SEGA.M®

ELECTRICAL PRODUCTS

Ikthus

Shield SOLAR

LED Street Lighting Luminaire for main roads, urban communities and highly polluted facilities

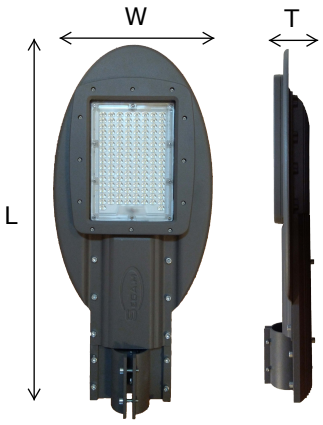
Versatile, modular and highly adaptable

Suitable for both new installations and retrofitting

60-105W
114 Lm/W
IP65

Physical specifications

Mass	: 5.19kg
Dimensions	: L 625mm*W 280mm* T 80mm
Body	: Electrostatically coated Aluminum, die cast+ Press formed sheet + sections
Emitting Surface	: PMMA Lenses + tempered glass shield
Ingression Protection	: IP65
Mechanical Impact resistance	: IK08
Mounting	: Pole arm up to 60mm, bolt tightened clamp
Running temperature	: -20 to 45°C

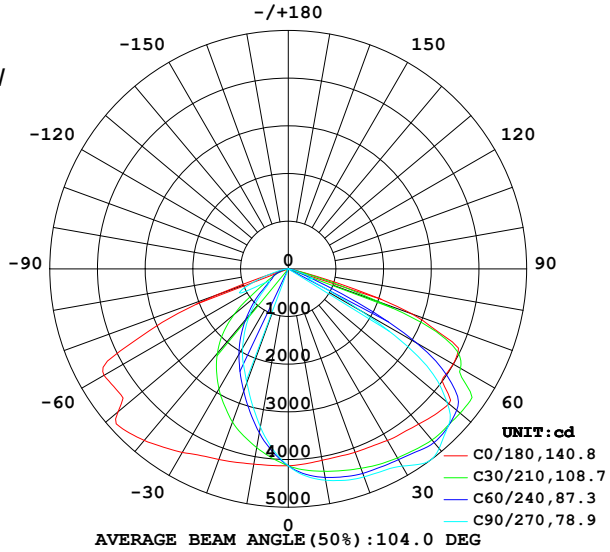


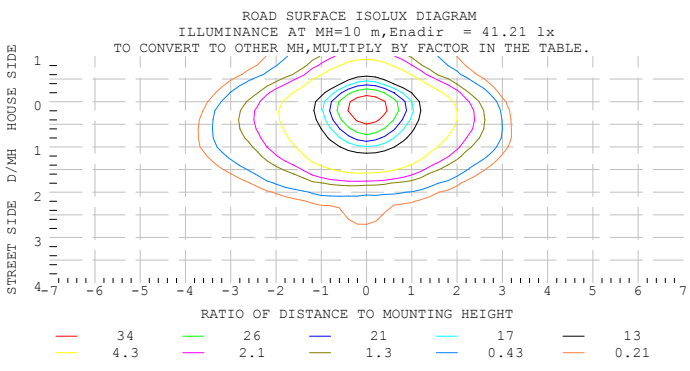
Through fine selection of body material and combination of die casting, Press forming sections mechanical strength is ensured even against worst of conditions while in the same time providing good heat dissipation maintaining LED life. High quality lenses offer sustained chromatic and photometric properties 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

Photometric Characteristics

Light Source	: SMD LEDs 3030
Total Luminous flux	: 12000 Lumen (+/-1%) @ 105W
Efficacy	: 114 Lm/W
SLI	: 17.484

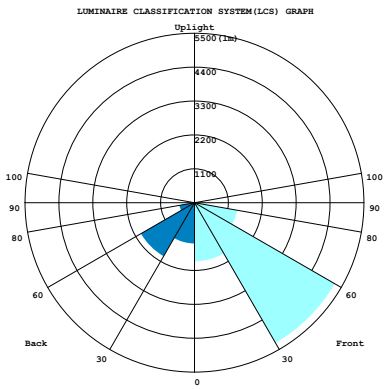
High efficiency LEDs with precisely selected driver provide high efficacy.
Perfectly selected Lenses provide best street lighting characteristics, uniform lighting along with no gaps in between the poles, no unnecessary spread losses and good surrounding illumination.
Can easily achieve illumination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





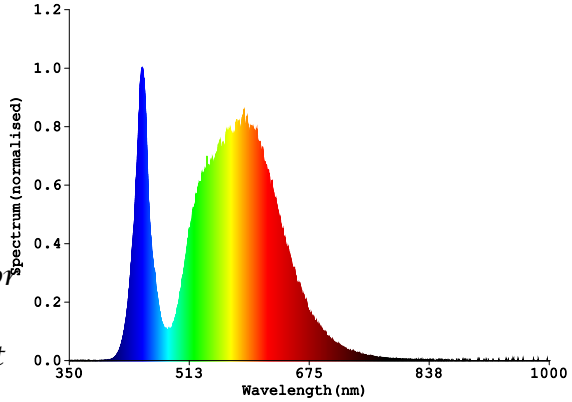
According to LB/T001-2008:
U = Emin/Eavg = 0.199
Eavg = 33.73 lx

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

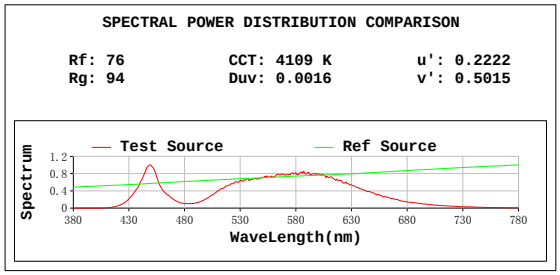


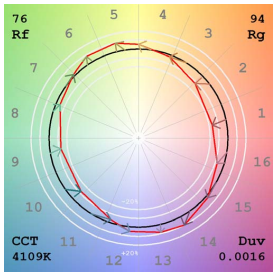
Spectrometry

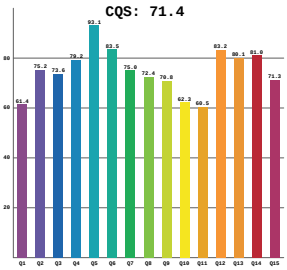
Correlated Color Temperature(CCT)	: 4100°K (Neutral white/daylight)
Dominant Wavelength	: 577.8nm
Color Rendering index (Ra)	: 73.5
TM-30 Fidelity Index (Rf)	:76
TM-30 Gamut Index (Rg)	: 94
CQS Qa	: 73.37
CQS TLCI	: 50
CQS	: 71.4

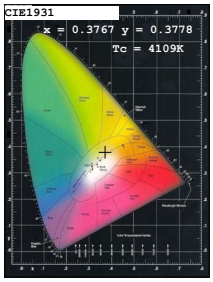


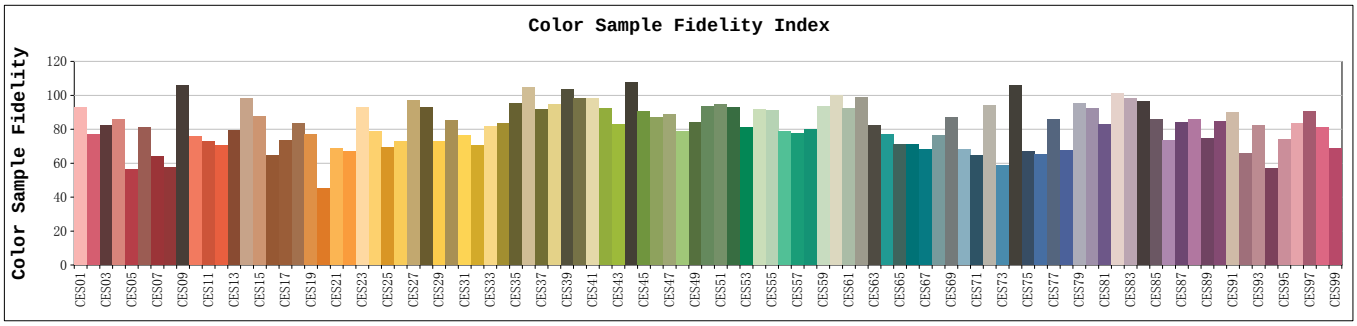
Owing to rich color nature of LEDs used, realistic color rendering is achieved offering correct and precise identification of colors while achieving eye comfort at the same time.











Electrical Parameters

Typical power supply	: 30VDC
Current	: 3.3 A @ 100W (RMS) 2A @ 60W (RMS)
Driver capabilities	: Auto Light cycle control with no extra components. Programmable power VS. time. Smart battery life saving

Due to using high frequency PWM drivers, good electrical properties are achieved for the LEDs (stable current supply independent of 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)

Your ultimate solution for main roads, urban communities and highly polluted facilities

Sega-M Warranty : 5 years

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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