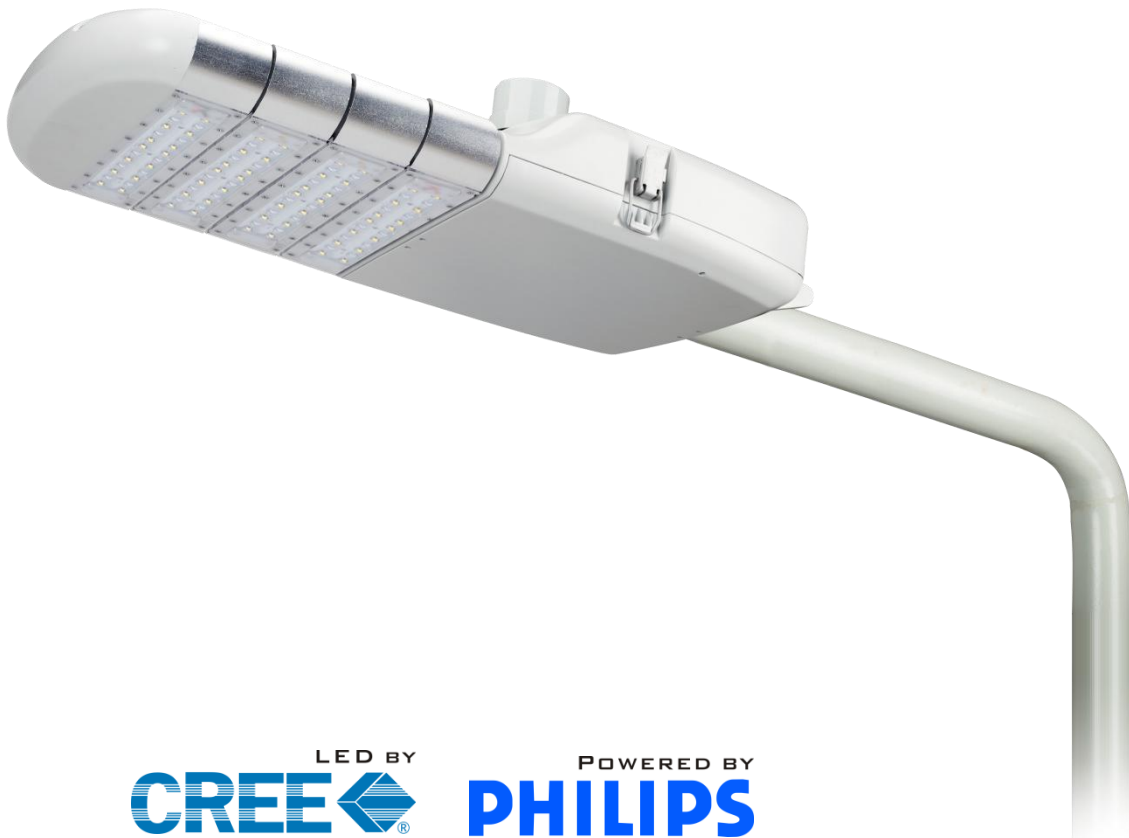




V9: LSA-04/06/16

BBE® LED Roadway, Area & Parking Lighting Luminaire

LSA™ series



Performance Data:	
• Input Voltage: 120-277Vac / 347-480Vac 50/60Hz	• CRI: >70
• Power: 30-250W	• PF>0.95, THD<15%
• Luminous flux: 3400-25500lm	• Calculated L70>100,000h @ Ta 25°C (77°F)
• Up to 118LPW@700mA or 100LPW@1050mA	• Work Temp.: -40~50°C (-40~122°F)
• Color Temperature: 4000K / 5000K (+/-300K)	• Warranty: 5 years limited

Features and Specifications

Application

LSA series luminaire is designed for roadway lighting for pedestrian and alley ways, streets and highways. Area and site lighting for parking lot, playground, sport area, campuses etc. Available to replace traditional MH or HPS luminaires up to 600W.

Construction

Rugged die-cast aluminum housing with corrosion resistant powder coating hardware withstands extreme climate changes without cracking or peeling, 1000h salt spray tested per ASTM B117.

Free air-flow through anodized heat sink design provides perfect heat management, and guarantee the Tc temperature of LED chip less than 70C @ Ta=25C & 700mA driving for long lifespan of the LED.

Smooth and glossy processing with natural clean system prevents debris build-up and minimizes wind loading.

Modular design optimizes construction and assembly, allows for easy maintenance and upgrade.

Tool-less stainless steel latches release the down-opening driver door for easy access to the electrical compartment and the quick disconnect connectors make easy maintenance and installation.

Dual pipe clamps mounting system fitted to 1-5/8 to 2-3/8 in (O.D.) mast-arms accommodates safety and stability, 3G vibration tested per ANSI C136.31 bridge and overpass. Capable of being adjusted the degree of +5, +2.5, 0, -2.5, -5.

Bubble gage is included for leveling.

Suitable for Wet/Damp/Dry Location against UL approval.

LED & Optics

Advanced CREE LED technology is applied for high efficiency and long life (Calculated L70>100,000h @ Ta=25C/77F). IESNA LM80 approved and LM79 tested.

Pure white 5000K (4700-5300K) & Natural white 4000K (3700-4300K) with CRI>70, allowed by ANSI C78.377. LPW up to 118 @ 700mA is available.

Precise optic lens in high intensity polycarbonate material with IESNA Type II & Type III cut-off provides high uniformity and optimal luminaire spacing, the optical system optimizes the light distribution, eliminate the waste of light, promotes the reasonable and effective using of light.

IP66 Optics per IEC60529.

Electronics

Philips Advance universal driver is available in 120-277Vac or 347-480Vac, 50/60Hz, power factor >0.95 and THD <20% at full load. Class I output, FCC Title 47 Class A, Subpart B, Section 15 compliant.

Current Selector is optional for 350mA, 530mA, 700mA & 1050mA.

SPD (10KV/10KA) provides protection and meets ANSI/IEEE C62.41 for Location Category C-High & UL1449.

0-10V dimming is integrated, PWM dimming is optional, control by others.

Tool-less 360 degree rotatable twist-lock photocell control ANSI C136.10 compliant in 3-wire, 5-wire or 7-wire is available for options.

Terminal block is for #2-14 AWG cables.

Listing

UL/CUL 1598, 8750 listed for wet location (E334429), DLC listed, FCC approved, RoHS compliant.

Warranty

5 years limited.

Ordering information:

Example: LSA2-US5K2SC4-PCVD

Series	#of module	-	Voltage	LED driving current	CCT	Optics	LED bin	-	Options
LSA	2	-	U	S	5K	2S	C4	-	PCVD
LSA	1 ² 2 3 4 5 6 7 8		U: 120-277Vac H: 347-480Vac	H: 1050mA S: 700mA M: 700mA 525mA 350mA	4K: 4000K 5K: 5000K	TS: Type 2S 2S: Type 2S 3M: Type 3M	C4: hi-efficiency (>115LPW@700mA)		PR ¹ : ANSI 3-wire photocell receptacle P5 ¹ : ANSI 5-wire photocell receptacle P7 ¹ : ANSI 7-wire photocell receptacle PC ² : photocell control VD ¹ : 0-10V dimming BL: back light control

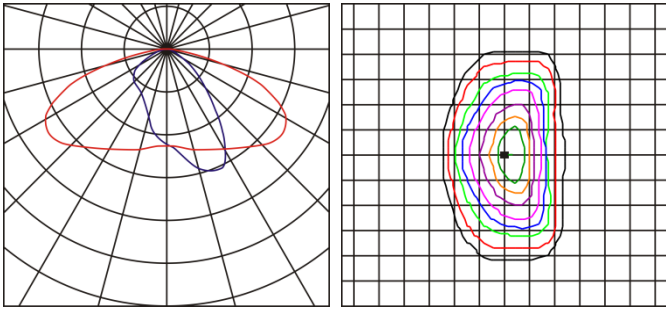
*Consult your sales representative for the options, the lead time will be varied depending on the options selected.

1. Control by others.

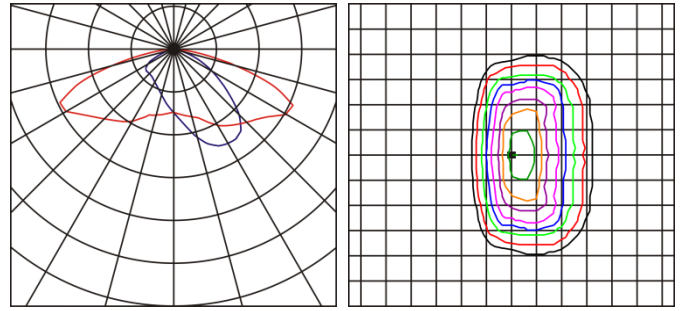
2. Not available to 347-480Vac.

Electrical Data:

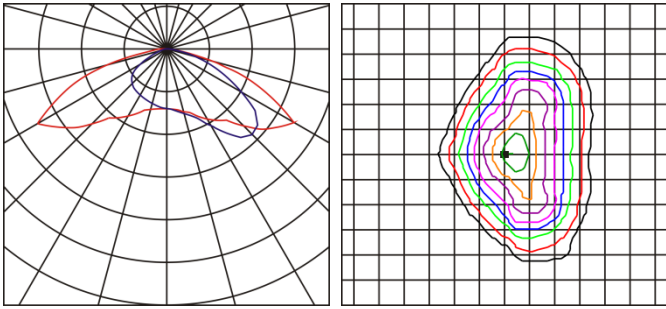
	Number of LEDs	LED drive current (mA)	Rated Power (W)		Total Current (Amp)					
			120-277Vac	347-480Vac	120V	208V	240V	277V	347V	480V
LSA1	14	1050	50	n/a	0.38	0.22	0.19	0.16	n/a	n/a
		700	30	n/a	0.27	0.16	0.14	0.12	n/a	n/a
LSA2	28	1050	100	105	0.77	0.45	0.38	0.33	0.28	0.21
		700	60	65	0.52	0.30	0.27	0.24	0.20	0.15
		530	45	50	0.40	0.24	0.21	0.19	0.15	0.12
		350	30	35	0.27	0.16	0.15	0.14	0.11	0.09
LSA3	42	1050	150	155	1.13	0.65	0.51	0.56	0.41	0.30
		700	90	95	0.78	0.46	0.40	0.35	0.28	0.21
		530	70	75	0.59	0.35	0.31	0.28	0.24	0.16
		350	45	50	0.40	0.25	0.22	0.20	0.15	0.12
LSA4	56	1050	200	210	1.52	0.87	0.76	0.65	0.55	0.40
		700	120	125	1.04	0.60	0.51	0.46	0.29	0.27
		530	90	95	0.78	0.46	0.40	0.35	0.28	0.21
		350	60	65	0.52	0.31	0.28	0.25	0.19	0.15
LSA5	70	1050	250	260	1.88	1.08	0.94	0.82	0.68	0.49
		700	150	155	1.28	0.73	0.64	0.56	0.45	0.33
		530	110	120	0.99	0.57	0.50	0.44	0.35	0.25
		350	75	80	0.66	0.39	0.34	0.31	0.23	0.18
LSA6	84	700	180	190	1.56	0.90	0.79	0.69	0.59	0.42
		530	140	150	1.20	0.70	0.62	0.55	0.43	0.32
		350	95	100	0.81	0.48	0.43	0.39	0.30	0.23
LSA7	98	700	210	220	1.80	1.04	0.91	0.80	0.65	0.47
		530	160	170	1.35	0.79	0.70	0.62	0.49	0.37
		350	105	115	0.91	0.55	0.49	0.45	0.34	0.26
LSA8	112	700	240	250	2.04	1.17	1.02	0.90	0.73	0.53
		530	180	190	1.51	0.88	0.78	0.69	0.56	0.41
		350	120	130	1.02	0.61	0.54	0.49	0.38	0.29



TS is designed per IES Type II



2S is designed per IES Type II

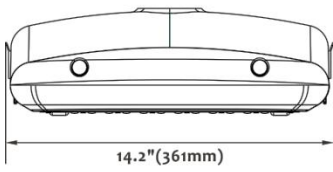


3M is designed per IES Type III

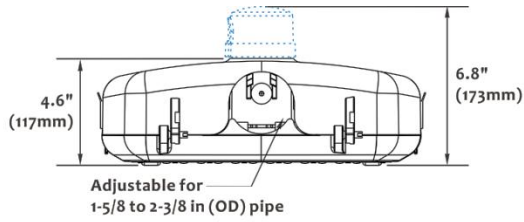
Cat. No.	Driver current (mA)	CCT	Rated Lumen (lm)	120-277Vac		347-480Vac		L70 @25 °C	Driver Life @25 °C
				Rated Power (W)	Efficiency (LPW)	Rated Power (W)	Efficiency (LPW)		
LSA1	1050	4000K/5000K	4500	45	100	n/a	n/a	>100,000h	>100,000h
LSA1	700	4000K/5000K	3400	30	110	n/a	n/a	>100,000h	>100,000h
LSA2	1050	4000K/5000K	9000	90	100	95	95	>100,000h	>100,000h
LSA2	700	4000K/5000K	6900	60	115	65	106	>100,000h	>100,000h
LSA3	1050	4000K/5000K	13500	135	100	140	96	>100,000h	>100,000h
LSA3	700	4000K/5000K	10350	90	115	95	109	>100,000h	>100,000h
LSA4	1050	4000K/5000K	18500	180	102	190	97	>100,000h	>100,000h
LSA4	700	4000K/5000K	14000	120	116	125	112	>100,000h	>100,000h
LSA5	1050	4000K/5000K	23400	225	104	235	99	>100,000h	>90,000h
LSA5	700	4000K/5000K	17700	150	118	155	114	>100,000h	>100,000h
LSA6	700	4000K/5000K	21200	180	118	190	112	>100,000h	>100,000h
LSA7	700	4000K/5000K	24400	210	116	220	110	>100,000h	>100,000h
LSA8	700	4000K/5000K	28300	240	118	250	113	>100,000h	>100,000h

*The above data is rated lumen and power, the real tested data will be something different, LM79 test report is available. Due to the rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice.

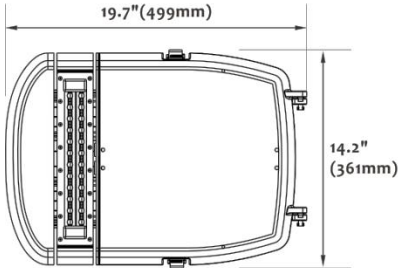
Dimension, Weight & EPA



14.2" (361mm)

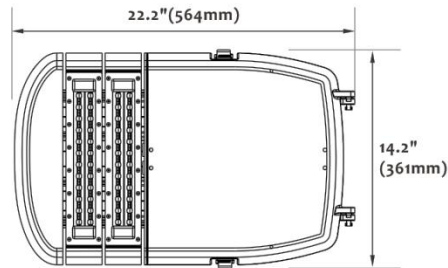


Adjustable for
1-5/8 to 2-3/8 in (OD) pipe



19.7" (499mm)

14.2" (361mm)

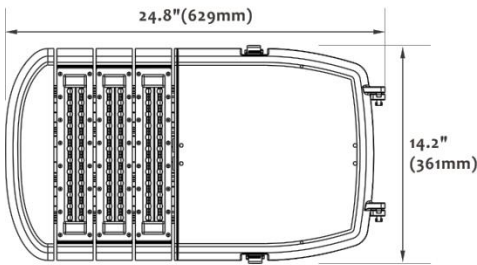


22.2" (564mm)

14.2" (361mm)

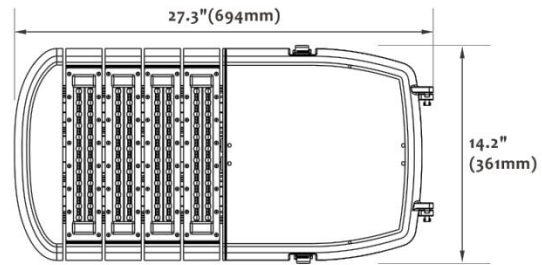
LSA1 N.W.: 13.9lb (6.3kg), EPA: 0.45sq ft (0.04m²)

LSA2 N.W.: 16.8lb (7.6kg), EPA: 0.50sq ft (0.05m²)



24.8" (629mm)

14.2" (361mm)

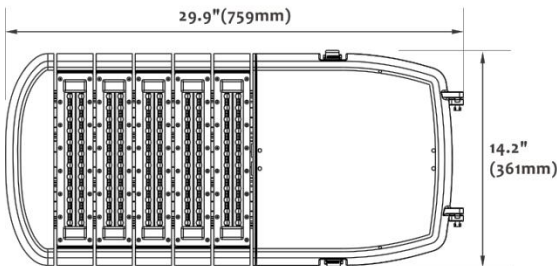


27.3" (694mm)

14.2" (361mm)

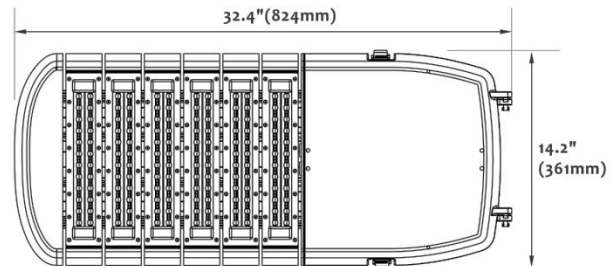
LSA3 N.W.: 19.2lb (8.7kg), EPA: 0.55sq ft (0.05m²)

LSA4 N.W.: 21.4lb (9.7kg), EPA: 0.60sq ft (0.06m²)



29.9" (759mm)

14.2" (361mm)

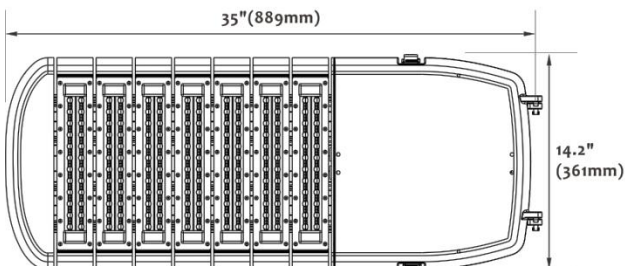


32.4" (824mm)

14.2" (361mm)

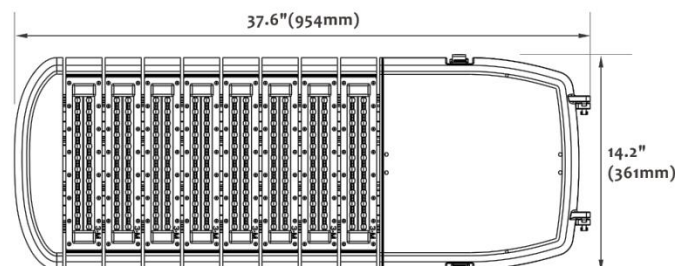
LSA5 N.W.: 23.1lb (10.5kg), EPA: 0.65sq ft (0.06m²)

LSA6 N.W.: 27.1lb (12.3kg), EPA: 0.70sq ft (0.06m²)



35" (889mm)

14.2" (361mm)



37.6" (954mm)

14.2" (361mm)

LSA7 N.W.: 29.1lb (13.2kg), EPA: 0.75sq ft (0.07m²)

LSA8 N.W.: 30.9lb (14kg), EPA: 0.80sq ft (0.07m²)

BBE LED reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications /availability subject to change by manufacturer without notice. Please refer to detailed specification sheets for additional information and spec details.

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