AREA LIGHT(MAL05)

Specifications

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.

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 13,900 to 42,000 Lumens replaces up to 1000W Metal Halide.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
- The optics can conform to dark sky requirement.
- For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed.

Electrical:

- Universal 120-277 VAC or 347-480 VAC input voltage
- Standard with 0-10V dimming driver for 10% to 100% dimming capabilities.
- Wattage selectable (Option): 100%, 80%, 60%, 40%.
- THD: ≤20%
- Power Factor: ≥90%

Controls:

- Optional Occupancy sensor or Microwave sensor or daylight sensor.
- Optional Bluetooth sensor or Bluetooth controller.
- Silvair Luminaire Level Lighting Control (LLLC) optional.
- Sharkward Luminaire Level Lighting Control (LLLC) optional.
- Also compatible with 3rd party smart network control system.
- Optional NEMA 3-pin photocell or 7-pin photocell.

Ambient Temperature:

- Ambient operating temperature -40° C to 40° C (-40 $^{\rm F}$ to 104 $^{\rm F}$).

Installation:

- Suitable for mounting heights ranging from 26-50' in area lighting applications
- Round pole, Square pole, slipfitter, wall mount and yoke 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.





Medium Size: 150W/180W



Large Size: 250W/300W

😢 Bluetooth



Certifications:

- DesignLights Consortium™ Qualified.
- UL cUL wet location listed.
- Note: DesignLights Consortium™ Qualified and classified for DLC Premium (all lumen packages),refer to www.designlights.org for details.

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 $25\degree$ ($\pm5\degree$) specifications subject to change without notice.

Applications:

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



Small Size: 100W

PERFORMANCE DATA		4000K(70CRI)		5000K(70CRI)		
SYSTEM WATTS	VOLTAGE	DIST.TYPE	LUMENS	LPW	LUMENS	LPW
	120-277V/347-480V	3	14100lm	141 lm/W	14100lm	141 lm/W
100W	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
	120-277V/347-480V	3	21000lm	140 lm/W	21000lm	140 lm/W
150W	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
	120-277V/347-480V	3	25000lm	139 lm/W	25000lm	139 lm/W
180W	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
	120-277V/347-480V	3	35000lm	140 lm/W	35000lm	140 lm/W
250W	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
	120-277V/347-480V	3	42000lm	140 lm/W	42000lm	140 lm/W
300W	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

Number	Driver Current	Nominal Power	INPUT VOLTAGE	CURRENT
Of Drivers	(mA)	(VV)	(V)	(Amps)
		100	120	0.83
		100	208	0.48
		100	240	0.42
1	850	100	277	0.36
		100	347	0.29
		100	480	0.21
		150	120	1.25
		150	208	0.72
1	1200	150	240	0.63
1	1200	150	277	0.54
		150	347	0.43
		150	480	0.31
		180	120	1.50
		180	208	0.87
1	960	180	240	0.75
1	960	180	277	0.65
		180	347	0.52
		180	480	0.38
		250	120	2.08
	1200	250	208	1.20
1		250	240	1.04
1		250	277	0.90
		250	347	0.72
		250	480	0.52
		300	120	2.50
	1500	300	208	1.44
1		300	240	1.25
Ť		300	277	1.08
		300	347	0.86
		300	480	0.63

EPA OF AREA LIGHT

ltem	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

BUG

SYSTEM WATTS	VOLTAGE	DIST.TYPE	В	U	G
		3	2	0	2
100W	120-277V/347-480V	4	3	0	3
		5	4	0	2
		3	3	0	3
150W	120-277V/347-480V	4	3	0	3
		5	4	0	2
		3	3	0	3
180W	120-277V/347-480V	4	3	0	3
		5	4	0	2
		3	4	0	4
250W	120-277V/347-480V	4	4	0	4
		5	5	0	3
		3	4	0	4
300W	120-277V/347-480V	4	4	0	5
		5	5	0	3

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 BBIER mounting adaptors such as Tenon, suits for various application)

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.



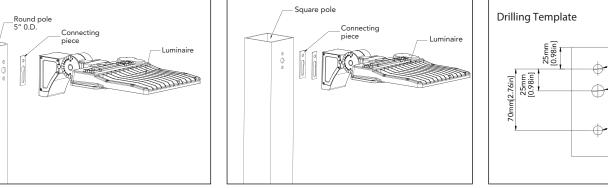
Adjustable Arm Mount Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

Ø10.5mm [Ø0.41in]

Ø14mm [Ø0.55in]

Ø10.5mm [Ø0.41in]

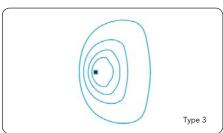
Mounting Dimensions



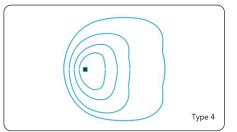
PHOTOMETRICS

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

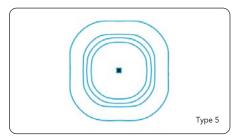
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.



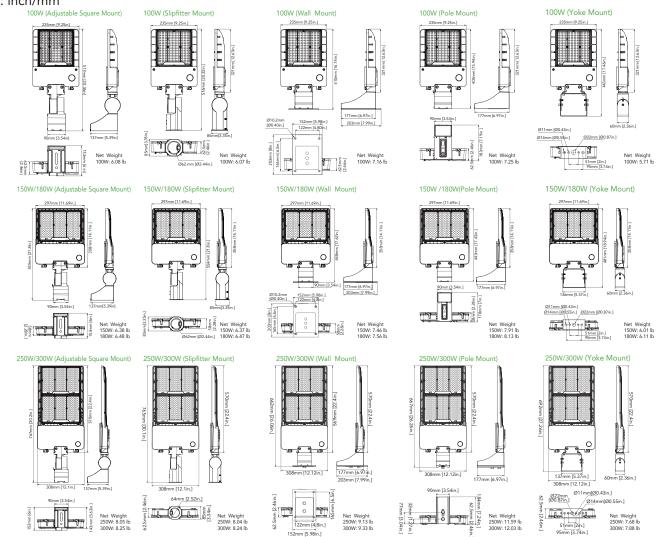
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.



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

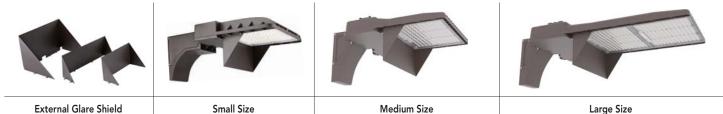


DIMENSION unit: inch/mm



EXTERNAL SHIELDS

AL05 series features a backlight control which provides reduced pixilation and increased visual comfort without compromising performance. External Glare Shield: sold separately or as an accessory.



ORDERING GUIDE Example: MAL05100W 27V XXK Y Y Y Y Y Y Fixture Type Wattage Voltage Mounting ССТ Finish Photocell (Option) Sensor (Option) Surge Protection (Option) MAL05 27V 120-277V 120-277V Photocell SQ Square Pole Mount T3 TYPE III Photometry 100 100W 40K 4000K D Dark Bronze M With Sensor P0 Surge protection 48V 347-480V T4 TYPE IV Photometry Area Light Series 50K 5000K B Black P3 347V Photocell SP Slipfitter Mount Blank Without Sensor (Blank) No Surge protection W White P4 480V Photocell WM Wall Mount T5 TYPE V Photometry SG Silver Gray Blank Without Photocel YK Yoke Mount SQA Adjustable Square Mount Fixture Type Wattage Voltage сст Finish Photocell (Option) Mounting Photometry Sensor (Option) MAL05 150 150W 27V 120-277V **40K** 4000K D Dark Bronze P0 120-277V Photocell M With Sensor T3 TYPE Ⅲ Photometry SQ Square Pole Mount Area Light Series 180 180W 48V 347-480V **50K** 5000K B Black 347V Photocell T4 TYPE IV Photometry P3 Blank Without Sensor SP Slipfitter Mount T5 TYPE V Photometry 250 250W W White P4 480V Photocell WM Wall Mount 300 300W SG Silver Gray Blank Without Photocell YK Yoke Mount SQA Adjustable Square Mount

ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one	e fixture on an existing pole		
O.D: 60mm(2-3/8in.) 102mm(4in.) (urg)uug 2 ⁵¹ /mm (3.56in.)	4" Square Pole Mount with 2-3/8" O.D. Tenon No. 4SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.	O.D: 60mm(2-3/8in.) 100mm(4,24in.) ID: 106mm(4,2in.)	4" Round Pole Mount with 2-3/8" O.D. Tenon NO. 4SQR-SP-D Finish:Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.
O.D: 60mm(2-3/8in.) 127mm(5in.) (a) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.) 127mm(5in.)	5" Square Pole Mount with 2-3/8" O.D. Tenon No. 5SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.	0.D: 60mm(2-3/8in.) 100 00 00 00 00 00 00 00 00 0	5" Round Pole Mount with 2-3/8" O.D. Tenon NO. 5SQR-SP-D Finish:Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.
	Pole Bracket Accessories –Angle-Adjustment Adapter NO. SQA-ALDA Finish: Dark Bronze USE: Durable brackets are engineered to provide versatile mounting options. These arms are made from rugged die-cast aluminum. They allow optimal positioning of the light fixture to maximize the lighting effectiveness vertically and horizontally.	154.5mm(6.1 in.) (************************************	Pole Bracket accessories-Tenon & Yoke Adaptor NO. SP-TR-D Finish: Dark Bronze USE: The 2-3/8" OD Tenon Mount Adaptor for Yoke Fixtures is designed to mount BBIER light fixtures that are equipped with a y oke mount onto a 2-3/8" OD tenon. It may be utilized with the BB IER Flood Light Series of light fixtures.
101mm(3.96in.) 115mm(5.56in.) 	Horizontal Wall or Square or Round pole mount with 2-3/8" Tenon Bracket NO. SQ/R-SP-D Finish: Dark Bronze USE: This tenon bracket can be installed onto a wall, square pole, round pole. Provides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting.		
WALL BRACKET • Attaches to an • Provides wirin	v flat surface	Mid-Pole tenon Bracket	
WALL BRACKET • Attaches to an • Provides wirin O.D. 60mm(2-3/8in)	v flat surface	Mid-Pole tenon Bracket	2-3/8" OD Horizontal Tenon Mid-Pole Bracket NO. SQ-SP-D Finish:Dark Bronze USE:2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter onto a 2-3/8" OD horizontal tenon
O.D: 60mm(2-3/8in.)	y flat surface g access 90° Wall Mount Bracket with 2-3/8" O.D. Tenon NO. WM-SP-D Finish: Dark Bronze USE: The 90' wall mount bracket with 2-3/8" tenon attaches an BBIER floodlight to almost any surface: wall, roof, or wood pole. Pr ovides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fix ture with our adjustable slipfitter. Suggested 3/8" diameter bolts fo	185mm(7.28in.) 100mm(7.1 in.) 100mm(7.1 in.)	NO. SQ-SP-D Finish:Dark Bronze USE:2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter
O.D: 60mm(2-3/8in.)	y flat surface g access 90° Wall Mount Bracket with 2-3/8" O.D. Tenon NO. WM-SP-D Finish: Dark Bronze USE: The 90' wall mount bracket with 2-3/8" tenon attaches an BBIER floodlight to almost any surface: wall, roof, or wood pole. Pr ovides wiring access and abuilti-12-3/8" O.D. tenon to mount a fix ture with our adjustable slipfitter. Suggested 3/8" diameter bolts fo r mounting. Mounting holes are spaced 3-1/4" apart.	185mm(7.28in.) 100mm(7.1 in.) 100mm(7.1 in.)	NO. SQ-SP-D Finish:Dark Bronze USE:2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter
C.D.: 60mm(2:3/8in) O.D.: 60mm(2:3/8in)	y flat surface g access 90° Wall Mount Bracket with 2-3/8" O.D. Tenon NO. WM-SP-D Finish: Dark Bronze USE: The 90° wall mount bracket with 2-3/8" tenon attaches an BBIER floodlight to almost any surface: wall, roof, or wood pole. Pr ovides wining access and abuilt-in 2-3/8" O.D. tenon to mount a fix ture with our adjustable slipfitter. Suggested 3/8" diameter bolts fo r mounting. Mounting holes are spaced 3/8" diameter bolts fo r mounting. Mounting holes are spaced 3-1/4" apart. tal Tenon • To mount 2/3/4 fixtures on a existing p Double 90' Horizontal Tenon Adaptor NO. R60-SP2-90-D Finish:Dark Bronze USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External	185mm(7.28m.) 100mm(7.1 h) 00:60mm(7.28m.) 00:60mm(7.28m.) 00:60mm(7.28m.) 00:60mm(7.28m.) 00:60mm(7.28m.) 100mm(7.1 h) 100mm(7.1 h) 100mm(7.28m.) 100mm(7.25m.)	NO. SQ-SP-D Finish:Dark Bronze USE:23/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter onto a 2-3/8" OD horizontal tenon Triple 120' Horizontal Tenon Adaptor NO. R60-SP3-120-D Finish:Dark Bronze USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External