify 208, 240 or 480 voltage option.
- Cannot exceed 25°C maximum ambient when used with P3 performance package.



# 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	54W	NSP	39	39	19	18	43,427	7,338	136	45,662	7,715	143	45,662	7,715	143	
			MSP	52	51	28	28	26,563	7,010	130	27,930	7,371	137	27,930	7,371	137
			MFL	59	59	45	46	11,831	7,058	131	12,440	7,421	137	12,440	7,421	137
			FL	87	87	62	68	6,258	7,309	135	6,581	7,686	142	6,581	7,686	142
			WFL	114	101	87	83	3,991	7,413	137	4,197	7,794	144	4,197	7,794	144
			WFR	107	92	81	71	4,827	7,429	138	5,076	7,811	145	5,076	7,811	145
P2	78W	HMF	123	64	89	50	6,580	6,765	125	6,919	7,113	132	6,919	7,113	132	
			NSP	39	39	19	18	59,506	10,054	129	62,568	10,572	136	62,568	10,572	136
			MSP	52	51	28	28	36,397	9,606	123	38,271	10,100	129	38,271	10,100	129
			MFL	59	59	45	46	16,211	9,671	124	17,046	10,169	130	17,046	10,169	130
			FL	87	87	62	68	8,575	10,017	128	9,017	10,532	135	9,017	10,532	135
			WFL	114	101	87	83	5,469	10,157	130	5,751	10,680	137	5,751	10,680	137
P3	102W	WFR	107	92	81	71	6,615	10,179	131	6,955	10,703	137	6,955	10,701	137	
			HMF	123	64	89	50	9,017	9,269	119	9,481	9,746	125	9,481	9,746	125
			NSP	39	39	19	18	70,481	11,909	117	74,109	12,522	123	74,109	12,522	123
			MSP	52	51	28	28	43,111	11,377	112	45,330	11,963	117	45,330	11,963	117
			MFL	59	59	45	46	19,011	11,342	111	20,190	12,045	118	20,190	12,049	118
			FL	87	87	62	68	10,157	11,864	116	10,680	12,474	122	10,680	12,475	122
P3	102W	WFL	114	101	87	83	6,198	11,510	113	6,811	12,650	124	6,811	12,650	124	
			WFR	107	92	81	71	7,835	12,056	118	8,238	12,677	124	8,238	12,677	124
			HMF	123	64	89	50	10,680	10,979	108	11,230	11,544	113	11,230	11,544	113

## 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 DSXF LED P3 platform tested in a 25°C 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 below. For other lumen maintenance values, contact factory.

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

## Electrical Load

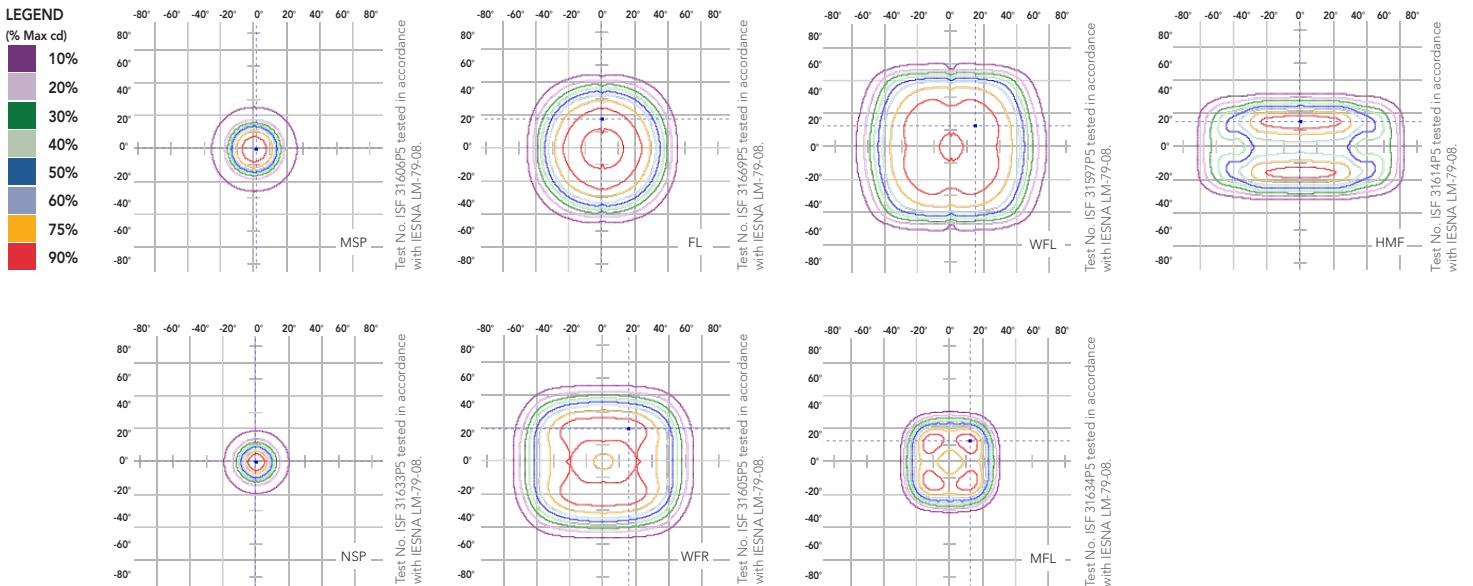
Light Engines	System Watts*	Current (A)					
		120	208	240	277	347	480
P1	54W	0.45	0.26	0.23	0.2	0.16	0.13
P2	78W	0.65	0.37	0.33	0.29	0.23	0.18
P3	102W	0.88	0.49	0.43	0.39	0.31	0.23

\* Systems Watts for 347-480V; P1: 56W, P2: 80W, P3: 103W.

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Flood Size 2 homepage](#).

Isocandela plots for the DSXF2 LED P2 40K.



## Mounting, Options and Accessories



**THK - Knuckle with  
1/2" NPS threaded pipe**



**YKC62 - Yoke with 50 cord**  
W= 4-3/4" (12.0 cm)  
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= 10" (25.4 cm)  
H= 2-1/2" (6.3 cm)  
D= 3" (7.6 cm)



**FV - Full visor**  
W= 10" (25.4 cm)  
H= 2-1/2" (6.3 cm)  
D= 3" (7.6 cm)



**VG - Vandal guard**  
W= 10-1/2" (26.6cm)  
H= 4" (10.1cm)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 2 Flood reflects the embedded high performance LED technology. It is ideal for larger signage, facade and flagpole 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 (0.8 ft<sup>2</sup>) 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). Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Standard 6KV surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Integral adjustable knuckle with 1/2-14 NPS threaded pipe, tenon slipfitter, or yoke mounting, facilitates quick and easy installation to a variety of mounting accessories. This secure connection enables the D-Series Size 2 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](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/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.