



d²series

D-Series Size 2 LED Flood Luminaire



Catalog
Number

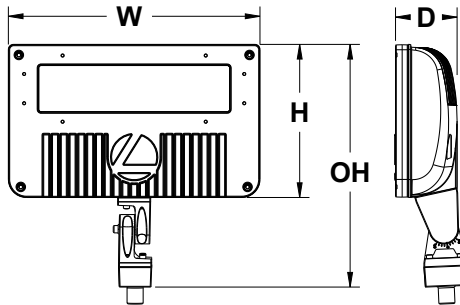
Notes

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

Specifications

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



Introduction

D-Series Size 2 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 150-250W metal halide floodlights offering up to 74% energy savings with expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSXF2 LED P1 40K MSP MVOLT THK DDBXD

DSXF2 LED							
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish <i>(required)</i>
DSXF2 LED	P1 P2 P3 ^{1,2,3}	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 ⁴ 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347 ⁵ 480 ^{5,6}	Shipped included 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) Shipped separately DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required) ⁷ FTS CG6 Tenon slipfitter (2-7/8" O.D. YKC62 required) ⁷	Shipped installed PE Photocontrol, button style ^{8,9} PEX Photocontrol external threaded adjustable ⁹ DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) SF Single fuse (120, 277, 347V) ⁵ DF Double fuse (208, 240, 480V) ⁵ SPD10KV Separate surge protection ¹⁰ Shipped separately 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	CI Code
DSXF2 LED P1 40K WFL MVOLT THK DDBXD	DSXF2 LED P1 40K	*240TJ9
DSXF2 LED P1 50K WFL MVOLT THK DDBXD	DSXF2 LED P1 50K	*240TJ8
DSXF2 LED P1 40K WFL MVOLT YKC62 DDBXD	DSXF2 LED P1 40K YK	*263KLF
DSXF2 LED P1 50K WFL MVOLT YKC62 DDBXD	DSXF2 LED P1 50K YK	*263UJK
DSXF2 LED P2 40K WFL MVOLT THK DDBXD	DSXF2 LED P2 40K	*240THT
DSXF2 LED P2 50K WFL MVOLT THK DDBXD	DSXF2 LED P2 50K	*240TJC
DSXF2 LED P2 40K WFL MVOLT YKC62 DDBXD	DSXF2 LED P2 40K YK	*263KLG
DSXF2 LED P2 50K WFL MVOLT YKC62 DDBXD	DSXF2 LED P2 50K YK	*263UJM
DSXF1/2 Slip-fitter Tenon Accessory DDBXD	DSXF1/2TS DDBXD U	*216G5K

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.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 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.
- 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	7,337	136	45,662	7,715	143	45,662	7,715	143
		MSP	52	51	28	28	26,563	7,010	130	27,930	7,370	136	27,930	7,370	136
		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	7,412	137	4,197	7,793	144	4,197	7,793	144
		WFR	107	92	81	71	4,827	7,427	138	5,076	7,810	145	5,076	7,810	145
		HMF	123	64	89	50	6,580	6,764	125	6,919	7,102	132	6,919	7,102	132
P2	78W	NSP	39	39	19	18	59,506	10,054	129	62,568	10,571	136	62,568	10,571	136
		MSP	52	51	28	28	36,397	9,605	123	38,271	10,099	129	38,271	10,099	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	10,016	128	9,017	10,531	135	9,017	10,531	135
		WFL	114	101	87	83	5,469	10,156	130	5,751	10,678	137	5,751	10,678	137
		WFR	107	92	81	71	6,615	10,177	131	6,955	10,701	137	6,955	10,701	137
		HMF	123	64	89	50	9,017	9,254	119	9,481	9,731	125	9,481	9,731	125
P3	102W	NSP	39	39	19	18	70,481	11,908	117	74,109	12,521	123	74,109	12,521	123
		MSP	52	51	28	28	43,111	11,377	112	45,330	11,962	117	45,330	11,962	117
		MFL	59	59	45	46	19,011	11,455	112	20,190	12,044	118	20,190	12,044	118
		FL	87	87	62	68	10,157	11,863	116	10,680	12,474	122	10,680	12,474	122
		WFL	114	101	87	83	6,198	11,508	113	6,811	12,648	124	6,811	12,648	124
		WFR	107	92	81	71	7,835	12,054	118	8,238	12,675	124	8,238	12,675	124
		HMF	123	64	89	50	10,680	10,961	107	11,230	11,526	113	11,230	11,526	113

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 V.S. 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 DSXF LED P3 platform noted 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

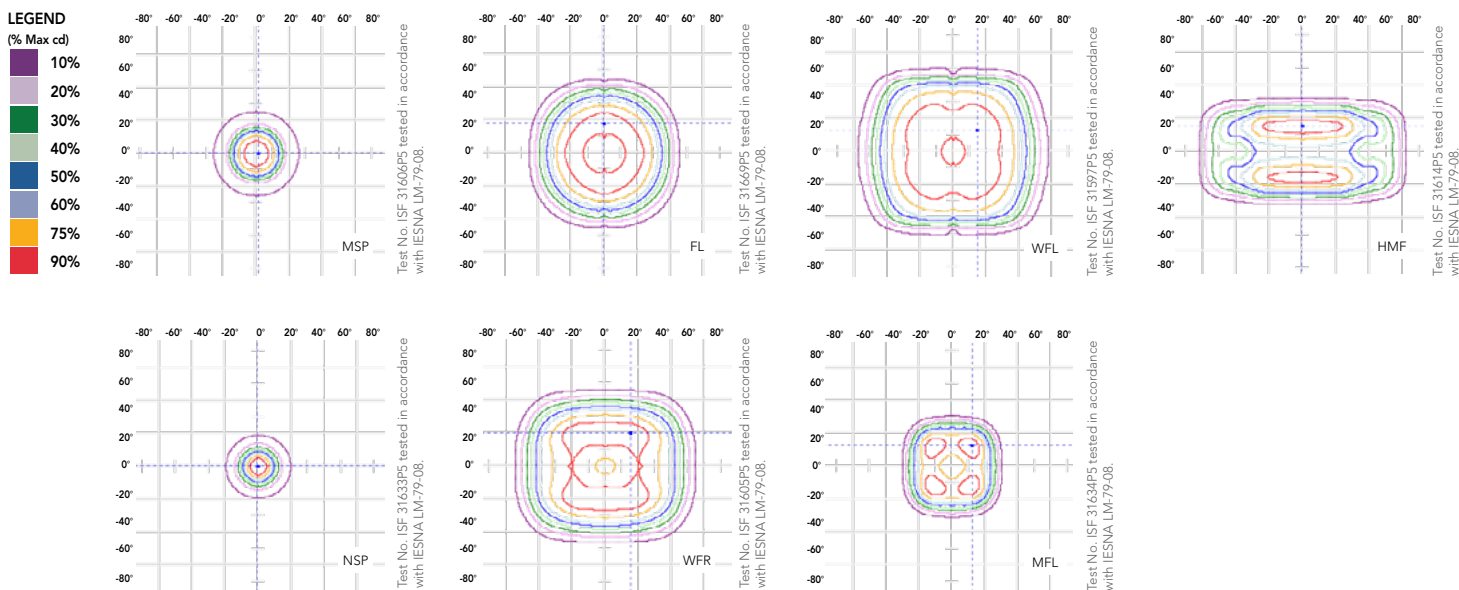
Light Engines	System Watts*	Current (A)					
		120	208	240	277	347	480
P1	54W	0.45	0.26	0.23	0.2	0.16	0.13
P2	78W	0.65	0.37	0.33	0.29	0.23	0.18
P3	102W	0.88	0.49	0.43	0.39	0.31	0.23

* 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.





**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" (26.6 cm)
H= 4" (10.1 cm)

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 ft²) 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 to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: 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.