

LED Flux measurement

FORM-L-41 ED1 REV 2

Date : **16-01-19**

Operator : **FCE**

Filename : **2019_52.xml**



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NBN EN ISO/IEC 17025 : 2005

LEDs

Trademark : **Samsung**

Entry number : **39R004-2**

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 : **6**

Lenses

Trademark : **None**

Type : **None**

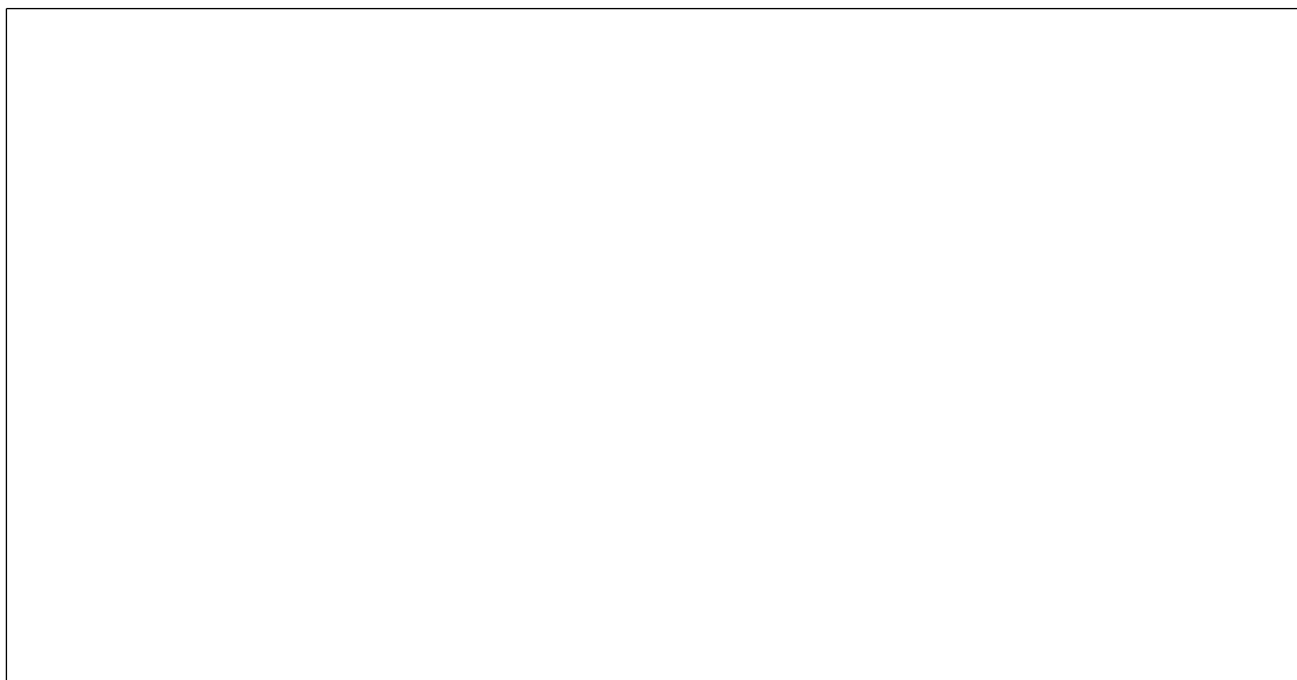
Power & Print

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

Print description : **00-71-626 A - Voltana 0**

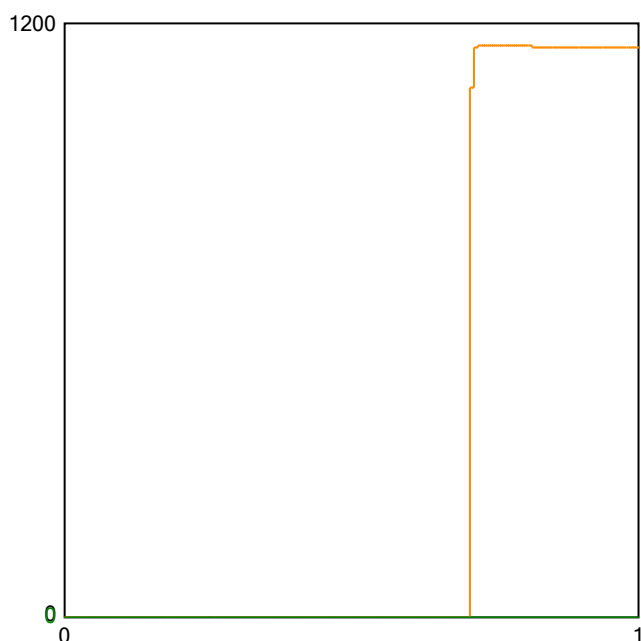
Active ☐

Picture



Sphere photometric measurement

Maximum flux : **1157** lumens



Operating condition

Position in sphere :



Ambient sphere T ° : **24,6**

Electrical measurement

● Secondary electrical measurement

Voltage : **16,93** V

Current : **0,350** A

Power : **5,92** Watt

→ LEDs light efficiency at 25° :

195,4 lm/W

192,9 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 :

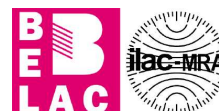
N/A lm/W

Description :

Flux @25°/350mA - pcb Voltana 0 - 6 Samsung LH351C - pcb N°2

Comment :

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Approved by :

LED 2019/52 2/3

Colorimetry

Preset: CRI

File Preset Options Extra Calibration Info

KIT11W1 S/N: 980059

Auto:
ref. illuminant -
Planckian radiator
CCT= 3859 K

Spectral Radiance (Relative units) | x 10E-3 | Spectral range: 400 nm to 700 nm

Auto: ref. illuminant - Planckian radiator, CCT= 3859 K

R 1	R 2	R 3	R 4	R 5	R 6	R 7	R 8	R 9	R 10	R 11	R 12	R 13	R 14	R 15
49	80	74	69	73	79	47	-39	55	67	71	49	60	72	95

Chromaticity difference DC= 6.2E-4

CRI color samples

R1=68.5	R8=47.1	R15=60.2
R2=80.3	R9=-39.4	
R3=90.4	R10=54.8	
R4=70.7	R11=67.4	
R5=69.3	R12=48.9	
R6=72.9	R13=70.7	
R7=78.7	R14=94.8	

JIS color sample

Ra= 72.26
(mean value of R1 - R8)

Re= 62.37
(mean value of R1 - R15)

Calibration File: #1 no accessory

Weighing Function: None

Measurement Mode: Radiance

Average: 1

Cont: 50

Hold integration Time

Quick mode

Transfer data to table [auto]

Luminance	L_v	1.898E+2	$\frac{cd}{m^2}$	
Radiance (500-750nm)	L_e	5.383E-1	$\frac{W}{sr \cdot m^2}$	
Corr. Color Temp	CCT	3859	K	
Chromaticity	x	0.3864	y	0.3793
Chromaticity	u'	0.2280	v'	0.5036

QUT