D-Series Size 2
LED Flood Luminaire

d²series

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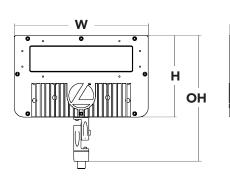
The D-Series Size 2 Flood features precision optics to beautifully illuminate a variety of applications as its sleek, compact styling blends seamlessly with its environment.

The D-Series Flood reflector systems and cutting-edge chip-on-board LED technology produce low field-to-beam ratios 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

EPA:	0.8 ft² (0.05 m²)
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)

W   D

H   OH

Ordering Information

EXAMPLE: DSXF2 LED 4 A530/40K MSP MVOLT THK DDBXD

DSXF2 LED

Series	Light Engines	Performance Package	Distribution		Voltage	Mounting		Options		Finish *(required)*	
DSXF2 LED	3 Three COB engines [1] 4 Four COB engines	**530 mA options:** A530/30K 3000K A530/40K 4000K A530/50K 5000K	NSP MSP MFL FL WFL WFR HMF	Narrow spot Medium spot Medium flood Flood Wide flood Wide flood, rectangular Horizontal flood	MVOLT [2] 120 [2] 208 [2] 240 [2] 277 [2] 347 480	**Shipped included** THK YKC62 **Shipped separately** [3] DSXF1/2TS FTS CG6	Knuckle with 1/2"NPS threaded pipe Yoke with 16-3 SO cord Tenon slipfitter (2–3/8" O.D. THK required) Tenon slipfitter (2–7/8" O.D. YKC62 required)	**Shipped installed** PE DMG SF DF **Shipped separately** [3] UBV FV VG	Photocontrol, button style [4] 0–10V dimming driver (no controls) [1,5] Single fuse (120, 277, 347V) [6] Double fuse (208, 240, 480V) [6] Upper/bottom visor (universal) Full visor Vandal guard	DDBXD DBLXD DNAXD DWHXD	Dark bronze Black Natural aluminum White

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
DSXF2 LED 3 A530/40K WFL MVOLT THK DDBXD	**DSXF2 LED 3 40K**
DSXF2 LED 3 A530/50K WFL MVOLT THK DDBXD	**DSXF2 LED 3 50K**
DSXF2 LED 4 A530/40K WFL MVOLT THK DDBXD	**DSXF2 LED 4 40K**
DSXF2 LED 4 A530/50K WFL MVOLT THK DDBXD	**DSXF2 LED 4 50K**

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.

NOTES
1. Not available with 347 or 480V.
2. MVOLT driver operates on any line voltage from 120-277V. Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE).
3. Also available as separate accessories; see Accessories information at left.
4. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option.
5. Not available with three-engine product (DSXF2 LED 3).
6. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 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.

Light Engines	Drive Current (mA)	Performance Package	System Watts	Dist. Type	Field Angle °H	Field Angle °V	Beam Angle °H	Beam Angle °V	40K (4000K, 70 CRI) Max Cd	40K Lumens	40K LPW	50K (5000K, 67 CRI) Max Cd	50K Lumens	50K LPW
3	530	A530/--K	58W	NSP	48	49	19	19	20,166	3834	66	20,103	3822	66
				MSP	50	48	24	23	18,619	4296	74	18,561	4283	74
				MFL	60	60	47	46	7751	4591	80	7726	4577	79
				FL	85	84	63	62	5124	4993	87	5108	4978	86
				WFL	106	106	71	72	3842	5250	91	3830	5233	91
				WFR	107	88	85	64	3828	5368	93	3816	5351	93
				HMF	100	62	80	13	3479	1694	29	3468	1688	29
4	530	A530/--K	79W	NSP	48	49	19	19	26,893	5112	64	26,809	5096	64
				MSP	50	48	24	23	24,830	5730	72	24,752	5712	72
				MFL	60	60	47	46	10,336	6123	77	10,304	6104	77
				FL	85	84	63	62	6833	6659	84	6811	6638	84
				WFL	106	106	71	72	5124	7001	88	5108	6979	88
				WFR	107	88	85	64	5105	7159	90	5089	7136	90
				HMF	100	62	80	13	4639	2259	28	4625	2252	28

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		Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXF LED 4 A530** platform in a **25°C ambient**, based on 8400 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	0.94	0.90	0.84

Electrical Load

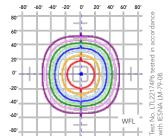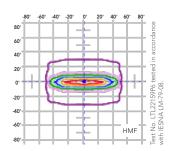| Light Engines	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
3	530	58W	0.54	0.31	0.27	0.23	0.19	0.13
4	530	79W	0.73	0.42	0.37	0.32	0.25	0.18

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 4 A530/40K.

LEGEND (% Max cd)
- 10%
- 20%
- 30%
- 40%
- 50%
- 60%
- 75%
- 90%

MSP — Test No. LTL22173P6 tested in accordance with IESNA LM-79-08.
FL — Test No. LTL22153P6 tested in accordance with IESNA LM-79-08.
WFL — Test No. LTL22174P6 tested in accordance with IESNA LM-79-08.
HMF — Test No. LTL22159P6 tested in accordance with IESNA LM-79-08.

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 (IP65). 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 field-to-beam ratios, uniformity and spacing. Light engines are available in 3000K (80 CRI min.), 4000K (70 CRI min.) or 5000K (67 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 at 25°C, L84). Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. 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, 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 IP65 rated. Rated for -40°C minimum ambient.

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

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.