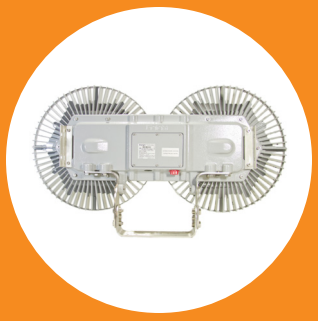
Dialight

SafeSite® LED Floodlight - UL 844

for Indoor and Outdoor Hazardous Applications

On when it matters most.

Products and solutions that protect your business





Features & Benefits

- 10 year warranty
- L70 rated for >100,000 hours @ 25°C ambient
- DLC listed
- Instant on/off operation
- Universal input (100-277 VAC, 50/60Hz or 347/480 VAC, 60Hz)
- Superior color rendition index compared to HPS, LPS, MV
- Resistant to shock and vibration
- Isolated wiring compartment
- Integral safety straps
- Temperature compensation technology for longer life

Application

The SafeSite® LED Floodlight represents the future of energy efficient facility illumination for hazardous applications worldwide. The fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and improving light quality. This light incorporates both cutting edge LED technology along with proprietary optics to achieve flood lighting comparable with other traditional light sources.


Avenue D

Hazardous Locations Ratings

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70

Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

Class	Hazardous Material in Surrounding Atmosphere
Class I	Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures.
Class II	Hazardous because combustible or conductive dusts are present.
Class III	Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. Typical wood chips, cotton, flax and nylon. Group classifications are not applied to this class.

Divisions

The division defines the probability of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

Division	Presence of Hazardous Material
Division 1	The substance referred to by class is present during normal conditions.
Division 2	The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown.

Groups

The group defines the hazardous material in the surrounding atmosphere.

Group	Hazardous Material in Surrounding Atmosphere
Group A	Acetylene
Group B	Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein.
Group C	Carbon monoxide, ether, hydrogen sulfide, morphline, cyclopropane, ethyl and ethylene or gases of equivalent hazard.
Group D	Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard.
Group E	Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment.
Group F	Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sesitized by other material so they present an explosion hazard.
Group G	Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals.

Reference:
http://www.engineeringtoolbox.com/hazardous-areas-classification-d_347.html

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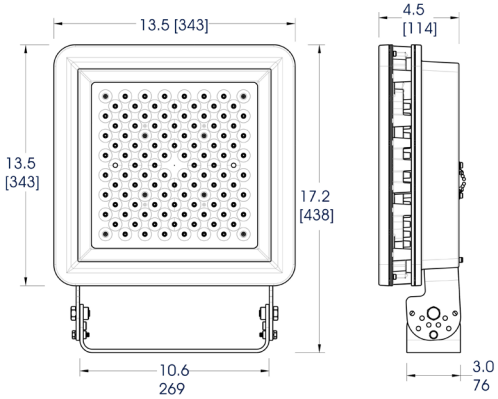

Dimensions in inches [mm]

Temperature Ratings	
Ambient Temperature Range T4A Temperature Code	Ambient Temperature Range T5 Temperature Code
15,000 - 13,500lm models	11,500 - 10,750lm models
-40°F to +149°F (-40°C to +65°C)	-40°F to +149°F (-40°C to +65°C)

Certifications & Ratings

- Class I, Div 2 Groups A, B, C & D
- Class II, Div 1 Groups E, F & G
- Class II, Div 2 Groups F & G
- Class III
- UL 844
- CSA C2.2 No. 137
- NEMA 4X
- IP66/67
- IK07 (Glass) / IK10 (Polycarbonate)
- ABS # 14-HS1209391-PDA

Mechanical Information:

Fixture weight: 30 lb (13.6 kg)

Shipping weight: 34 lb (15.4 kg)

EPA (Sq.ft): 1.66

Mounting: 304 Stainless steel trunnion mounting bracket included

Entries: (2) 3/4" NPT cable entries

Electrical Specifications:

Operating voltage: 100-277 VAC, 50/60Hz
347/480 VAC, 60Hz

Power consumption: See table

Operating temp: -40°F to +149°F (-40°C to +65°C)

Noise requirement /EMC: EN 55015 - conducted and radiated
FCC Title 47, Subpart B, Section 15, Class A device. RF Immunity; 10V/m, 80MHz-1GHz

Surge protection: EN61000-4-5
Verified up to 6kV/2ohms at an independent test laboratory protection devices capable of 20kV

THD: < 20%

Power factor: > 0.9

Construction:

Housing: Copper-free aluminum

Finish: Superior dual coat finish
- sealed polyester topcoat
- chemical resistant epoxy primer

Lens: Tempered glass
Polycarbonate

Photometric Information:

CRI: 75

CCT: 5000K (cool white)
4000K (neutral white)

NEMA Patterns: 7x6 - Asymmetrical (140° x 115°)
6x7 - Asymmetrical (115° x 140°)
6 - Very wide (115°)
5 - Wide (93°)
4 - Medium (52°)
2 - Narrow (23°)

IES files: Available at www.dialight.com

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

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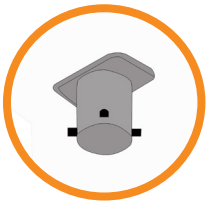
Mounting Accessories

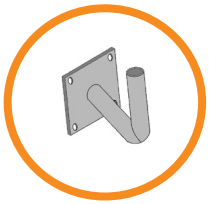
HZXSAFECBLS

- Safety cable kit
- Kit includes: (2) Safety cables



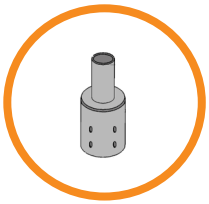
FLX-1TPT-20DB[1]

- Tenon pole topper, 2-3/8" mount
- Kit includes: Tenon topper, pole set screws, and mounting hardware



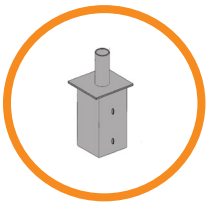
FLX-1RAB-20DB

- Right angle mounting bracket for 2-3/8" light mount
- Kit includes: Right angle bracket



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

FLX-2LBH-20DB

- Bull horn for 2 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws

FLX-3LBH-20DB

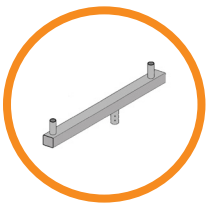
- Bull horn for 3 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws

FLX-4LBH-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws

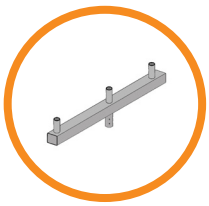
FLX-4RBH-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



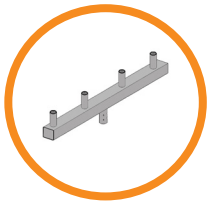
FLX-2RSR-20DB

- Bull horn for 2 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



FLX-3RSR-20DB

- Bull horn for 3 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws



FLX-4RSR-20DB

- Bull horn for 4 lights, 2-3/8" mount, 21" spacing
- Kit includes: Bull horn, pole set screws

[1]Brackets and adapters require the tenon pole topper (FLX-1TPT-20DB) to mount floodlight. Tenon pole topper sold separately.

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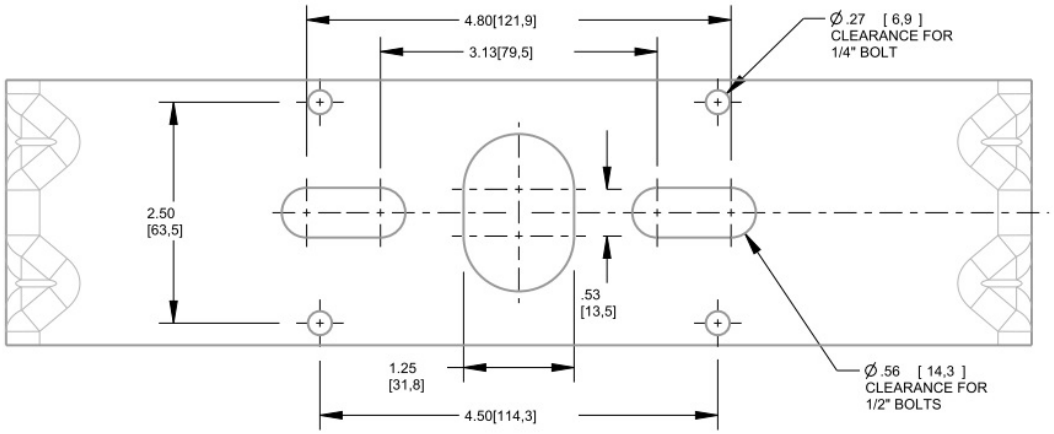
Mounting Options

Product shipped with bracket installed
(Bracket has locking positions at 0°, (±) 22.5°, (±) 45°, (±) 67.5°, and 90°)

Factory Installed Mounting Bracket



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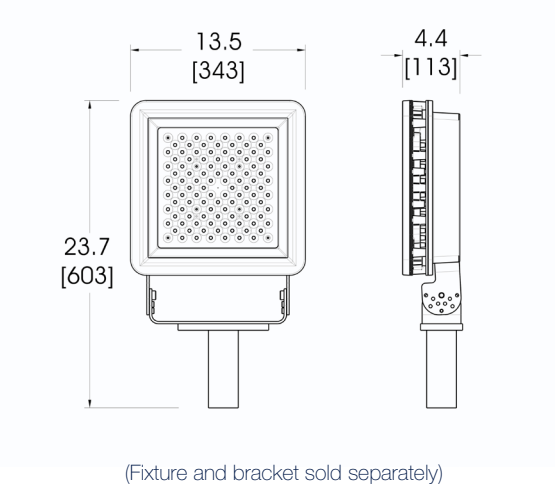
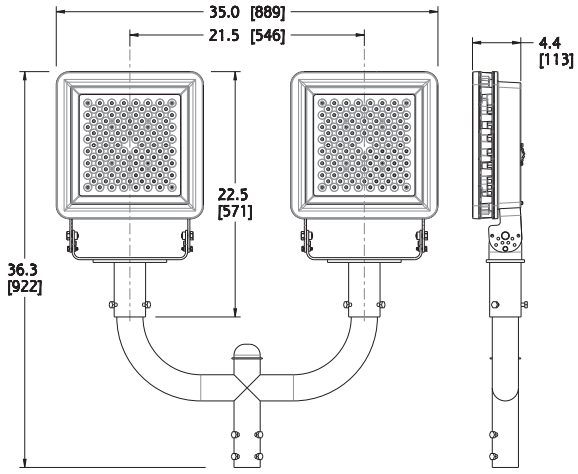
Mounting Options

FLX-1TPT-20DB



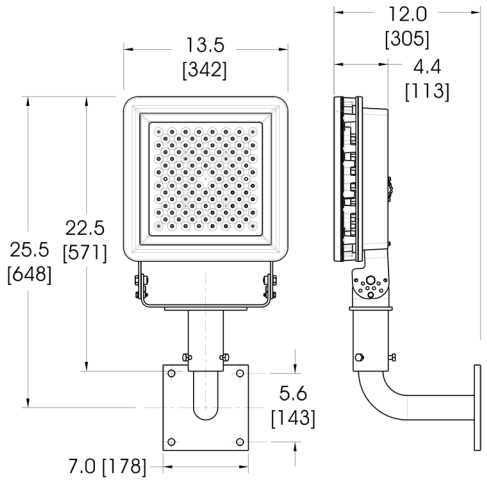
(Fixture and bracket sold separately)

FLX-2LBH-20DB



(Fixture and bracket sold separately)

FLX-1RAB-20DB



(Fixture and bracket sold separately)

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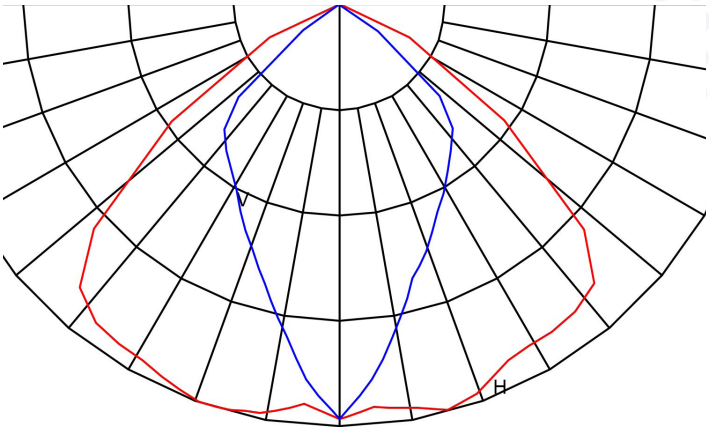
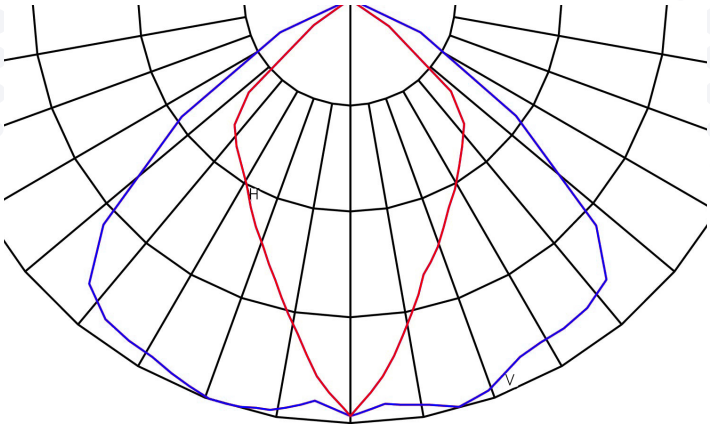
Light Distribution Pattern

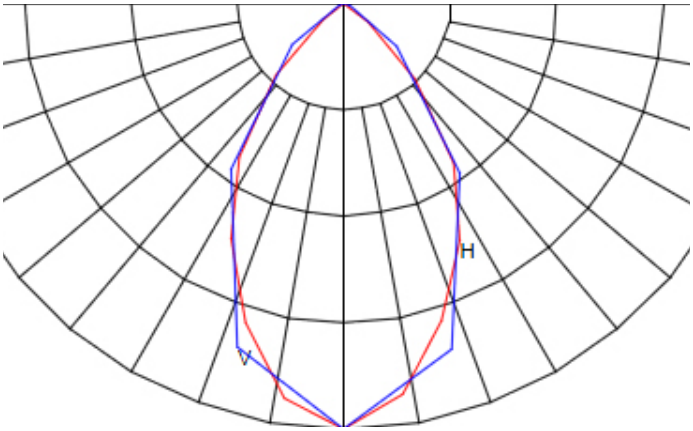
NEMA 7x6 - Field angle = 140° x 115°



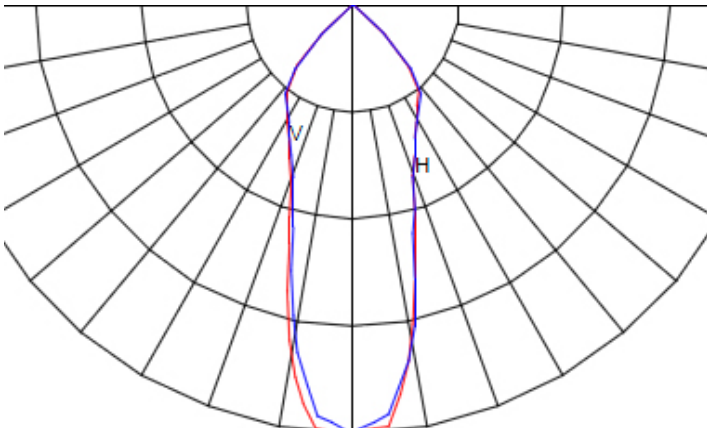
NEMA 6x7 - Field angle = 115° x 140°



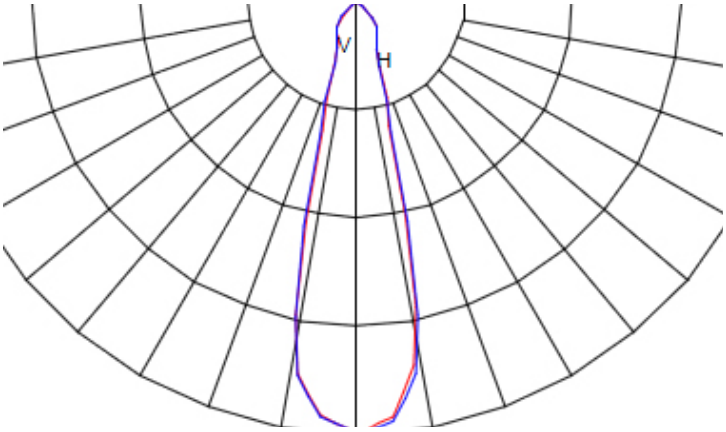
NEMA 6 - Field angle = 115°



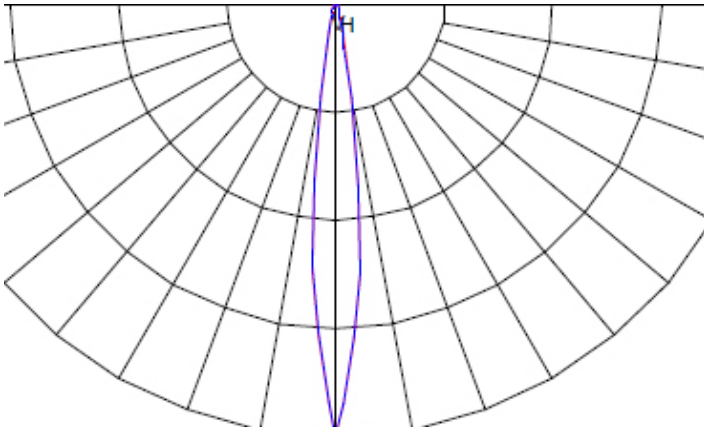
NEMA 5 - Field angle = 93°



NEMA 4 - Field angle = 52°



NEMA 2 - Field angle = 2°



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Ordering Information

Classifications: CID2 A, B, C, D • CIID1 E, F, G • CIID2 F, G • CIII

Part Number	CID1	CID2	CIID1	CIID2	CIII	Voltage	Lens	CCT	Fixture Lumens	Watt	lm/W	Optical Pattern
100-277 VAC Models - Glass Lens												
FLD466NC4NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	15,000	135	111	NEMA 6 (115°)
FLD476NC4NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	14,750	135	109	NEMA 7x6 (140° x 115°)
FLD467NC4NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	14,750	135	109	NEMA 6x7 (115° x 140°)
FLD455NC4NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	14,500	140	104	NEMA 5 (93°)
FLD444NC4NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	14,500	140	104	NEMA 4 (52°)
FLD422NC4NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	13,500	140	96	NEMA 2 (23°)
FLD276NC2NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	11,500	106	108	NEMA 7x6 (140° x 115°)
FLD267NC2NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	11,500	106	108	NEMA 6x7 (115° x 140°)
FLD266NC2NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	11,250	106	104	NEMA 6 (115°)
FLD255NC2NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	11,000	106	101	NEMA 5 (93°)
FLD244NC2NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	10,500	106	99	NEMA 4 (52°)
FLD222NC2NG		•	•	•	•	100-277 VAC	Tempered glass	5000K (cool white)	10,750	106	101	NEMA 2 (23°)
100-277 VAC Models - Polycarbonate Lens												
FLD466NC4NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	14,000	135	104	NEMA 6 (115°)
FLD476NC4NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	13,750	135	102	NEMA 7x6 (140° x 115°)
FLD467NC4NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	13,750	135	102	NEMA 6x7 (115° x 140°)
FLD455NC4NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	13,500	140	96	NEMA 5 (93°)
FLD444NC4NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	13,500	140	96	NEMA 4 (52°)
FLD422NC4NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	12,500	140	89	NEMA 2 (23°)
FLD276NC2NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	10,500	106	99	NEMA 6 (115°)
FLD267NC2NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	10,500	106	99	NEMA 7x6 (140° x 115°)
FLD266NC2NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	10,250	106	97	NEMA 6x7 (115° x 140°)
FLD255NC2NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	10,000	106	94	NEMA 5 (93°)
FLD244NC2NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	9,500	106	89	NEMA 4 (52°)
FLD222NC2NP		•				100-277 VAC	Polycarbonate	5000K (cool white)	9,750	106	92	NEMA 2 (23°)
347/480 VAC Models - Glass Lens												
FLD276NC5NG		•	•	•	•	347/480 VAC	Tempered glass	5000K (cool white)	11,750	112	105	NEMA 7x6 (140° x 115°)
FLD266NC5NG		•	•	•	•	347/480 VAC	Tempered glass	5000K (cool white)	11,250	112	100	NEMA 6 (115°)
FLD255NC5NG		•	•	•	•	347/480 VAC	Tempered glass	5000K (cool white)	10,000	112	89	NEMA 5 (93°)
FLD244NC5NG		•	•	•	•	347/480 VAC	Tempered glass	5000K (cool white)	10,000	112	89	NEMA 4 (52°)
FLD222NC5NG		•	•	•	•	347/480 VAC	Tempered glass	5000K (cool white)	10,000	112	89	NEMA 2 (23°)

All values typical unless otherwise stated, Lumen values are typical (tolerance +/- 10%).

Part numbers listed in the table above are powder coated gray. For bronze powder, coat replace the 10th character with Z. FLD244NC2NG becomes FLD244NC2ZG
Part numbers listed in the table above are cool white. For neutral white models, replace the 8th character with an N.

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