SEGA.M
LIGHTING SOLUTIONS

Rocky

LED Street Lighting Luminaire for main roads and urban communities

Versatile, modular and highly adaptable

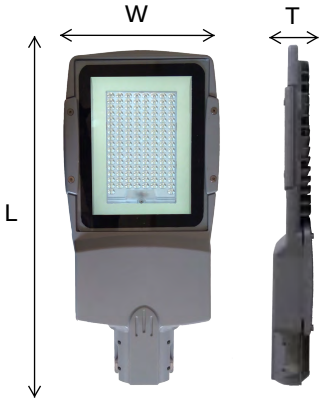
Suitable for both new installations and retrofitting

105W
4000°K
150 Lm/W
IP65



Physical Specifications

Mass	4.25kg
Dimensions	L 500m*W 240mm* T 55mm
Body	Electrostatically coated die cast Aluminum,
Emitting Surface	PMMA Lenses/Tempered glass clear diffuser
Ingression Protection	IP65
Mechanical Impact resistance	IK08
Mounting	Pole arm up to 60mm, bolt tightened clamp
Running temperature	-20 to 45°C



Lifetime

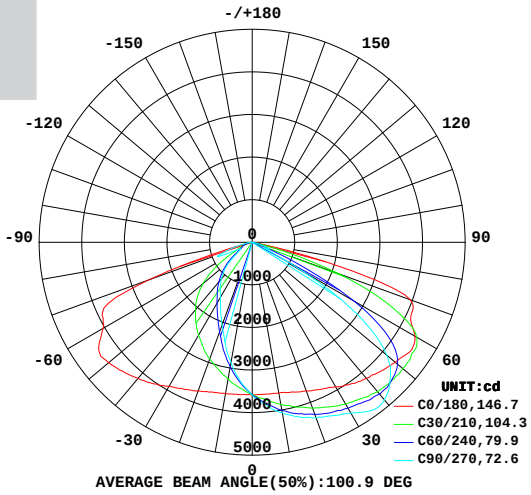
@ Running temperature	50°C is 50,000 hours (Tested by Cairo university Faculty of engineering Energy research center according to IEC standards)

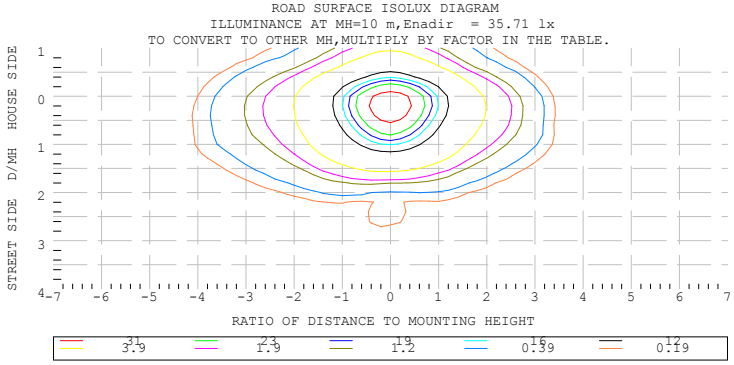
Through fine selection of body material and die casting technology mechanical strength is ensured even against worst of conditions while in the same time providing good heat dissipation maintaining LED life. High quality lenses offer sustained chromatic and photometric properties without compromising strength or hardness. Extra Shield of tempered glass adds even more strength plus chemical stability and invulnerability against extreme harsh weather conditions of highly polluted or high speed wind dust environments

Photometric Characteristics

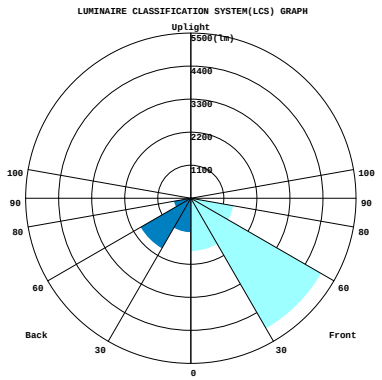
Light Source	SMD LEDs 3030
Efficacy	150 Lm/W
LOR	0.763
SLI	18.666

High efficiency LEDs with precisely selected driver provide high efficacy.
Perfectly selected Lenses provide best street lighting characteristics, uniform lighting along with no gaps in between the poles, no unnecessary spread losses and good surrounding illumination.
Can easily achieve illumination class requirements for A1-6 and S1-6 Classes for Urban/Suburban areas, along with ME4A for Motorized roads.



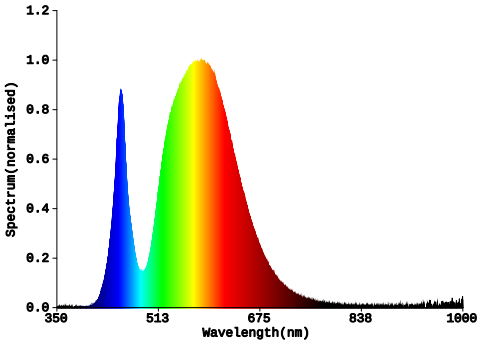


HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

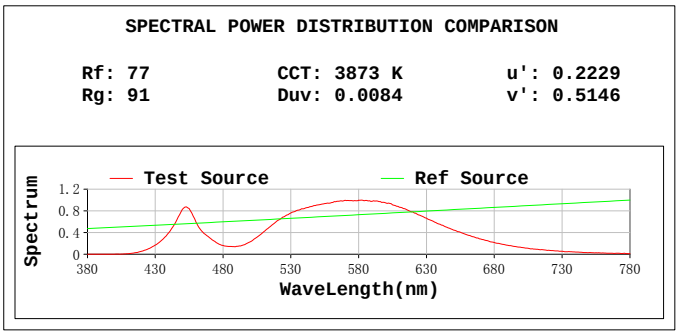


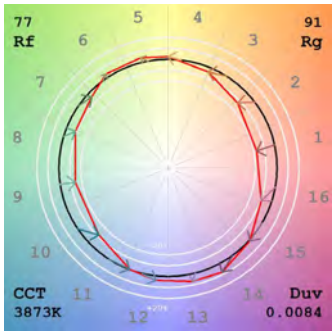
Color Spectrometry

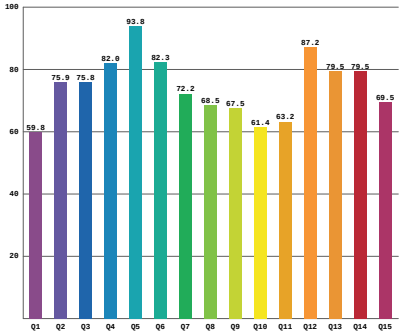
Correlated Color temp.(CCT)	3873°K (Neutral white/daylight)
Dominant Wavelength	576.1nm
Color Rendering index (Ra)	71.2
TM-30 Fidelity Index (Rf)	77
TM-30 Gamut Index (Rg)	91
CQS Qa	72.84
CQS TLCI	44
CQS	72

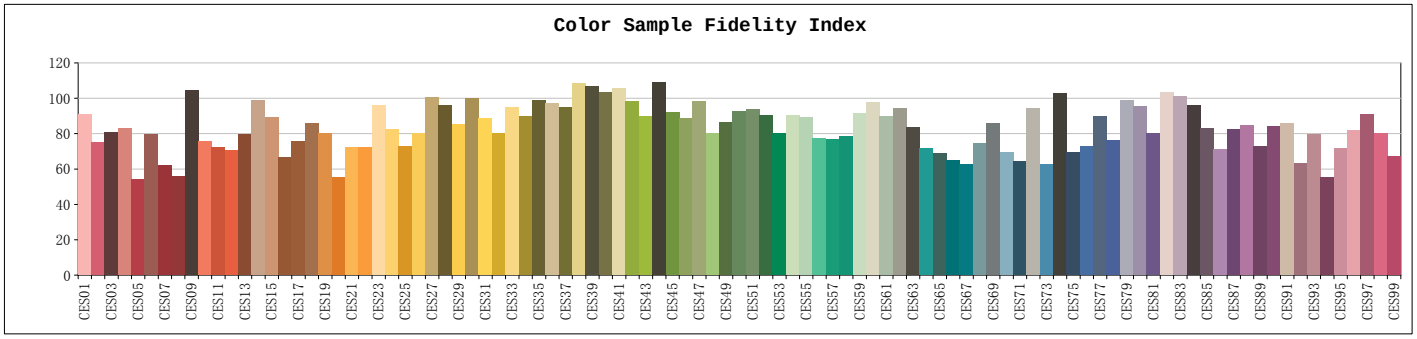


Owing to rich color nature of LEDs used, realistic color rendering is achieved offering correct and precise identification of colors while achieving eye comfort at the same time.



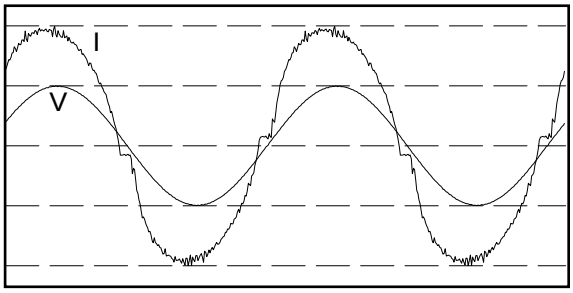




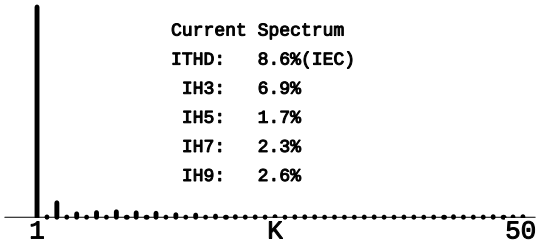


Electrical Parameters

Typical power supply	220VAC, 50Hz
Supply Limits	180-295VAC, 50/60Hz
Power	60-150W (105W Def.)
Current	0.478 A (RMS)
Power Factor	0.986
Total Harmonic distortion (THDI)	9.6%
Withstand voltage	2KVAC IP/FG
Short circuit / over temperature	Protected, self restart



Due to using high frequency PWM drivers, good electrical properties are achieved for both the grid (minimum distortion and continuous operation even against extreme conditions) and the LEDs (stable current supply independent of grid conditions).
Also running the LEDs on high frequency DC pulse wave provides best light vs. thermal performance and guarantees eye comfort (compared to classical gas discharge lighting running on grid frequency)



Art. no.	Type	Power	CCT
ROCKYN-SMD105240--	Rocky LED Street Luminaire	105W	4000°K



Your ultimate solution for main roads and urban communities lighting

Sources for software simulation for installation (*.IES, *.LDT files) and advanced test results are available on request
Performance described above requires proper installation according to internationally recognized codes and within mentioned operational limitations.
Any properties not directly affecting photometric, spectrometric or electrical performance are liable to change without prior notice.

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