GARDCO by signify

Floodlighting

DuraForm

FLDM medium floodlight

Project:

Location:

Cat.No:

Type:

Lumens: Qty:

Notes:

Gardco DuraForm medium floodlight provides seamless replacement of existing HID luminaires. This luminaire is available in three sizes (also see FLDS and FLDL), offers multiple lumen packages, and a complete array of optical distributions, making it an outstanding solution for all types of floodlighting applications – from landscape and parks to industrial and infrastructure. Includes Service Tag, Signify's innovative way to provide assistance throughout the life of the product.

Ordering guide

example: FLDM-A13-740-A33-SFC-UNV-FAWS-SP2-TOL-API-MG

Prefix	Configuration (nominal lumens)	Color Temperature	Distribution	Mounting	Voltage
FLDM DuraForm medium	**A07** 11,700 **A08** 14,500 **A09** 18,100 **A10** 15,400 **A11** 17,200 **A12** 20,900 **A13** 21,600 **A14** 26,100	**730** 70CRI 3000K **740** 70CRI 4000K **750** [9] 70CRI 5000K (750 - Special, contact factory)	**SPT** Spot 12° Round (NEMA 2x2) **RSP** Rectangular Spot (NEMA 3x3) **NFL** Narrow Flood (NEMA 4x4) **MFL** Medium Flood (NEMA 5x5) **WFL** Wide Flood (NEMA 6x6) **7X6** (NEMA 7x6) **A33** Asymmetric 33 Flood (NEMA 6x5) **RMF** Rectangular Medium Flood (NEMA 7x4) **RNF** Rectangular Narrow Flood (NEMA 7x5)	**SFC** Slip Fitter Mount with Cord (fits on 2-3/8" to 3" O.D. tenon, 6' or 1.83m cord exits luminaire) **SLF** Slip Fitter Mount (fits on 2-3/8" to 3" O.D. tenon, wires through slip fitter) **YOK** Yoke Mount (6' or 1.83m cord exits luminaire)	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V **HVU** 347-480V

Options

Dimming controls [1]	Fusing	Surge Protection	Hardware Options	Other Options	Finish
none leave blank (0-10V dimming driver standard) **DALI** [1,2,3] Digitally Addressable Lighting Interface driver **DLEA** [1,4,5] Dimming Leads Externally Accessible (for controls by others) **FAWS** [1,4] Field Adjustable Wattage Selector	**none** leave blank **FS1** [7] Single Fuse (120V, 277V, or 347V) **FS2** [7] Double Fuse (208V, 240V, or 480V) **FS3** [7,10] Canadian Double Pole Fuse (208V, 240V, or 480V)	**blank** Surge Protector 10kV / 10kA (standard) **SP2** Surge Protector 20kV / 10kA (option)	**blank** Captive screws **TOL** Tool-less entry latches **VPA** Vandal Proof Access (bit included with luminaire)	**blank** Terminal Block, Service Tag, and Wiring Cover (standard) **API** Factory-installed ANSI C136.15-2015 compliant label **C##** [9] Cord length specified by customer for SFC or YOK (put length in feet in place of "##" - example: C10 for 10' cord, must be ordered same time as luminaire - factory installed) (6' cord standard) **PCB** [2,5,6,7] Photocontrol Button **TT7** [5,6,8] Tool-less NEMA Twist-lock 7-pin receptacle **BAC** [10,11] Meets the requirements of the Buy American Act of 1933 (BAA)	**BK** Black **BZ** Bronze **MG** Medium Gray **OC** [9] Optional Color (specify optional color or RAL, contact factory) **SC** [9] Special Color (must supply color chip, requires factory quote) **MP** [9] Marine Grade paint - must also specify one of the finish colors from list above [Ex: BK-MP] (requires factory quote)

1. Choose only 1 Dimming Controls option: either DALI or DLEA or FAWS or WLDC.
2. Not available with 347V, 480V, or HVU.
3. Your specific required DALI profiles will be programmed at the factory. Contact factory for details. Also contact factory if +50C ambient with DALI is required.
4. 0-10V dimming driver standard.
5. Luminaire has 0-10V dimming wires exiting the luminaire for dimming controls by others. DLEA not available with PCB or TT7 - choose only 1 of the three options.
6. Choose either PCB or TT7 option
7. Must specify applicable specific input voltage, not available with UNV or HVU.
8. Use of photoelectric cell (by others) or shorting cap (by others) is required to ensure proper illumination.
9. Must contact factory prior to ordering - these items are ETO Specials.
10. Extended lead times apply. Contact factory for details.
11. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

Connected lighting

Interact City connector node provides the plug and play wireless communications technology to connect your floodlight to the Interact City lighting management system.

Accessory Ordering Code	Description
LLC	Interact City cellular technology connector node

Contact Signify for additional support when connected lighting or additional services are desired.
For more details visit: https://www.interact-lighting.com/en-us/what-is-possible/interact-city

FLDM DuraForm

Medium floodlight

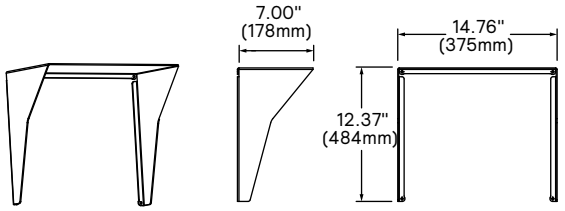
Accessories [13]

(ordered separately, field installed - mounting hardware included, uses dedicated mounting holes - do NOT remove lens)

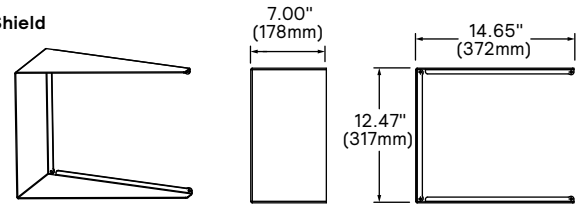
FLDM-VSR-(F)	Visor, top or bottom, painted same finish to match luminaire (specify finish at placeholder F, can not be used with GSH)
FLDM-GSH-(F)	Glare Shield, left or right, painted same finish to match luminaire (specify finish at placeholder F, can not be used with VSR)
FLDM-WRG	Wire Guard (nestable and can be used with either VSR or GSH)

13. Consult Signify to confirm whether specific accessories are BAA-compliant.

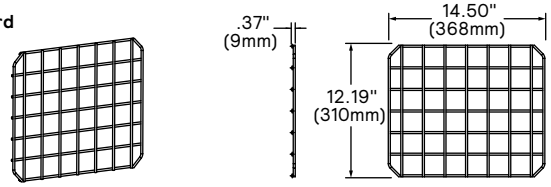
FLDM-VSR Visor Top or Bottom



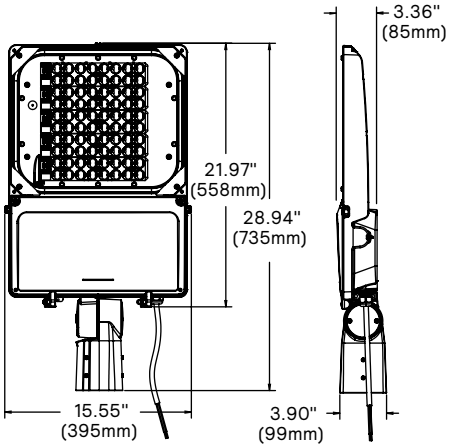
FLDM-GSH Glare Shield Left or Right



FLDM-WRG Wire Guard Nestable

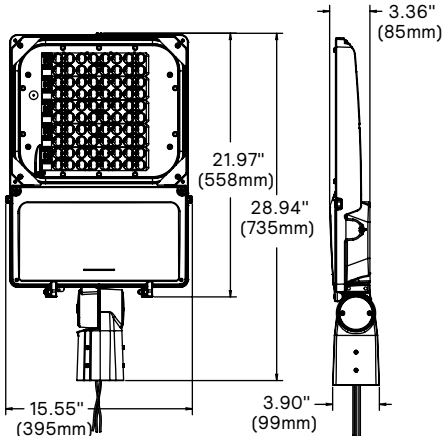


Dimensions



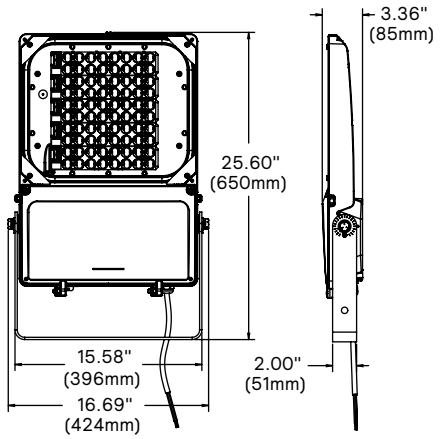
SFC

Luminaire weight: 23 lbs (10.4 kg)



SLF

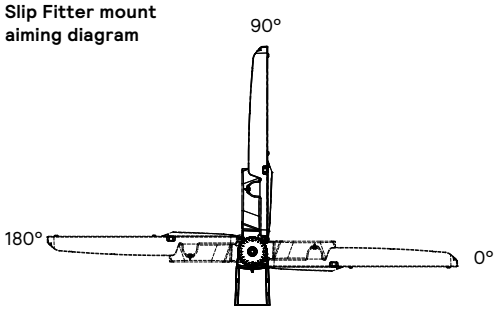
Luminaire weight: 23 lbs (10.4 kg)



YOK

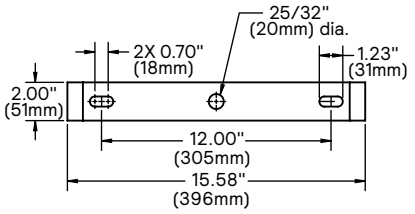
Luminaire weight: 24 lbs (10.9 kg)

Slip Fitter mount aiming diagram

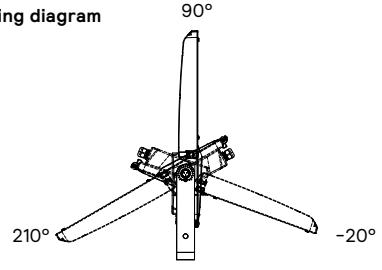


7-pin NEMA Twist Lock Receptacle option
Aiming limited to 0-90° per ANSI C136.10

Yoke mount detail



Yoke mount aiming diagram



7-pin NEMA Twist Lock Receptacle option
Aiming limited to 0-90° per ANSI C136.10

Effective Projected Area (EPA-ft²)			
Mounting	**Single: 0° Aim**	**Single: 45° Aim**	**Single: 90° Aim**
SFC or SLF	**0.192**	**1.735**	**2.933**
YOK	**0.201**	**1.653**	**2.918**

FLDM DuraForm

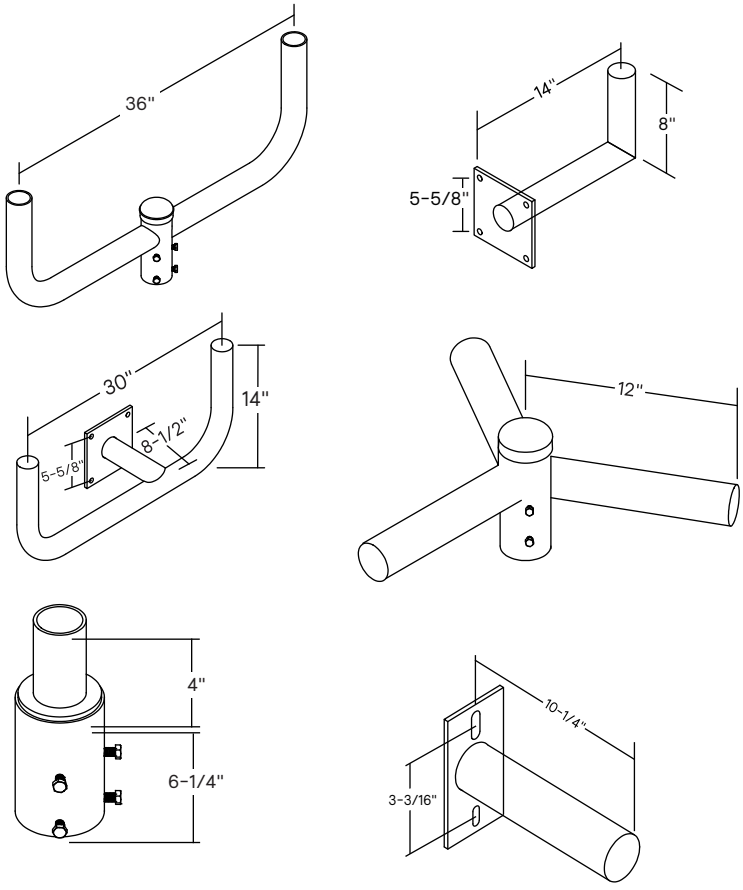
Medium floodlight

DuraForm Accessories[1] (ordered separately, field installed, specify finish at placeholder F)

Mounting Accessories

For wall and pole brackets, bullhorns, etc. see **https://www.signify.com/en-us/products/outdoor-luminaires/poles-brackets/site-and-area-brackets/bull-horn-brackets#downloads** for details.

Exception: All UPS Upsweep – contact factory to confirm compatibility.



Examples shown are not to scale – see SBRKT spec sheet for all available brackets

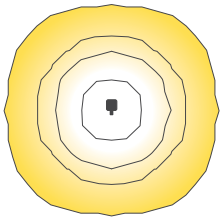
1. Consult Signify to confirm whether specific accessories are BAA-compliant.

FLDM DuraForm

Medium floodlight

Optical Distribution Diagrams

SPT Spot 12° Round (NEMA 2x2)



20' or 6.10m setback, 0° tilt

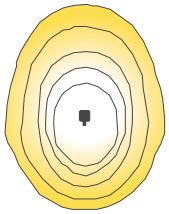
Applications include: flags, tighter spotlighting, accenting, taller columns, tighter scalloping, taller structures / monuments / statues, tallest trees.

RSP Rectangular Spot (NEMA 3X3)

15' or 4.57m setback, 0° tilt

Applications include: flags, spotlighting, accenting, columns, scalloping, structures / monuments / statues, taller trees.

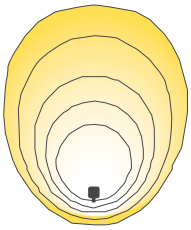
NFL Narrow Flood (NEMA 4x4)



30' or 9.14m mounting height, 45° tilt

Applications include: area lighting, storage yards, transportation terminals, trailer lots, utility sub-stations, prison yards, ports, industrial sites, facades, structures / monuments / statues.

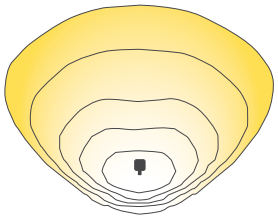
MFL Medium Flood (NEMA 5x5)



30' or 9.14m mounting height, 45° tilt

Applications include: area lighting, storage yards, transportation terminals, trailer lots, utility sub-stations, prison yards, ports, industrial sites, fence perimeters and borders, facades, structures / monuments / statues.

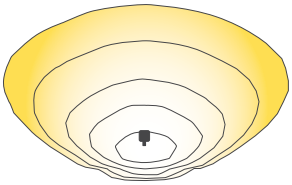
WFL Wide Flood (NEMA 6x6)



30' or 9.14m mounting height, 45° tilt

Applications include: area lighting, storage yards, transportation terminals, trailer lots, utility sub-stations, prison yards, ports, industrial sites, fence perimeters and borders, large facades.

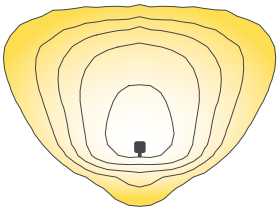
7x6 (NEMA 7x6)



30' or 9.14m mounting height, 45° tilt

Applications include: area lighting, utility sub-stations, fence perimeters and borders, large and taller facades, wall grazing, signs (especially larger and taller ones).

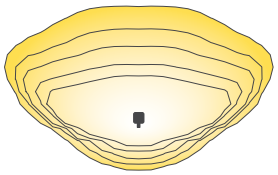
A33 Asymmetric 33° Flood (NEMA 6x5)



30' or 9.14m mounting height, 30° tilt

Applications include: area lighting, storage yards, transportation terminals, utility sub-stations, large facades, wall washing, large structures / monuments / statues, trees with large canopies.

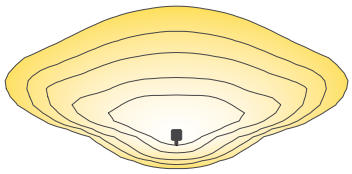
RMF Rectangular Medium Flood (NEMA 7x4)



10' or 3.05m setback, 30° tilt

Applications include: building entrances and exits, security lighting, checkpoints and inspection stations, signs, ornamental trees and shrubs

RNF Rectangular Narrow Flood (NEMA 7x5)



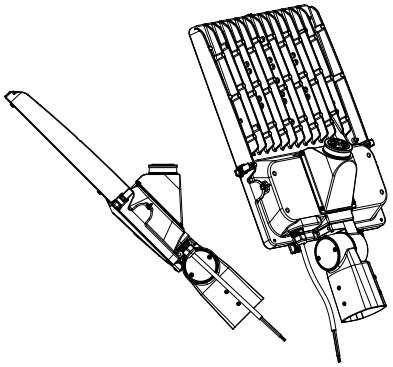
15' or 4.57m setback, 45° tilt

Applications include: facades, wall grazing, signs (especially larger and more rectangular)

Additional drawings

7-pin Twist Lock Receptacle Option

Aiming limited to 0-90° per ANSI C136.10
(NOTE: available on ALL mountings - SFC shown for illustrative purposes only)



FLDM DuraForm

Medium floodlight

LED Wattage and Lumen Values – 3000K

Ordering Code	Color Temp.	Average System Watts	Wattage Label*	SPT		NFL		MFL		WFL		7x6	
				Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)
FLDM-A07-730	3000	92	90	11,789	128	11,202	121	11,677	127	11,675	127	11,354	123
FLDM-A08-730	3000	120	120	14,577	121	13,851	115	14,439	120	14,436	120	14,039	117
FLDM-A09-730	3000	161	160	18,122	112	17,220	107	17,950	111	17,948	111	17,454	108
FLDM-A10-730	3000	122	120	15,488	127	14,716	121	15,341	126	15,339	126	14,917	123
FLDM-A11-730	3000	140	140	17,332	124	16,469	117	17,168	122	17,165	122	16,693	119
FLDM-A12-730	3000	182	180	20,943	115	19,900	109	20,745	114	20,742	114	20,171	111
FLDM-A13-730	3000	178	180	21,657	122	20,578	116	21,451	121	21,448	121	20,858	117
FLDM-A14-730	3000	227	230	26,256	116	24,948	110	26,007	114	26,003	114	25,288	111

LED Wattage and Lumen Values – 4000K & 5000K

Ordering Code	Color Temp.	Average System Watts	Wattage Label*	SPT		NFL		MFL		WFL		7x6	
				Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)
FLDM-A07-740 and -750	4000 and 5000	92	90	12,887	140	12,245	133	12,764	138	12,762	138	12,411	135
FLDM-A08-740 and -750	4000 and 5000	120	120	15,938	133	15,144	126	15,787	131	15,784	131	15,350	128
FLDM-A09-740 and -750	4000 and 5000	161	160	19,802	123	18,815	117	19,614	122	19,611	122	19,072	118
FLDM-A10-740 and -750	4000 and 5000	122	120	16,917	139	16,074	132	16,757	138	16,754	138	16,293	134
FLDM-A11-740 and -750	4000 and 5000	140	140	18,946	135	18,002	128	18,766	134	18,763	134	18,247	130
FLDM-A12-740 and -750	4000 and 5000	182	180	22,897	126	21,756	119	22,680	124	22,677	124	22,053	121
FLDM-A13-740 and -750	4000 and 5000	178	180	23,666	133	22,487	126	23,441	132	23,437	132	22,793	128
FLDM-A14-740 and -750	4000 and 5000	227	230	28,693	126	27,263	120	28,421	125	28,416	125	27,635	122

LED Wattage and Lumen Values – 3000K

Ordering Code	Color Temp.	Average System Watts	Wattage Label*	RSP		RMF		RNF		A33	
				Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)
FLDM-A07-730	3000	92	90	10,651	116	10,621	115	10,792	117	10,927	119
FLDM-A08-730	3000	120	120	13,167	110	13,131	109	13,342	111	13,509	112
FLDM-A09-730	3000	161	160	16,368	101	16,323	101	16,586	103	16,794	104
FLDM-A10-730	3000	122	120	13,987	115	13,949	115	14,173	117	14,350	118
FLDM-A11-730	3000	140	140	15,656	112	15,613	111	15,864	113	16,063	115
FLDM-A12-730	3000	182	180	18,919	104	18,867	104	19,171	105	19,411	107
FLDM-A13-730	3000	178	180	19,561	110	19,508	110	19,822	111	20,070	113
FLDM-A14-730	3000	227	230	23,716	104	23,651	104	24,031	106	24,332	107

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown. IES files available with VSR Visor or GSH Glare Shield Accessories - see website.
*Wattage Label per ANSI C136.15-2015. Consult factory for other labelling needs.

LED Wattage and Lumen Values – 4000K & 5000K

Ordering Code	Color Temp.	Average System Watts	Wattage Label*	RSP		RMF		RNF		A33	
				Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)	Lumen Output	Efficacy (LPW)
FLDM-A07-740 and -750	4000 and 5000	92	90	11,642	126	11,609	126	11,796	128	11,943	130
FLDM-A08-740 and -750	4000 and 5000	120	120	14,392	120	14,352	119	14,583	121	14,765	123
FLDM-A09-740 and -750	4000 and 5000	161	160	17,890	111	17,841	111	18,128	112	18,356	114
FLDM-A10-740 and -750	4000 and 5000	122	120	15,288	126	15,246	125	15,491	127	15,685	129
FLDM-A11-740 and -750	4000 and 5000	140	140	17,112	122	17,065	122	17,339	124	17,557	125
FLDM-A12-740 and -750	4000 and 5000	182	180	20,678	113	20,622	113	20,954	115	21,216	116
FLDM-A13-740 and -750	4000 and 5000	178	180	21,380	120	21,322	120	21,665	122	21,937	123
FLDM-A14-740 and -750	4000 and 5000	227	230	25,922	114	25,851	114	26,266	116	26,595	117

Field Adjustable Wattage Selector (FAWS) Multiplier Chart

FAWS Position	Typical Delivered Lumens Multiplier	Typical System Wattage Multiplier
1	0.31	0.28
2	0.53	0.50
3	0.62	0.58
4	0.70	0.67
5	0.78	0.75
6	0.83	0.81
7	0.89	0.87
8	0.92	0.91
9	0.96	0.95
10	1.00	1.00

Note: Actual performance may vary due to LED and driver tolerances.

Predicted Lumen Depreciation Data

Ambient Temperature °C	Drive current	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1050 mA	>100,000 hours	>36,000 hours	>99%

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

FLDM DuraForm

Medium floodlight

Specifications

Housing and Door

Made of low copper die cast Aluminum alloy (A360) for high resistance to corrosion. A hinged removable door opens to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. Captive flanged hex head screws with slotted drive provide access to electrical components and are compatible with 1/4" flat blade screwdriver.

Mounting

Up tilt aiming and down tilt aiming possible with all of the mounting options. Top edge of casting includes aiming sight for daytime aiming (see instructions).

cULus Listed as suitable for mounting within 4' or 1.2m of the ground.

SFC: Adjustable Slip Fitter with 6' (1.83m) of AWG 16-3 SEOOW cord (or AWG 16-5 if DLEA external control options are selected) exiting the luminaire through IP66 rated cord seal. Customer-specified length or different cord type available - contact factory. Slip Fitter made of low copper die cast Aluminum alloy (A360) for high resistance to corrosion, adjustable knuckle has 5 degree aiming increments with integral interlocking teeth and bolt to secure aiming in place, integral cast-in aiming marks. Fits on a range of tenons from 2-3/8" to 3" (60.3mm to 76.2mm) O.D.

SLF: Same Adjustable Slip Fitter as SFC but with AWG 16-3 wires (or AWG 16-5 if DLEA external control options are selected) exiting through the Slip Fitter. Integral splice compartment for field wiring with cULus Wet Location rated access cover with seal around entire perimeter.

YOK: Adjustable Yoke with 6' (1.83m) of AWG 16-3 SEOOW cord (or AWG 16-5 if DLEA external control options are selected) exiting the luminaire through IP66 rated cord seal. Customer-specified length or different cord type available - contact factory. Yoke made of high strength steel, galvanized and painted for high resistance to corrosion, fully adjustable (no minimum aiming increments) with bolts to secure aiming in place, integral aiming marks.

IP Rating

IP66 rated luminaire in all aiming positions including up tilt aiming per ANSI C136.37 with seal around entire perimeter of the lens and seal around entire perimeter of the electrical / driver compartment.

Light Engine

Composed of 5 main components: Heat Sink, Lens, LED Module, Optical System, Driver. Electrical components are RoHS compliant. LEDs tested by ISO 17025 2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

Heat Sink: Housing acts as heat sink, designed to ensure high efficacy and superior cooling by natural convection air flow always close to LEDs and driver(s) optimizing their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling).

Lens: Made of soda-lime clear tempered glass flat lens, mechanically assembled and sealed onto the housing heat sink forming IP66 seal. NOTE: Lens is not designed to be removable (if removed impacts IP66 seal).

IK Rating: IK09 high impact resistance rating for luminaire lens.

LED Module: Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin 3000K nominal (3045K +/-175K) or 4000K nominal (3985K +/- 275K), both CRI 70 min. 75 Typical.

Optical System: Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance.

Driver: High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min). Driver enables setting LED drive current to meet your specific total wattage consumption, lumen output and/or efficacy needs - ETO Specials, contact factory.

Integrated Features

Please note that these integrated features always come with this luminaire standard at no additional cost.

0-10V dimming driver included as standard, dimming leads pre-wired to Dimming Controls option except when DLEA external controls options are selected.

SP1: Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground. Enhanced surge protection device SP2 20kV/10kA available as an option Surge protection device wired in parallel so that if it fails open the luminaire will remain lit/powered on..

Service Tag: Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the app and register your product right away.

For more details visit: **philips.com/servicetag**

Terminal Block: 3-position. Accepts wires from #2AWG to #14AWG, rated 600V, 85A.

Wiring Cover: Cosmetic cover over LED board wiring. Painted same finish to match luminaire.

Controls Options

Please note that other controls can be integrated as ETO Specials - contact factory.

DALI: Pre-set driver compatible with the DALI Digitally Addressable Lighting Interface control system.

DLEA: 0-10V dimming driver's dimming wires are externally accessible for connecting dimming controls by others.

FAWS: Field Adjustable Wattage Selector, pre-set to the highest position, can be easily switched in the field to the required position. This reduces total luminaire wattage consumption and reduces the light level – see the FAWS multiplier chart for more details.

Note: It is not recommended to use FAWS with other dimming or controls; if you do, set the switch to position 10 (maximum output) to enable the other dimming or controls. Switching FAWS to any position other than 10 will disable the other dimming or controls.

Connected Lighting

Interact City connector node provides the plug and play wireless communications technology to connect your floodlight to the Interact City lighting management system. With Interact you can remotely manage, monitor and control all city lighting, from roads and streets, to parks and plazas, and bridges from one single system. Connected lighting enables capabilities including, accurate on/off switching, dimming control, fault reporting and integration with other systems to enable condition-based lighting. Interact provides you with a robust and scalable infrastructure to further reduce energy consumption, improve operations, and turn lighting into a connected network for your smart city journey.

For more details visit: **https://www.interact-lighting.com/en-us/what-is-possible/interact-city**

FLDM DuraForm

Medium floodlight

Specifications (continued)

Luminaire Options

SP2: 20kV / 10kA surge protection device that provides extra protection beyond the standard SP1 10kV/10kA level. Surge protection device wired in parallel so that if it fails open the luminaire will remain lit/powered on.

TT7*: Tool Less orientable twist-lock receptacle with 7 pins enabling dimming, can be used with an Interact City node, a twist-lock photoelectric cell or a shorting cap.

* Use of photoelectric cell or shorting cap is required to ensure proper illumination.

Note: Additional hardware will be required to utilize the additional 2 pins on this receptacle.

API: Factory Installed NEMA label, ANSI C136.15-2015 compliant, identifies LED source and wattage, affixed to luminaire at factory. Consult factory for other labeling needs.

FS1: Fusing, single (120, 277 or 347VAC) installed in electrical compartment

FS2: Fusing, double (208, 240 or 480VAC) installed in electrical compartment

FS3: Fusing, Canadian Double Pole (208, 240 or 480VAC) installed in electrical compartment.

TOL: Tool Free access 316 stainless steel latches provide a high resistance to corrosion. Latches operable while wearing protective electrical gloves.

VPA: Vandal Proof hardware to prevent access to internal components, 316 stainless steel, complete with Ceramic primer seal to reduce seizing of the parts, also offers a high resistance to corrosion. Bit included with luminaire.

PCB: Photocell Button (a.k.a. button photoeye).

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, exclusive Signify System Reliability Tool, Advance driver data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours with L_{70} lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED color shift, LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Wiring

#2-#14 AWG wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a time-delay or slow blow fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses.

Hardware and Seals

All exposed hardware shall be high-grade 316 stainless steel and ceramic coated for superior corrosion resistance and to prevent galvanic corrosion, and shall be captive. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. The standard finishes achieve a minimum scribe rating of 8 per ASTM D1654 after a minimum of 5000 hours salt spray in accordance with testing performed per ASTM B117 standard.

When Marine Grade paint option is selected, an additional step of anodizing castings is done prior to applying the MG paint. This increases corrosion resistance even further and results in a higher minimum scribe rating of 10 after a minimum of 5000 hours salt spray.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Vibration Resistance

Luminaire meets the ANSI C136.31-2018 specifications, tested by independent lab over 100,000 cycles in all three axes: Bridge/Overpass for both Slip Fitters and for Yoke.

Certifications and Compliance

cULus Listed for Canada and USA, per UL1598 and UL8750, including suitable for mounting within 4' or 1.2m of the ground. Configurations are DesignLights Consortium qualified, consult DLC QPL Qualified Products List for more details. Luminaire complies with or exceeds the following ANSI C136 standards: .2, .3, .10, .15, .21, .22, .24, .25, .31, .32, .37, .41. Entire luminaire is rated and cULus Elevated Ambient Listed for operation in ambient temperature of -40°C (-40°F) up to +50°C (+122°F) - contact factory if +50C ambient with DALI is required. Controls options enable compliance with Outdoor lighting energy codes including ASHRAE 90.1, California Title 24, and IECC.

Limited Warranty

10-year limited warranty.

See signify.com/warranties for details and restrictions

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