



d<sup>®</sup>series

# D-Series Size 1 LED Flood Luminaire



Catalog  
Number

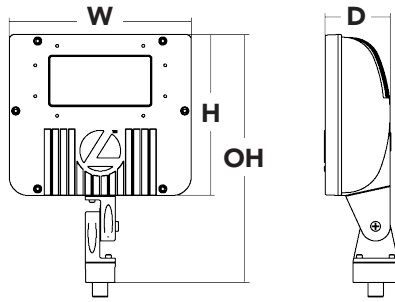
Notes

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## Specifications

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



## Introduction

The D-Series Size 1 Flood features precision optics to beautifully illuminate a variety of applications while its sleek, compact styling blends seamlessly with the 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 50 - 150W metal halide floods, with typical energy savings of 72% and expected service life of over 100,000 hours.

## Ordering Information

**EXAMPLE: DSXF1 LED 2 A530/40K MSP MVOLT THK DDBXD**

| Series    | Light Engines                         | Performance Package  | Distribution  | Voltage  | Mounting  | Options  | Finish <i>(required)</i>  |
|-----------|---------------------------------------|--|---|--|---|--|---|
| DSXF1 LED | 1 One COB engine<br>2 Two COB engines | <b>530 mA options:</b><br>A530/30K 3000K<br>A530/40K 4000K<br>A530/50K 5000K | NSP Narrow spot<br>MSP Medium spot<br>MFL Medium flood<br>FL Flood<br>WFL Wide flood<br>WFR Wide flood, rectangular<br>HMF Horizontal flood | MVOLT <sup>1</sup><br>120 <sup>1</sup><br>208 <sup>1</sup><br>240 <sup>1</sup><br>277 <sup>1</sup> | <b>Shipped included</b><br>THK Knuckle with 1/2" NPS threaded pipe<br>IS Integral slipfitter (fits 2-3/8" O.D. tenon)<br><b>Shipped separately<sup>2</sup></b><br>DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required) | <b>Shipped installed</b><br>PE Photocontrol, button style <sup>3</sup><br>SF Single fuse (120, 277V) <sup>4</sup><br><b>Shipped separately<sup>2</sup></b><br>UBV Upper/bottom visor (universal)<br>FV Full visor<br>VG Vandal guard | DDBXD Dark bronze<br>DBLXD Black<br>DNAXD Natural aluminum<br>DWHXD White |

Stock configurations are offered for shorter lead times:

| Standard Part Number                     | Stock Part Number      |
|--|------------------------|
| DSXF1 LED 1 A530/40K WFL MVOLT THK DDBXD | <b>DSXF1 LED 1 40K</b> |
| DSXF1 LED 1 A530/50K WFL MVOLT THK DDBXD | <b>DSXF1 LED 1 50K</b> |
| DSXF1 LED 2 A530/40K WFL MVOLT THK DDBXD | <b>DSXF1 LED 2 40K</b> |
| DSXF1 LED 2 A530/50K WFL MVOLT THK DDBXD | <b>DSXF1 LED 2 50K</b> |

## Accessories

Ordered and shipped separately.

|                   |  |
|-------------------|--|
| DSXF1/2TS DDBXD U | Slipfitter for 1-1/4" to 2-3/8" O.D. tenons; mates with 1/2" threaded knuckle (specify finish) |
| FRWB DDBXD U      | Radius wall bracket, 2-3/8" O.D. tenon (specify finish)  |
| FSPB DDBXD U      | Steel square pole bracket, 2-3/8" O.D. 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.

## NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF option) or photocontrol (PE).
- Also available as separate accessories; see Accessories information at left.
- Photocontrol (PE) requires 120, 208, 240 or 277 voltage option.
- Single fuse (SF) requires 120 or 277 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 values 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 |     | 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  |      |      |      |      |      |
| 1             | 530                | A530/-K             | 19W          | NSP        | 48          | 49  | 19         | 19  | 7062                | 1408   | 74   | 7300                | 1692   | 89   | 7277                | 1700   | 89   |      |      |      |      |      |
|               |                    |                     |              |            | MSP         | 50  | 48         | 24  | 23                  | 6782   | 1541 | 81                  | 6740   | 1923 | 101                 | 6719   | 1916 | 101  |      |      |      |      |
|               |                    |                     |              |            |             | MFL | 60         | 60  | 47                  | 46     | 2249 | 1316                | 69     | 2806 | 1581                | 83     | 2797 | 1588 | 84   |      |      |      |
|               |                    |                     |              |            |             |     | FL         | 85  | 84                  | 63     | 62   | 1845                | 1752   | 92   | 1855                | 2105   | 111  | 1849 | 2115 | 111  |      |      |
|               |                    |                     |              |            |             |     |            | WFL | 106                 | 106    | 71   | 72                  | 1301   | 1739 | 92                  | 1391   | 1995 | 105  | 1387 | 2099 | 110  |      |
|               |                    |                     |              |            |             |     |            |     | WFR                 | 107    | 88   | 85                  | 64     | 1279 | 1764                | 93     | 1386 | 2119 | 112  | 1381 | 2129 | 112  |
|               |                    |                     |              |            |             |     |            |     |                     | HMF    | 100  | 62                  | 80     | 13   | 1445                | 771    | 41   | 1259 | 927  | 49   | 1255 | 931  |
| 2             | 530                | A530/-K             | 37W          | NSP        | 48          | 49  | 19         | 19  | 13,379              | 2668   | 72   | 13,803              | 3206   | 87   | 13,760              | 3221   | 87   |      |      |      |      |      |
|               |                    |                     |              |            | MSP         | 50  | 48         | 24  | 23                  | 12,850 | 2920 | 79                  | 12,744 | 3643 | 98                  | 12,704 | 3631 | 98   |      |      |      |      |
|               |                    |                     |              |            |             | MFL | 60         | 60  | 47                  | 46     | 4260 | 2493                | 67     | 5305 | 2995                | 81     | 5288 | 3009 | 81   |      |      |      |
|               |                    |                     |              |            |             |     | FL         | 85  | 84                  | 63     | 62   | 3496                | 3320   | 90   | 3507                | 3989   | 108  | 3496 | 4008 | 108  |      |      |
|               |                    |                     |              |            |             |     |            | WFL | 106                 | 106    | 71   | 72                  | 2465   | 3294 | 89                  | 2630   | 3958 | 107  | 2622 | 3977 | 107  |      |
|               |                    |                     |              |            |             |     |            |     | WFR                 | 107    | 88   | 85                  | 64     | 2422 | 3342                | 90     | 2620 | 4015 | 109  | 2612 | 4034 | 109  |
|               |                    |                     |              |            |             |     |            |     |                     | HMF    | 100  | 62                  | 80     | 13   | 2738                | 1462   | 40   | 2381 | 1756 | 47   | 2374 | 1764 |

### 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         | 1.07             |
| 10°C        | 1.04             |
| 20°C        | 1.02             |
| <b>25°C</b> | <b>1.00</b>      |
| 30°C        | 0.98             |
| 40°C        | 0.95             |

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXF1 LED 2 A530** platform 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. 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   | 0.80    |

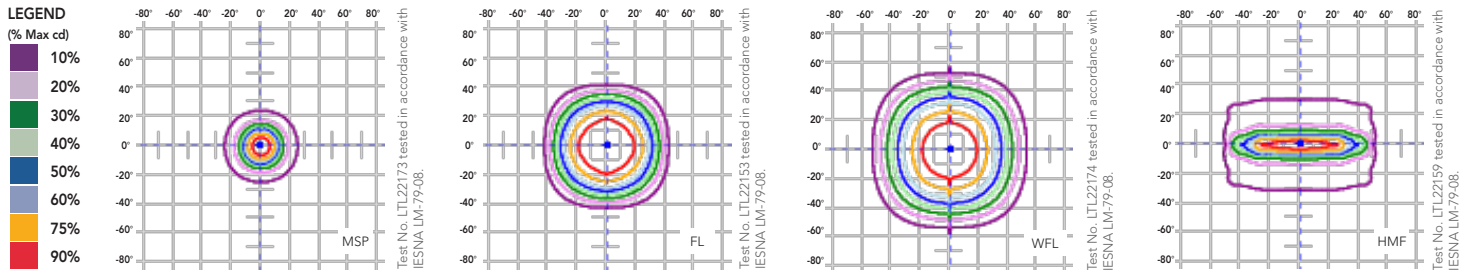
### Electrical Load

| Light Engines | Drive Current (mA) | System Watts | Current (A) |      |      |      |     |     |
|---------------|--------------------|--------------|-------------|------|------|------|-----|-----|
|               |                    |              | 120         | 208  | 240  | 277  | 347 | 480 |
| 1             | 530                | 19W          | 0.16        | 0.1  | 0.09 | 0.08 | -   | -   |
| 2             | 530                | 37W          | 0.32        | 0.19 | 0.17 | 0.15 | -   | -   |

## Photometric Diagrams

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

Isocandela plots for the DSXF1 LED 2 A530/40K.



## Mounting, Options and Accessories



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

**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 (IP65). Low EPA (0.6 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 field-to-beam ratios, 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. 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 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](http://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](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.





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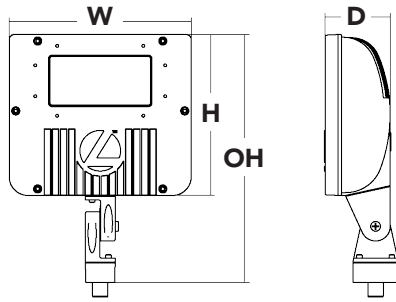
Notes

Type

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

## Specifications

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



## Introduction

The D-Series Size 1 Flood features precision optics to beautifully illuminate a variety of applications while its sleek, compact styling blends seamlessly with the 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 50 - 150W metal halide floods, with typical energy savings of 72% and expected service life of over 100,000 hours.

## Ordering Information

**EXAMPLE:** DSXF1 LED 2 A530/40K MSP MVOLT THK DDBXD

| Series    | Light Engines                         | Performance Package  | Distribution  | Voltage  | Mounting  | Options  | Finish <i>(required)</i>  |
|-----------|---------------------------------------|--|---|--|---|--|---|
| DSXF1 LED | 1 One COB engine<br>2 Two COB engines | <b>530 mA options:</b><br>A530/30K 3000K<br>A530/40K 4000K<br>A530/50K 5000K | NSP Narrow spot<br>MSP Medium spot<br>MFL Medium flood<br>FL Flood<br>WFL Wide flood<br>WFR Wide flood, rectangular<br>HMF Horizontal flood | MVOLT <sup>1</sup><br>120 <sup>1</sup><br>208 <sup>1</sup><br>240 <sup>1</sup><br>277 <sup>1</sup> | <b>Shipped included</b><br>THK Knuckle with 1/2" NPS threaded pipe<br>IS Integral slipfitter (fits 2-3/8" O.D. tenon)<br><b>Shipped separately<sup>2</sup></b><br>DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required) | <b>Shipped installed</b><br>PE Photocontrol, button style <sup>3</sup><br>SF Single fuse (120, 277V) <sup>4</sup><br><b>Shipped separately<sup>2</sup></b><br>UBV Upper/bottom visor (universal)<br>FV Full visor<br>VG Vandal guard | DDBXD Dark bronze<br>DBLXD Black<br>DNAXD Natural aluminum<br>DWHXD White |

Stock configurations are offered for shorter lead times:

| Standard Part Number                     | Stock Part Number      |
|--|------------------------|
| DSXF1 LED 1 A530/40K WFL MVOLT THK DDBXD | <b>DSXF1 LED 1 40K</b> |
| DSXF1 LED 1 A530/50K WFL MVOLT THK DDBXD | <b>DSXF1 LED 1 50K</b> |
| DSXF1 LED 2 A530/40K WFL MVOLT THK DDBXD | <b>DSXF1 LED 2 40K</b> |
| DSXF1 LED 2 A530/50K WFL MVOLT THK DDBXD | <b>DSXF1 LED 2 50K</b> |

## Accessories

Ordered and shipped separately.

|                   |  |
|-------------------|--|
| DSXF1/2TS DDBXD U | Slipfitter for 1-1/4" to 2-3/8" O.D. tenons; mates with 1/2" threaded knuckle (specify finish) |
| FRWB DDBXD U      | Radius wall bracket, 2-3/8" O.D. tenon (specify finish)  |
| FSPB DDBXD U      | Steel square pole bracket, 2-3/8" O.D. 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.

## NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF option) or photocontrol (PE).
- Also available as separate accessories; see Accessories information at left.
- Photocontrol (PE) requires 120, 208, 240 or 277 voltage option.
- Single fuse (SF) requires 120 or 277 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 values 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 |     | 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  |     |
| 1             | 530                | A530/-K             | 19W          | NSP        | 48          | 49  | 19         | 19 | 7062                | 1408   | 74   | 7300                | 1692   | 89   | 7277                | 1700   | 89   |     |
|               |                    |                     |              |            | MSP         | 50  | 48         | 24 | 23                  | 6782   | 1541 | 81                  | 6740   | 1923 | 101                 | 6719   | 1916 | 101 |
|               |                    |                     |              |            | MFL         | 60  | 60         | 47 | 46                  | 2249   | 1316 | 69                  | 2806   | 1581 | 83                  | 2797   | 1588 | 84  |
|               |                    |                     |              |            | FL          | 85  | 84         | 63 | 62                  | 1845   | 1752 | 92                  | 1855   | 2105 | 111                 | 1849   | 2115 | 111 |
|               |                    |                     |              |            | WFL         | 106 | 106        | 71 | 72                  | 1301   | 1739 | 92                  | 1391   | 1995 | 105                 | 1387   | 2099 | 110 |
|               |                    |                     |              |            | WFR         | 107 | 88         | 85 | 64                  | 1279   | 1764 | 93                  | 1386   | 2119 | 112                 | 1381   | 2129 | 112 |
|               |                    |                     |              |            | HMF         | 100 | 62         | 80 | 13                  | 1445   | 771  | 41                  | 1259   | 927  | 49                  | 1255   | 931  | 49  |
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|               |                    |                     |              |            | MSP         | 50  | 48         | 24 | 23                  | 12,850 | 2920 | 79                  | 12,744 | 3643 | 98                  | 12,704 | 3631 | 98  |
|               |                    |                     |              |            | MFL         | 60  | 60         | 47 | 46                  | 4260   | 2493 | 67                  | 5305   | 2995 | 81                  | 5288   | 3009 | 81  |
|               |                    |                     |              |            | FL          | 85  | 84         | 63 | 62                  | 3496   | 3320 | 90                  | 3507   | 3989 | 108                 | 3496   | 4008 | 108 |
|               |                    |                     |              |            | WFL         | 106 | 106        | 71 | 72                  | 2465   | 3294 | 89                  | 2630   | 3958 | 107                 | 2622   | 3977 | 107 |
|               |                    |                     |              |            | WFR         | 107 | 88         | 85 | 64                  | 2422   | 3342 | 90                  | 2620   | 4015 | 109                 | 2612   | 4034 | 109 |
|               |                    |                     |              |            | HMF         | 100 | 62         | 80 | 13                  | 2738   | 1462 | 40                  | 2381   | 1756 | 47                  | 2374   | 1764 | 48  |

### 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 |
|---------|------------------|
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| 20°C    | 1.02             |
| 25°C    | 1.00             |
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### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXF1 LED 2 A530** platform 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. For other lumen maintenance values, contact factory.

| Operating Hours          | 0   | 25,000 | 50,000 | 100,000 |
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| Lumen Maintenance Factor | 1.0 | 0.94   | 0.90   | 0.80    |

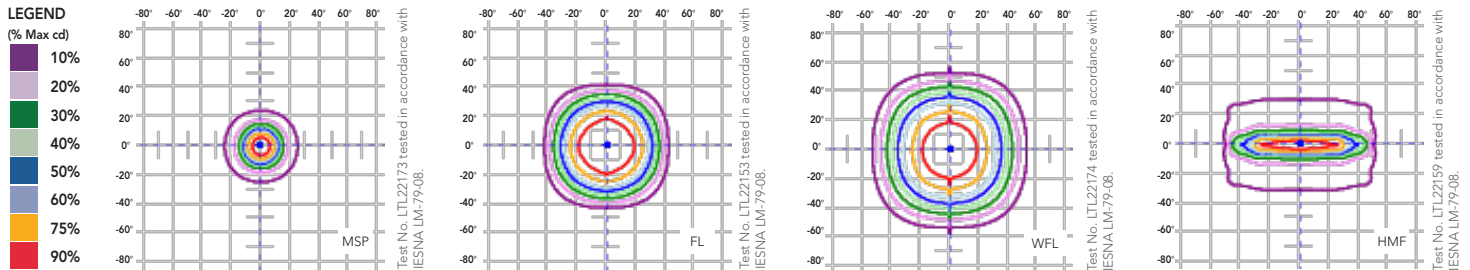
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| 2             | 530                | 37W          | 0.32        | 0.19 | 0.17 | 0.15 | -   | -   |

## Photometric Diagrams

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

Isocandela plots for the DSXF1 LED 2 A530/40K.



## Mounting, Options and Accessories



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

**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)  
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**FV - Full visor**  
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### FINISH

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### ELECTRICAL

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### 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 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](http://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](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Specifications subject to change without notice.

