

LED Flux measurement

FORM-L-41 ED1 REV 2

Date : **16-01-19**

Operator : **FCE**

Filename : **2019_53.xml**



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NBN EN ISO/IEC 17025 : 2005

LEDs

Trademark : **Samsung**

Entry number : **39R004-3**

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**

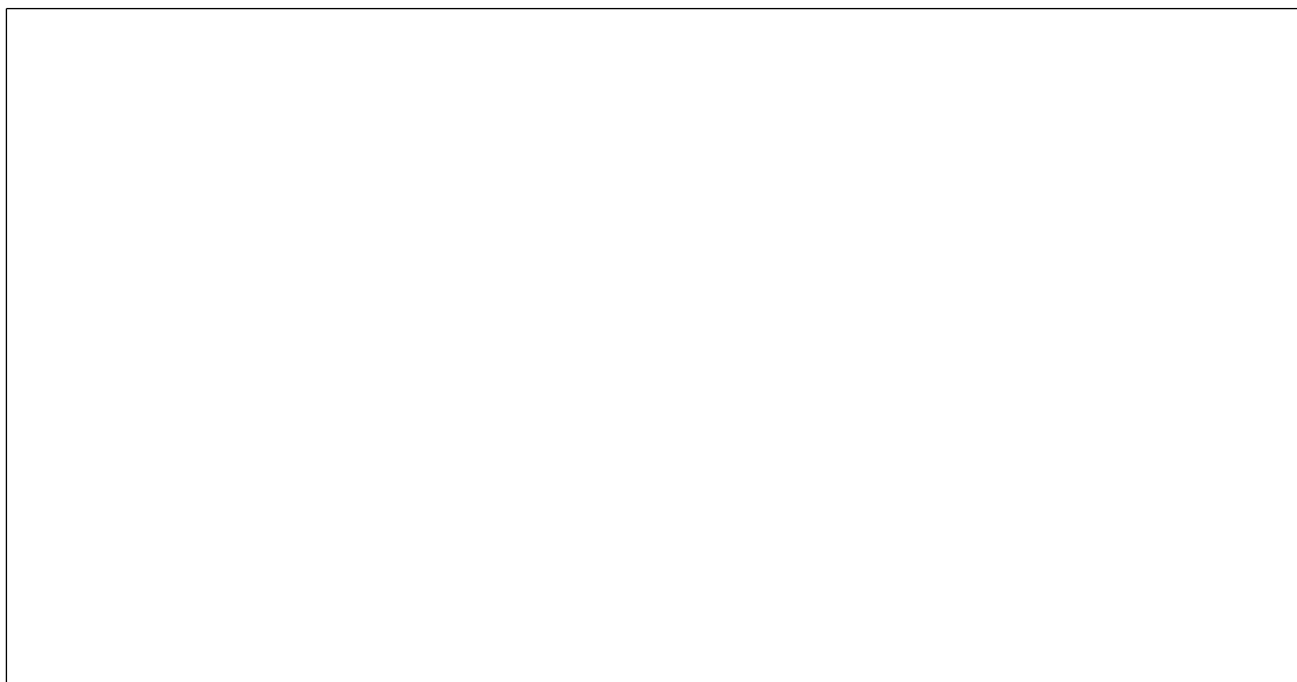
Power & Print

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

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

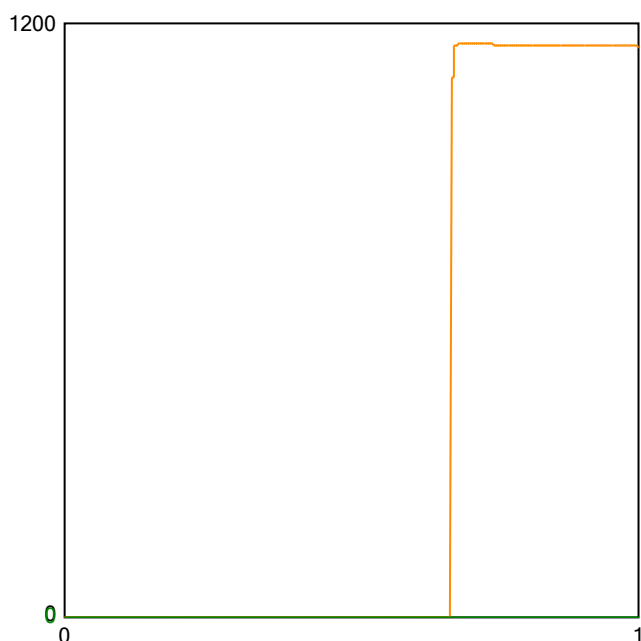
Active ☐

Picture



Sphere photometric measurement

Maximum flux : **1161** lumens



Operating condition

Position in sphere :



Ambient sphere T ° : **24,6**

Electrical measurement

● Secondary electrical measurement

Voltage : **16,80** V

Current : **0,350** A

Power : **5,87** Watt

→ LEDs light efficiency at 25° :

197,6 lm/W

193,5 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°3

Comment :

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Approved by :

LED 2019/53 2/3



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Colorimetry

File Preset Options Extra Calibration Info

Preset: CRI

Auto: ref. illuminant - Planckian radiator CCT=3871 K

Auto: ref. illuminant - Planckian radiator, CCT=3871 K

Sample	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Value	80	80	91	74	60	73	79	47	55	67	71	48	60	95	60

Chromaticity difference $DC = 2.2E-4$

CRI color samples

R1=68.5	R8=47.2	R15=60.1
R2=80.4	R9=39.7	
R3=90.5	R10=54.9	
R4=70.7	R11=67.4	
R5=69.2	R12=48.4	
R6=73.0	R13=70.7	
R7=78.9	R14=94.8	

JIS color sample

Ra=72.29 (mean value of R1 - R8)

Re=62.33 (mean value of R1 - R15)

Target

Calibration File: #1 no accessory

Measurement Mode: Radiance

Weighting Function: None

Average: 1

Measurement

Cont: 50

Hold integration Time

Quick mode

#1

Transfer data to table

☒ auto

Luminance L_v 1.963E+2 $\frac{cd}{m^2}$

Radiance (500-750nm) L_e 5.556E-1 $\frac{W}{m^2 \cdot nm}$

Corr. Color Temp CCT 3872 K

Chromaticity x 0.3862 y 0.3800

Chromaticity u' 0.2276 v' 0.5039

QUIT