

Photometric Measurement Report

Generated by Radiant Vision Systems Light Measurement Platform

Luminaire Model	L SU2811002		
Led & Driver Type	SAMSUNG	5630	& TRIDONIC -
Luminaire Type	SURFACE MOUNTED		
Luminaire Family	MARKT		
Holder	-		
Reflector / Lens Degree	120		
Brand	LAMP 83		
Date of issue	12.10.2018		

Test Standards

EN 13032-1:2012 and EN 13032-4:2013 Light and Lighting. Measurement and presentation of photometric data of lamps and luminaires

IESNA LM-79-08 Approved Method: Electrical and Photometric Measurements of SSL Products(Type-C)

Test and Test Method

The photometric measurements listed in this report are performed by a Radiant Vision Systems PM-NFMS™ near field goniometer system. The NFMS system performs brightness and color measurements as a function of viewing angle. It provides accurate near-field luminance distribution data and generates far field distribution data.

Test Equipment

Name	Serial / Version
The PM-NFMS™ system consists of a PM-Series™ Imaging Colorimeter IC-PMI2	SN# 79046501
NFMS 800 two-axis goniometer	SN# 641502001
SP-1000 spectrometer	SN# 3017942276
PM-NFMS™ software	Version 4.9.9
ProSource™ Software	Version 10.2.2

The measurement data is preserved as a set of images Radiant Source Model™(RSMX). The ProSource™ Software (Version 10.2.2) was been used to convert the RSMX to a ray set(LTD file)

Laboratory Environment and Conditions

The measurement was done in the photometric laboratory of Lamp83 (Istanbul). It is a climate controlled dark room. Also a AC/DC power stabilisation unit is used(Pyramid Plus PPS310,8KW,10kVA,SN# 073010T0066).

Temperature:	25°C	(± 1 °C)
Moisture:	60%	(± 10 %)

The luminaire was thermally stabilized for **at least 45 minutes** on the goniometer. The end of the stabilization period has been reached if in the last 10 minutes the luminance output has not changed by more than ± 0.5%.

Equipment Specifications

Precision: 0.25° (NFMS Goniometer)

Luminance (Y): ± 3% (Imaging Colotimeter IC-PMI2)

Color Accuracy: ± 0.002 Illuminant A type sourc (Spectrometer SP-1000)

Tested By:

Gökhan AKSEL
Test Technician

Reviewed By:

Anıl TOKER
Physics Engineer

Approved By:

Erdoğan EMREM
R&D Manager

LAMP83 Aydınlatma San. Ve Tic. A.S

Dudullu Organize Sanayi Bölgesi 2. Cadde No:22 PK: 34775 Ümraniye - İstanbul

Photometric Measurement Report

Generated by Radiant Vision Systems Light Measurement Platform

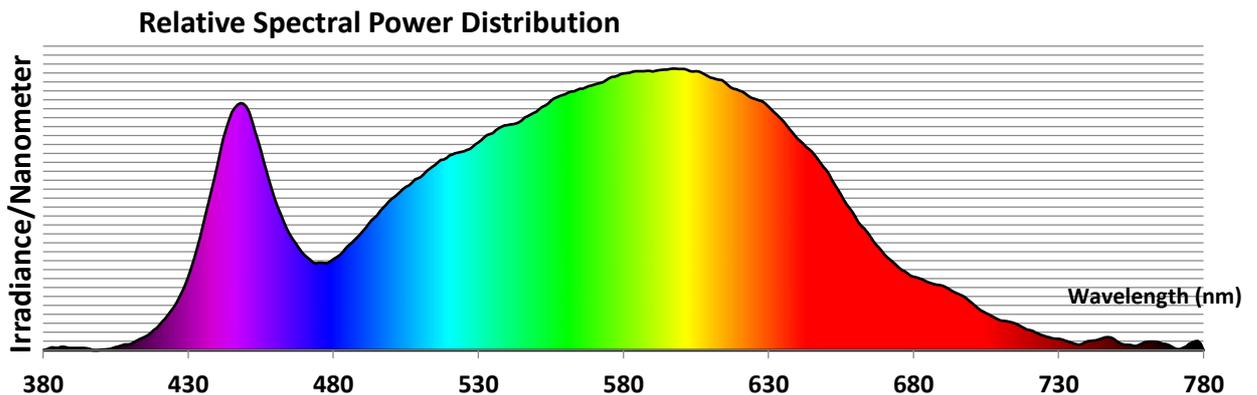
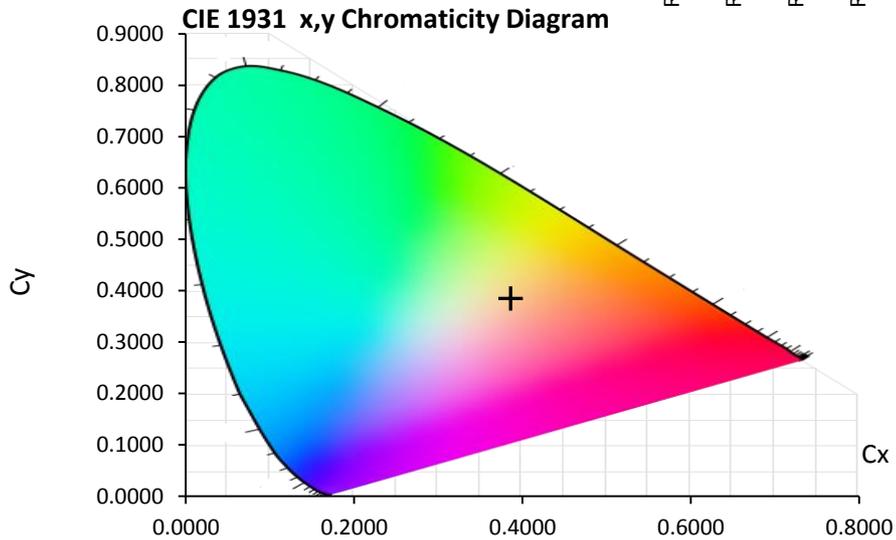
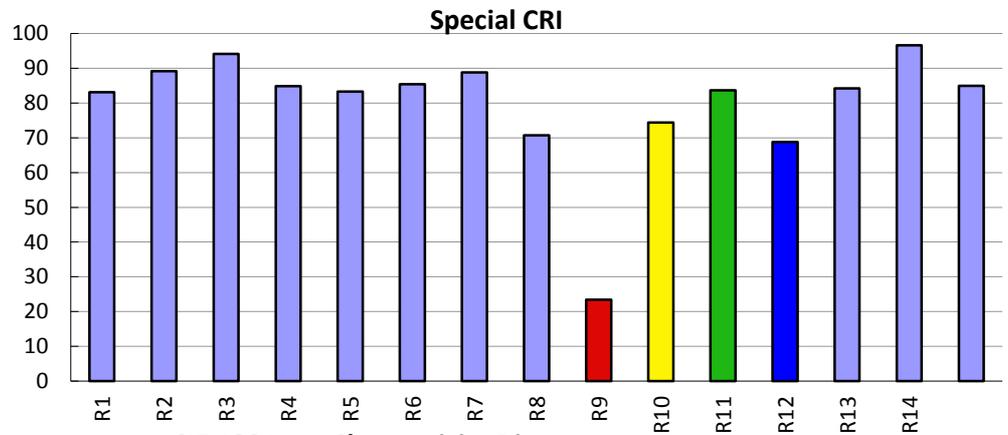
Luminaire Spectroradiometric Results	
Luminous Flux (lm)	4208
CCT (K)	3,911
Cx	0.3860
Cy	0.3846
CRI	84
Luminous Efficacy (lm/W)	103.27
Angle (°)	122.0

Luminaire Electric Specifications	
Voltage (VAC)	221.1
Current (A)	0.19
Power (W)	40.74873
Power Factor	0.97
LED Voltage(VDC)	99.3
LED Current(mA)	358
LED Power(W)	35.5494

Measurement Preset Specifications	
External ND Filter	NO
ND Filter	ND2
F-Number	8
Exposure Time (ms)	79.76
Distance(mm)	3135

Rendering Index

CRI	
R1	83.1
R2	89.2
R3	94.1
R4	84.8
R5	83.3
R6	85.4
R7	88.8
R8	70.8
R9	23.4
R10	74.4
R11	83.7
R12	68.8
R13	84.2
R14	96.6
CRI Ra	84.9

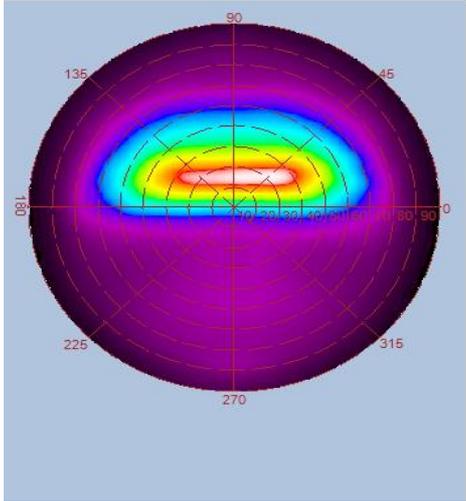


Photometric Measurement Report

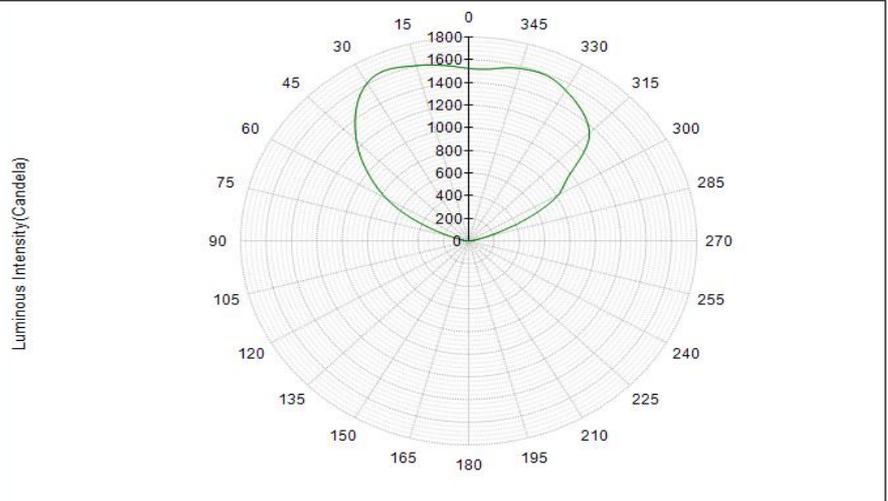
Generated by Radiant Vision Systems Light Measurement Platform

Intensity Distribution - Polar Curve

Intensity Radar Plot (ray trace to infinity)



Luminous Intensity Distribution



Cone Diagram

Photometric Measurement Report

Generated by Radiant Vision Systems Light Measurement Platform

UGR Table

--

Sample Pictures

