



V1: LSI-01/19/16

## BBE® LED Roadway Lighting Luminaire **LSI™** series



Performance Data:	
• Input Voltage: 220-240Vac / 120-277Vac 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

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### Application

LSI 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

Robust die-cast aluminum housing with corrosion resistant powder coating hardware withstands extreme climate changes without cracking or peeling, salt spray tested.

Standard finish is in white color. Grey, black or customs color is upon request.

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 top optical 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 40-60mm (O.D.) mast-arms accommodates safety and stability, capable of being adjusted the degree of +10, +5, 0, -5, -10. 70mm arms with 0 degree is applicable as well.

Bubble gage is included for leveling.

Optical and electrical assembly meets dust and moisture rating of IP66 per IEC60529, and ranking IK08 per EN62262, ensure long life and protection from the environment.

### 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.

### Electronics

Philips Advance universal driver is available in 220-240Vac or 120-277Vac, 50/60Hz, power factor >0.95 and THD <15% at full load. Class I output.

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

6KV/5KA surge protection is integrated, and optional (10KV/10KA) SPD is available.

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.

### Listing

CE, CB approved (pending). RoHS compliant

### Warranty

5 years limited.

**Ordering information:**

Example: LSI2-ES5K2SC4-CS



Series	#of module	-	Voltage	LED driving current	CCT	Optics	LED	-	Options
LSI	2	-	E	S	5K	2S	C4	-	CS
LSI	1 2 3 4 5 6 7 8		E: 220-240Vac U: 120-277Vac	H: 1050mA S: 700mA M: 525mA L: 350mA	4K: 4000K 5K: 5000K	TS 2S 3M	C4: high efficiency (>115LPW@700mA)		PR: ANSI 3-wire photocell receptacle P5: ANSI 5-wire photocell receptacle P7: ANSI 7-wire photocell receptacle PC: photocell control CS: current selector

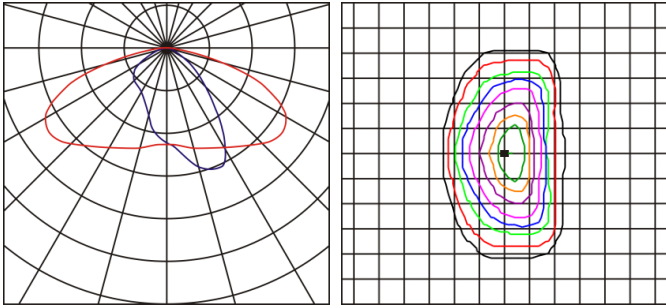
\*Consult your sales representative for the options, the lead time will be varied depending on the options selected.

\*White color is factory standard, custom colors are available upon request

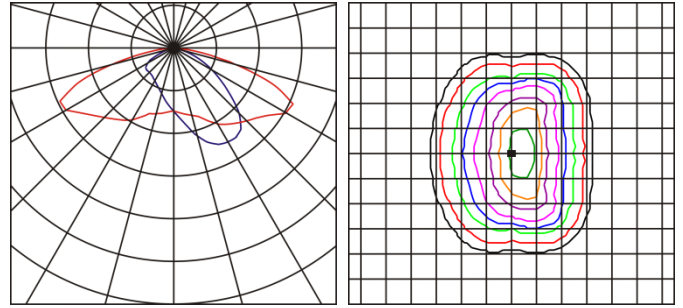
**Electrical Data:**

	Number of LEDs	LED drive current (mA)	Rated Power (W)	Total Current (Amp)		
				220V	230V	240V
LSI1	14	1050	50	0.23	0.22	0.21
		700	30	0.14	0.13	0.13
LSI2	28	1050	100	0.45	0.43	0.42
		700	60	0.27	0.26	0.25
LSI3	42	1050	150	0.68	0.65	0.63
		700	90	0.41	0.39	0.38
LSI4	56	1050	200	0.91	0.87	0.83
		700	120	0.55	0.52	0.50
LSI5	70	1050	250	1.14	1.09	1.04
		700	150	0.68	0.65	0.63
LSI6	84	700	180	0.82	0.78	0.75
LSI7	98	700	210	0.95	0.91	0.88
LSI8	112	700	240	1.09	1.04	1.00

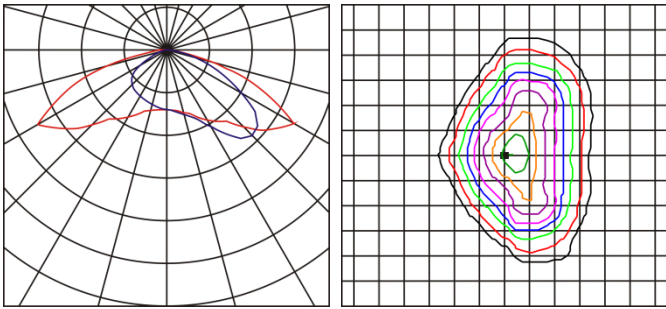
**Optical & Photometric Data**



TS is designed per IES Type II



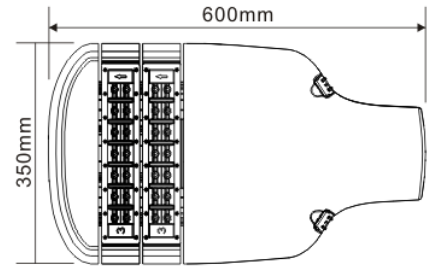
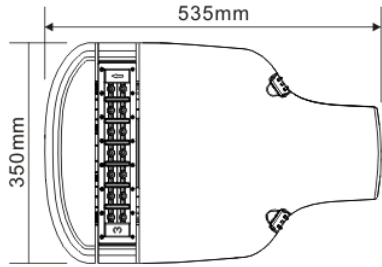
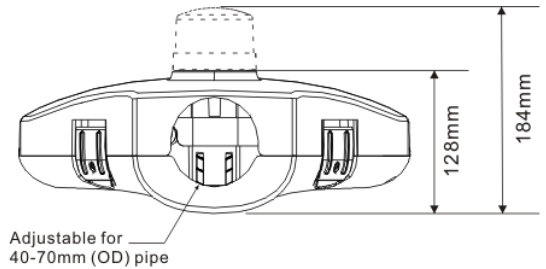
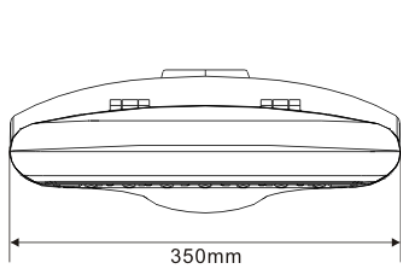
2S is designed per IES Type II



3M is designed per IES Type III

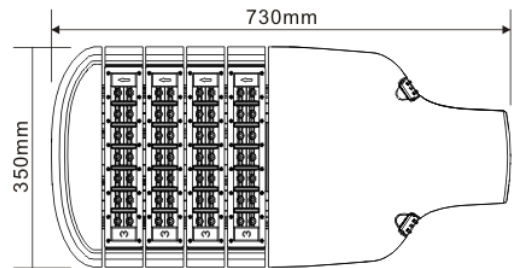
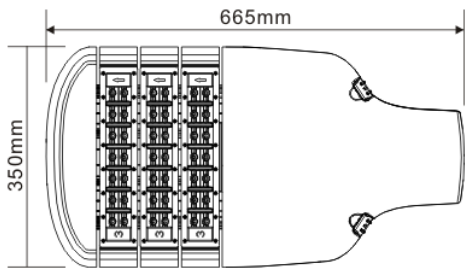
Cat. No.	Driver current (mA)	CCT	Rated Lumen (lm)	Rated Power (W)	Efficiency (LPW)	L70 @25 °C	Driver Life @25 °C
LSI1	1050	4000K/5000K	5000	50	100	>100,000h	>100,000h
LSI1	700	4000K/5000K	3400	30	110	>100,000h	>100,000h
LSI2	1050	4000K/5000K	10000	100	100	>100,000h	>100,000h
LSI2	700	4000K/5000K	6900	60	115	>100,000h	>100,000h
LSI3	1050	4000K/5000K	15000	150	100	>100,000h	>100,000h
LSI3	700	4000K/5000K	10350	90	115	>100,000h	>100,000h
LSI4	1050	4000K/5000K	20000	200	100	>100,000h	>100,000h
LSI4	700	4000K/5000K	14000	120	116	>100,000h	>100,000h
LSI5	1050	4000K/5000K	25500	250	102	>100,000h	>100,000h
LSI5	700	4000K/5000K	17700	150	118	>100,000h	>100,000h
LSI6	700	4000K/5000K	21200	180	118	>100,000h	>100,000h
LSI7	700	4000K/5000K	24400	210	116	>100,000h	>100,000h
LSI8	700	4000K/5000K	28300	240	118	>100,000h	>100,000h

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



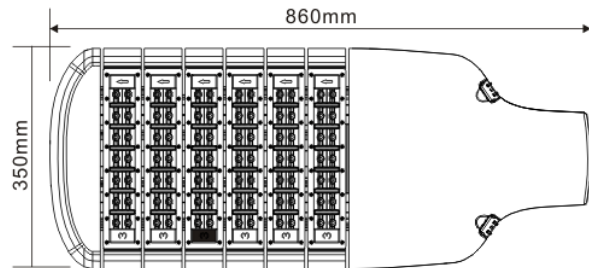
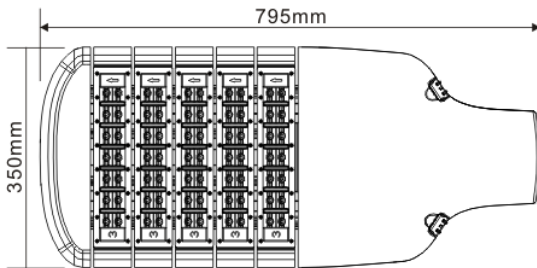
N.W.: 6.5kg(11.33lb)

N.W.: 7.4kg(16.31lb)



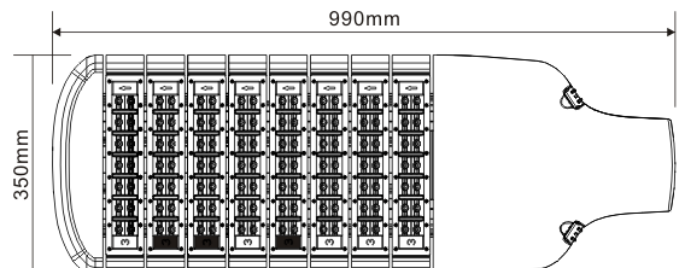
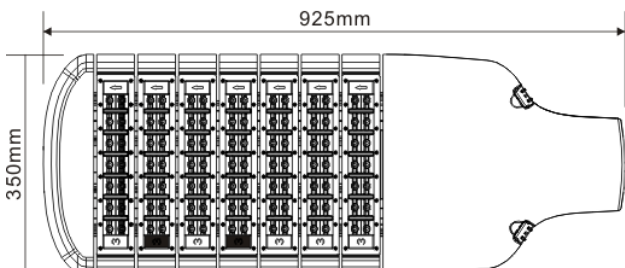
N.W.: 8.2kg(18.08lb)

N.W.: 9.1kg(20.06lb)



N.W.: 9.96kg(21.96lb)

N.W.: 11.4kg(25.13lb)



N.W.: 12.4kg(27.34lb)

N.W.: 13.2kg(29.1lb)

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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