

PROJECT NAME: \_\_\_\_\_

CATALOG #: \_\_\_\_\_

NOTES: \_\_\_\_\_

DATE: \_\_\_\_\_

## BLS-ARLM AREA LIGHT

### SPECIFICATIONS FEATURES

#### Construction:

- The rugged, one-piece die-cast aluminum housing features a complete heat sink that optimizes heat dissipation through convection cooling management
- 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 II, III, IV, V distributions
- Light engines are available in adjustable color temperature (3000K, 4000K, & 5000K)
- Scalable Lumen Packages from 6,600 to 45,000 Lumens replaces up to 1000W Metal Halide
- The optics can conform to dark sky requirement

#### Electrical:

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

#### Controls:

- Optional Occupancy sensor or Microwave sensor
- Optional Bluetooth sensor or Bluetooth controller
- Optional NEMA 3-pin photocell or 7-pin photocell

#### Ambient Temperature:

- Ambient operating temperature -40°C to 40°C (-40°F to 104°F)

#### Installation:

- Suitable for mounting heights ranging from 26-50'
- 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:

- Available in dark bronze or custom color

#### Certification:

- UL wet location listed
- DesignLights Consortium™ Qualified. DesignLights Consortium™ Qualified and classified for DLC Premium, refer to [www.designlights.org](http://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°C(±5°C) specifications subject to change without notice.*



Medium Size: 100W/140W/180W



Large Size: 300W/400W

### STRUCTURAL DESIGN

#### Housing

The one-piece die-cast housing with corrosion-resistant coating protection and the modular design extend the life of the luminaire while making it easy to maintain.

#### Photocell

Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell.



#### CCT & Power Adjustable

Offer four selectable lumen output (40%/60%/80%/100%), and three selectable CCTs (30K/40K/50K)



#### Adjustable Arm Mount

The Enhanced Up and Down Adjustable Pole Mount is designed to fit perfectly onto 4-inch and 5-inch round or square poles. Various mountings are available for different applications.

#### Photometry

Optional Type II, III, IV and V Photometry as per applications.

#### Occupancy Sensor

Optional occupancy sensor allows for security and energy saving.

## ORDERING GUIDE

SAMPLE: BLS-ARLM-140-1-DDK-D-PC1-OC1-AM-T3-AD



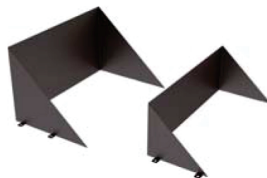
MODEL	WATTAGE	VOLTAGE	CCT	FINISH	PHOTOCELL	SENSOR	MOUNTING	DISTRIBUTION	CCT & POWER ADJUSTABLE
<b>BLS-ARLM</b>	<b>100</b> 100, 80, 60, 40	1 120-277V	<b>DDK</b> <sup>1</sup> Adjustable Color Temperature	<b>D</b> Dark Bronze	<b>PC1</b> 3 Pin 120V-227V	<b>OC1</b> 120V-227V	<b>AM</b> Arm Mount Square/Round	<b>T2</b> Type II	<b>AD</b> <sup>1</sup> Adjustable Dial
	<b>140</b> 140, 120, 90, 60								
	<b>180</b> 180, 144, 108, 72								
	<b>300</b> 300, 240, 180, 120								
	<b>400</b> 400, 320, 240, 160								
				<b>CC</b> Custom Color	<b>PC2</b> 3 Pin 347V	<b>OC2</b> 120V-480V	<b>SF</b> Slipfitter	<b>T3</b> Type III	
					<b>PC3</b> 3 Pin 480V	<b>BLANK</b> Without Sensor	<b>WM</b> Wall Mount	<b>T4</b> Type IV	
					<b>PC4</b> 7 Pin 120V-227V		<b>YM</b> Yoke Mount	<b>T5</b> Type V	
					<b>BLANK</b> Without Photocell		<b>AAM</b> Adjustable Arm Mount		

Note:

1. 400 is only 4000K, 5000K adjustable, other wattages are 3000K, 4000K and 5000K adjustable.

## OPTIONAL ACCESSORIES

BLS-ARLM 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.



33-00150 Large External Glare Shield  
33-00151 Medium External Glare Shield



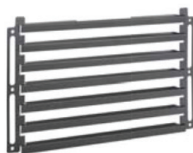
33-00152 Large Glare Visor  
33-00153 Medium Glare Visor



**120-277V PIR Sensor**  
PIR sensor  
Bluetooth PIR sensor



**NEMA Photocell**  
3 pin NEMA Type  
3 pin NEMA Type(480V)  
7 pin NEMA Type



Back Light Control Shield

## PERFORMANCE DATA

100W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	100W	2	70	14500lm	145 lm/W	15800lm	158 lm/W	15000lm	150 lm/W
		3	70	14500lm	145 lm/W	15800lm	158 lm/W	15000lm	150 lm/W
		4	70	14500lm	145 lm/W	15800lm	158 lm/W	15000lm	150 lm/W
		5	70	15100lm	151 lm/W	16000lm	160 lm/W	15600lm	156 lm/W
80%	80W	2	70	12000lm	150 lm/W	13000lm	163 lm/W	12500lm	156 lm/W
		3	70	12000lm	150 lm/W	13000lm	163 lm/W	12500lm	156 lm/W
		4	70	12000lm	150 lm/W	13000lm	163 lm/W	12500lm	156 lm/W
		5	70	12500lm	156 lm/W	13300lm	166 lm/W	12800lm	160 lm/W
60%	60W	2	70	9300lm	155 lm/W	10000lm	167 lm/W	9600lm	160 lm/W
		3	70	9300lm	155 lm/W	10000lm	167 lm/W	9600lm	160 lm/W
		4	70	9300lm	155 lm/W	10000lm	167 lm/W	9600lm	160 lm/W
		5	70	9600lm	160 lm/W	10200lm	170 lm/W	9850lm	164 lm/W
40%	40W	2	70	6400lm	160 lm/W	6800lm	170 lm/W	6560lm	164 lm/W
		3	70	6400lm	160 lm/W	6800lm	170 lm/W	6560lm	164 lm/W
		4	70	6400lm	160 lm/W	6800lm	170 lm/W	6560lm	164 lm/W
		5	70	6560lm	164 lm/W	7000lm	175 lm/W	6700lm	168 lm/W

140W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	140W	2	70	20000lm	147 lm/W	23000lm	164 lm/W	21000lm	150 lm/W
		3	70	20000lm	147 lm/W	23000lm	164 lm/W	21000lm	150 lm/W
		4	70	20000lm	147 lm/W	23000lm	164 lm/W	21000lm	150 lm/W
		5	70	21000lm	150 lm/W	23500lm	168 lm/W	21500lm	154 lm/W
80%	120W	2	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
		3	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
		4	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
		5	70	18500lm	154 lm/W	20500lm	171 lm/W	19000lm	158 lm/W
60%	90W	2	70	13800lm	153 lm/W	15200lm	169 lm/W	14200lm	158 lm/W
		3	70	13800lm	153 lm/W	15200lm	169 lm/W	14200lm	158 lm/W
		4	70	13800lm	153 lm/W	15200lm	169 lm/W	14200lm	158 lm/W
		5	70	14000lm	156 lm/W	15600lm	172 lm/W	14500lm	161 lm/W
40%	60W	2	70	9400lm	157 lm/W	10300lm	172 lm/W	9700lm	162 lm/W
		3	70	9400lm	157 lm/W	10300lm	172 lm/W	9700lm	162 lm/W
		4	70	9400lm	157 lm/W	10300lm	172 lm/W	9700lm	162 lm/W
		5	70	9600lm	160 lm/W	10500lm	175 lm/W	10000lm	167 lm/W

180W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	180W	2	70	24800lm	138 lm/W	27000lm	150 lm/W	25200lm	140 lm/W
		3	70	24800lm	138 lm/W	27000lm	150 lm/W	25200lm	140 lm/W
		4	70	24800lm	138 lm/W	27000lm	150 lm/W	25200lm	140 lm/W
		5	70	25500lm	142 lm/W	28000lm	156 lm/W	26000lm	144 lm/W
80%	144W	2	70	20200lm	140 lm/W	22000lm	153 lm/W	20600lm	143 lm/W
		3	70	20200lm	140 lm/W	22000lm	153 lm/W	20600lm	143 lm/W
		4	70	20200lm	140 lm/W	22000lm	153 lm/W	20600lm	143 lm/W
		5	70	20800lm	144 lm/W	22800lm	158 lm/W	21000lm	146 lm/W
60%	108W	2	70	15300lm	142 lm/W	16800lm	156 lm/W	15700lm	145 lm/W
		3	70	15300lm	142 lm/W	16800lm	156 lm/W	15700lm	145 lm/W
		4	70	15300lm	142 lm/W	16800lm	156 lm/W	15700lm	145 lm/W
		5	70	15800lm	146 lm/W	17300lm	160 lm/W	16200lm	150 lm/W
40%	72W	2	70	10500lm	146 lm/W	11500lm	160 lm/W	10800lm	150 lm/W
		3	70	10500lm	146 lm/W	11500lm	160 lm/W	10800lm	150 lm/W
		4	70	10500lm	146 lm/W	11500lm	160 lm/W	10800lm	150 lm/W
		5	70	10800lm	150 lm/W	11800lm	164 lm/W	11000lm	153 lm/W

## PERFORMANCE DATA

300W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	300W	2	70	41000lm	137 lm/W	45000lm	150 lm/W	42000lm	140 lm/W
		3	70	41000lm	137 lm/W	45000lm	150 lm/W	42000lm	140 lm/W
		4	70	41000lm	137 lm/W	45000lm	150 lm/W	42000lm	140 lm/W
		5	70	42500lm	142 lm/W	46000lm	153 lm/W	43500lm	145 lm/W
80%	240W	2	70	33600lm	140 lm/W	37000lm	154 lm/W	34500lm	144 lm/W
		3	70	33600lm	140 lm/W	37000lm	154 lm/W	34500lm	144 lm/W
		4	70	33600lm	140 lm/W	37000lm	154 lm/W	34500lm	144 lm/W
		5	70	34500lm	144 lm/W	38000lm	158 lm/W	35500lm	148 lm/W
60%	180W	2	70	26000lm	144 lm/W	28600lm	159 lm/W	26600lm	148 lm/W
		3	70	26000lm	144 lm/W	28600lm	159 lm/W	26600lm	148 lm/W
		4	70	26000lm	144 lm/W	28600lm	159 lm/W	26600lm	148 lm/W
		5	70	26600lm	148 lm/W	29700lm	165 lm/W	27500lm	153 lm/W
40%	120W	2	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
		3	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
		4	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
		5	70	18500lm	154 lm/W	20800lm	173 lm/W	19000lm	158 lm/W

400W							
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	4000K		5000K	
				LUMENS	LPW	LUMENS	LPW
100%	400W	2	70	60500lm	151 lm/W	60000lm	150 lm/W
		3	70	60500lm	151 lm/W	60000lm	150 lm/W
		4	70	60500lm	151 lm/W	60000lm	150 lm/W
		5	70	61000lm	153 lm/W	60800lm	152 lm/W
80%	320W	2	70	49000lm	153 lm/W	48600lm	152 lm/W
		3	70	49000lm	153 lm/W	48600lm	152 lm/W
		4	70	49000lm	153 lm/W	48600lm	152 lm/W
		5	70	50000lm	156 lm/W	49500lm	155 lm/W
60%	240W	2	70	37600lm	157 lm/W	37200lm	155 lm/W
		3	70	37600lm	157 lm/W	37200lm	155 lm/W
		4	70	37600lm	157 lm/W	37200lm	155 lm/W
		5	70	38500lm	160 lm/W	37600lm	157 lm/W
40%	160W	2	70	26000lm	163 lm/W	25600lm	160 lm/W
		3	70	26000lm	163 lm/W	25600lm	160 lm/W
		4	70	26000lm	163 lm/W	25600lm	160 lm/W
		5	70	26500lm	166 lm/W	26000lm	163 lm/W

## BUG @5000K

SYSTEM WATTS	VOLTAGE	DIST.TYPE	B	U	G
100W	120-277V/347-480V	2	3	0	3
		3	3	0	3
		4	3	0	2
		5	4	0	2
140W	120-277V/347-480V	2	3	0	3
		3	3	0	3
		4	3	0	3
		5	4	0	2
180W	120-277V/347-480V	2	4	0	3
		3	3	0	3
		4	3	0	3
		5	4	0	2
300W	120-277V/347-480V	2	5	0	4
		3	4	0	4
		4	4	0	4
		5	5	0	4
400W	120-277V/347-480V	2	5	0	4
		3	5	0	5
		4	5	0	5
		5	5	0	4

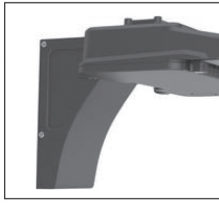
## ELECTRICAL DATA

Number Of 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
	2520	100	347	0.29
		100	480	0.21
1	1200	140	120	1.17
		140	208	0.67
		140	240	0.58
		140	277	0.51
		140	347	0.40
		140	480	0.29
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	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
1	1460	400	120	3.33
		400	208	1.92
		400	240	1.67
		400	277	1.44
		400	347	1.15
		400	480	0.83

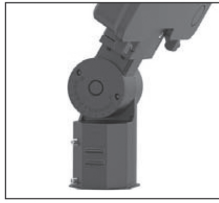
## MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Optional for cast aluminum slipfitter mounting adapter

### 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.



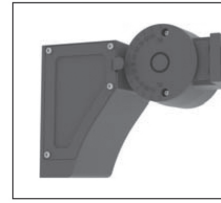
**Slipfitter Mount**  
An optional cast aluminum mast arm adapter secures fixture head to nominal 2-3/8" O.D. horizontal steel tenon arm.



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

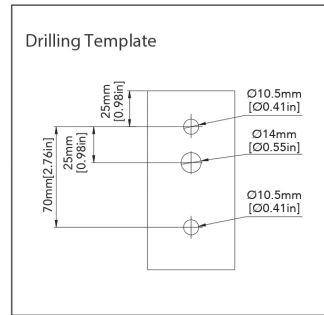
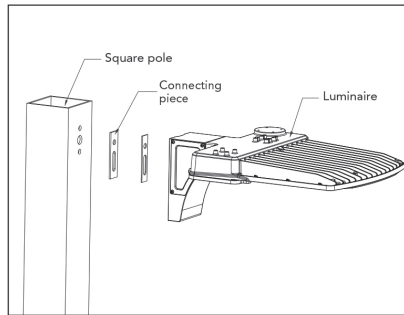
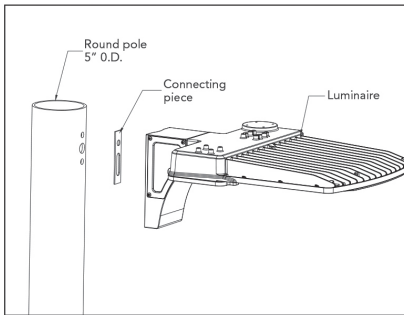


**Yoke Mount**  
Die-cast aluminum trunion is easily adapted to many surfaces and allows easy fixture aiming angles.



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

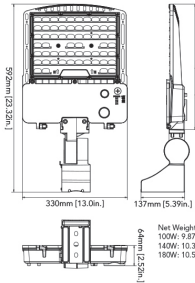
### Mounting Dimensions



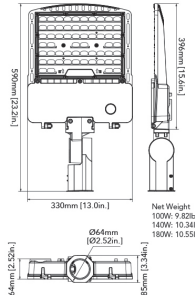
## DIMENSIONS

unit: inch/mm

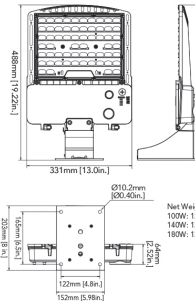
100W/140W/180W  
(Adjustable Square Mount)



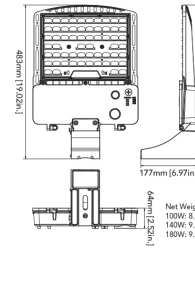
100W/140W/180W  
(Slipfitter Mount)



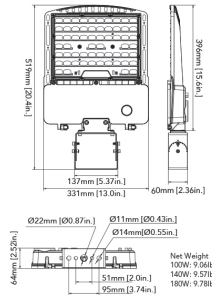
100W/140W/180W  
(Wall Mount)



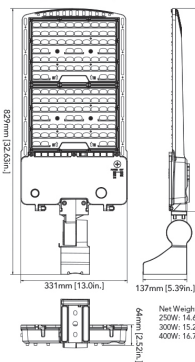
100W/140W/180W  
(Pole Mount)



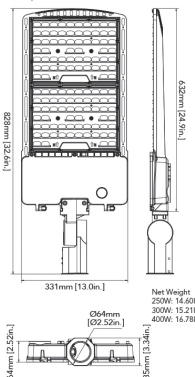
100W/140W/180W  
(Yoke Mount)



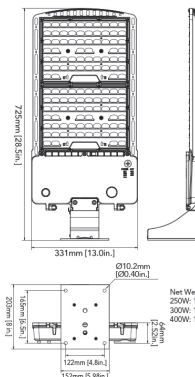
300W/400W  
(Adjustable Square Mount)



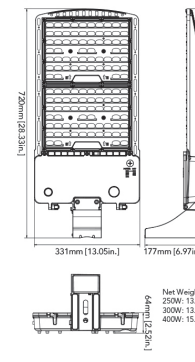
300W/400W  
(Slipfitter Mount)



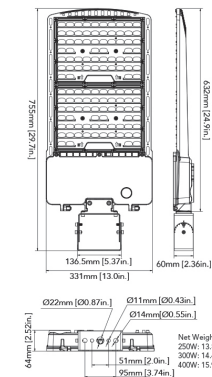
300W/400W  
(Wall Mount)



300W/400W  
(Pole Mount)



300W/400W  
(Yoke Mount)



## PHOTOMETRICS

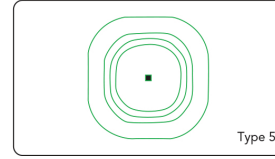
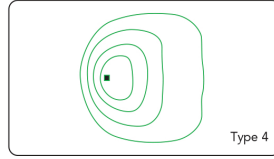
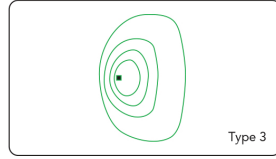
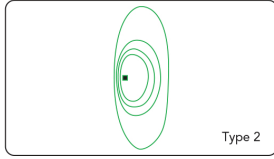
Lumecon offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

Type 2 optics are ideal for applications where there is a need to space the luminaires farther apart along a road or pathway. The light distribution pattern is optimized for elongated areas, allowing for greater pole spacing without sacrificing lighting quality.




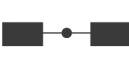
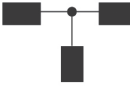
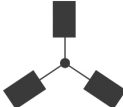

Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.

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



## EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
100W/140W/180W	0.3632	0.6849	0.8861	0.7264	1.0481	1.2078	1.0481
300W/400W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

## ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one fixture on an existing pole			
	<p><b>4" Square Pole Mount with 2-3/8" O.D. Tenon</b>                      NO. M-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.</p>		<p><b>4" Round Pole Mount with 2-3/8" O.D. Tenon</b>                      NO. M-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.</p>
	<p><b>5" Square Pole Mount with 2-3/8" O.D. Tenon</b>                      NO. M-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.</p>		<p><b>5" Round Pole Mount with 2-3/8" O.D. Tenon</b>                      NO. M-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.</p>
	<p><b>Pole Bracket Accessories -Angle-Adjustment Adapter</b>                      NO. M-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.</p>		<p><b>Pole Bracket accessories-Tenon &amp; Yoke Adaptor</b>                      NO. M-SP-TR-D                      Finish: Dark Bronze                      USE: The 2-3/8" OD Tenon Mount Adaptor for Yoke Fixtures is designed to mount light fixtures that are equipped with a yoke mount onto a 2-3/8" OD tenon. It may be utilized with the Baseline Series of light fixtures.</p>
	<p><b>Horizontal Wall or Square or Round pole mount with 2-3/8" Tenon Bracket</b>                      NO. M-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.</p>		
WALL BRACKET • Attaches to any flat surface • Provides wiring access		Mid-Pole tenon Bracket	
	<p><b>90° Wall Mount Bracket with 2-3/8" O.D. Tenon</b>                      NO. M-WM-SP-D                      Finish: Dark Bronze                      USE: The 90° wall mount bracket with 2-3/8" tenon attaches Baseline Series floodlight to almost any surface: wall, roof, or wood 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. Mounting holes are spaced 3-1/4" apart.</p>		<p><b>2-3/8" OD Horizontal Tenon Mid-Pole Bracket</b>                      NO. M-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 an adjustable slipfitter onto a 2-3/8" OD horizontal tenon</p>
Round External Mount Horizontal Tenon • To mount 2/3/4 fixtures on a existing pole			
	<p><b>Double 90° Horizontal Tenon Adaptor</b>                      NO. M-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 Mount Horizontal Tenon and adjusted horizontally</p>		<p><b>Triple 120° Horizontal Tenon Adaptor</b>                      NO. M-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 Mount Horizontal Tenon and adjusted horizontally</p>
	<p><b>Double 180° Horizontal Tenon Adaptor</b>                      NO. M-R60-SP2-180-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 Mount Horizontal Tenon and adjusted horizontally</p>		<p><b>Quad 90° Horizontal Tenon Adaptor</b>                      NO. M-R60-SP4-90-D                      Finish: Dark Bronze                      USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>
	<p><b>Triple 90° Horizontal Tenon Adaptor</b>                      NO. M-R60-SP3-90-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 Mount Horizontal Tenon and adjusted horizontally</p>		