Dialight

SafeSite® LED Dual Floodlight - UL
for Indoor and Outdoor Hazardous Applications

Features & Benefits

- 10 year warranty
- L70 rated for >100,000 hours @ 25°C ambient
- Instant on/off operation
- Universal input (100-277 VAC, 50/60Hz and 347/480 VAC, 60Hz)
- Superior color rendition index compared to HPS, LPS, MH
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life
- Safety tabs provided for secondary retention

Application

The SafeSite® LED Floodlight represents the future of energy efficient facility illumination for hazardous applications worldwide. The lighting fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates both cutting edge LED technology along with proprietary optics to achieve flood lighting comparable with other traditional light sources.
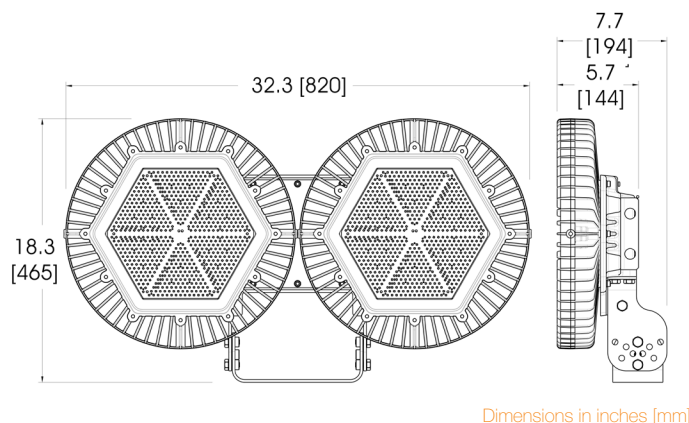
SafeSite® LED Dual Floodlight
100-277 VAC, 120-250 VDC Models
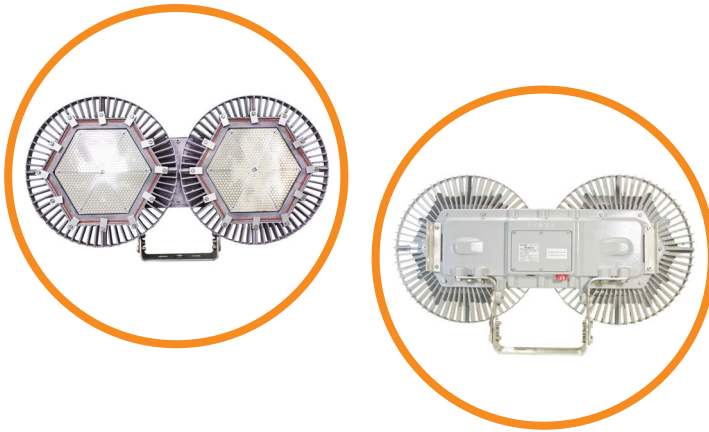
Certifications & Ratings

- UL 1598/A
- UL 844
- Class I, Div. 2 Groups A, B, C, D
- CSA C22.2 No. 250
- CSA C22.2 No. 137
- NEMA 4X
- IP66
- IK07

Dimensions in inches [mm]

32.3 [820]
18.3 [465]
7.7 [194]
5.7 [144]

Mechanical Information:

Fixture weight:	56 lb (25.4 kg)
Shipping weight:	60 lb (27.2 kg)
EPA (Sq.ft):	2.69
Mounting:	304 Stainless Steel trunnion mounting bracket included
Entries:	(2) 3/4" NPT cable entries

Electrical Specifications:

Operating voltage:	100-277 VAC, 50/60Hz 120-250 VDC
Power consumption:	See table
Operating temp:	-40°F to +149°F (-40°C to +65°C)
Noise requirement /EMC:	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
Surge protection:	6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
THD:	< 20%
Power factor:	> 0.9

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <5% light output

Construction:

Housing:	Copper-free aluminum
Finish:	Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer
Lens:	Tempered glass

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white)
Beam patterns:	Medium distribution NEMA 6 distribution NEMA 7x6 distribution
IES files:	Available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)

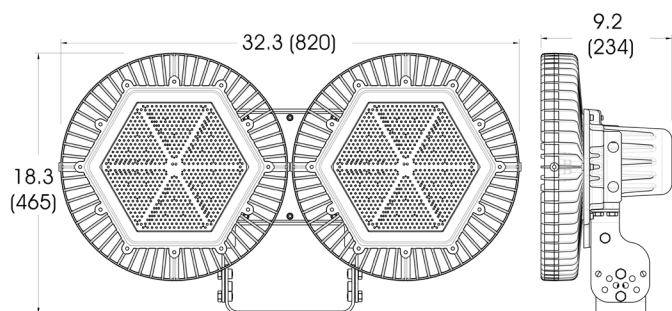| Temperature Ratings	
Ambient Temperature Range T4	Ambient Temperature Range T5
-40°F to +149°F (-40°C to +65°C)	-40°F to +122°F (-40°C to +50°C)

SafeSite® LED Dual Floodlight
347-480 VAC Models

Certifications & Ratings

- UL 1598/A
- UL 844
- Class I, Div. 2 Groups A, B, C, D
- CSA C22.2 No. 250
- CSA C22.2 No. 137

- NEMA 4X
- IP66
- IK07

32.3 (820)

9.2 (234)

18.3 (465)

Dimensions in inches [mm]

Mechanical Information:

Fixture weight:	73 lb (33.1 kg)
Shipping weight:	79 lb (35.8 kg)
EPA (Sq.ft):	2.69
Mounting:	304 Stainless Steel trunnion mounting bracket included
Entries:	(2) 3/4" NPT cable entries

Electrical Specifications:

Operating voltage:	347-480 VAC, 60Hz
Power consumption:	See table
Operating temp:	-40°F to +149°F (-40°C to +65°C)
Noise requirement /EMC:	FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz
Surge protection:	6kV/2 ohm combination wave, as per IEEE C62.41, line-line and line-ground
THD:	< 20%
Power factor:	> 0.9

Variable Dimming:

Variable Dimming Control:	0-10 VDC
Dimming Range:	10 VDC = 100% light output 0 VDC = <5% light output

Construction:

Housing:	Copper-free aluminum
Finish:	Superior dual coat finish - Sealed polyester topcoat - Chemical-resistant epoxy primer
Lens[1]:	Tempered glass

Photometric Information:

CRI:	80
CCT:	5000K (cool white) 4000K (neutral white) 2700K (warm white)
Beam patterns:	Medium distribution NEMA 6 distribution NEMA 7x6 distribution
IES files:	Available at www.dialight.com

All values typical unless otherwise stated (tolerance +/- 10%)
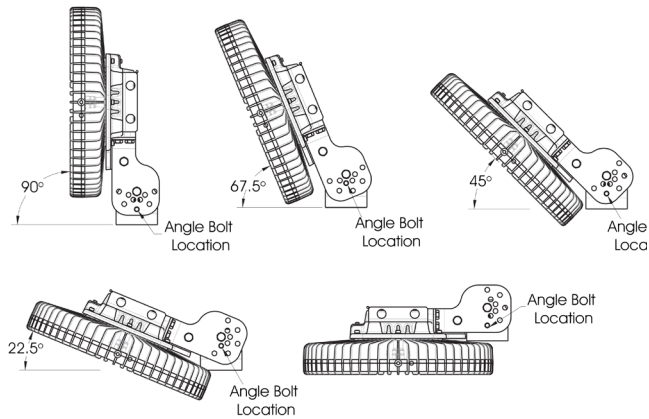
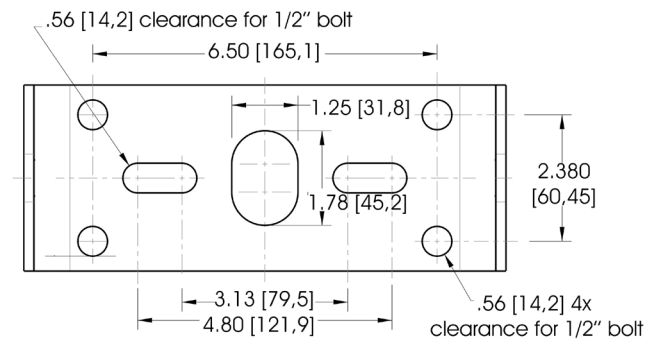| Temperature Ratings |
|---|
| Ambient Temperature Range T3C |
| -40°F to +149°F (-40°C to +65°C) |

SafeSite® LED Dual Floodlight
Dimensional Drawings & Beam Distribution

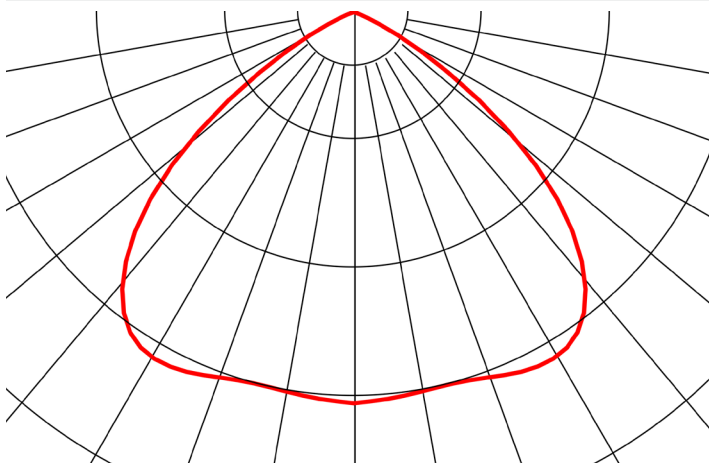### Dual Floodlight Mounting Options

90°   Angle Bolt Location

67.5°   Angle Bolt Location

45°   Angle Loca

22.5°   Angle Bolt Location

Angle Bolt Location

Dimensions in inches [mm]

Factory Installed Mounting Bracket Dimensions

.56 [14,2] clearance for 1/2" bolt

6.50 [165,1]

1.25 [31,8]

1.78 [45,2]

2.380 [60,45]

3.13 [79,5]

4.80 [121,9]

.56 [14,2] 4x clearance for 1/2" bolt

Dimensions in inches [mm]
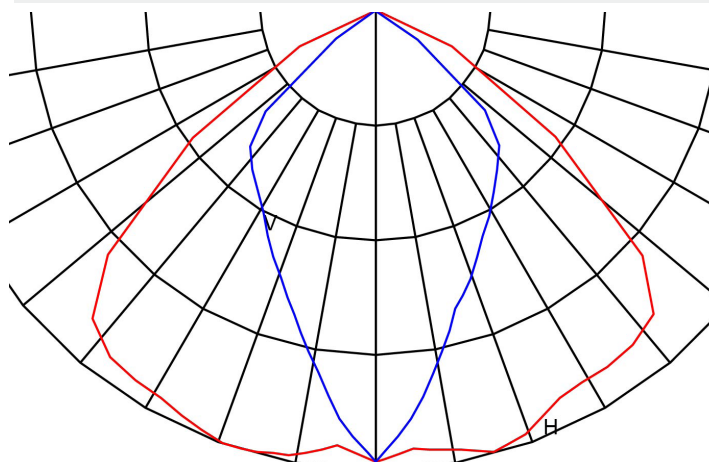
Medium

NEMA 6
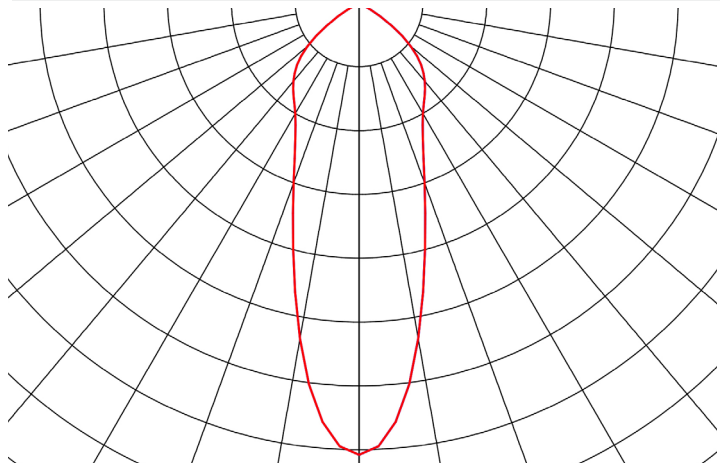
NEMA 7x6

SafeSite® LED Dual Floodlight
Ordering Information & Mounting Accessories

| Part Number	Legacy Part Number	Fixture Lumens	Wattage	lm/W	Voltage	CCT	Lens	Beam Pattern
			100-277 VAC Models					
FDD76C2MDSNNGN	FLDB66NC2NG	56,000	385	145	100-277 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 6
FDD7MC2MDSNNGN	FLDBM0NC2NG	54,000	385	140	100-277 VAC	5000K (cool white)	Clear Tempered Glass	Medium
FDD77C2MDSNNGN	FLDB76NC2NG	54,000	385	142	100-277 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 7X6
FDD76C2HDSNNGN	FLD966NC2NG	39,000	270	144	100-277 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 6
FDD77C2HDSNNGN	FLD976NC2NG	37,500	270	141	100-277 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 7x6

All values typical unless otherwise stated (tolerance +/- 10%).
For neutral white models, replace the 6th character (standard) / 8th character (legacy) with an **N**. Ex. FDD76**C**2MNSNNGN / FLDB66N**C**2NG becomes FDD76**N**2MNSNNGN / FLDB66N**N**2NG. For warm white models, replace the 6th character (standard) / 8th character (legacy) with an **N**. Ex. FDD76**C**2MNSNNGN / FLDB66N**C**2NG becomes FDD76**W**2MNSNNGN / FLDB66N**W**2NG.

Part Number	Legacy Part Number	Fixture Lumens	Wattage		lm/W		Voltage	CCT	Lens	Beam Pattern
			347 VAC	480 VAC	347 VAC	480 VAC				
			347-480 VAC Models							
FDD76CAMDSNNGN	FLDB66NC5NG	56,000	457	409	122	136	347-480 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 6
FDD7MCAMDSNNGN	FLDBM0NC5NG	54,000	457	409	118	132	347-480 VAC	5000K (cool white)	Clear Tempered Glass	Medium
FDD77CAMDSNNGN	FLDB76NC5NG	54,000	457	409	118	132	347-480 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 7x6
FDD76CAHDSNNGN	FLD966NC5NG	39,000	342	294	114	132	347-480 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 6
FDD77CAHDSNNGN	FLD976NC5NG	37,500	342	294	110	128	347-480 VAC	5000K (cool white)	Clear Tempered Glass	NEMA 7x6

All values typical unless otherwise stated (tolerance +/- 10%).
For neutral white models, replace the 6th character (standard) / 8th character (legacy) with an **N**. Ex. FDD76**C**AMNSNNGN / FLDB66N**C**5NG becomes FDD76**N**AMNSNNGN / FLDB66N**N**5NG. For warm white models, replace the 6th character (standard) / 8th character (legacy) with an **N**. Ex. FDD76**C**AMNSNNGN / FLDB66N**C**5NG becomes FDD76**W**AMNSNNGN / FLDB66N**W**5NG.
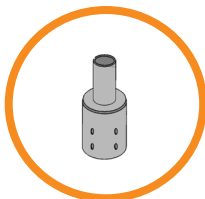

HZXCBL2
- Safety cable kit
- Kit includes: (2) safety cables
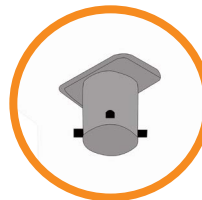
FLX-1TPT-20DB[1]
- Tenon pole topper, 2-3/8" mount
- Kit includes: Tenon topper, pole set screws, and mounting hardware

[1]Bracket and adapters require tenon adapter (FLX-1TPT-20DB) to mount floodlight. Tenon adapter is sold separately.

FLX-3RPA-20DB
FLX-4RPA-20DB
- Reducer for 3" or 4" OD round pole top to 2-3/8" light mount
- Kit includes: Reducer pole set screws
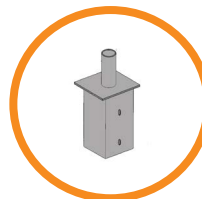
FLX-4SPA-20DB
FLX-5SPA-20DB
FLX-6SPA-20DB
- Internal tenon adapter for 4", 5" or 6" square pole top to 2-3/8" light mount
- Kit includes: Adapter

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