

JAL-M08-CPS SERIES CCT AND POWER SELECTABLE AREA LUMINAIRE

PRODUCT DESCRIPTION

Introducing our cutting-edge **JAL-M08-CPS SERIES** Area Light Fixture, designed to revolutionize your outdoor lighting solutions. This high-performance luminaire combines exceptional durability, versatile control options, and efficient illumination to meet all your area lighting needs.

Constructed with a rugged, one-piece die-cast aluminum housing, this fixture not only ensures robustness but also incorporates a heat sink that optimizes heat dissipation through convection cooling management. The low-profile, 3G vibration-rated compact design minimizes wind load requirements, and the housing is completely sealed against moisture and environmental contaminants, ensuring longevity and reliability, and conforms to dark sky requirements.

STANDARD FEATURES

Construction and Materials

- One-piece die-cast aluminum housing features a complete heat sink hat 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.

Optical System

- Light Distribution: Type II / III / IV / V

Electrical System

- Power adjustable setting 100%, 80%, 60%, 40%
- Primary Input Power: 100W/140W/180W/300W/400W
- CCT Selectable: 3000K/4000K/5000K
- Input Voltage: 120-277 VAC
- Efficacy: up to 175 lm/W
- Power Factor: >0.9
- CRI: >70 / 80 or 90 (Optional)
- Operating Temp: -40°F to 103°F (-40°C to 40°C)
- Total Harmonic Distortion: <20%
- Integral Surge Protection: 10KA(@120-277V) or 20KA(@347-480V)

Dimming and Controls

- 0-10V Continuous Dimming Standard

Certifications and Compliance

- UL Listed for Wet Locations
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated Emissions
- Complies with DarkSky. No light emitted/Or less than 1% above a 90-degree angle

Lifetime Based on TM21: L70 ≥ 143,000 Hrs / L80 ≥ 122,000 Hrs / L90 ≥ 73,000 Hrs

OPTIONAL FEATURES

- 347-480 VAC input voltage option
- Optional Bi-Level Microwave Occupancy/Motion Sensor
- Synapse DLC Listed Wireless Lighting Control System
- CASAMBI Bluetooth Control System
- Silvaire DLC Listed SIG Certified Bluetooth Lighting Control System
- Optional NEMA 3-pin photocell or 7-pin photocell.
- Multiple Mounting Options Available
- Sensor receptacle



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WWW.JADEMAR.COM



SILVAIR CASAMBI SYNAPSE



PERFORMANCE SUMMARY

Primary Input Power	100W/140W/180W/300W/400W
Efficacy	up to 175 lm/W
Input Voltage	120-277 VAC or 347-480 VAC
CCT	Selectable: 3000K/4000K/5000K
Input Voltage:	120-277VAC
IES Optic Type	Type II / III / IV / V
CRI	>70 / 80 or 90 (Optional)
Power Factor	≥0.9
Ambient Working Temp	-40°C to 40°C (-40°F to 103°F)
Ingress Protection (IP)	Wet Locations
Effective Projected Area	0.36 sq. ft. 150W Model 0.48 sq. ft. 300W Model
Dimming & Controls	0-10V dimming driver L90 @ ≥ 61,000 Hrs
Construction	Cast Aluminum Alloy / Epoxy Powder Coat Finish Polycarbonate Lens
Lifetime Based on TM21	L70 @ ≥ 143,000 hrs L80 @ ≥ 122,000 hrs L90 @ ≥ 73,000 hrs
Certifications & Compliance	UL Listed / Complies with Dark Sky
Limited Warranty	10 Years

STRUCTURAL DESIGN

Photocell

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

Occupancy Sensor

Allows for security and energy savings

Mounting

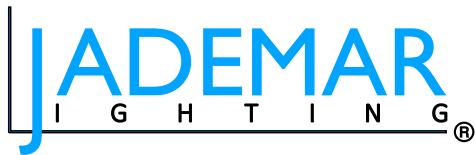
Square and Round Pole Mount, Slipfitter, Wall and Yoke mount



CCT & POWER Adjustable
Offer four selectable lumen output (40%/60%/80%/100%) and three selectable CCTs (30K/40K/50K)



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SPECIFICATION SUBMITTAL DETAIL

PROJECT NAME:	
MODEL NUMBER:	
DATE:	

JAL-M08-CPS SERIES CCT AND POWER SELECTABLE AREA LUMINAIRE

ORDERING INFORMATION / Example: JAL-M08-CPS-100W-H-T3-PCR3-PIR-APM-BK

JAL-M08-CPS							
Product Series	Wattage	Sensor Receptacle	Input Voltage	CCT Selectable	CRI	Optics	Photocell Options
JAL-M08-CPS	100W 140W 180W	Blank N/A SR Sensor Receptacle	Blank 120-277V(Standard) H 347-480VAC	Blank 3000K/4000K/5000K	Blank 70 CRI (Standard) 80 80 CRI 90 90 CRI	T2 Type II T3 Type III T4 Type IV T5 Type V	Blank No Photocell (standard) PCR3 3 pin NEMA receptacle PCR7 7 pin NEMA receptacle
	300W 400W			Blank 4000K/5000K			

	Control Options	Mounting Options	Finish	Other Options
Blank	No Controls (Standard)	APMS Arm pole mount for round & square poles (short)	BZ Bronze (Standard)	Blank Not BAA/BABAA
BMW0	Factory standard setting for this sensor options with this luminaire is: 50% dim, 20 minutes delay – Never turn off.* (Must be combined with photocell or daylight sensor for luminaire to turn of when sun rises) For different factory settings, description must be noted on the order	SF Slip Fitter	BK Black	BAA Buy American Act
BMW0-H	Factory standard setting for this sensor options with this luminaire is: 50% dim, 20 minutes delay – Never turn off.* (Must be combined with photocell or daylight sensor for luminaire to turn of when sun rises) For different factory settings, description must be noted on the order (347-480VAC)	WM Wall Mount	WH White	
PIR	Factory standard setting for this sensor options with this luminaire is: 50% dim, 20 minutes delay – Never turn off.* (Must be combined with photocell or daylight sensor for luminaire to turn of when sun rises) For different factory settings, description must be noted on the order	YK Yoke Mount	SV Silver Gray	
SYNCLC	Synapse Wireless Lighting Control System	AAPMS Adjustable arm pole mount for round & square poles (short)	CC Custom Color (Special Order)*	
SR-NLC-FC-EXA	Silvair Fixture Controller With External Antenna			
CB-NLC-FC-EXA	Casambi Fixture Controller With External Antenna			
BN-NLC-FC-EXA	Bublynnet Fixture Controller With External Antenna			

* Replace the "CC" with a custom RAL color

FIELD INSTALLED OPTIONS

JAL-M08-CPS-BF-HSS-100W-180W	House Side Shield (Back/Front) 100W/140W/180W Models
JAL-M08-CPS-BF-HSS-300W	House Side Shield (Back/Front) 300W Models
JAL-M08-CPS-BF-HSS-400W	House Side Shield (Back/Front) 400W Models
JAL-M08-CPS-RL-HSS-100W-180W	House Side Shield (Right/Left) 100W/140W/180W Models
JAL-M08-CPS-RL-HSS-300W	House Side Shield (Right/Left) 300W Models
JAL-M08-CPS-RL-HSS-400W	House Side Shield (Right/Left) 400W Models
JAL-M08-CPS-FSS-100W-180W	Full / 4 Sides Shield - 100W/140W/180W Models
JAL-M08-CPS-FSS-300W	Full / 4 Sides Shield - 300W Models
JAL-M08-CPS-FSS-400W	Full / 4 Sides Shield - 400W Models
JAL-M08-CPS-GCS-100W-180W	Glare Control Shield - 100W/140W/180W Models
JAL-M08-CPS-GCS-400W	Glare Control Shield - 400W Models

PC3	3 Pin NEMA Type Photocell
PC3-H3	3 Pin NEMA Type Photocell 347V
PC3-H4	3 Pin NEMA Type Photocell 480V
IPC7	7 Pin Intelligent Photocell step dimming feature
PC-LV	Low voltage Plug-and-Play Photocell
PIR	Plug-and-Play PIR Sensor
BMW0	Bi-Level Microwave Occupancy Sensor 120-277V
BMW0-H	Bi-Level Microwave Occupancy Sensor 347-480V
BMW0-RC	Hand held remote control for BMW0 Sensor

JAL-M08-CPS-APMS	Arm pole mount for round & square poles (short)
JAL-M08-CPS-SF	Slip Fitter
JAL-M08-CPS-WM	Wall Mount
JAL-M08-CPS-YK	Yoke Mount
JAL-M08-CPS-AAPMS	Adjustable arm pole mount for round & square poles (short)



OTHER MOUNTING ACCESSORIES

1	J4SQ-SP-D	4" Square Pole Mount with 2-3/8" O.D. Tenon
2	J4SQR-SP-D	4" Round Pole Mount with 2-3/8" O.D. Tenon
3	J5SQ-SP-D	5" Square Pole Mount with 2-3/8" O.D. Tenon
4	J5SQR-SP-D	5" Round Pole Mount with 2-3/8" O.D. Tenon
5	JSQA-AL02DA	Pole Bracket Accessories –Angle-Adjustment Adapter
6	JSP-TR-D	Pole Bracket accessories-Tenon & Yoke Adaptor
7	JSQ/R-SP-D	Horizontal Wall or Square or Round pole mount with 2-3/8" Tenon Bracket

8	JWM-SP-D	90° Wall Mount Bracket with 2-3/8" O.D. Tenon
9	JSQ-SP-D	2-3/8" OD Horizontal Tenon Mid-Pole Bracket
10	JR60-SP2-90-D	Double 90° Horizontal Tenon Adaptor
11	JR60-SP3-120-D	Triple 120° Horizontal Tenon Adaptor
12	JR60-SP2-180-D	Double 180° Horizontal Tenon Adaptor
13	JR60-SP4-90-D	Quad 90° Horizontal Tenon Adaptor
14	JR60-SP3-90-D	Triple 90° Horizontal Tenon Adaptor



LUMEN PERFORMANCE AND ELECTRICAL DATA

JAL-M08-CPS-100W								
Setting	Wattage	Optic Type	3000K		4000K		5000K	
			Lumens	lm/W	Lumens	lm/W	Lumens	lm/W
100%	100W	T2	14,500	145	15,800	158	15,000	150
		T3	14,500	145	15,800	158	15,000	150
		T4	14,500	145	15,800	158	15,000	150
		T5	15,100	151	16,000	160	15,600	156
80%	80W	T2	12,000	150	13,000	163	12,500	156
		T3	12,000	150	13,000	163	12,500	156
		T4	12,000	150	13,000	163	12,500	156
		T5	12,500	156	13,300	166	12,800	160
60%	60W	T2	9,300	155	10,000	167	9,600	160
		T3	9,300	155	10,000	167	9,600	160
		T4	9,300	155	10,000	167	9,600	160
		T5	9,600	160	10,200	170	9,850	164
40%	40W	T2	6,400	160	6,800	170	6,560	164
		T3	6,400	160	6,800	170	6,560	164
		T4	6,400	160	6,800	170	6,560	164
		T5	6,560	164	7,000	175	6,700	168

JAL-M08-CPS-140W								
Setting	Wattage	Optic Type	3000K		4000K		5000K	
			Lumens	lm/W	Lumens	lm/W	Lumens	lm/W
100%	140W	T2	20,000	147	23,000	164	21,000	150
		T3	20,000	147	23,000	164	21,000	150
		T4	20,000	147	23,000	164	21,000	150
		T5	21,000	150	23,500	168	21,500	154
80%	120W	T2	18,000	150	20,000	167	18,500	154
		T3	18,000	150	20,000	167	18,500	154
		T4	18,000	150	20,000	167	18,500	154
		T5	18,500	154	20,500	171	19,000	158
60%	90W	T2	13,800	153	15,200	169	14,200	158
		T3	13,800	153	15,200	169	14,200	158
		T4	13,800	153	15,200	169	14,200	158
		T5	14,000	156	15,600	172	14,500	161
40%	60W	T2	9,400	157	10,300	172	9,700	162
		T3	9,400	157	10,300	172	9,700	162
		T4	9,400	157	10,300	172	9,700	162
		T5	9,600	160	10,500	175	10,000	167

JAL-M08-CPS-180W								
Setting	Wattage	Optic Type	3000K		4000K		5000K	
			Lumens	lm/W	Lumens	lm/W	Lumens	lm/W
100%	180W	T2	24,800	138	27,000	150	25,200	140
		T3	24,800	138	27,000	150	25,200	140
		T4	24,800	138	27,000	150	25,200	140
		T5	25,500	142	28,000	156	26,000	144
80%	144W	T2	20,200	140	22,000	153	20,600	143
		T3	20,200	140	22,000	153	20,600	143
		T4	20,200	140	22,000	153	20,600	143
		T5	20,800	144	22,800	158	21,000	146
60%	108W	T2	15,300	142	16,800	156	15,700	145
		T3	15,300	142	16,800	156	15,700	145
		T4	15,300	142	16,800	156	15,700	145
		T5	15,800	146	17,300	160	16,200	150
40%	72W	T2	10,500	146	11,500	160	10,800	150
		T3	10,500	146	11,500	160	10,800	150
		T4	10,500	146	11,500	160	10,800	150
		T5	10,800	150	11,800	164	11,000	153



LUMEN PERFORMANCE AND ELECTRICAL DATA

JAL-M08-CPS-300W								
Setting	Wattage	Optic	3000K		4000K		5000K	
		Type	Lumens	lm/W	Lumens	lm/W	Lumens	lm/W
100%	300W	T2	41,000	137	45,000	150	42,000	140
		T3	41,000	137	45,000	150	42,000	140
		T4	41,000	137	45,000	150	42,000	140
		T5	42,500	142	46,000	153	43,500	145
80%	240W	T2	33,600	140	37,000	154	34,500	144
		T3	33,600	140	37,000	154	34,500	144
		T4	33,600	140	37,000	154	34,500	144
		T5	34,500	144	38,000	158	35,500	148
60%	180W	T2	26,000	144	28,600	159	26,600	148
		T3	26,000	144	28,600	159	26,600	148
		T4	26,000	144	28,600	159	26,600	148
		T5	26,600	148	29,700	165	27,500	153
40%	120W	T2	18,000	150	20,000	167	18,500	154
		T3	18,000	150	20,000	167	18,500	154
		T4	18,000	150	20,000	167	18,500	154
		T5	18,500	154	20,800	173	19,000	158

JAL-M08-CPS-400W							
Setting	Wattage	Optic Type	4000K		5000K		
			Lumens	lm/W	Lumens	lm/W	
LV1	400W	T2	60,500	151	60,000	150	
		T3	60,500	151	60,000	150	
		T4	60,500	151	60,000	150	
		T5	61,000	153	60,800	152	
LV2	360W	T2	56,000	156	55,000	153	
		T3	56,000	156	55,000	153	
		T4	56,000	156	55,000	153	
		T5	56,500	157	55,500	154	
LV3	320W	T2	51,000	159	50,000	156	
		T3	51,000	159	50,000	156	
		T4	51,000	159	50,000	156	
		T5	51,500	161	50,500	159	
LV4	300W	T2	47,000	162	46,000	159	
		T3	47,000	162	46,000	159	
		T4	47,000	162	46,000	159	
		T5	47,500	164	46,500	160	

ELECTRICAL DATA

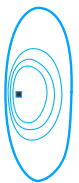
Number of Drivers	Driver Current (mA)	Nominal Power (W)	Input Voltage (V)	Current Amps (A)
1	850	100	120	0.83
			208	0.48
			240	0.42
	2520		277	0.36
			347	0.29
			480	0.21
1	1200	140	120	1.17
			208	0.67
			240	0.58
			277	0.51
			347	0.40
			480	0.29
1	960	180	120	1.50
			208	0.87
			240	0.75
			277	0.65
			347	0.52
			480	0.38

Number of Drivers	Driver Current (mA)	Nominal Power (W)	Input Voltage (V)	Current Amps (A)
1	1500	300	120	2.50
			208	1.44
			240	1.25
			277	1.08
			347	0.86
			480	0.63
1	1460	400	120	3.33
			208	1.92
			240	1.67
			277	1.44
			347	1.15
			480	0.83

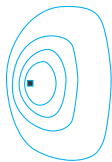
BUG RATING @ 5000K

Wattage	Voltage	Optics Type	B	U	G
100W	120-277V/347-480V	T2	3	0	3
		T3	3	0	3
		T4	3	0	2
		T5	4	0	2
140W	120-277V/347-480V	T2	3	0	3
		T3	3	0	3
		T4	3	0	3
		T5	4	0	2
180W	120-277V/347-480V	T2	4	0	3
		T3	3	0	3
		T4	3	0	3
		T5	4	0	2
300W	120-277V/347-480V	T2	5	0	4
		T3	4	0	4
		T4	4	0	4
		T5	5	0	4
400W	120-277V/347-480V	T2	5	0	4
		T3	5	0	5
		T4	5	0	5
		T5	5	0	4

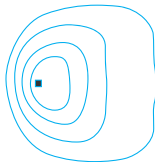
PHOTOMETRY



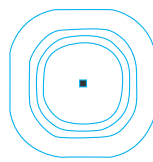
Type 2



Type 3



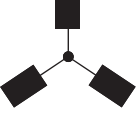
Type 4



Type 5



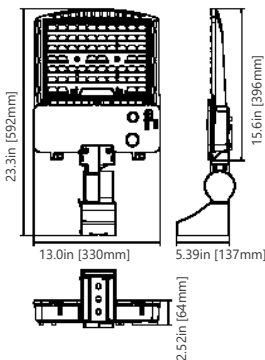
EPA CONFIGURATIONS

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	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

PRODUCT DIMENSIONS

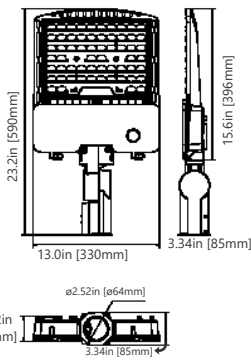
100W/140W/180W

(Adjustable Square Mount)



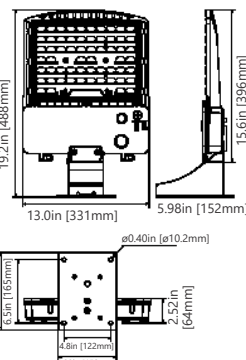
Net Weight
100W: 9.87lb
140W: 10.38lb
180W: 10.59lb

(Slipfitter Mount)



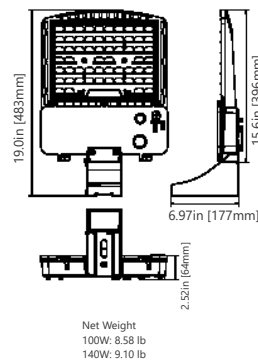
Net Weight
100W: 9.82lb
140W: 10.34lb
180W: 10.55lb

(Wall Mount)



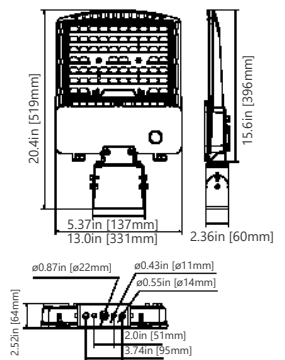
Net Weight
100W: 12.26 lb
140W: 12.77 lb
180W: 12.99 lb

(Pole Mount)



Net Weight
100W: 8.58 lb
140W: 9.10 lb
180W: 9.31 lb

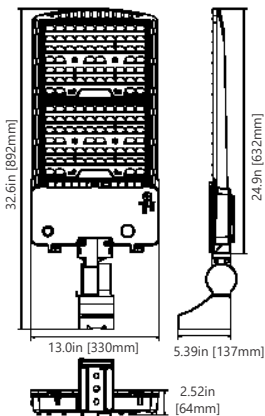
(Yoke Mount)



Net Weight
100W: 9.06 lb
140W: 9.57 lb
180W: 9.78 lb

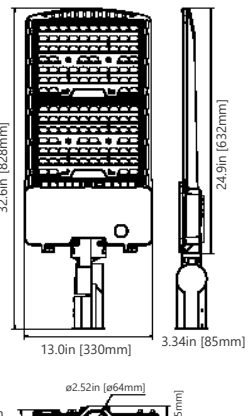
300W/400W

(Adjustable Square Mount)



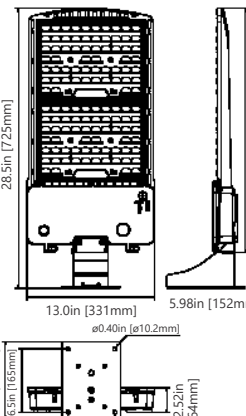
Net Weight
250W: 14.65 lb
300W: 15.26 lb
400W: 16.79 lb

(Slipfitter Mount)



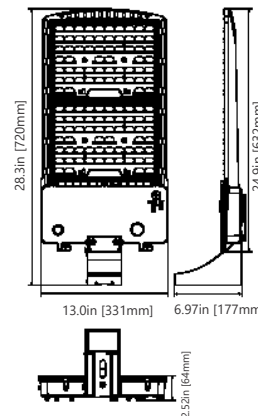
Net Weight
100W: 17.04 lb
140W: 15.21 lb
180W: 16.78 lb

(Wall Mount)



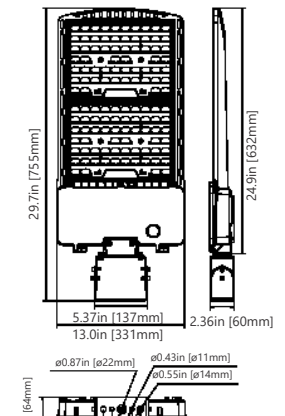
Net Weight
100W: 17.04 lb
140W: 11.75 lb
180W: 19.18 lb

(Pole Mount)



Net Weight
100W: 13.36 lb
140W: 13.97 lb
180W: 15.50 lb

(Yoke Mount)



Net Weight
100W: 13.83 lb
140W: 14.45 lb
180W: 15.98 lb

