

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

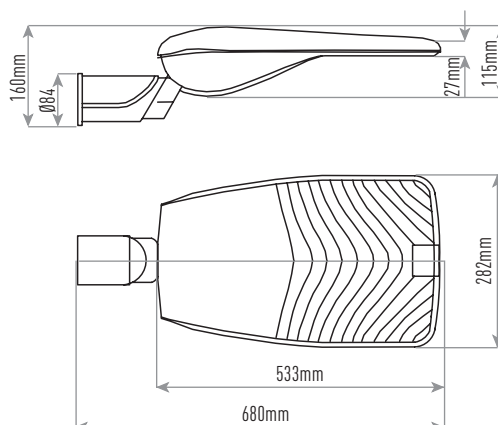
Example: VSL-02-210-A-30K-+-24-SV-DIM-S-01

VSL	-	02	-	210	-	A	-	30K	-	+	-	24	-	SV	-	DIM	-	S	-	01
Product		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
		03 horiz/vert tenon 76mm OD		275		B5 50W		40K Ra70		^ Class 2										
				250		B 80W														

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

Dimensions

Weight: 6,8 kg



VSL - LED Street/Area Luminaire

FEATURES

- Input Power: A = 30W, 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 in Class I / 7kV in class II
- Operative temperature: -30°C up to +40°C
- Insulation class: Class I – Class II
- Enclosure rated IP66 per IEC 60529
- Impact resistance IK08
- Cable type H07RN-F (Cable length 1mt)
- Control options: Dimming 1-10V, Virtual Midnight
- Knife Switch integrated for automatic power off
- Nema socket option available
- Input Power A L80B10 > 180Khrs according to EN 62717 and IESNA TM-21 per LM80:08 / Input Power B L80B10 > 137Khrs according to EN 62717 e IESNA TM-21 per 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
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 testing

² 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 chip

³ 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

VSL - LED Street/Area Luminaire

Control options - Input Power Designator A - B5 - B

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	4337	4449	21	3171	3253
Input Power B5	50	7272	7460	35	5532	5675
Input Power B	80	10733	11011	56	8072	8280

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

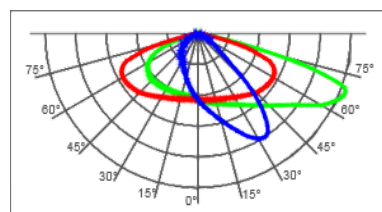


VSL - LED Street/Area Luminaire

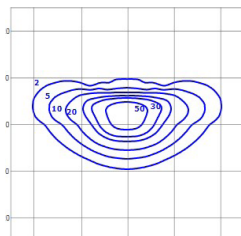
Photometry

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>

210



cd/klm
C0 - C180 C90 - C270 C15 - C195



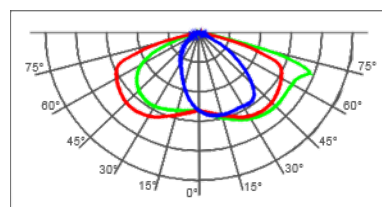
lux
VSL02210B40K_24-R09601
Mounting Height: 6m

LUMEN OUTPUT - 210

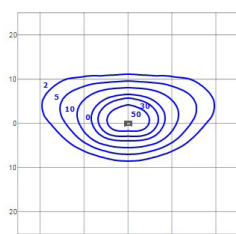
Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4146	4253
B5	6493	6660
B	9583	9831

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

275



cd/klm
C0 - C180 C90 - C270 C15 - C195



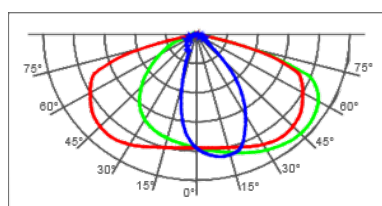
lux
VSL02275B40K_24-R09603
Mounting Height: 6m

LUMEN OUTPUT - 275

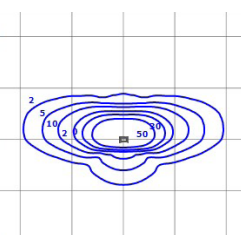
Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	3992	4096
B5	6583	6753
B	9716	9967

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

250



cd/klm
C0 - C180 C90 - C270 C15 - C195



lux
VSL02275B40K_24-R09602
Mounting Height: 6m

LUMEN OUTPUT - 250

Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4246	4356
B5	6493	6660
B	9583	9831

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