

Lamina

LED Street Lighting
Luminaire for Urban
and Suburban
communities

Versatile, modular
and highly
adaptable

Suitable for both
new installations
and retrofitting

60-105W
100 Lm/W
IP65



Physical specifications

Mass	: 1.29kg
Dimensions	: L 534mm*W 182mm* T 65mm
Body	: Die Cast Aluminum, Electrostatically coated
Emitting Surface	: PMMA Lenses
Ingression Protection	: IP65
Mechanical Impact resistance	: IK08
Mounting	: Pole arm up to 55mm,bolt tightened clamp
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. Light weight and slim for factor offer ease of installation and low mechanical stress on old retrofitting installations. High quality lenses offer sustained chromatic and photometric properties without compromising strength or hardness.

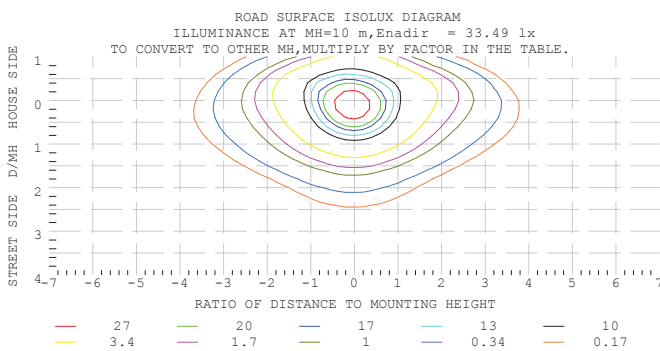
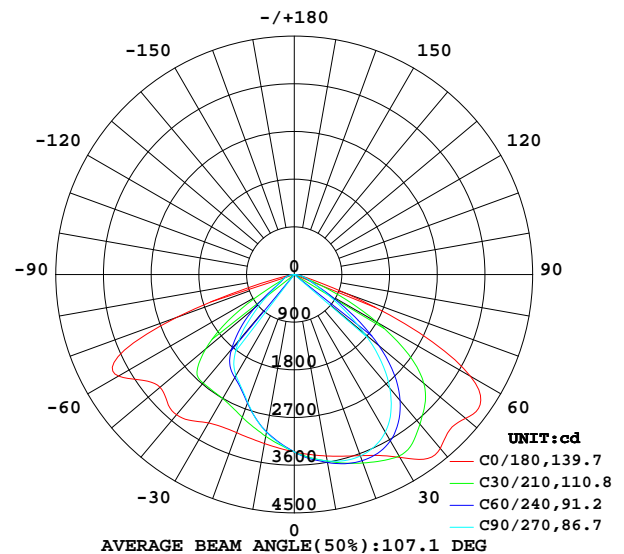
Photometric Characteristics

Light Source	: SMD LEDs 2835
Total Luminous flux	: 10000 Lumen (+/-3%) @ 100W
Efficacy	: 100 Lm/W
SLI	: 17.909

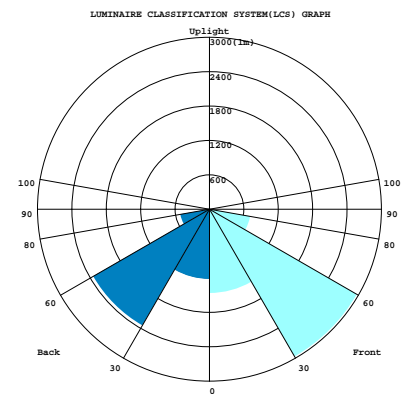
High efficiency LEDs with precisely selected driver provide high efficacy.

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.



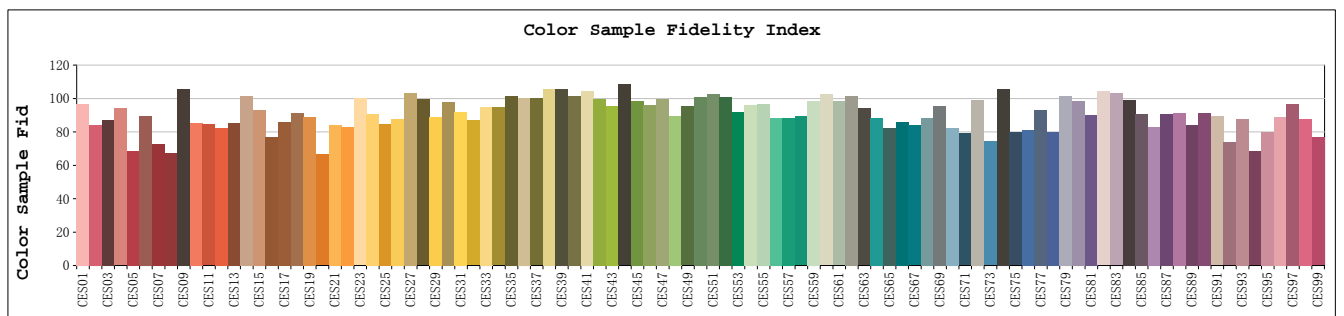
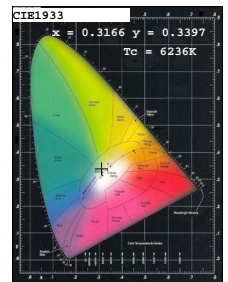
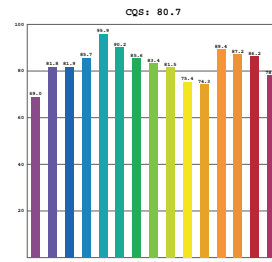
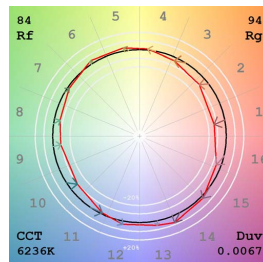
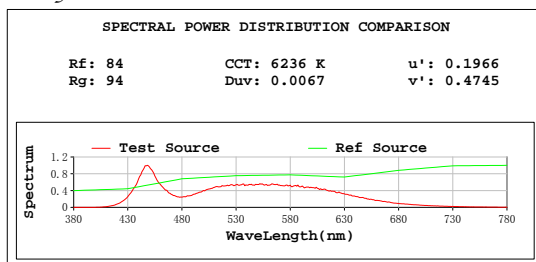
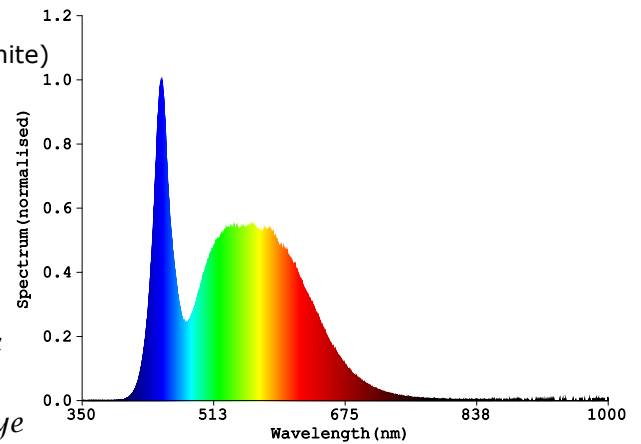
HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391



Spectrometry

Correlated Color Temperature(CCT)	: 6236°K (Pure white)
Dominant Wavelength	: 496.6nm
Color Rendering index (Ra)	: 81.6
TM-30 Fidelity Index (Rf)	:84
TM-30 Gamut Index (Rg)	: 94
CQS Qa	: 81.79
CQS TLCI	: 71
CQS	: 80.7

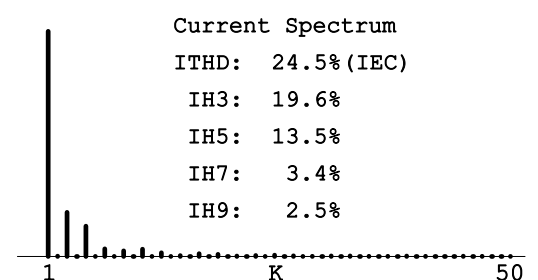
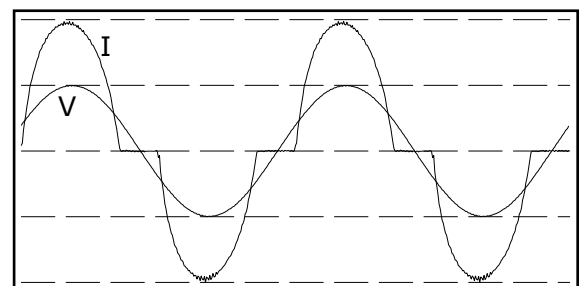
Owing to rich color nature of LEDs used, realistic colorbrendering is achieved offering correct and precisebidentification of colors while achieving eye comfort atbthe same time.



Electrical Parameters

Typical power supply	: 220VAC, 50Hz
Supply Limits	: 170-400VAC, 50/60Hz
Power	: 60-105W (100W Def.)
Current	: 0.472 A (RMS)
Power Factor	: 0.969
Total Harmonic distortion (THDI)	:24.5%
Surge Protection	: 4kV

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.

STLS1-SMD10026001

Lamina1 LED Street Luminaire

100W

6000°K



Your ultimate solution
for urban and
suburban
street lighting



Sega-M Warranty : 3 years
Extended warranty : Optional

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.

Sega-M Electrical Products

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