



**Gardco OptiForm Flood** is a low-profile, lightweight luminaire designed to deliver aesthetics, flexibility, and savings for campuses, retail and hospitality, and public spaces. With a variety of adjustable mountings and advanced optics, it provides efficient, uniform illumination over a tilt range of 0–80 degrees. Engineered with integral controls options and Service Tag, OptiForm reduces energy and maintenance costs. Whether you need to highlight key areas or cover expansive zones, choose OptiForm for optimal performance.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

Example: OFD-M-20L-740-A33-SF2-UNV-FAWS-MG

Luminaire	Configuration (nom. lumens)	Color Temperature	Distribution	Mounting	Voltage
<b>OFD-M</b>					
<b>OFD-M</b> OptiForm Flood Medium	<b>20L</b> 20,000 lm	<b>827<sup>1</sup></b> 80CRI 2700K	<b>3x3</b> NEMA 3x3 (Medium Spot)	<b>SF2</b> (2-3/8") Slip Fitter Mount	<b>120</b> 120V
	<b>24L</b> 24,000 lm	<b>830</b> 80CRI 3000K	<b>4x4</b> NEMA 4x4 (Narrow Flood)	<b>SF3</b> (3") Slip Fitter Mount	<b>208</b> 208V
	<b>29L</b> 29,000 lm	<b>840</b> 80CRI 4000K	<b>5x5</b> NEMA 5x5 (Medium Flood)	<b>TRN</b> Trunion Mount (6' or 1.83m cord exits luminaire)	<b>240</b> 240V
	<b>34L</b> 34,000 lm	<b>727<sup>1</sup></b> 70CRI 2700K	<b>6x6</b> NEMA 6x6 (Wide Flood)	<b>WAA</b> Wall Mount - Adjustable	<b>277</b> 277V
		<b>730</b> 70CRI 3000K	<b>A33</b> NEMA 6x5 (Asymmetric 33° Tilt Flood)	<b>POA</b> Single Post Top - Adjustable	<b>347</b> 347V
		<b>740</b> 70CRI 4000K		<b>ARA</b> Arm Mount - Adjustable	<b>480</b> 480V
		<b>750</b> 70CRI 5000K		<b>MAA</b> Mast Arm - Adjustable	<b>UNV</b> 120-277V <b>HVX</b> 277-480V

Dimming Controls (only one may be selected)	Lighting Controls <sup>2</sup> (only one may be selected)	Options	Finish
<p><b>The following options include a 0-10V Driver</b></p> <p><b>None</b> 0-10V dimming driver (standard)  <b>DLEA</b> Dimming leads externally accessible (controls by others)  <b>FAWS<sup>6</sup></b> Field adjustable wattage selector</p>	<p><b>None</b> -</p> <p><b>PCB<sup>4</sup></b> Photocontrol Button  <b>TR7<sup>3</sup></b> NEMA 7-pin Twist Lock Receptacle  <b>TLP<sup>3</sup></b> NEMA 7-pin Twist Lock Receptacle with 3-pin photocell</p>	<p><b>Surge protection</b></p> <p><b>None</b> Surge protector 10kV/10kA (standard)  <b>SP2</b> Surge protector 20kV/10kA (option)</p> <p><b>Fusing<sup>5,6</sup></b></p> <p><b>FS1</b> Single Fuse (120V, 277V, or 347V)  <b>FS2</b> Double Fuse (208V, 240V, 480V)</p>	<p><b>Standard textured</b></p> <p><b>BK</b> Black  <b>WH</b> White  <b>BZ</b> Bronze  <b>DG</b> Dark Gray  <b>MG</b> Medium Gray</p> <p><b>Customer specified<sup>1</sup></b></p> <p><b>OC</b> Specify optional color or RAL (consult factory)  <b>SC</b> Special color (must supply color chip, requires factory quote)  <b>MP</b> Marine grade paint (must specify finish color from list above; Example: BK-MP)</p>
<p><b>The following options include a D4i Certified DALI/SR Driver</b></p> <p><b>D4ID</b> D4i Certified DALI/SR Driver  <b>ZD4I<sup>3</sup></b> Zhaga-D4i Certified Fixture (includes Zhaga 4-pin receptacle; sensor supplied by others)  <b>RCRK<sup>5,7</sup></b> Ready to Connect to Remote Kit (see <b>RCRK-Compatible Accessories</b> for RK-TR7, RK-WIAPLB, and RK-WIAPHB)</p>			

1. Must contact factory prior to ordering.
2. Not compatible with SF2, SF3, or TRN mounting options.
3. Luminaire tilt restriction of 45°
4. PCB only available with 120, 208, 240, or 277.
5. Must specify input voltage. UNV and HVX not valid.
6. FAWS is not available with fusing options FS1 or FS2.
7. Must install with desired Remote Kit (see **RCRK-Compatible Accessories**).

# OFD-M OptiForm medium Floodlight

## Mounting Accessories (order separately)

**OFD-RMB** Retrofit Mounting Bolster Plate for attaching OptiForm to existing poles. Recommended for retrofit applications. Only compatible with Arm Mount - Adjustable (ARA).

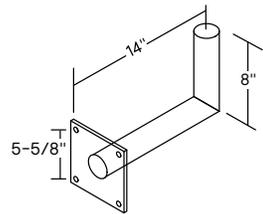
## Mounting Brackets

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

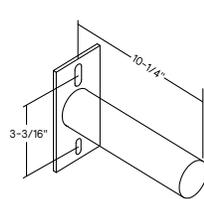
Exception: All UPS Upsweep - contact factory to confirm compatibility. Bracket examples shown below.

### Single Bracket Examples

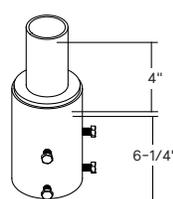
SBRKT-RAH-L1-14/8-WA



SBRKT-STN-L1-10

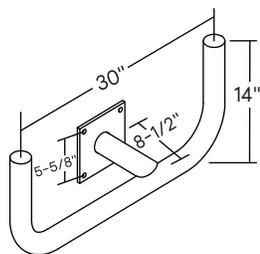


SBRKT-ETR-L1-4

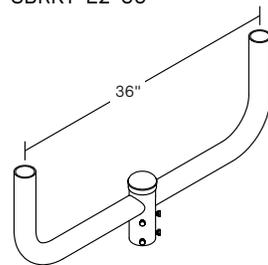


### Twin Linear Bracket Examples

SBRKT-RA-L2-30-WA

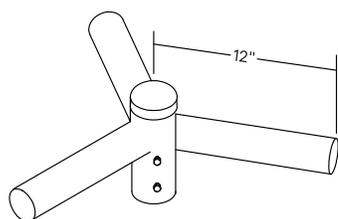


SBRKT-L2-36



### Triple Spider Bracket Example

SBRKT-S3-12



## Luminaire Accessories (ordered separately, field installed)

One shield kit per luminaire

**OFD-M-GSH** Glare Shield (For use with 3x3 and 4x4 optics)

**OFD-M-A33-FSS** Front Side Shield (For use with A33 optic)

**OFD-TSC** Twist-Lock Shorting Cap (ordered separately for use with TR7 option)

## RCRK-Compatible Accessories<sup>1</sup> (Dark Gray finish)

**OFD-RK-TR7** Remote Kit NEMA 7-pin Twist Lock Receptacle (sensor supplied by others)

**OFD-RK-WIAPLB<sup>2</sup>** Remote Kit 4-pin Zhaga Socket with Wireless Interact Low (7'-15' mounting height) sensor, Black color sensor housing

**OFD-RK-WIAPHB<sup>2</sup>** Remote Kit 4-pin Zhaga Socket with Wireless Interact High (15'-40' mounting height) sensor, Black color sensor housing

1. One RCRK-Compatible Accessory can control up to 4 luminaires. Exceptions may apply depending on the luminaire configuration and sensor's rating. Consult installation documents or technical support for more details.
2. WIAPLW or WIAPHW (Wireless Interact Low or High sensor, White sensor housing) available - contact factory for details.

## Predicted Lumen Depreciation Data

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. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.

Ambient Temp°C	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	>102,000 hours	90.26%

# OFD-M OptiForm medium

## Floodlight

### Optical Distributions



15' or 4.6m mounting height, 30° tilt

#### 3x3 NEMA 3x3 (Medium Spot)

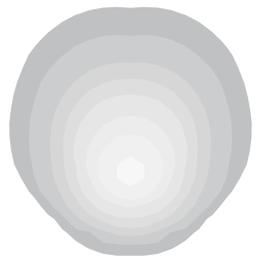
- **Typical mounting height:** 10'–35' (3.0–10.7 m)
- **Suggested setback:** 15' (4.6 m)
- **Suggested tilt:** Up to 45° downward
- **Recommended tilt:** ~ 30°
- **Applications:** Flags (especially large flags needing reach), tighter accenting, scalloping, projecting up tall columns or slender features, statues, vertical architectural elements, tall trees.
- **Rationale:** This optic is concentrated, suitable where you want sharp light long distances with minimal spread, and to sculpt light/shadow.



30' or 9.1m mounting height, 25° tilt

#### 4x4 NEMA 4x4 (Narrow Flood)

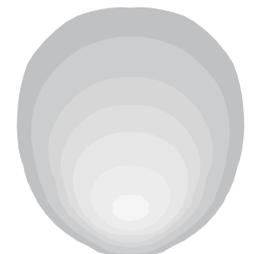
- **Typical mounting height:** 20' to 40' (6.1–12.2 m)
- **Suggested setback:** ~ 15' to 25' (4.6–7.6 m) or about equal to mounting height
- **Suggested tilt:** Up to 45° downward
- **Recommended tilt:** ~ 25°
- **Applications:** Façade accent lighting, building edges, vertical surfaces (walls, columns), narrow billboards/signage, architectural reveals.
- **Rationale:** This optic gives modest spread while keeping light directed to the target (minimizing spill).



30' or 9.1m mounting height, 25° tilt

#### 5x5 NEMA 5x5 (Medium Flood)

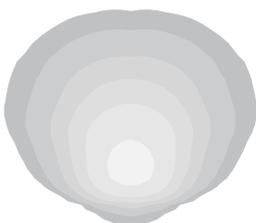
- **Typical mounting height:** 25' to 45' (7.6–13.7 m)
- **Suggested setback:** ~ 15' to 30' (4.6–9.1 m)
- **Suggested tilt:** Up to 45° downward
- **Recommended tilt:** ~ 25°
- **Applications:** General flood of moderate surfaces, mid-scale building façades, signage, mid-size plazas, terrain/landscape illumination, wall washing.
- **Rationale:** This optic is a good compromise between throw and spread; common general-purpose flood.



30' or 9.1m mounting height, 30° tilt

#### 6x6 NEMA 6x6 (Wide Flood)

- **Typical mounting height:** 25' to 45' (7.6–13.7 m)
- **Suggested setback:** ~ 10' to 30' (3.0–9.1 m)
- **Suggested tilt:** Up to 45° downward
- **Recommended tilt:** ~ 30°
- **Applications:** Broad façade flooding, larger walls, building perimeters, landscape washes, massing features, general site flood from poles.
- **Rationale:** Wider beam spread gives more coverage laterally; ideal where you want coverage rather than projection.



30' or 9.1m mounting height, 33° tilt

#### A33 NEMA 6x5 (Asymmetric 33° Tilt Flood)

- **Typical mounting height:** 25' to 45' (7.6–13.7 m)
- **Suggested setback:** ~ 5'– 30' (1.5–9.1 m)
- **Suggested tilt:** ~ 33° (by definition / design)
- **Recommended tilt:** 33°
- **Applications:** Perimeter pole floods, area lighting from edges, parking lots, wall washing from distance, large façades, large trees / landscape canopies.
- **Rationale:** The asymmetry allows you to flood forward into the area while limiting back spill; ideal where luminaires are on boundary. Mimics a Type 4 area distribution.

# OFD-M OptiForm medium

## Floodlight

### OFD-M Floodlight Lumen Values

Configuration	CRI	Color Temp. (K)	Average System Watts (W)	3x3		4x4		5x5		6x6		A33	
				Lumen Output	Efficacy (LPW)								
OFD-M-20L-730	70	3000	128	22161	173	21699	170	22862	179	22717	178	22607	177
OFD-M-24L-730	70	3000	147	25044	170	24521	167	25836	176	25672	175	25548	174
OFD-M-29L-730	70	3000	186	30513	164	29876	161	31478	169	31279	168	31127	167
OFD-M-34L-730	70	3000	196	31874	163	31209	159	32882	168	32674	167	32516	166
OFD-M-20L-740	70	4000	128	23068	180	22587	177	23797	186	23647	185	23532	184
OFD-M-24L-740	70	4000	147	26069	177	25525	174	26893	183	26723	182	26594	181
OFD-M-29L-740	70	4000	186	31762	171	31099	167	32766	176	32559	175	32401	174
OFD-M-34L-740	70	4000	196	33178	169	32487	166	34228	175	34011	174	33847	173
OFD-M-20L-750	70	5000	128	23022	180	22542	176	23751	186	23600	184	23486	184
OFD-M-24L-750	70	5000	147	26018	177	25475	173	26841	183	26671	181	26542	181
OFD-M-29L-750	70	5000	186	31699	170	31038	167	32702	176	32495	175	32338	174
OFD-M-34L-750	70	5000	196	33113	169	32423	165	34161	174	33945	173	33780	172
OFD-M-20L-830	80	3000	128	20169	158	19748	154	20807	163	20675	162	20575	161
OFD-M-24L-830	80	3000	147	22793	155	22317	152	23514	160	23365	159	23252	158
OFD-M-29L-830	80	3000	186	27770	149	27191	146	28648	154	28467	153	28329	152
OFD-M-34L-830	80	3000	196	29009	148	28404	145	29927	153	29737	152	29593	151
OFD-M-20L-840	80	4000	128	21094	165	20654	161	21761	170	21623	169	21519	168
OFD-M-24L-840	80	4000	147	23838	162	23341	159	24592	167	24437	166	24318	165
OFD-M-29L-840	80	4000	186	29044	156	28438	153	29963	161	29773	160	29629	159
OFD-M-34L-840	80	4000	196	30340	155	29707	152	31299	160	31101	159	30951	158

# OFD-M OptiForm medium

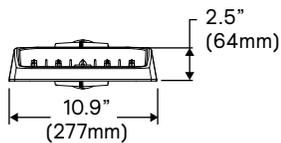
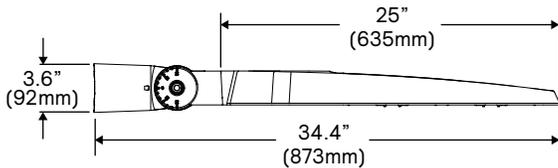
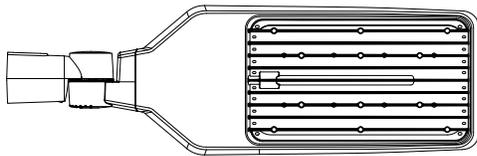
## Floodlight

### Dimensions

**SF2 (2-3/8") Slip Fitter Mount**

**Weight:** 14lbs (6.4kg)

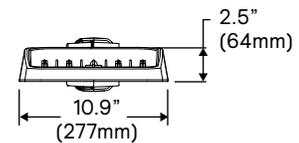
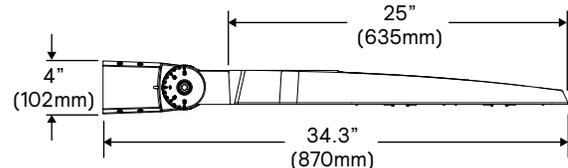
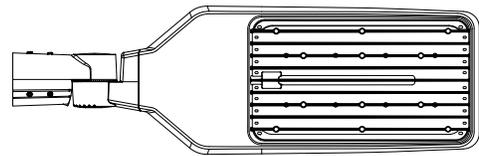
EPA		
0°	30°	80°
0.46 ft <sup>2</sup> 0.14 m <sup>2</sup>	0.74 ft <sup>2</sup> 0.23 m <sup>2</sup>	2.18 ft <sup>2</sup> 0.66 m <sup>2</sup>



**SF3 (3") Slip Fitter Mount**

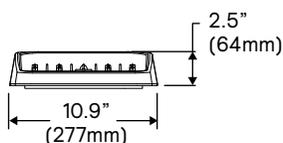
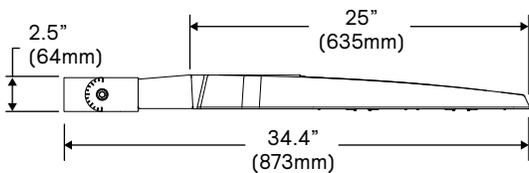
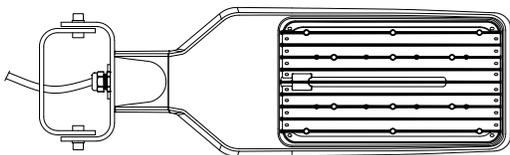
**Weight:** 14lbs (6.4kg)

EPA		
0°	30°	80°
0.48 ft <sup>2</sup> 0.15 m <sup>2</sup>	0.78 ft <sup>2</sup> 0.24 m <sup>2</sup>	2.21 ft <sup>2</sup> 0.67 m <sup>2</sup>



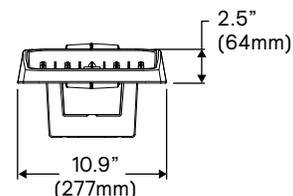
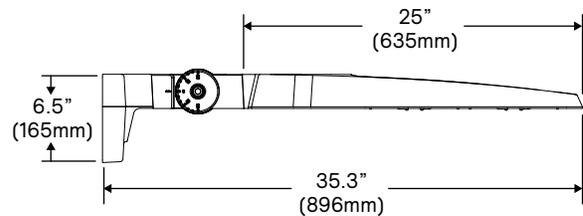
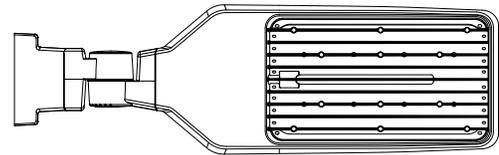
**TRN Trunion Mount**

**Weight:** 16.2lbs (7.4kg)



**WAA Wall Mount - Adjustable**

**Weight:** 16.1lbs (7.3kg)



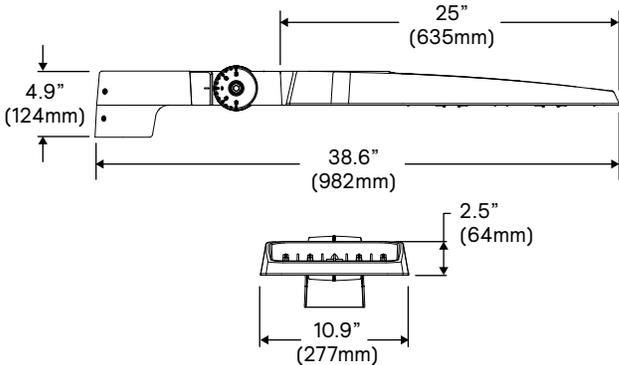
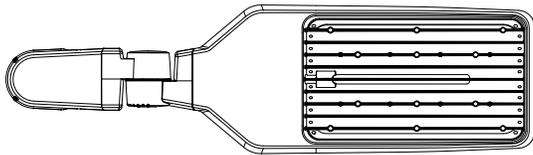
# OFD-M OptiForm medium Floodlight

## Dimensions (continued)

### POA Single Post Top – Adjustable

Weight: 17.1lbs (7.8kg)

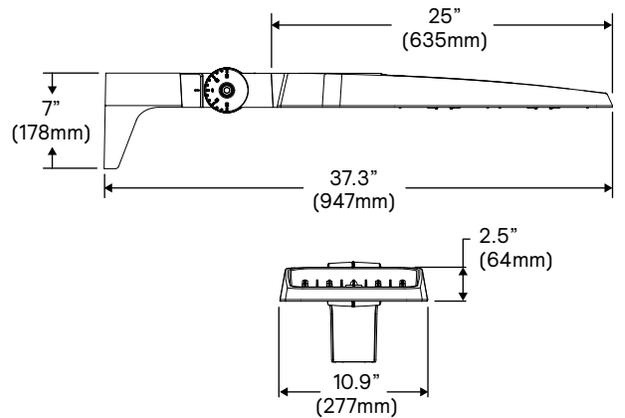
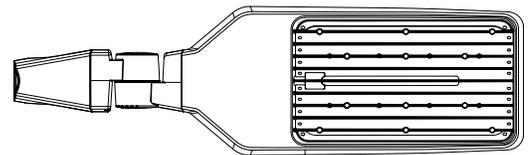
EPA		
0°	30°	80°
0.56 ft <sup>2</sup>	0.74 ft <sup>2</sup>	2.22 ft <sup>2</sup>
0.17 m <sup>2</sup>	0.23 m <sup>2</sup>	0.68 m <sup>2</sup>



### ARA Arm Mount – Adjustable

Weight: 17lbs (7.7kg)

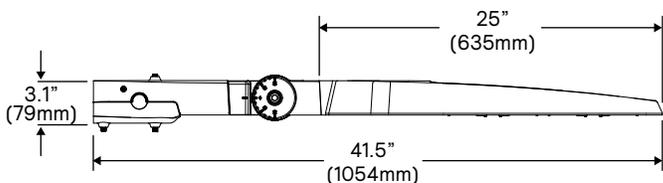
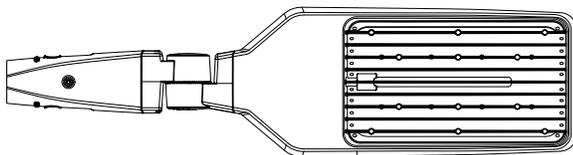
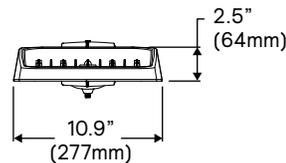
EPA		
0°	30°	80°
0.57 ft <sup>2</sup>	0.81 ft <sup>2</sup>	2.36 ft <sup>2</sup>
0.17 m <sup>2</sup>	0.25 m <sup>2</sup>	0.72 m <sup>2</sup>



### MAA Mast Arm – Adjustable

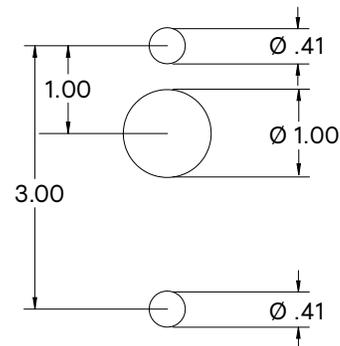
Weight: 17.5lbs (7.9kg)

EPA		
0°	30°	80°
0.59 ft <sup>2</sup>	0.74 ft <sup>2</sup>	2.19 ft <sup>2</sup>
0.18 m <sup>2</sup>	0.23 m <sup>2</sup>	0.67 m <sup>2</sup>

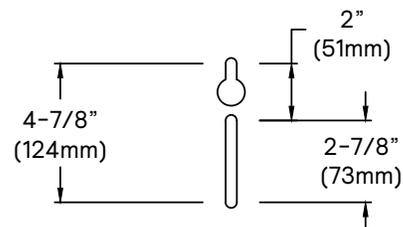


### Standard Drill Pattern for Arm Mount – Adjustable (ARA)

#### Drill Template #5



### Standard Arm Mounting Hole Pattern



# OFD-M OptiForm medium

## Floodlight

### Specifications

#### Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detachable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP66, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1. OptiForm carries an impact rating of IK08.

#### Vibration resistance

OptiForm **SF2**, **SF3**, **POA**, **ARA**, and **MAA** mounts are tested and rated to standards set forth in ANSI C136.31-2018 & 2023 Level 1 (1.5G) Normal applications. **WAA** and **TRN** mounts pass the UL 1598 Load Test.

#### Light engine

Sealed high-performance LED light engine with scalable modules.

- **Small:** 1 module, 40 LEDs
- **Medium:** 2 modules, 80 LEDs
- **Large:** 4 modules, 160 LEDs
- **X-Large:** 6 modules, 240 LEDs

Delivers reliable output in multiple color temperatures: 70 CRI with 2700K or 3000K or 4000K or 5000K, and 80 CRI with 2700K or 3000K or 4000K. Contact factory prior to ordering 70CRI or 80CRI with 2700K. Tolerance: 2700K ±145K; 3000K ±175K; 4000K ±275K; 5000K ±283K (per ANSI/NEMA binning).

LED light engine is designed for durability with IP66 protection in accordance to Section 9 of IEC 60598-1 and RoHS-compliant construction.

#### Optical systems

OptiForm Flood medium optical distributions include NEMA **3x3**, **4x4**, **5x5**, **6x6**, and 6x5 (**A33** Asymmetric 33° Tilt). Optional internal shields mount to LED optics and are available. **OFD-M-GSH** (see Accessories) is designed for NEMA 3x3 and 4x4 optical distributions. **OFD-M-A33-FSS** (see Accessories) is designed for use with the **A33** optical distribution. Flood optics shall be performance tested per LM-79 and TM-15 (IESNA) certifying their photometric performance.

#### Mounting

The luminaire may be tilted only between 0° (directly downward) and 80° degrees above nadir with all the mounting options.

**SF2:** Adjustable Slip Fitter with 18 AWG wires exiting through the Slip Fitter. Integral splice compartment for field wiring with cULus Wet Location rated access cover with seal around entire perimeter. Slip Fitter made of die cast Aluminum alloy (A380) 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 a 2-3/8" tenon (60.3mm) O.D. **SF2** mount meets the ANSI C136.31-2018 & 2023 specifications for Level 1 (1.5G) Normal applications.

**SF3:** Adjustable Slip Fitter with 18 AWG wires exiting through the Slip Fitter. Integral splice compartment for field wiring with cULus Wet Location rated access cover with seal around entire perimeter. Slip Fitter made of die cast Aluminum alloy (A380) 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 a 3" tenon (60.3mm) O.D. **SF3** mount meets the ANSI C136.31-2018 & 2023 specifications for Level 1 (1.5G) Normal applications.

**TRN:** Adjustable Trunnion with 6' (1.83m) of 16 AWG SEOOW cord exiting through IP66 rated cord seal. Customer-specified length or different cord type available - contact factory. Trunnion made of high strength aluminum alloy, painted for high resistance to corrosion, fully adjustable (no minimum aiming increments) with bolts to secure aiming in place, integral aiming marks every 15 degrees. **TRN** mount passes the UL 1598 Load Test.

**WAA:** Adjustable Wall Mount comes pre-wired with 18 AWG wires. Adjustable wall mount made of die cast Aluminum alloy (A380) for high resistance to corrosion. Adjustable knuckle has 5 degree aiming increments with integral interlocking teeth and bolt to secure aiming in place. Limited to small (**OFD-S**) and medium sizes (**OFD-M**). **WAA** mount passes the UL 1598 Load Test.

**POA:** Adjustable Post Top Mount comes pre-wired with 18 AWG wires. Adjustable post top mount made of die cast Aluminum alloy (A380) for high resistance to corrosion. Adjustable knuckle has 5 degree aiming increments with integral interlocking teeth and bolt to secure aiming in place. **POA** mount meets the ANSI C136.31-2018 & 2023 specifications for Level 1 (1.5G) Normal applications.

**ARA:** Adjustable Arm Mount comes pre-wired with 18 AWG wires. Adjustable arm mount made of die cast Aluminum alloy (A380) for high resistance to corrosion. Adjustable knuckle has 5 degree aiming increments with integral interlocking teeth and bolt to secure aiming in place. Mounts to square poles with knock-out on the arm to allow for mounting to 4-5" O.D. round poles for small (**OFD-S**), medium (**OFD-M**), and large (**OFD-L**) sizes. X-large (**OFD-XL**) size only mounts to 4-5" O.D. round poles. Standard arm casting can accommodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit **OFD-RMB** (see Accessories) when it's not a new installation or if the mounting holes are larger than 0.41" (10mm). **OFD-RMB** is ordered separately for small (**OFD-S**), medium (**OFD-M**), and large (**OFD-L**), but comes as standard for x-large (**OFD-XL**) and does not need to be ordered separately. **ARA** mount meets the ANSI C136.31-2018 & 2023 specifications for Level 1 (1.5G) Normal applications.

**MAA:** Adjustable Mast Arm Mount comes pre-wired with 18 AWG wires. Adjustable mast arm mount made of Aluminum alloy (A356) with high resistance to corrosion. Adjustable knuckle has 5 degree aiming increments with integral interlocking teeth and bolt to secure aiming in place. For mounting to 2-3/8" x 5" tenon. Not intended to be installed on a vertical tenon, but instead a horizontal tenon. **MAA** mount meets the ANSI C136.31-2018 & 2023 specifications for Level 1 (1.5G) normal applications.

#### Control options

**Dimming Leads Externally Accessible (DLEA):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**ZD4i Zhaga-D4i Certified Fixture (includes Zhaga 4-pin receptacle):** With the **ZD4i** option (or **WIAP**), your luminaire comes Zhaga-D4i certified. Provides easy integration with D4i smart sensors and communication nodes, enabling plug-and-play IoT upgrades. Product equipped with D4i driver(s) connected to 4-pin Zhaga Book 18 compliant receptacle. Receptacle has IP66 rated assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not D4i certified is used, we cannot guarantee full compatibility.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	29%	6	80%
2	52%	7	83%
3	61%	8	93%
4	72%	9	98%
5	77%	10	100%

Note: Typical value accuracy +/- 5%

# OFD-M OptiForm medium

## Floodlight

### Specifications (continued)

#### Control options

**RCRK** Ready to Connect to Remote Kit enables controllability for OptiForm Flood without restriction to luminaire mounting types or tilt angles. The remote kit sidecar can be pole-mounted or wall-mounted no greater than 1.5m (4.92ft) away from the luminaire that it controls and is available in a Dark Gray finish. RCRK-Compatible Accessories (see Accessories) **RK-WIAPLB**, **RK-WIAPHB**, or **RK-TR7** must be ordered when the luminaire option **RCRK** is selected. **RK-WIAPLB** and **RK-WIAPHB** use the Philips LCA7305 and include a Wireless Interact Parking sensor (Philips LCN4x10) connected to a 4-pin Zhaga Book 18 compliant receptacle. **RK-TR7** uses the Philips LCA7307 and is equipped with a NEMA 7-pin Twist-Lock Receptacle. Contact factory to inquire about the integration of other nodes such as the OMS Outdoor Multi Sensor (Philips LRI8135) or LLC Interact City cellular technology connector node. One RCRK-Compatible Accessory can control up to 4 luminaires. Exceptions may apply depending on the luminaire configuration and sensor's rating. Consult installation documents or technical support for more details.

#### Electrical

**NEMA 7-pin Twist-Lock Receptacle (TR7/TLP):** Twist-Lock Receptacle with 7 pins enabling dimming and additional functionality (by others) can be used with a 3-pin photocell (**TLP**) or a shorting cap (**TR7** with **OFD-TSC** Accessory). Dimming Receptacle (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on mounting options. Not available with **SF2**, **SF3**, and **TRN**. When specifying receptacle with twist-lock photoelectric cell (**TLP**), voltage must be specified. When ordering 7-pin twist-lock receptacle (**TR7**), all 6 pins are wired to respective pins with the D4i Certified DALI/SR driver, 5 pins for 0-10V driver if not ordered with any other dimming option. Luminaire tilt restriction of 45 degrees with either **TR7** or **TLP** options.

**Driver:** Driver efficiency (>90% standard). THD is <20%. 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options D4i, ZD4i, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

**Photocontrol Button (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** 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, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

#### Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Contact factory for DLC certification for configurations that are not currently listed on the Qualified Products list. We can provide DLC certification for select configurations on demand.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include textured bronze (**BZ**), black (**BK**), white (**WH**), dark gray (**DG**), and medium gray (**MG**). The finish achieves a minimum scribe rating of 6 per ASTM D1654 after a minimum of 3000 hours salt spray in accordance with testing performed per ASTM B117 standard. Consult Factory for specs on optional, custom colors, and marine grade paint.

#### Service Tag

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

For more details visit: [signify.com/servicetag](https://signify.com/servicetag)

#### Warranty

OptiForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](https://signify.com/warranties) for complete details and exclusions.