

VELA Wattage Selectable Series

LED AREA LIGHT

Project Name:	
Catalog Number:	
Notes:	



Product Description:

Designed to provide one to one replacement or new construction lighting, the Konlite VELA Wattage Selectable Series LED Area light delivers superior illumination, energy savings, and easy installation.

The sleek and modern low profile design combined with it's durable housing makes the VELA Series a top choice for Parking Lots, Campuses, Public Parks, Building Complexes, Arenas, and Roadways. The high performance LEDs and custom optics provide excellent uniformity and efficiency. This unit provides low initial costs, up to 65% energy savings, long service life, and a fast return on investment.

This series replaces: 70W – 1000W HID/HPS
11,200 to 43,400 Lumens

Features:

Construction

IP65 Corrosion proof Die-cast aluminum housing.
Provided in styles: a Dark Bronze Finish or a White Finish.
1.5G Vibration Load per ANSI C136.31

Electric

Operating Temperature: -40°F to 113°F; Universal 120-277V Standard; 347-480V Option Available
1-10V Dimmable Driver; Power Factor >0.95 & THD <20%
10KV Surge Protection
Photocell & Motion Sensor Compatible

Certification

This fixture is UL listed wet location rated.
DesignLights Consortium® (DLC) Premium 5.1 qualified product.

Installation

Konlite VELA series LED Area Light can be mounted directly on round or square pole, wall or surface. Mounting:
- Extrusion Arm/Square & Round Pole Mount (Adjustable & Non-Adjustable Model)
- Yoke/Trunnion Mount
- Slip Fitter
- Universal Mount (All-in-one Slip Fitter & Extrusion Arm)

Optic

The high output LEDs and custom optics provide excellent light distribution with 140 lumens per watt efficiency. UV resistant polycarbonate optical lens.
Type III distribution is standard. Type IV, V upon request 5000K CCT is standard, 4000K upon request, CRI70.

Warranty

Estimated 100,000 hours lifespan based on IES LM-80. 5-Year warranty

Ordering Information						Example: KVLLMW40KLV3EX
Series	Wattage ¹	CCT	Voltage	Distribution	Mounting	
KVL	LMW=150W (150W default setting, 120W, 100W, 80W) MMW=240W (240W default setting, 220W, 200W, 170W) HMW=310W (310W default setting, 280W, 260W, 240W)	MC=Multi-Color 50K=5000K	LV=120-277V HV=347-480V	3=Type III 4=Type IV 5=Type V	EX=Extrusion Arm for pole mount (Round and Square pole) SF=Slip-Fitter mount YK=Yoke mount UN=Universal Bracket	
Photo Control ²		Motion Sensor	Finish			
Blank=Without Photocell and Receptacle P=NEMA 120-277V Photocell P0=Receptacle with Shorting Cap P3=NEMA 347V Photocell P4=NEMA 480V Photocell P7=7-Pin receptacle		Blank=Without Sensor M=With Motion Sensor	Blank=Dark Bronze W=White			

Notes:

- The entire Konlite VELA Series Area Light is Wattage Selectable.
- When Photocell is in use, do not tilt above 45 degrees from horizontal during installation.



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Rev. 12/25/23

POWER SELECTING AND EQUIVALENTS



Switch for Selecting Wattages

VELA I	Wattage	150W*	120W	100W	80W
	Equal	400W MH	250W MH	200W MH	175W MH
VELA II	Wattage	240W*	220W	200W	170W
	Equal	750W MH	700W MH	600W MH	500W MH
VELA III	Wattage	310W*	280W	260W	240W
	Equal	1000W MH	900W MH	800W MH	750W MH

*Default Wattage Setting for Each Model

ACCESSORIES



3-pin NEMA Twist Lock 120-277VAC/208-480VAC Photocell



Glare Shield

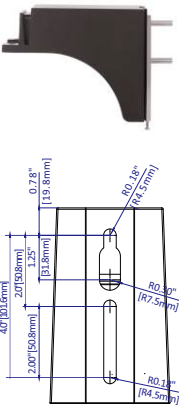


External 360 Full Visor

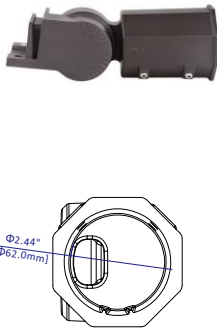
External Half Glare Shield

Mounting Brackets

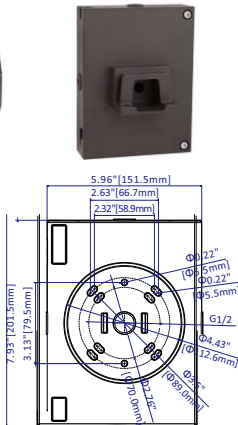
Square & Round Pole Mount



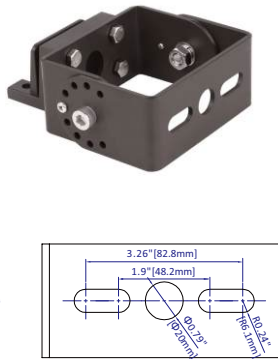
Slip Fitter Mount



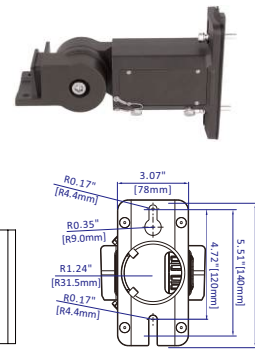
Wall Mount



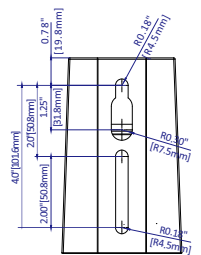
Trunnion Mount



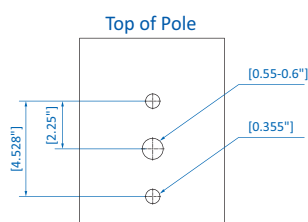
Universal Mount



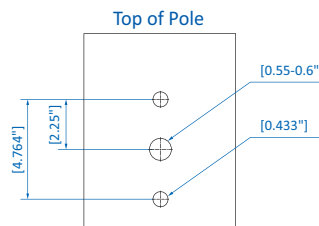
Adjustable Square & Round Pole Mount



Drilling Templates for Poles



For Extrusion Arm Mount



For Universal Mounting Bracket

PERFORMANCE DATA

Lumens Output and BUG

Lumen values are based on 120V AC input product configuration, contact for performance data on any configurations not shown here.

Wattage	Distribution	4000K					5000K				
		Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
80W	Type III	12,284	3	2	3	161	12,307	3	2	3	161
	Type IV	12,325	2	2	2	160	12,372	2	2	2	160
	Type V	12,405	3	2	1	161	12,428	3	2	1	161
100W	Type III	15,349	3	2	3	161	15,372	3	2	3	161
	Type IV	15,436	3	2	2	161	15,482	3	2	2	161
	Type V	15,506	3	2	1	161	15,552	3	2	1	162
120W	Type III	18,207	3	2	3	158	18,438	3	2	3	160
	Type IV	18,523	3	2	3	161	18,569	3	2	3	161
	Type V	18,607	4	2	2	162	18,654	4	2	2	162
150W	Type III	23,001	3	2	3	161	23,047	3	2	3	161
	Type IV	23,142	3	2	3	161	23,212	3	2	3	162
	Type V	23,247	4	2	2	162	23,317	4	2	2	163
170W	Type III	24,596	3	2	3	152	24,701	3	2	3	153
	Type IV	24,855	3	2	3	155	24,890	3	2	3	155
	Type V	25,237	4	2	2	157	25,723	4	2	2	157
200W	Type III	29,062	4	2	4	153	29,097	4	2	4	153
	Type IV	29,243	3	2	4	154	29,278	3	2	4	154
	Type V	29,658	5	2	2	156	29,693	5	2	2	156
220W	Type III	31,958	4	2	4	153	31,993	4	2	4	154
	Type IV	32,157	4	2	4	153	32,192	4	2	4	153
	Type V	32,652	5	2	2	155	32,687	5	2	2	155
240W	Type III	34,818	4	2	4	156	34,888	4	2	4	156
	Type IV	35,036	4	2	4	157	35,106	4	2	4	157
	Type V	35,575	5	2	2	159	35,646	5	2	2	159
260W	Type III	39,016	4	2	4	158	39,109	4	2	4	158
	Type IV	38,790	4	2	4	154	38,836	4	2	4	154
	Type V	39,072	5	2	2	156	39,165	5	2	2	157
280W	Type III	42,045	4	2	4	156	42,139	4	2	4	156
	Type IV	41,753	4	2	4	155	41,799	4	2	4	155
	Type V	42,106	5	2	2	156	42,199	5	2	2	156
310W	Type III	46,520	4	2	4	158	46,614	4	2	4	159
	Type IV	46,150	4	2	4	157	46,289	4	2	4	157
	Type V	46,587	5	2	2	158	46,681	5	2	2	159



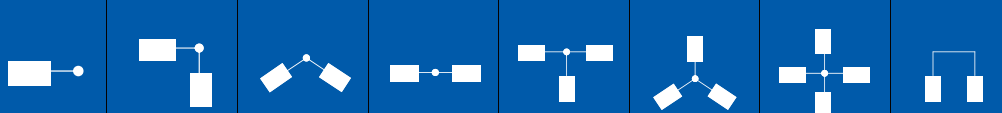
Electrical Data

Wattage	AC Input Current(A)					
	120V	208V	240V	277V	347V	480V
80W	0.68	0.38	0.34	0.28	0.25	0.17
100W	0.85	0.48	0.42	0.35	0.31	0.21
120W	1.02	0.58	0.5	0.42	0.38	0.25
150W	1.28	0.72	0.63	0.53	0.47	0.31
170W	1.46	0.84	0.73	0.6	0.5	0.37
200W	1.72	0.99	0.86	0.71	0.59	0.43
220W	1.89	1.09	0.94	0.78	0.65	0.48
240W	2.06	1.19	1.03	0.85	0.71	0.52
260W	2.23	1.29	1.12	0.92	0.77	0.56
280W	2.4	1.39	1.2	0.99	0.83	0.61
310W	2.66	1.54	1.33	1.1	0.92	0.67

Lumen Maintenance

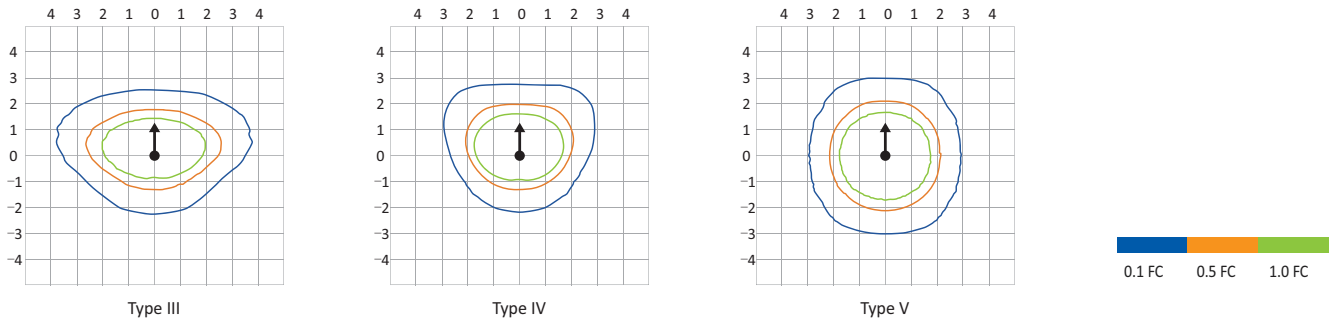
Operating hours	25,000	50,000	75,000	100,000
Lumen Maintenance Factor	>0.95	>0.89	>0.84	>0.79

Luminaire EPA

Size	Mounting	Tilt Angle								
			1	2 @ 90°	2 @ 120°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°	2 side by side
Small Size	Slip-fitter	0°	0.23	0.41	0.41	0.42	0.6	0.54	0.8	0.46
		10°	0.18	0.35	0.36	0.35	0.53	0.46	0.69	0.35
		20°	0.17	0.34	0.35	0.34	0.51	0.44	0.67	0.34
		30°	0.21	0.37	0.38	0.39	0.54	0.48	0.74	0.42
		40°	0.27	0.4	0.41	0.45	0.58	0.55	0.8	0.54
		45°	0.3	0.42	0.42	0.5	0.6	0.58	0.83	0.61
Medium Size	Slip-fitter	0°	0.25	0.44	0.46	0.46	0.65	0.58	0.87	0.5
		10°	0.19	0.38	0.38	0.38	0.57	0.5	0.75	0.38
		20°	0.19	0.37	0.37	0.37	0.55	0.48	0.73	0.37
		30°	0.23	0.4	0.42	0.43	0.59	0.53	0.8	0.46
		40°	0.29	0.44	0.46	0.49	0.63	0.6	0.87	0.59
		45°	0.33	0.45	0.5	0.54	0.66	0.63	0.9	0.66
Large Size	Slip-fitter	0°	0.35	0.62	0.63	0.64	0.91	0.82	1.21	0.69
		10°	0.27	0.54	0.54	0.53	0.8	0.69	1.06	0.54
		20°	0.26	0.52	0.52	0.52	0.77	0.67	1.02	0.52
		30°	0.32	0.56	0.57	0.6	0.83	0.74	1.12	0.64
		40°	0.41	0.61	0.65	0.68	0.88	0.84	1.26	0.82
		45°	0.46	0.63	0.72	0.76	0.92	0.89	1.84	0.92

PHOTOMETRIC DIAGRAM

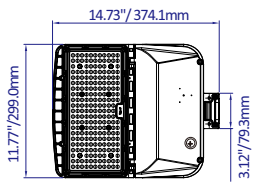
Isofootcandle plots for the KVLLMW50KL3EX (Wattage set on 150W and CCT 5000K). Distances are in units of mounting height (30'). Please download IES files for other products photometric information.



FIXTURE DIMENSIONS AND WEIGHT

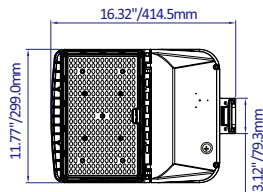
unit: inch/mm

80W / 100W / 120W / 150W
Without Mounting Bracket



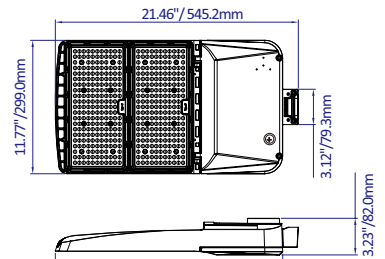
Net Weight: 7.2Lbs/3.25kgs

170W / 200W / 220W / 240W



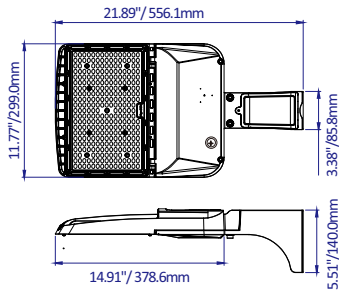
Net Weight: 9.1Lbs/4.14kgs

240W / 260W / 280W / 310W

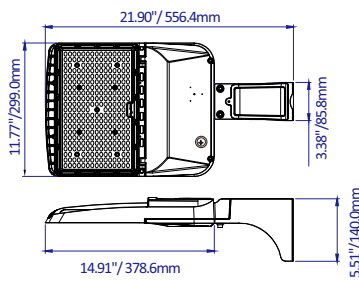


Net Weight: 11.3Lbs/5.12kgs

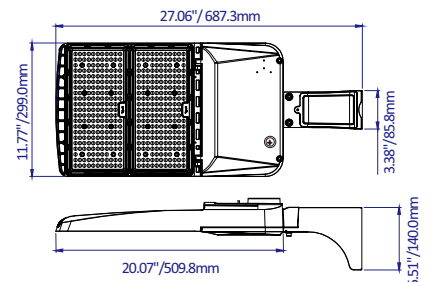
Square & Round Pole Mount



Net Weight: 9.2Lbs/4.19kgs

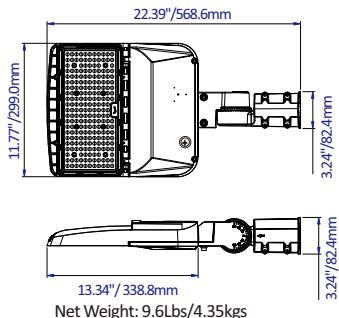


Net Weight: 11.2Lbs/5.08kgs

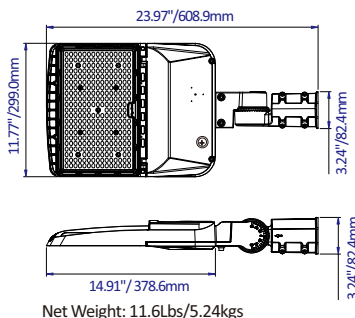


Net Weight: 13.3Lbs/6.06kgs

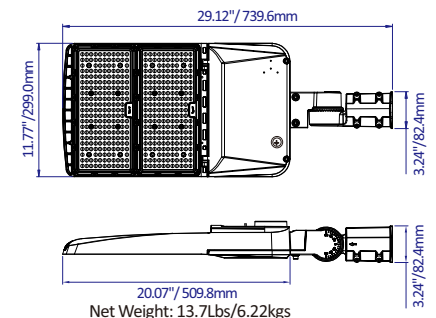
Slip Fitter Mount



Net Weight: 9.6Lbs/4.35kgs



Net Weight: 11.6Lbs/5.24kgs



Net Weight: 13.7Lbs/6.22kgs



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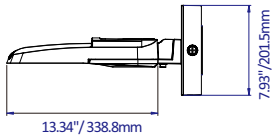
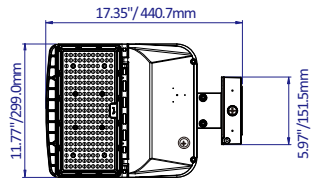
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80W / 100W / 120W / 150W

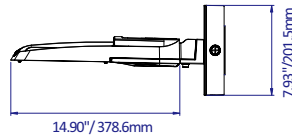
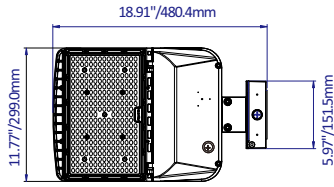
170W / 200W / 220W / 240W

240W / 260W / 280W / 310W

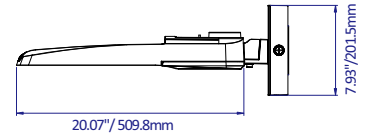
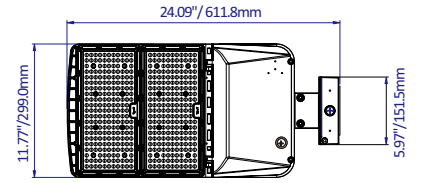
Wall Mount



Net Weight: 9.0Lbs/4.40kgs

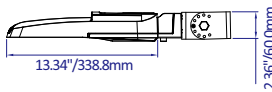
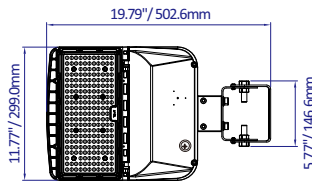


Net Weight: 11.7Lbs/5.29kgs

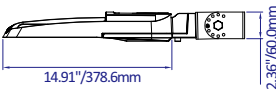
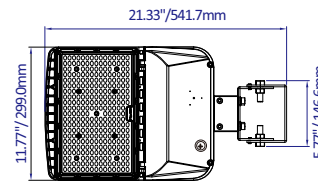


Net Weight: 13.8Lbs/6.27kgs

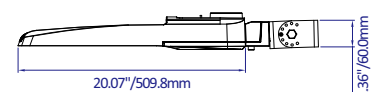
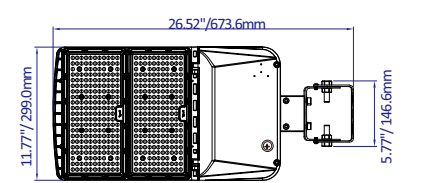
Trunnion Mount



Net Weight: 10.0Lbs/4.55kgs

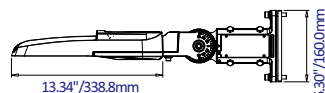
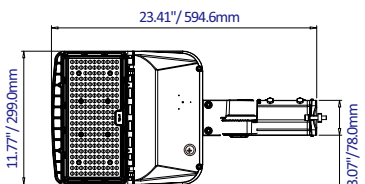


Net Weight: 11.0Lbs/5.44kgs

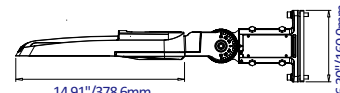
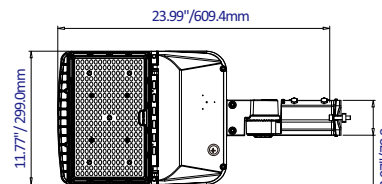


Net Weight: 14.2Lbs/6.42kgs

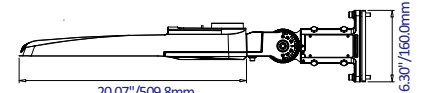
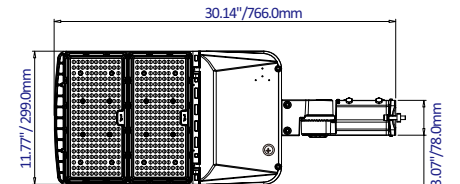
Universal bracket



Net Weight: 10.6Lbs/4.80kgs

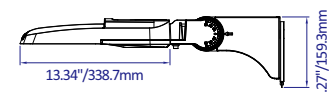
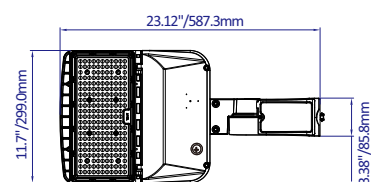


Net Weight: 12.5Lbs/5.69kgs

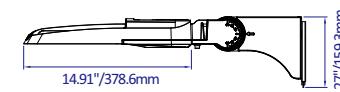
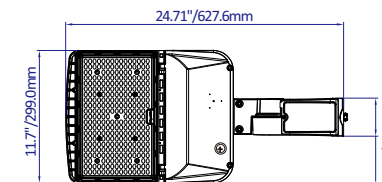


Net Weight: 14.7Lbs/6.67kgs

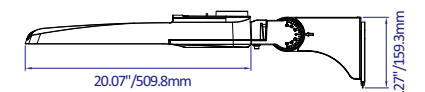
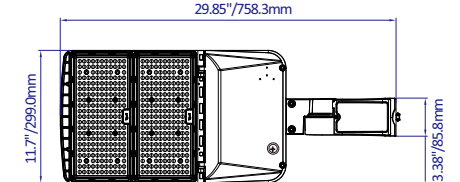
Adjustable Square & Round Pole Mount



Net Weight: 10.5Lbs/4.74kgs



Net Weight: 12.2Lbs/5.52kgs



Net Weight: 14.5Lbs/6.59kgs



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