

Ikthus

LED Street Lighting
Luminaire for main
roads and urban
communities

Versatile, modular
and highly
adaptable

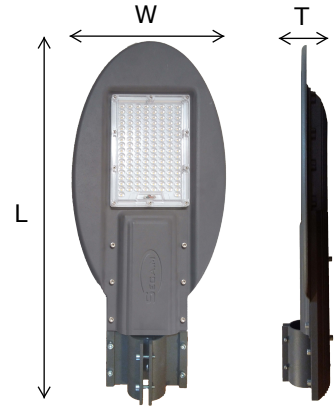
Suitable for both
new installations
and retrofitting

60-130W
128 Lm/W
IP65



Physical specifications

Mass	: 3.65kg
Dimensions	: L 625mm*W 280mm* T 65mm
Body	: Electrostatically coated Aluminum, die cast+ Press formed sheet + sections
Emitting Surface	: PMMA Lenses
Ingression Protection	: IP65
Mechanical Impact resistance	: IK08
Mounting	: Pole arm up to 60mm, bolt tightened clamp
Running temperature	: -20 to 45°C

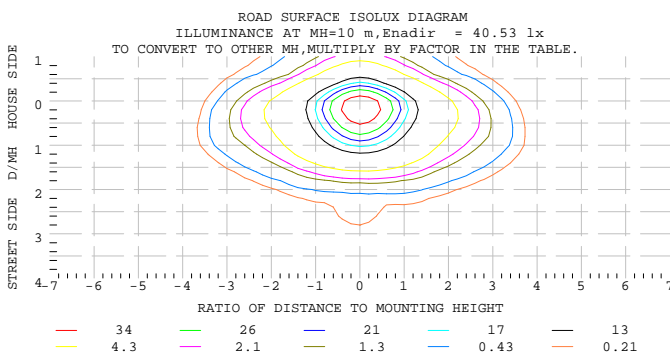
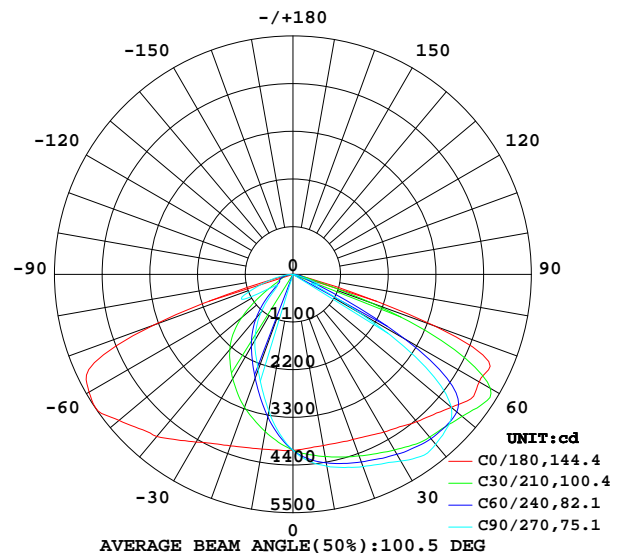


Through fine selection of body material and combination of die casting, Press forming sections mechanical strength is ensured even against worst of conditions while in the same time providing good heat dissipation maintaining LED life. High quality lenses offer sustained chromatic and photometric properties without compromising strength or hardness.

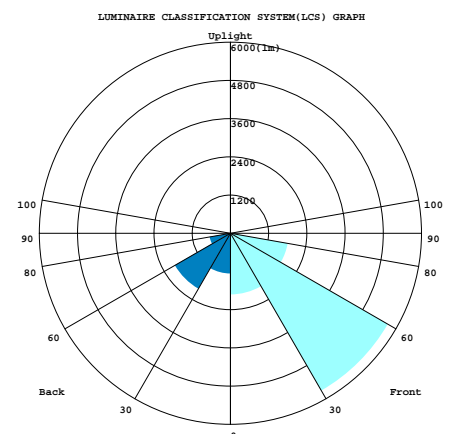
Photometric Characteristics

Light Source	: SMD LEDs 3030
Total Luminous flux	: 13440 Lumen (+/-1%) @ 105W
Efficacy	: 128 Lm/W
SLI	: 18.566

*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.*



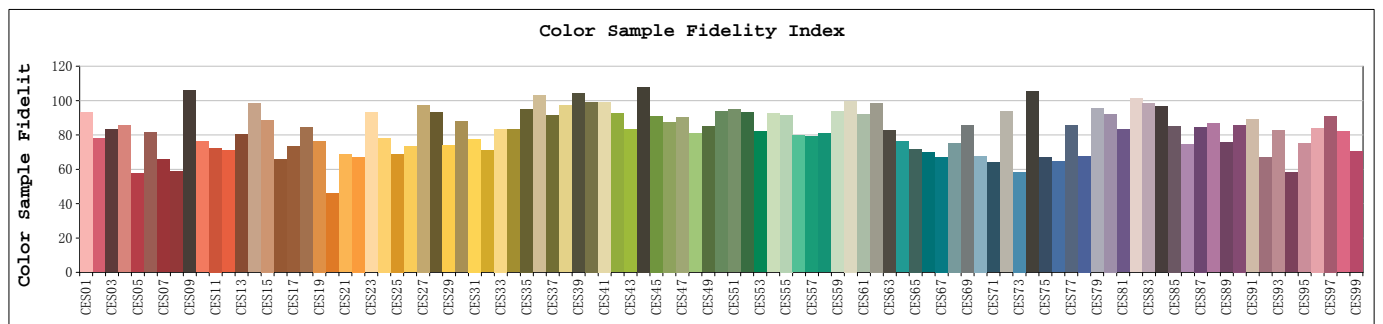
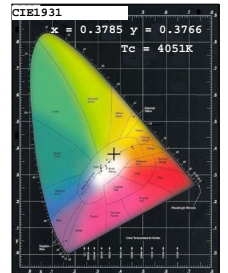
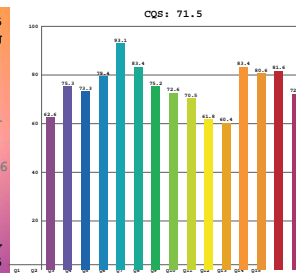
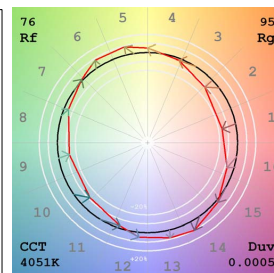
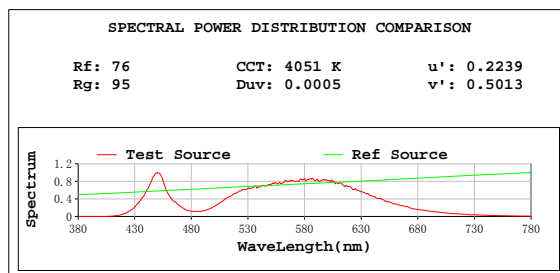
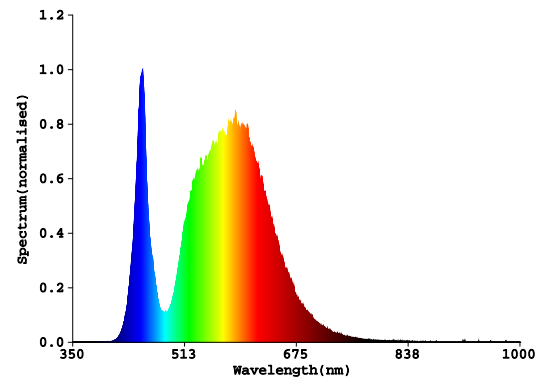
According to LB/T001-2008:
U = Emin/Eavg = 0.219
Eavg = 35.55 lx



Spectrometry

Correlated Color Temperature(CCT)	: 4051°K (Neutral white/daylight)
Dominant Wavelength	: 578.6nm
Color Rendering index (Ra)	: 74.1
TM-30 Fidelity Index (Rf)	: 76
TM-30 Gamut Index (Rg)	: 95
CQS Qa	: 73.54
CQS TLCI	: 49
CQS	: 72.3

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.

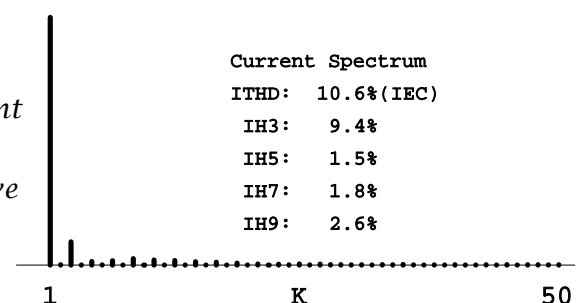
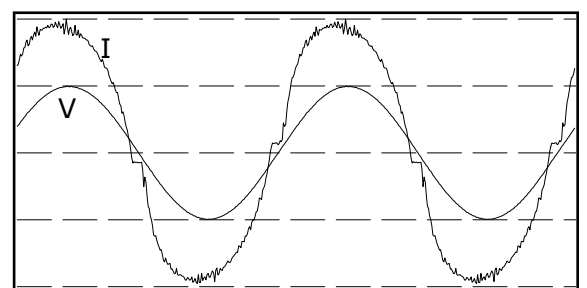


Electrical Parameters

Typical power supply	: 220VAC, 50Hz
Supply Limits	: 180-295VAC, 50/60Hz
Power	: 60-105W (105W Def.)
Current	: 0.486 A (RMS)
Power Factor	: 0.985
Total Harmonic distortion (THDI)	: 10.6%
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)



Current Spectrum

ITHD: 10.6% (IEC)

IH3: 9.4%

IH5: 1.5%

IH7: 1.8%

IH9: 2.6%

Art. No.

IKTHUS-SMD10524001

Ikthus LED Street Luminaire

105W

4000°K

Your ultimate solution
for main roads and
urban communities



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.

Sega-M Electrical Products

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