

Cree VSL

VSL - LED Street/Area Luminaire

Rev. Date: 05 October 2020

Product Description

Designed with a lightweight, compact body the VSL series allows for an easy replacement of old traditional light sources and luminaires. Available in two different sizes sharing the same forward-looking appearance both lighting and economic performances in streetlighting applications are easy to reach with this affordable solution that can rapidly ensure a short term full payback.

Performance Summary

IP Rating: IP66

Efficacy: Up to 150 lm/W

Initial Colour consistency: ≤ 5 MacAdam steps

Limited Warranty: 5 years



Ordering Information

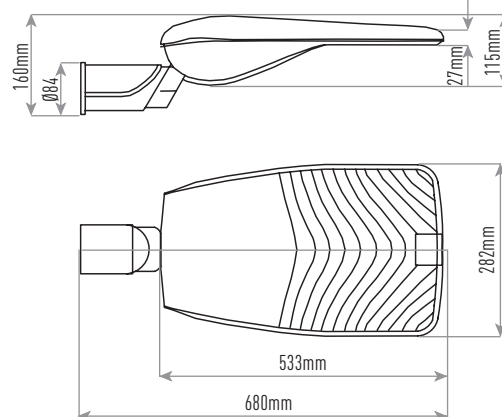
Example: VSL-02-210-A-30K-+-24-SV-DIM-S-01 - Example: VSL-B-02-210-A-30K-+-24-SV-DL-S-01

VSL	-	02	-	210	-	A	-	30K	-	+	-	24	-	SV	-	DIM	-	S	-	01
Product	Version	Mounting	Optic	Input Power	CCT	Insulation Class	Voltage	Finish	Options	Variant	Cable length									
VSL	-	02 horiz/vert tenon 60mm OD	-	210	-	A 30W	-	30K Ra70	-	+	-	24 220-240V	-	SV Silver	-	DIM Dimmable 0-10V VM Virtual midnight	-	S Standard N Nema 7pin	-	01 Exit cable 1mt
	B	03 horiz/vert tenon 76mm OD		275	B5 50W	^ Class 2										DL DALI				
				250	B 80W															
					A 30W															
					A4 40W															
					B5 50W															
					B 80W															

Dimensions

Ordering information is for reference only. Some product configurations are not available. Please consult us.

Weight: 6,8 kg



FEATURES

- Input Power: A = 30W, A4=40W, B5=50W, B = 80W
- Lumen output: 3900 – 12000lm
- System efficacy: Up to 150lm/W
- CRI Minimum 70
- CCT: 3000K, 4000K
- Initial Colour Consistency: ≤ 5 steps MacAdam
- Input Voltage: 220-240V
- Power factor: > 0.95 at full load
- Surge protection: 10kV surge immunity according to EN 61000-4-5 and EN 61547
- Operative temperature: -30°C up to +40°C
- Insulation class: Class I – Class II
- Degree of Protection IP66
- Impact resistance >IK8
- Cable type H07RN-F (Cable length 1mt)
- Control options: Dimming 1-10V, Virtual Midnight, DALI
- Knife Switch integrated for automatic power off
- Nema socket option available
- Input Power A L80B10 > 180Khrs according to EN 62717 and IESNA TM-21per LM80:08 / Input Power B L80B10 > 137Khrs according to EN 62717 e IESNA TM-21per LM80:08

CONSTRUCTION AND MATERIALS

- Die cast aluminum alloy treated with powder coating for strong anti-corrosion performance
- Tool-less entry
- Luminaire is designed to mount directly to 76mm or 60mm outer dimension tenons or poles and can be tilted +/- 15°

WARRANTY AND CERTIFICATIONS

- Limited Warranty: 5 years
- CE mark / CB mark / ENEC mark / RoHs compliant
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety (Tested IEC/TR62778)
- Luminaire and finish endurance tested to withstand 2,500 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Compliant to: EN 60598-1; EN 60598-2-3

ELECTRICAL DATA*

Input Power Designator	System Watts 220-240V	Total Current	Power Factor
		@230V, 50Hz	
A	30W	0,14 A	0,96
A4	40W	0,185 A	0,96
B5	50W	0,22 A	0,97
B	80W	0,36 A	0,97

* Electrical data at 25°C (77°F)

RECOMMENDED CREE® OUTDOOR LUMINAIRE LUMEN MAINTENANCE FACTORS (LMF)¹

Ambient	Input Power Designator	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
Minimum Operative Temperature -40°C/-30°C	A	1,02	0,99	0,97	0,96	0,94
	B	1,04	0,99	0,95	0,92	0,89
-20°C	A	1,02	0,99	0,97	0,96	0,94
	B	1,04	0,99	0,95	0,92	0,89
0°C	A	1,01	0,98	0,96	0,95	0,93
	B	1,03	0,98	0,94	0,91	0,88
15°C	A	1,00	0,97	0,95	0,94	0,92
	B	1,01	0,96	0,92	0,89	0,86
25°C	A	1,00	0,97	0,95	0,94	0,92
	B	1,00	0,95	0,92	0,89	0,85
Maximum Operative Temperature 40°C/35°C (B)	A	0,98	0,94	0,92	0,90	0,88
	B	0,99	0,92	0,88	0,84	0,80

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip³ According with TM-21 the projected value can be just up to 6x time the test time**WEIGHT AND MAXIMUM WIND AREA**

Weight	Lateral Surface Wind Exposed
6.8 kg	0.049m ²



Control options - Input Power Designator

VIRTUAL MIDNIGHT						
Setting	System Watts W (High Mode)	Nominal flux (lm)		System Watts W (Low Mode)	Nominal flux (lm)	
		3000K	4000K		3000K	4000K
Input Power A	30	4854	5004	21	3320	3423
Input Power A4	40	6121	6310	28	4530	4670
Input Power B5	50	7375	7603	35	5596	5769
Input Power B	80	11255	11603	56	8154	8407

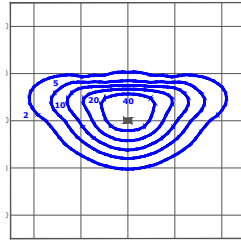
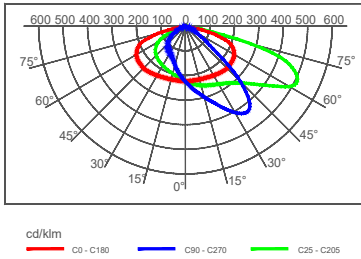
*Other Setting Options are available. For more information, contact Cree Lighting Europe.



Photometry

All published luminaire photometric testing performed to standards by an external certified laboratory.
To obtain an IES file specific to your project consult: <http://www.creelighting-europe.com>

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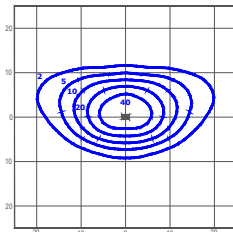
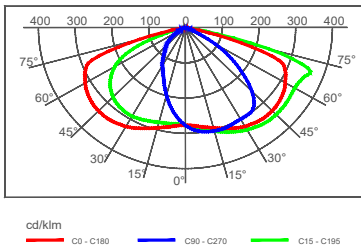


lux
 VSLB02210B40K_24 - R09601
 Mounting Height: 6m

LUMEN OUTPUT - 210		
Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4296	4365
A4	5646	5742
B5	6812	6919
B	10043	10559

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

275

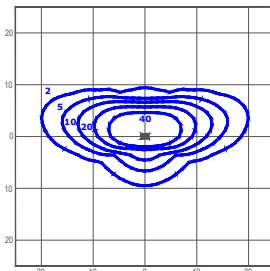
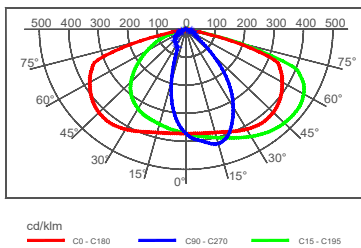


lux
 VSLB02275B440K_24 - R09603
 Mounting Height: 6m

LUMEN OUTPUT - 275		
Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4361	4453
A4	5760	5785
B5	7031	7143
B	10242	10720

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

250



lux
 VSLB02250B440K_24 - R09602
 Mounting Height: 6m

LUMEN OUTPUT - 250		
Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4338	4407
A4	5711	5793
B5	6931	7034
B	10271	10688

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens