

LED Flux measurement

FORM-L-41 ED1 REV 2

Date : **16-01-19**

Operator : **FCE**

Filename : **2019_58.xml**



226 - TEST

LEDs

NBN EN ISO/IEC 17025 : 2005

Trademark : **Samsung**

Entry number : **39R005-2**

Type : **LH351C**

Power (Catalogue) : **0,00** W

BIN Description : **40-70M-4-TB-RB**

Flux : **0** lm/LED

Part number : **Unknown**

Color or CCT (Theoretical) : **NW**

Number of LEDs : **8**

Lenses

Trademark : **None**

Type : **None**

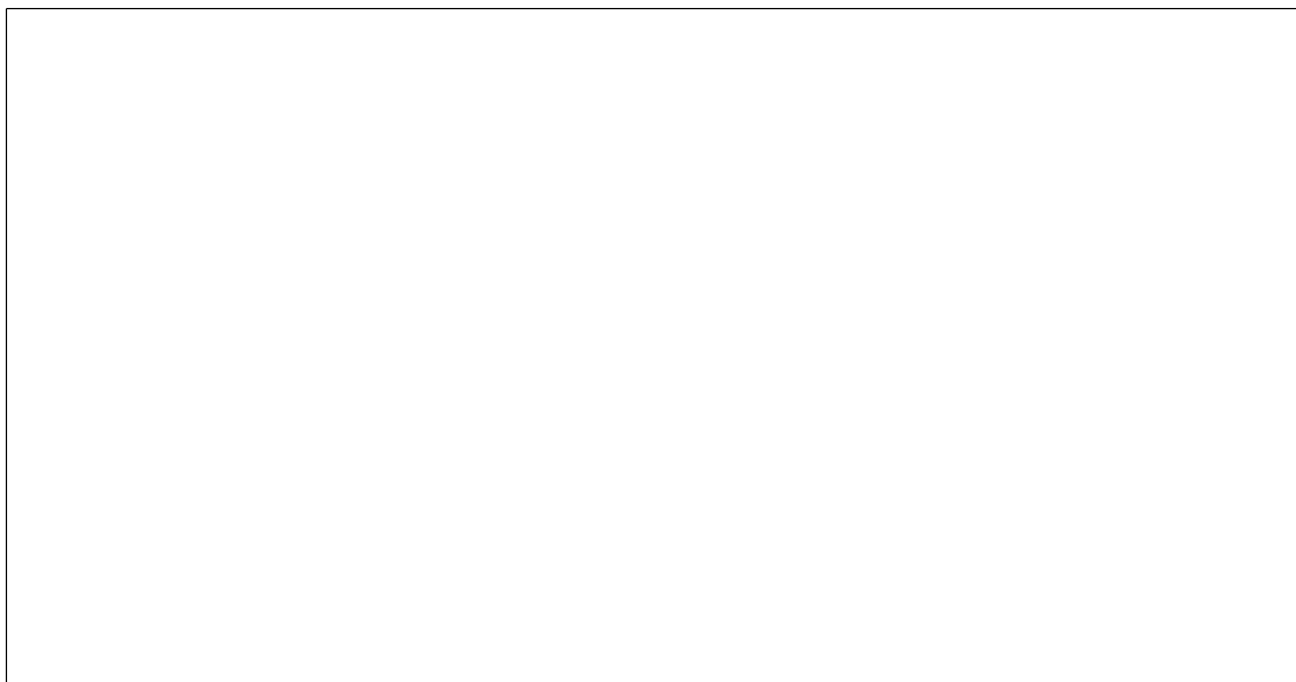
Power & Print

Type : **DELTA SM400-AR-4**

Print description : **00-71-636 A - Voltana 1**

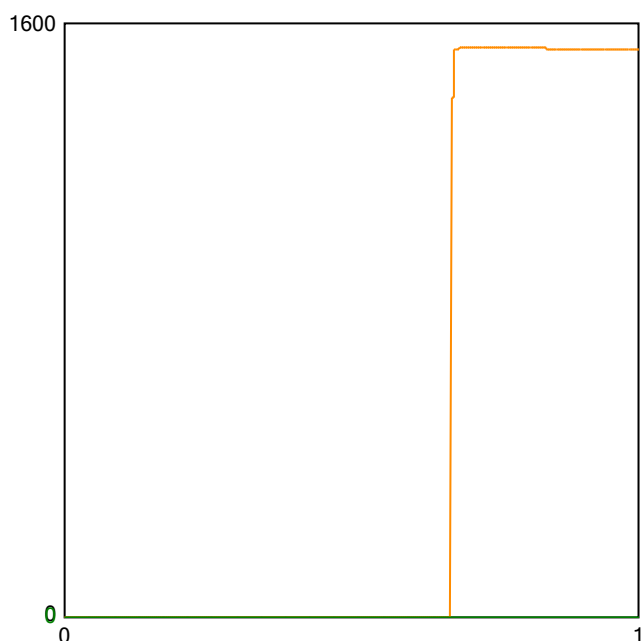
Active ☐

Picture



Sphere photometric measurement

Maximum flux : **1538** lumens



Operating condition

Position in sphere :



Ambient sphere T ° : **24,3**

Electrical measurement

● Secondary electrical measurement

Voltage : **22,37** V

Current : **0,350** A

Power : **7,82** Watt

→ LEDs light efficiency at 25° :

196,6 lm/W

192,2 lm/Led

● Primary electrical measurement

Voltage : **N/A** V

Current : **N/A** A

Power : **N/A** Watt

Cos φ : **N/A**

→ Driver losses : **N/A** %

→ LEDS & Driver light efficiency :

N/A lm/W

Description :

Flux @25°/350mA - pcb Voltana 1 - 8 Samsung LH351C - pcb N°2

Comment :

FORM-L-41 ED1 REV 2



226 - TEST

Approved by :

LED 2019/58

2/3

Colorimetry

File Preset Options Extra Calibration Info

Preset: CRI

Auto: ref. illuminant - Planckian radiator, CCT= 3841 K

Auto: ref. illuminant - Planckian radiator, CCT= 3841 K

Chromaticity difference $DC = 6.0E-4$

CRI color samples

JIS color sample

$R_1 = 68.3$ $R_2 = 80.1$ $R_3 = 90.3$ $R_4 = 70.6$ $R_5 = 69.1$ $R_6 = 72.7$ $R_7 = 78.6$ $R_8 = 46.9$ $R_9 = -39.9$ $R_{10} = 54.3$ $R_{11} = 67.4$ $R_{12} = 48.8$ $R_{13} = 70.4$ $R_{14} = 94.7$ $R_{15} = 59.9$

$R_a = 72.07$ (mean value of $R_1 - R_8$)

$R_e = 62.15$ (mean value of $R_1 - R_{15}$)

Auto: ref. illuminant - Planckian radiator, CCT= 3841 K

Auto: ref. illuminant - Planckian radiator, CCT= 3841 K

Calibration File: #1 no accessory

Measurement Mode: Radiance

Average: 1

Measurement

Cont. 50

Hold integration Time

Quick mode

Transfer data to table

auto

Luminance L_v 2.515E+2 $\frac{cd}{m^2}$

Radiance (500-750nm) L_e 7.129E-1 $\frac{W}{sr \cdot m^2}$

Corr. Color Temp CCT 3841 K

Chromaticity x 0.3873 y 0.3799

Chromaticity u' 0.2284 v' 0.5040

QUT