

DIRECTLED – IL-MAL05 Series

FEATURES & SPECIFICATIONS SHEET

Construction:

- Rugged one-piece, die-cast aluminum housing secures the thermally conductive LED panel and electrical chamber
- Low profile, 3G vibration rated compact design minimizes wind load requirements.
- Housing is completely sealed against moisture and environmental contaminants (IP65).

Optics:

- Available in IES Type III, IV, V distributions
- Light engines are available in standard 4000 K and 5000 K (70 CRI) configurations.
- Scalable Lumen Packages from 5,360 to 41,700 Lumens replaces up to 1000W Metal Halide.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
- For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed.
- The optics can conform to dark sky requirement.

Electrical:

- Universal 120-277 VAC or 347-480 VAC input voltage
- Standard with 0-10V dimming driver(s)
- THD: ≤20%
- Power Factor: ≥90%

Controls:

- Optional occupancy sensor
- Optional Photocell

Ambient Temperature:

- Ambient operating temperature -40° C to 45° C (-40 °F to 113 °F).

Installation:

- Suitable for mounting heights ranging from 26-40' in area lighting applications
- Round pole, Square pole, slipfitter and wall mount are available
- The design can be operated by one person to install the whole lamp

Lifespan:

- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Finish:

- It's available in black or optional dark bronze, silvery gray or white.



Small Size: 100W



Medium Size: 150W/180W



Large Size: 250W/300W



Warranty:

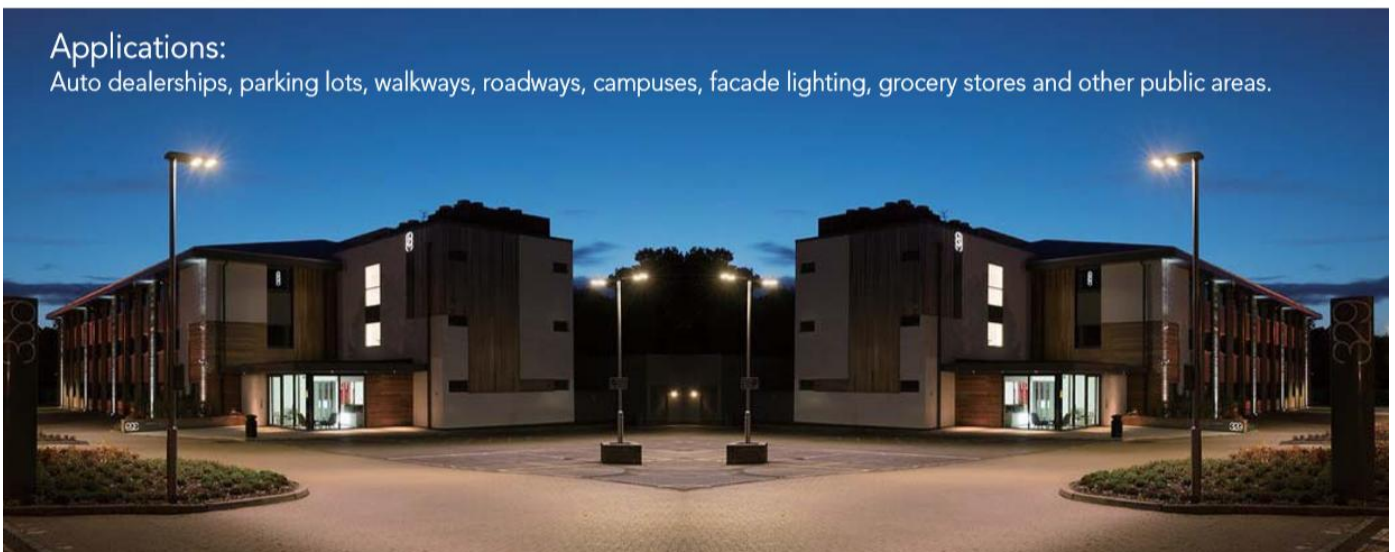
ILF Inc warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Note:

Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C (±5°C) specifications subject to change without notice.

Applications:

Auto dealerships, parking lots, walkways, roadways, campuses, facade lighting, grocery stores and other public areas.










PERFORMANCE DATA			4000k (70CRI)		5000k (70CRI)	
SYSTEM WATTS	VOLTAGE	DIST.TYPE	LUMENS	LPW	LUMENS	LPW
100W	120-277V/347-480V	3	14100lm	141 lm/W	14100lm	141 lm/W
	120-277V/347-480V	4	14000lm	140 lm/W	13900lm	139 lm/W
	120-277V/347-480V	5	14200lm	142 lm/W	14200lm	142 lm/W
150W	120-277V/347-480V	3	21000lm	140 lm/W	21000lm	140 lm/W
	120-277V/347-480V	4	20500lm	137 lm/W	20500lm	137 lm/W
	120-277V/347-480V	5	21000lm	140 lm/W	21000lm	140 lm/W
180W	120-277V/347-480V	3	25000lm	139 lm/W	25000lm	139 lm/W
	120-277V/347-480V	4	25000lm	139 lm/W	25000lm	139 lm/W
	120-277V/347-480V	5	26000lm	144 lm/W	26000lm	144 lm/W
250W	120-277V/347-480V	3	35000lm	140 lm/W	35000lm	140 lm/W
	120-277V/347-480V	4	35000lm	140 lm/W	35000lm	140 lm/W
	120-277V/347-480V	5	36000lm	144 lm/W	35000lm	140 lm/W
300W	120-277V/347-480V	3	42000lm	140 lm/W	42000lm	140 lm/W
	120-277V/347-480V	4	41000lm	137 lm/W	41000lm	137 lm/W
	120-277V/347-480V	5	42000lm	140 lm/W	42000lm	140 lm/W

ELECTRICAL DATA

# Drivers	Driver Current (MA)	Nominal Power (W)	Input Voltage (V)	Current (Amps)
1	850	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
		100	347	0.29
		100	480	0.21
1	1200	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	960	180	120	1.50
		180	208	0.87
		180	240	0.75
		180	277	0.65
		180	347	0.52
		180	480	0.38
1	1200	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
1	1500	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		300	347	0.86
		300	480	0.63

EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2 @180°	3 @90°	3 @120°	4 @90°
100W	0.2751	0.5267	0.7321	0.6164	0.9577	0.9837	0.9577
150W/180W	0.3111	0.6343	0.6464	0.6222	0.9335	0.9696	0.9335
250W/300W	0.4097	0.7227	0.9919	0.8856	1.1986	1.3049	1.1986

MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Optional for cast aluminum slipfitter mounting adapter (Compatible with more EUSA mounting adapters such as Tenon, suitable for various applications)

Mounting Options



Arm Mount
(4" and 5" Square and Round poles)
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.



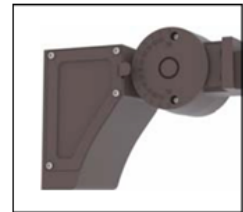
Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2-3/8" O.D. horizontal steel tenon arm.



Wall Mount
Wall Mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-box mounting

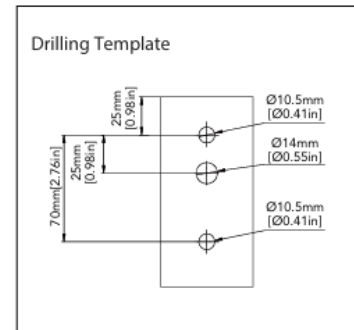
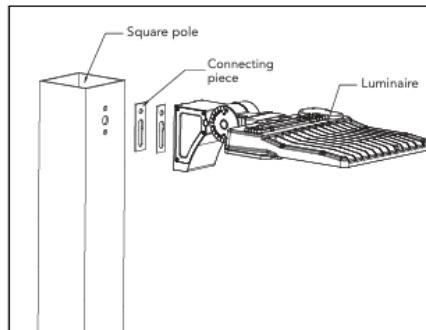
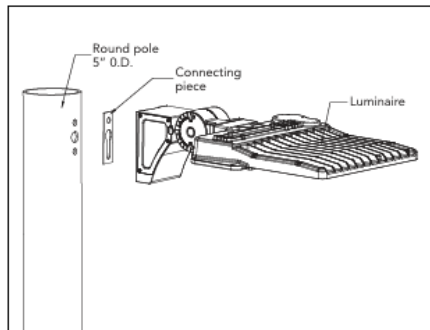


Yoke Mount
Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.



Adjustable Arm Mount
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

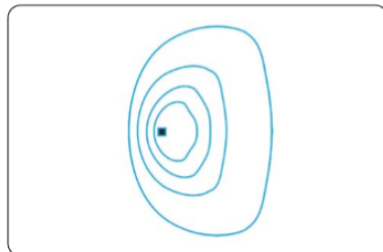
Mounting Dimensions



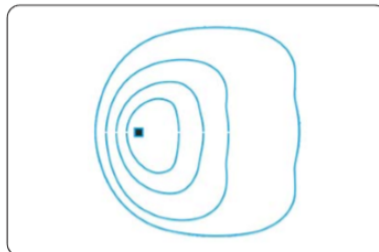
PHOTOMETRICS

Eco Lighting USA offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility matching light distribution patterns to specific site requirements.

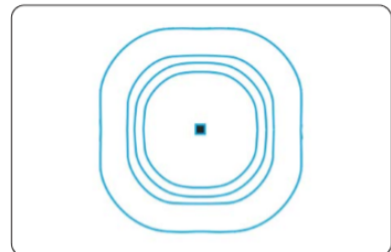
Type 3:
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.



Type 4:
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

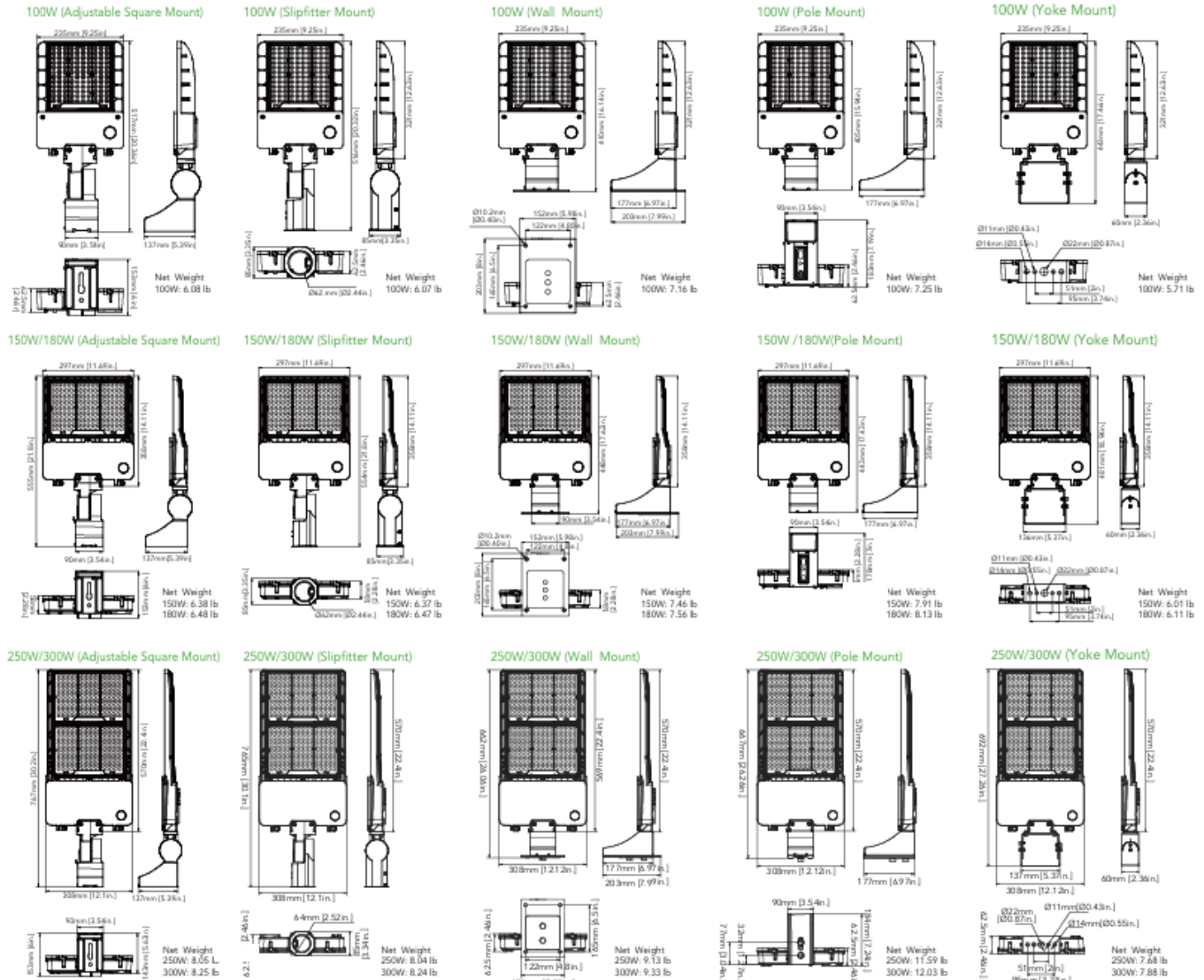


Type 5:
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications



DIMENSION

unit: inch/mm



ORDERING GUIDE

Example: IL-MAL05 100W 27V XXK Y Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry	Surge Protection (Option)
IL-MAL05 Area Light Series	100 100W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	D Dark Bronze B Black W White SG Silver Gray	P0 120-277V Photocell P3 347V Photocell P4 480V Photocell Blank Without Photocell	M With Sensor Blank Without Sensor	SQ Square Pole Mount SP Slipfitter Mount WM Wall Mount YK Yoke Mount SQA Adjustable Square Mount	T3 TYPE III Photometry T4 TYPE IV Photometry T5 TYPE V Photometry	S Surge protection (Blank) No Surge protection

Example: IL-MAL05 150W 27V XXK Y Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry
IL-MAL05 Area Light Series	150 150W 180 180W 250 250W 300 300W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	D Dark Bronze B Black W White SG Silver Gray	P0 120-277V Photocell P3 347V Photocell P4 480V Photocell Blank Without Photocell	M With Sensor Blank Without Sensor	SQ Square Pole Mount SP Slipfitter Mount WM Wall Mount YK Yoke Mount SQA Adjustable Square Mount	T3 TYPE III Photometry T4 TYPE IV Photometry T5 TYPE V Photometry