GARDCO

Site and Area

OptiForm

OPF-L Large



Gardco OptiForm site and area luminaires combine high performance and versatility in four sizes—small through extra-large—to meet a wide range of outdoor lighting needs. Delivering up to **192 lm/W** with **11 precision optical distributions,** OptiForm ensures efficient, uniform illumination for diverse applications. Its **innovative two-piece housing design** simplifies installation, while multiple mounting options—arm, mast arm, wall, post-top, and slip fitter—provide flexibility to adapt seamlessly to any site & area condition.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

Example: OPF-L-34L-840-T4M-AR1-120-BL50-L3-BZ

Luminaire

OPF-L
OptiForm Large Area Light

Configuration (nom. lumens)

Site and Area

34L	34,000 lm
40L	40,000 lm
46L	46,000 lm
52L	52,000 lm
60L	60,000 lm
70L[14]	70,000 lm
80L[14]	80,000 lm

Color Temp.

827[1]	80CRI 2700K
830	80CRI 3000K
840	80CRI 4000K
727[1]	70CRI 2700K
730	70CRI 3000K
740	70CRI 4000K
750	70CRI 5000K

Distribution

Autofront row

AFR	Autofront row
AFR-90	Rotated left 90°
AFR-270	Rotated left 270°

Type 2

T2M	Type 2 medium
T2M-90	Rotated left 90°
T2M-270	Rotated left 270°

Type 3

T3M	Type 3 medium
T3M-90	Rotated left 90°
T3M-270	Rotated left 270°

LEED Optics

LCL	LEED corner left
LCR	LEED corner right

Type 4 Medium

T4M	Type 4 medium
T4M-90	Rotated left 90°
T4M-270	Rotated left 270°

Type 4 Wide

T4W	Type 4 wide
T4W-90	Rotated left 90°
T4W-270	Rotated left 270°

Type 5

T5N	Type 5 narrow
T5M	Type 5 medium
T5W	Type 5 wide

BLC	Back light control
BLC-90	Rotated left 90°
BLC-270	Rotated left 270°

Mounting

AR1[2,10]	Arm mount (standard)
MAR[3]	Mast arm
WAL	Wall mount
POS	Single post top
MOS[4]	Mounting (ordered separately)

Adjustable mountings[12]

SF2	2-3/8" slip fitter
SF3	3" slip fitter
ARA	Arm Mount
MAA	Mast arm
POA	Post top

Voltage

120	120V
208	208V
240	240V
277	277V
347	347V
480	480V
UNV	120-277V
HVX	277-480V

Dimming Controls

The following options include 0-10V Driver

None	0-10V dimming driver (standard)
DLEA[5]	Dimming leads externally accessible (controls by others)
FAWS[5,6]	Field adjustable wattage selector
BL50L3[5]	PIR motion response dim to 50% L3 lens (20'-40')
BL50L7[5]	PIR motion response dim to 50% L7 lens (40')

The following options include D4i Certified DALI/SR Driver

D4ID[5]	D4i Certified DALI/SR Driver
ZD4I[5]	Zhaga-D4i Certified Fixture (includes Zhaga 4-pin receptacle)
WIAPLW[5,7]	Wireless Interact outdoor low mounting (7-15'), white housing
WIAPLB[5,7]	Wireless Interact outdoor low mounting (7-15'), black housing
WIAPHW[5,7]	Wireless Interact outdoor high mounting (15-40'), white housing
WIAPHB[5,7]	Wireless Interact outdoor high mounting (15-40'), black housing

DynaDimmer: Automatic Profile Dimming

CS50[5]	Security 50% dimming, 7 hours
CM50[5]	Median 50% dimming, 8 hours
CS30[5]	Security 30% dimming, 7 hours
CM30[5]	Median 30% dimming, 8 hours

Lighting Controls and Sensing

None	-
PCB[8,9]	Photocontrol Button
TR7[5,13]	NEMA 7-pin Twist Lock Receptacle
TLP[5,13]	NEMA 7-pin Twist Lock Receptacle with 3-pin photocell
OMS[5,11]	Outdoor Multisensor

Options

Surge protection

None	Surge protector 10kV/10kA (standard)
SP2	Surge protector 20kV/10kA (option)

Fusing

FS1[8]	Single Fuse (120, 277, or 347VAC
FS2[8]	Double Fuse (208V, 240V, 480V)

Finish

Standard textured

BK	Black
WH	White
BZ	Bronze
DG	Dark Gray
MG	Medium Gray

Customer specified[1]

OC	Specify optional color or RAL (consult factory)
SC	Special color (must supply color chip, requires factory quote)
MP	Marine grade paint (must specify finish color from list above; Example: BK-MP)

Footnotes on page 2.

DARKSKY APPROVED Reduces light pollution Certified by DarkSky.org

ZD4i

cULus

interact ready.

OPF-L OptiForm large

Site & area luminaire

Ordering guide footnotes

1. Extended leadtime applies. Consult factory for details.
2. Mounts to a square pole with knockout for 4-5" OD round pole.
3. Mounts to a horizontal 2-3/8" OD x 5" Long tenon.
4. Must be selected with mounting accesory. See below for options.
5. Not available with other dimming control options (mutually exclusive).
6. Not available with motion sensor (physical restriction).
7. Not available with PCB, TR7.
8. Must specify input voltage.
9. Not available in HVX (277-480V).
10. OPF-RMB accessory recommended for retrofit applications. Provided by default with AR1 and ARA.
11. ZD4i Driver option must be selected with OMS.
12. Tilt recommendation no more than 10° for Site & Area optics. See page 8, Dark Sky compliance.
13. TR7 and TLP receptacle pins 4-7 are capped off when ordered with any of the Dimming controls BL50, DLEA or FAWS.
14. 70L & 80L large housing option not available with BLC optics.

Shielding Accessory Kits (order separately, field installed)

OPF-L-HIS-4[1]	Internal house side shields for optic types T2M, T3M, and T5N, qty 4
OPF-L-HIS-T4-4[1]	Internal house side shield for optic types T4M and T4W, qty 4
OPF-L-HIS-5M/5W[1]	Internal house side shield for optic types T5M and T5W. qty 4

1. Standard internal house shields (HIS) can be used for rotated optics.

Mounting Accessories

OPF-RMB	Retrofit Mounting Bolster Plate for attaching OptiForm to existing poles. Recommended for retrofit applications.

Mountings (boxed and shipped separately)

Must choose Mounting Ordered Separately (MOS) selection for mounting option of luminaire. Useful for attachment of arm to pole prior to luminaire installation. (F) Must specify finish.

Standard Arm	
OPF-AR1-(F)[2,13]	Standard arm mount
OPF-AR1-TR7-(F)[2,13]	Standard arm mount with 7-pin (TR7) receptacle
OPF-ARA-(F)	Adjustable arm mount
OPF-ARA-TR7-(F)	Adjustable arm mount with 7-pin (TR7) receptacle
Wall Mount	
OPF-WAL-(F)	Wall mount bracket
OPF-WAL-TR7-(F)	Wall mount with 7-pin (TR7) receptacle
Mast Arm	
OPF-MAR-(F)[3]	Mast arm mount
OPF-MAR-TR7-(F)[3]	Mast arm mount with 7-pin (TR7) receptacle
OPF-MAA-(F)	Adjustable mast arm
OPF-MAA-TR7-(F)	Adjustable mast arm with 7-pin (TR7) receptacle
Post Top	
OPF-POS-(F)	Post top
OPF-POS-TR7-(F)	Post top with 7-pin (TR7) receptacle
OPF-POA-(F)	Adjustable post top
OPF-POA-TR7-(F)	Adjustable post top with 7-pin (TR7) receptacle
Slip Fitter	
OPF-SF2-(F)	Adjustable 2-3/8" slip fitter
OPF-SF3-(F)	Adjustable 3" slip fitter

Luminaire Accessories (order separately)

Pole Mount Fusing	
FP1	Pole mount single fuse (120V, 277V, or 347V)
FP2	Pole mount double fuse (208V, 240V, or 480V)
Photocell Accessories	
TSC	Twist-lock shorting cap

Pole Top Fitters

(F) Must specify finish

PTF2 - Pole top fitter fits 2 3/8 - 2 1/2" OD x 4" depth tenon	
PTF2-1-90-(F)	1 luminaire at 90°
PTF2-2-90-(F)	2 luminaires at 90°
PTF2-3-90-(F)	3 luminaires at 90°
PTF2-4-90-(F)	4 luminaires at 90°
PTF2-2-180-(F)	2 luminaires at 180°
PTF2-3-120-(F)	3 luminaires at 120°
PTF3 - Pole top fitter fits 3-3 1/2" OD x 6" depth tenon	
PTF3-1-90-(F)	1 luminaire at 90°
PTF3-2-90-(F)	2 luminaires at 90°
PTF3-3-90-(F)	3 luminaires at 90°
PTF3-4-90-(F)	4 luminaires at 90°
PTF3-2-180-(F)	2 luminaires at 180°
PTF3-3-120-(F)	3 luminaires at 120°

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.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.

Ambient Temp°C	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	>100,000 hours	>102,000 hours	96%

OPF-L OptiForm large

Site & area luminaire

Optical Distributions

Type 2 Medium

Type 3 Medium

Type 4 Medium

Type 4 Wide

Autofront Row

Back Light Control

Type 5 Narrow

Type 5 Medium

Type 5 Wide

LCL

LCR

OPF-L OptiForm large

Site & area luminaire

OPF-L Area Optic Lumen Values

Lumen Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
34L	191	T2M	33852	B4-U0-G4	177	35239	B4-U0-G4	185	35166	B4-U0-G4	184
		T3M	33315	B3-U0-G5	174	34681	B4-U0-G5	182	34608	B4-U0-G5	181
		T4M	32881	B3-U0-G5	172	34229	B3-U0-G5	179	34157	B3-U0-G5	179
		T4W	32724	B3-U0-G5	171	34066	B3-U0-G5	178	33995	B3-U0-G5	178
		T5N	34964	B5-U0-G3	183	36398	B5-U0-G3	191	36322	B5-U0-G3	190
		T5M	34837	B5-U0-G4	182	36266	B5-U0-G4	190	36190	B5-U0-G4	190
		T5W	33588	B5-U0-G5	176	34965	B5-U0-G5	183	34892	B5-U0-G5	183
		AFR	35155	B4-U0-G4	184	36596	B4-U0-G4	192	36519	B4-U0-G4	191
		LCL	16792	B2-U0-G3	88	17480	B2-U0-G3	92	17444	B2-U0-G3	91
		LCR	16465	B2-U0-G3	86	17140	B2-U0-G3	90	17104	B2-U0-G3	90
		BLC	23809	B1-U0-G4	125	24785	B1-U0-G4	130	24733	B1-U0-G4	130
40L	235	T2M	39735	B4-U0-G4	169	41364	B4-U0-G4	176	41278	B4-U0-G4	176
		T3M	39105	B4-U0-G5	166	40708	B4-U0-G5	173	40623	B4-U0-G5	173
		T4M	38595	B3-U0-G5	164	40177	B3-U0-G5	171	40093	B3-U0-G5	171
		T4W	38412	B4-U0-G5	164	39986	B4-U0-G5	170	39903	B4-U0-G5	170
		T5N	41041	B5-U0-G4	175	42723	B5-U0-G4	182	42634	B5-U0-G4	181
		T5M	40892	B5-U0-G4	174	42568	B5-U0-G4	181	42480	B5-U0-G4	181
		T5W	39426	B5-U0-G5	168	41042	B5-U0-G5	175	40956	B5-U0-G5	174
		AFR	41264	B4-U0-G4	176	42956	B4-U0-G4	183	42866	B4-U0-G4	182
		LCL	19710	B2-U0-G3	84	20518	B2-U0-G3	87	20475	B2-U0-G3	87
		LCR	19326	B2-U0-G3	82	20118	B2-U0-G3	86	20077	B2-U0-G3	85
		BLC	27947	B1-U0-G4	119	29092	B1-U0-G4	124	29032	B1-U0-G4	124
46L	269	T2M	45471	B4-U0-G4	169	47335	B4-U0-G5	176	47237	B4-U0-G5	176
		T3M	44750	B4-U0-G5	166	46585	B4-U0-G5	173	46488	B4-U0-G5	173
		T4M	44167	B4-U0-G5	164	45978	B4-U0-G5	171	45882	B4-U0-G5	171
		T4W	43957	B4-U0-G5	163	45759	B4-U0-G5	170	45664	B4-U0-G5	170
		T5N	46966	B5-U0-G4	175	48891	B5-U0-G4	182	48789	B5-U0-G4	181
		T5M	46796	B5-U0-G4	174	48714	B5-U0-G4	181	48612	B5-U0-G4	181
		T5W	45117	B5-U0-G5	168	46967	B5-U0-G5	175	46869	B5-U0-G5	174
		AFR	47222	B4-U0-G4	176	49157	B4-U0-G4	183	49055	B4-U0-G4	182
		LCL	22555	B3-U0-G3	84	23480	B3-U0-G3	87	23431	B3-U0-G3	87
		LCR	22116	B2-U0-G3	82	23023	B2-U0-G4	86	22975	B2-U0-G4	85
		BLC	31981	B2-U0-G5	119	33292	B2-U0-G5	124	33223	B2-U0-G5	124
52L	308	T2M	51151	B4-U0-G5	166	53248	B5-U0-G5	173	53137	B5-U0-G5	173
		T3M	50340	B4-U0-G5	163	52404	B4-U0-G5	170	52295	B4-U0-G5	170
		T4M	49684	B4-U0-G5	161	51721	B4-U0-G5	168	51613	B4-U0-G5	168
		T4W	49448	B4-U0-G5	161	51475	B4-U0-G5	167	51368	B4-U0-G5	167
		T5N	52833	B5-U0-G4	172	54998	B5-U0-G4	179	54884	B5-U0-G4	178
		T5M	52641	B5-U0-G4	171	54799	B5-U0-G5	178	54684	B5-U0-G5	178
		T5W	50753	B5-U0-G5	165	52834	B5-U0-G5	172	52724	B5-U0-G5	171
		AFR	53120	B5-U0-G4	173	55298	B5-U0-G5	180	55182	B5-U0-G5	179
		LCL	25373	B3-U0-G4	82	26413	B3-U0-G4	86	26358	B3-U0-G4	86
		LCR	24879	B2-U0-G4	81	25899	B2-U0-G4	84	25845	B2-U0-G4	84
		BLC	35976	B2-U0-G5	117	37451	B2-U0-G5	122	37373	B2-U0-G5	121

OPF-L OptiForm large

Site & area luminaire

OPF-L Area Optic Lumen Values (continued)

Lumen Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
60L	388	T2M	61876	B5-U0-G5	160	64412	B5-U0-G5	166	64278	B5-U0-G5	166
		T3M	60894	B4-U0-G5	157	63391	B4-U0-G5	163	63258	B4-U0-G5	163
		T4M	60101	B4-U0-G5	155	62564	B4-U0-G5	161	62434	B4-U0-G5	161
		T4W	59815	B4-U0-G5	154	62267	B4-U0-G5	161	62137	B4-U0-G5	160
		T5N	63909	B5-U0-G5	165	66529	B5-U0-G5	172	66390	B5-U0-G5	171
		T5M	63677	B5-U0-G5	164	66288	B5-U0-G5	171	66149	B5-U0-G5	171
		T5W	61394	B5-U0-G5	158	63911	B5-U0-G5	165	63777	B5-U0-G5	164
		AFR	64257	B5-U0-G5	166	66891	B5-U0-G5	172	66752	B5-U0-G5	172
		LCL	30693	B3-U0-G4	79	31951	B3-U0-G4	82	31884	B3-U0-G4	82
		LCR	30095	B2-U0-G4	78	31329	B3-U0-G4	81	31263	B3-U0-G4	81
		BLC	43519	B2-U0-G5	112	45303	B2-U0-G5	117	45208	B2-U0-G5	117
70L	457	T2M	71560	B5-U0-G5	157	74494	B5-U0-G5	163	74338	B5-U0-G5	163
		T3M	70426	B5-U0-G5	154	73313	B5-U0-G5	160	73160	B5-U0-G5	160
		T4M	69507	B5-U0-G5	152	72357	B5-U0-G5	158	72206	B5-U0-G5	158
		T4W	69177	B4-U0-G5	151	72013	B4-U0-G5	158	71863	B4-U0-G5	157
		T5N	73912	B5-U0-G5	162	76942	B5-U0-G5	168	76782	B5-U0-G5	168
		T5M	73644	B5-U0-G5	161	76663	B5-U0-G5	168	76503	B5-U0-G5	167
		T5W	71003	B5-U0-G5	155	73914	B5-U0-G5	162	73760	B5-U0-G5	161
		AFR	74315	B5-U0-G5	163	77361	B5-U0-G5	169	77200	B5-U0-G5	169
		LCL	35496	B3-U0-G4	78	36952	B3-U0-G4	81	36875	B3-U0-G4	81
		LCR	34805	B3-U0-G4	76	36232	B3-U0-G5	79	36157	B3-U0-G5	79
		BLC	50331	B2-U0-G5	110	52394	B2-U0-G5	115	52284	B2-U0-G5	114
80L	532	T2M	80099	B5-U0-G5	151	83383	B5-U0-G5	157	83209	B5-U0-G5	156
		T3M	78829	B5-U0-G5	148	82060	B5-U0-G5	154	81889	B5-U0-G5	154
		T4M	77801	B5-U0-G5	146	80991	B5-U0-G5	152	80822	B5-U0-G5	152
		T4W	77432	B5-U0-G5	146	80606	B5-U0-G5	152	80438	B5-U0-G5	151
		T5N	82732	B5-U0-G5	156	86123	B5-U0-G5	162	85943	B5-U0-G5	162
		T5M	82431	B5-U0-G5	155	85811	B5-U0-G5	161	85632	B5-U0-G5	161
		T5W	79475	B5-U0-G5	149	82733	B5-U0-G5	156	82561	B5-U0-G5	155
		AFR	83182	B5-U0-G5	156	86592	B5-U0-G5	163	86411	B5-U0-G5	162
		LCL	39732	B3-U0-G5	75	41361	B3-U0-G5	78	41274	B3-U0-G5	78
		LCR	38958	B3-U0-G5	73	40555	B3-U0-G5	76	40471	B3-U0-G5	76
		BLC	56336	B2-U0-G5	106	58645	B2-U0-G5	110	58523	B2-U0-G5	110

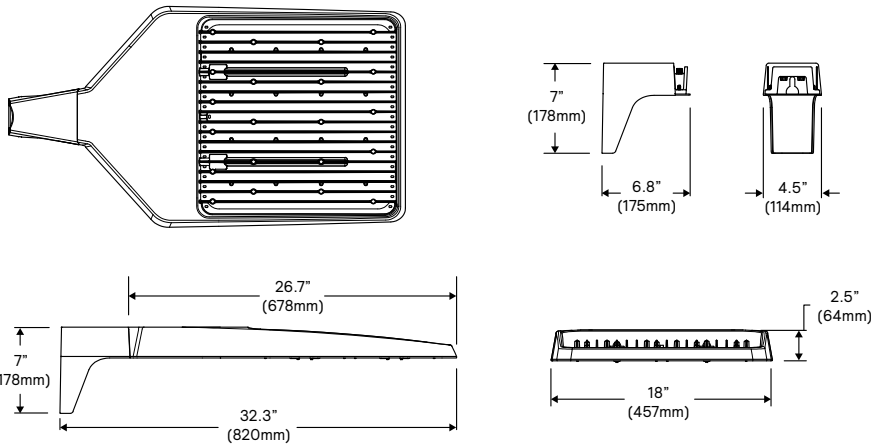
OPF-L OptiForm large

Site & area luminaire

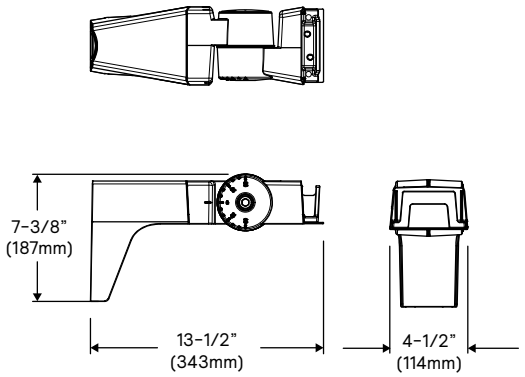
Dimensions

OptiForm Standard Arm

Weight: 25 lb (11.3 kg)
EPA: 0.15 ft² (0.014 m²)

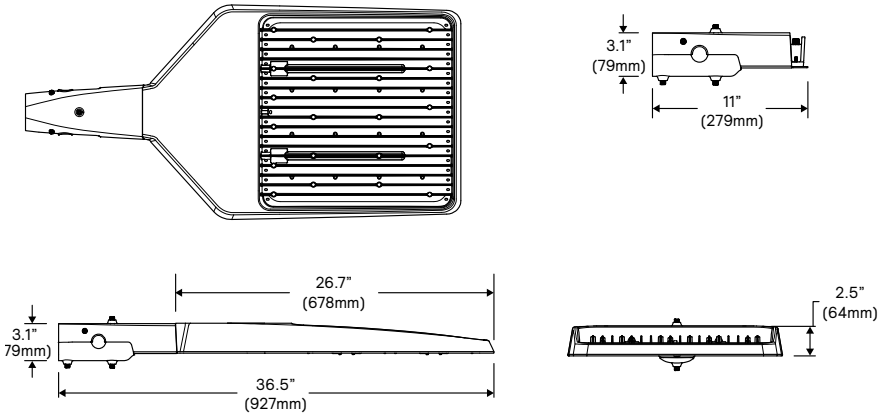


OptiForm Adjustable Arm Mount

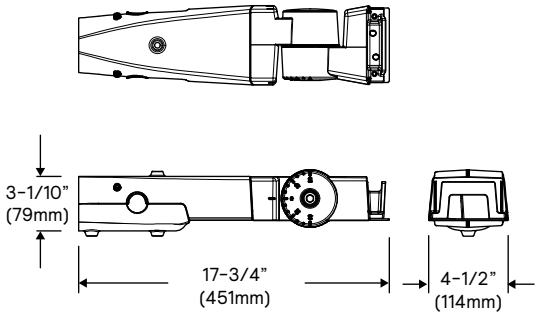


OptiForm Mast Arm

Weight: 26.6 lb (12.1 kg)

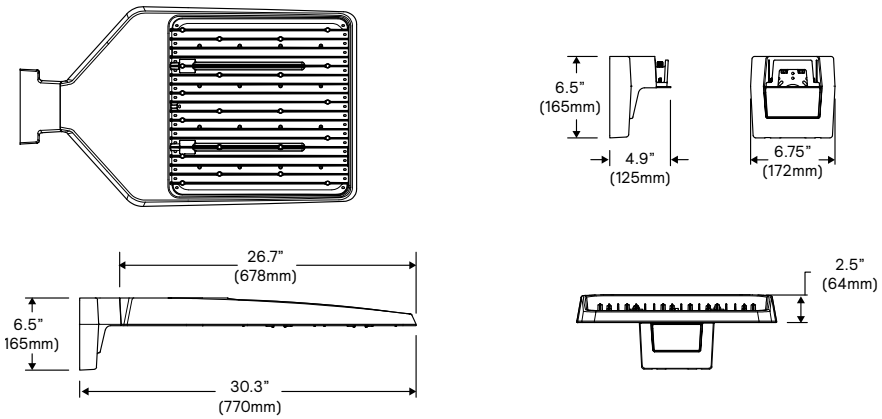


OptiForm Adjustable Mast Arm



OptiForm Wall Mount

Weight: 25.5lb (11.6 kg)



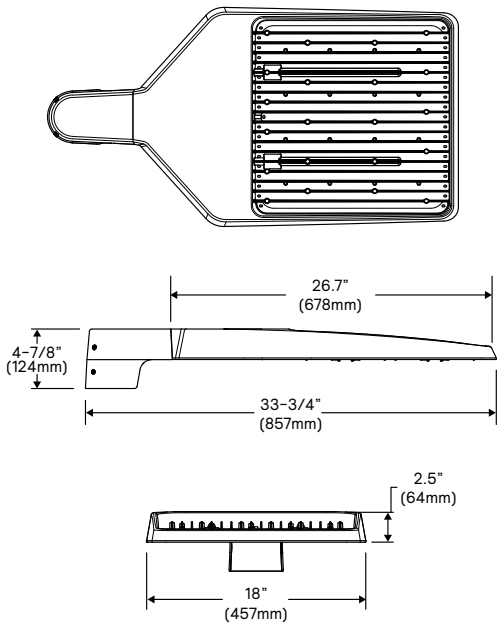
OPF-L OptiForm large

Site & area luminaire

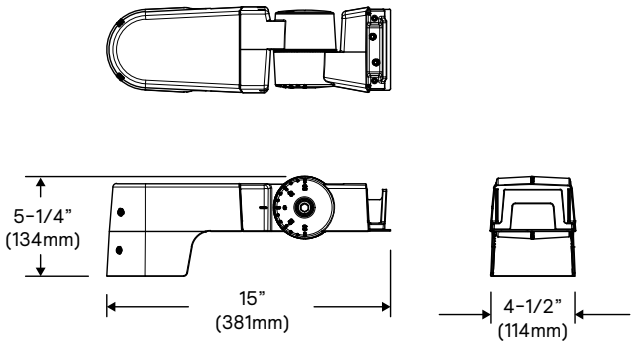
Dimensions

OptiForm Post Top

Weight: 25.5 lb (11.56 kg)

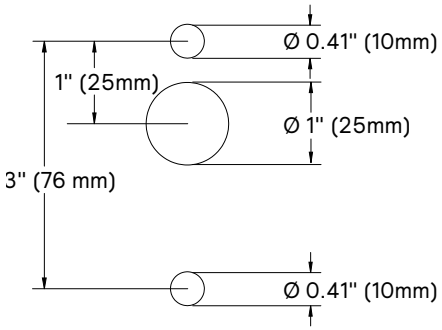


OptiForm Adjustable Post Top

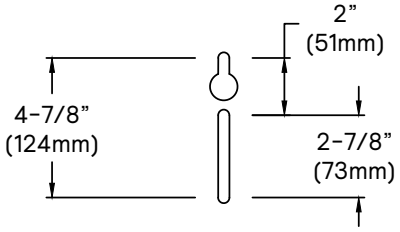


Standard Drill Pattern

Drill Template #5



Standard Arm Mounting Hole Pattern



OPF-L OptiForm large

Site & area luminaire

Specifications

Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detatchable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1. OptiForm carries and 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.

Light engine

Sealed high-performance LED light engine with scalable modules

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

Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory.

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

Energy saving benefits

System efficacy up to 192 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2M, 3M, 4M, 4W, 5, 5M, 5W, AFR, LCL, LCR, and BLC distributions available. Internal shield option mounts to LED optics and is available with Type 2M, 3M, and 4M distributions, including a dedicated BLC and L/R Corner optics to provide the best backlight control possible for stringent requirements around property lines. Types 2M, 3M, and 4M when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accomodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount 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 dimming 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.

34L Configuration

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%

40L, 46L, 52L, 60L Configurations

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	12%	6	59%
2	24%	7	68%
3	32%	8	76%
4	44%	9	83%
5	51%	10	100%

70L, 80L Configurations

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	15%	6	59%
2	29%	7	64%
3	36%	8	70%
4	47%	9	74%
5	52%	10	100%

Note: Typical value accuracy +/- 5%

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

OPF-L OptiForm large

Site & area luminaire

Specifications (continued)

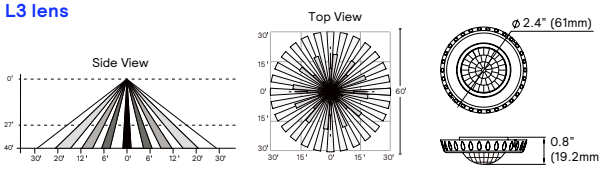
Motion response options

Bi-Level Infrared Motion Response (BL50): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL50 is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

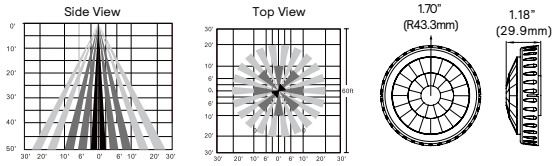
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (BL50-L3/BL50-L7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (L3) is designed for higher mounting heights up to 20' with a 40' diameter coverage area. Lens #7 (L7) is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

L3 lens



L7 lens

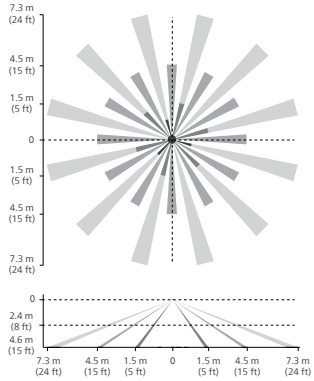


Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling and BMS integration. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. The App provides flexibility to choose between a standalone or gateway mode. Setup with the gateway requires wired Internet access to the gateway. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming - activated via the Interact App. Sensors IP66 rated.

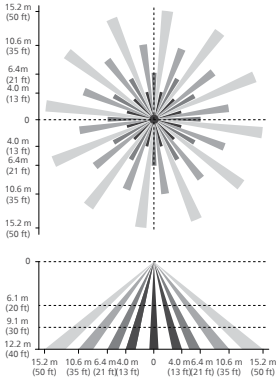
For more information on Interact Pro visit:

www.interact-lighting.com/interactproscalablesystem

LB or LW low sensor



HB or HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

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 OPF-TSC Accessory). Dimming Receptacle (7-pin) in accordance to ANSI C136.41. can be used with third-party control system. Receptacle located on top of luminaire arm. 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.

Driver: High power factor of 90% min. 120-480V available (restrictions apply). Open/short circuit protection. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class I or 2, THD of 20% max.

All drivers are 0-10V dimming to 10% power standard, except when using D4i drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30,D4iD,ZD4i and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (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). CCTs 3000K and warmer are Dark Sky Compliant.

OPF-L OptiForm large

Site & area luminaire

Specifications (continued)

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 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 what stage of the luminaire's lifetime. Just download the App and register your product right away. For more details visit: signify.com/servicetag

Warranty

OptiForm luminaires feature a 5-year limited warranty
See signify.com/warranties for complete details and exclusions.

© 2026 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

GENLYTE SOLUTIONS
a Signify business

Signify North America Corp.
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone: 800-555-0050

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone: 800-668-9008

All trademarks are owned by Signify Holding or their respective owners.