SEGA.M
LIGHTING SOLUTIONS

Pacific



Super heavy-duty
street lighting luminaire for
highways, main roads and
streets
and harsh areas

Sophisticated design with
extreme safety margins,
wide power range and
future development
capability

Suitable for both
new installations
and retrofitting

105W
4000°K
143 Lm/W
IP66

Physical Specifications

Mass	10.45kg
Dimensions	L 740mm*W 325mm* T 120mm
Body	Electrostatically coated die cast Aluminum
Emitting Surface	PMMA Lenses + tempered glass shield
Ingression Protection	IP66
Mechanical Impact resistance	IK08
Mounting	Pole arm up to 60mm, direct bolt tightening adjustable +/-15°
Running temperature	-20 to 45°C

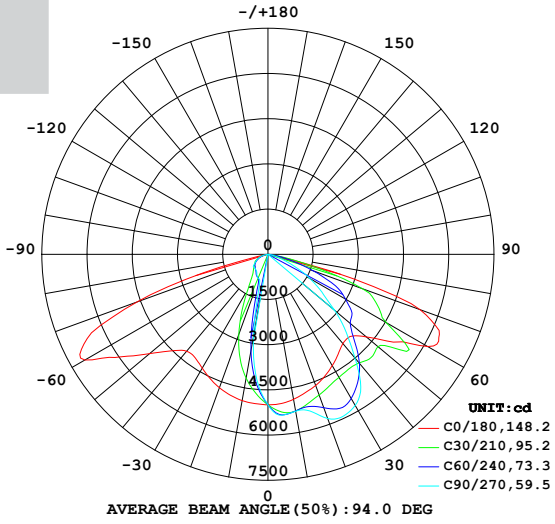


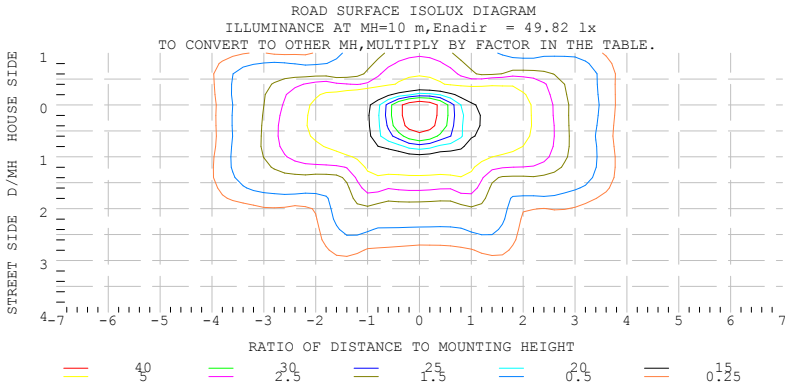
Through fine selection of body material and die casting method, mechanical strength is ensured even against worst of conditions while in the same time providing good heat dissipation maintaining LED life. High quality lenses offer sustained chromatic and photometric properties without compromising strength 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. Modular body design allows part exchange. An eye on the future design is a concept realized through a Large heat sink design covering even more than maximum power, along with large driver box allowing variety of devices including upcoming technologies like master control and communication through wireless channels

Photometric Characteristics

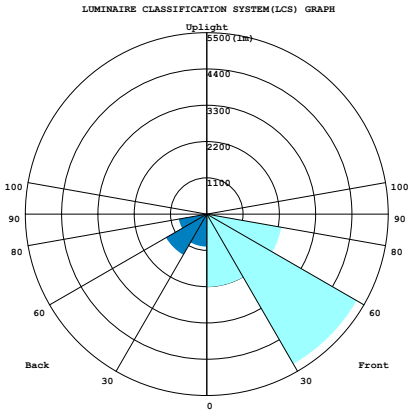
Light Source	SMD LEDs 3030 OSRAM
Efficacy	143 Lm/W
LOR	0.86
SLI	18.617

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 entire ME class along with A1-6 and S1-6 Classes for urban / suburban areas



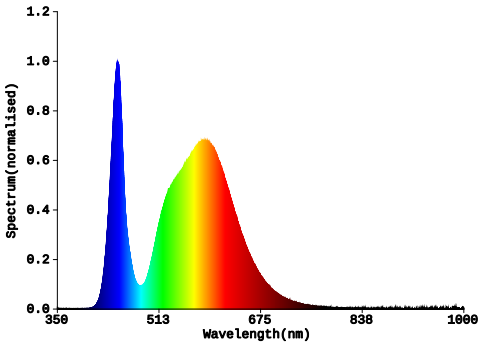


HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

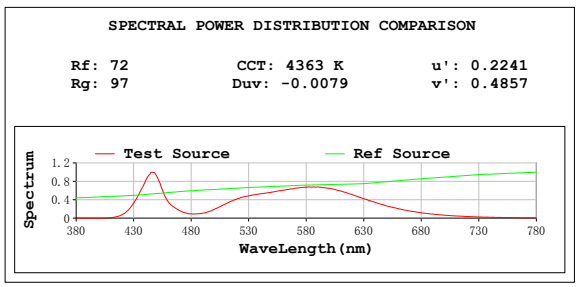


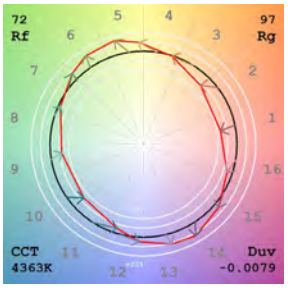
Color Spectrometry

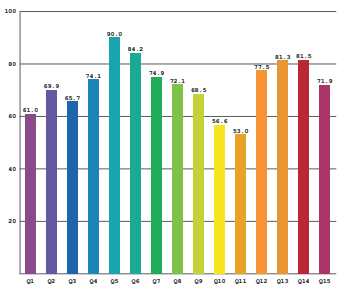
Correlated Color temp.(CCT)	4363°K (Daylight)
Dominant Wavelength	585.8nm
Color Rendering index (Ra)	74
TM-30 Fidelity Index (Rf)	72
TM-30 Gamut Index (Rg)	97
CQS Qa	70.43
CQS TLCI	46
CQS	66.9

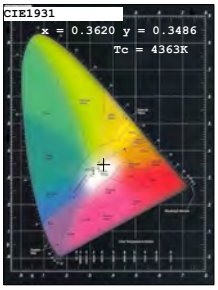


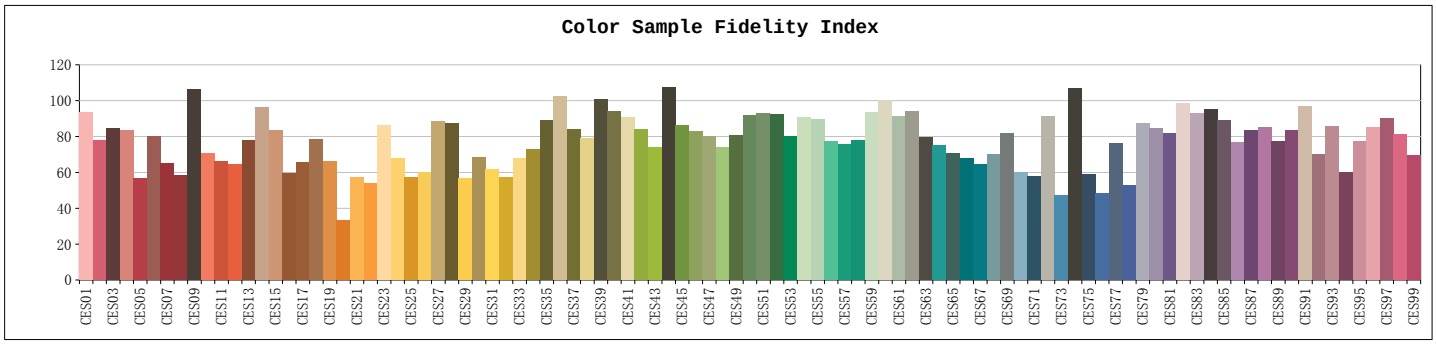
Owing to rich color nature of LEDs used, realistic color rendering is achieved offering correct and precise identification of colors while achieving eye comfort at the same time.





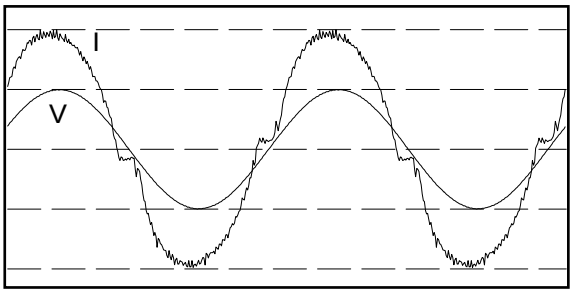




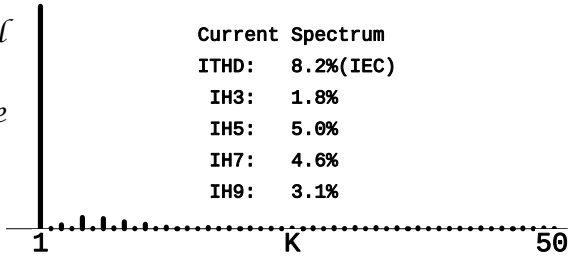


Electrical Parameters

Typical power supply	220VAC, 50Hz
Supply Limits	180-295VAC, 50/60Hz
Power	105W
Current	0.489 A (RMS)
Power Factor	0.986
Total Harmonic distortion (THDI)	8.2%
Withstand voltage	2KVAC IP/FG
Short circuit / over temperature	Protected, self restart
Physical Protection	Driver cover Electromechanical power supply interlock



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
PACIFIC-SMD105240--	Pacific LED Street Luminaire	105W	4000°K



The Crown Jewel of Sega-M Street lighting solutions.

Super heavy duty performance for all applications

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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