

VSL HO

VSL HO - 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

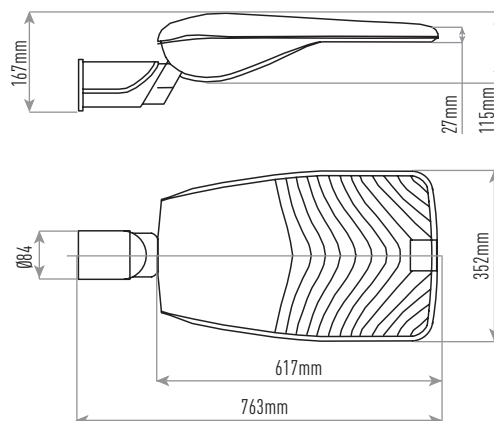
Example: VSL-02-210-C-30K-+-24-SV-DIM-S-01 - Example: VSL-B-02-210-C-30K-+-24-SV-DL-S-01

VSL	-	02	-	210	-	C	-	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	-	C 120W	-	30K Ra70	-	+ Class 1	-	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		D 150W		40K Ra70		^ Class 2						DL DALI				
				250		C 120W D 150W														

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

Dimensions

Weight: 9,2 kg



FEATURES

- Input Power: C = 120W, D = 150W
- Lumen output: 15000 – 18000lm
- 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 (+35°C Input D)
- Insulation class: Class I – Class II
- Optical Protection Degree IP66
- Wiring Degree of Protection IP66
- Impact resistance >IK8
- Impact resistance (Optics) >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
- Lifetime: L80B10 137Khrs according to EN62717 e IESNA TM-21

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	
C	120W	0,54 A	0,97
D	150W	0,67 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	C	1,04	0,99	0,96	0,93	0,89
	D	1,04	0,99	0,96	0,93	0,89
-20°C	C	1,04	0,99	0,96	0,93	0,89
	D	1,04	0,99	0,96	0,93	0,89
0°C	C	1,02	0,97	0,94	0,91	0,87
	D	1,02	0,97	0,94	0,91	0,87
15°C	C	1,01	0,96	0,93	0,90	0,86
	D	1,01	0,96	0,93	0,90	0,86
25°C	C	1,00	0,95	0,92	0,89	0,85
	D	1,00	0,95	0,92	0,89	0,85
Maximum Operative Temperature 40°C/35°C (D)	C	0,99	0,92	0,88	0,84	0,80
	D	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 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
9.2 kg	0.057m ²



Control options - Input Power Designator C - D

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 C	120	18003	18559	84	13324	13736
Input Power D	150	21508	22173	105	16860	17381

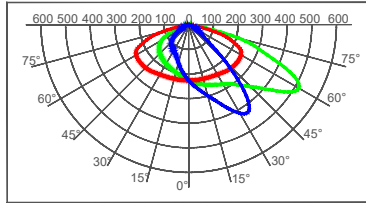
*Other Setting Options are available. For more informations please, contact Cree Lighting Europe



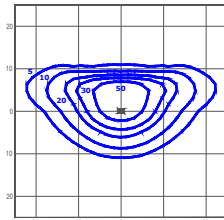
Photometry

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>

210



cd/klm
— C0 - C180 — C90 - C270 — C25 - C205

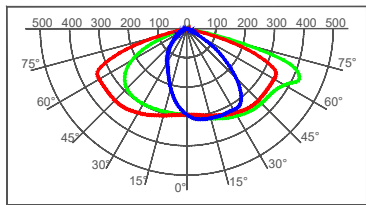


lux
VSLB02210D40K_24 - R17602
Mounting Height: 8m

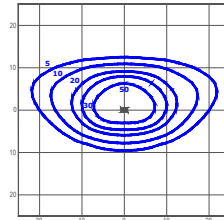
LUMEN OUTPUT - 210		
Input Power Designator	3000K	4000K
		Initial Delivered Lumens*
C	16090	16889
D	19144	19773

* 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

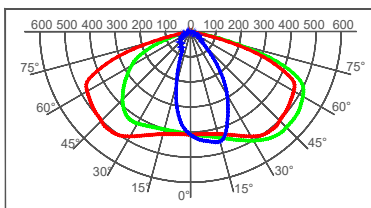


lux
VSLB02275B440K_24 - R09603
Mounting Height: 8m

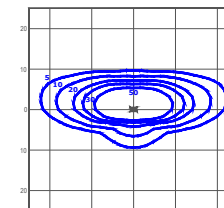
LUMEN OUTPUT - 275		
Input Power Designator	3000K	4000K
		Initial Delivered Lumens*
C	16236	17151
D	20720	20583

* 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 — C10 - C190



lux
VSLB02250D40K_24 - R17603
Mounting Height: 8m

LUMEN OUTPUT - 250		
Input Power Designator	3000K	4000K
		Initial Delivered Lumens*
C	16235	16890
D	20166	21367

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