

LED Flux measurement

FORM-L-41 ED1 REV 3

Date : **30-01-20**

Operator : **FCE**

Filename : **2020_115.xml**



226-TEST

NBN EN ISO/IEC 17025 :2017

LEDs

Trademark : **Samsung**

Entry number : **39P058-1**

Type : **LH351C**

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

BIN Description : **RB**

Flux : **0** lm/LED

Part number : **Unknown**

Color or CCT (Theoretical) : **Neutral White**

Number of LEDs : **20**

Lenses

Trademark : **None**

Type : **None**

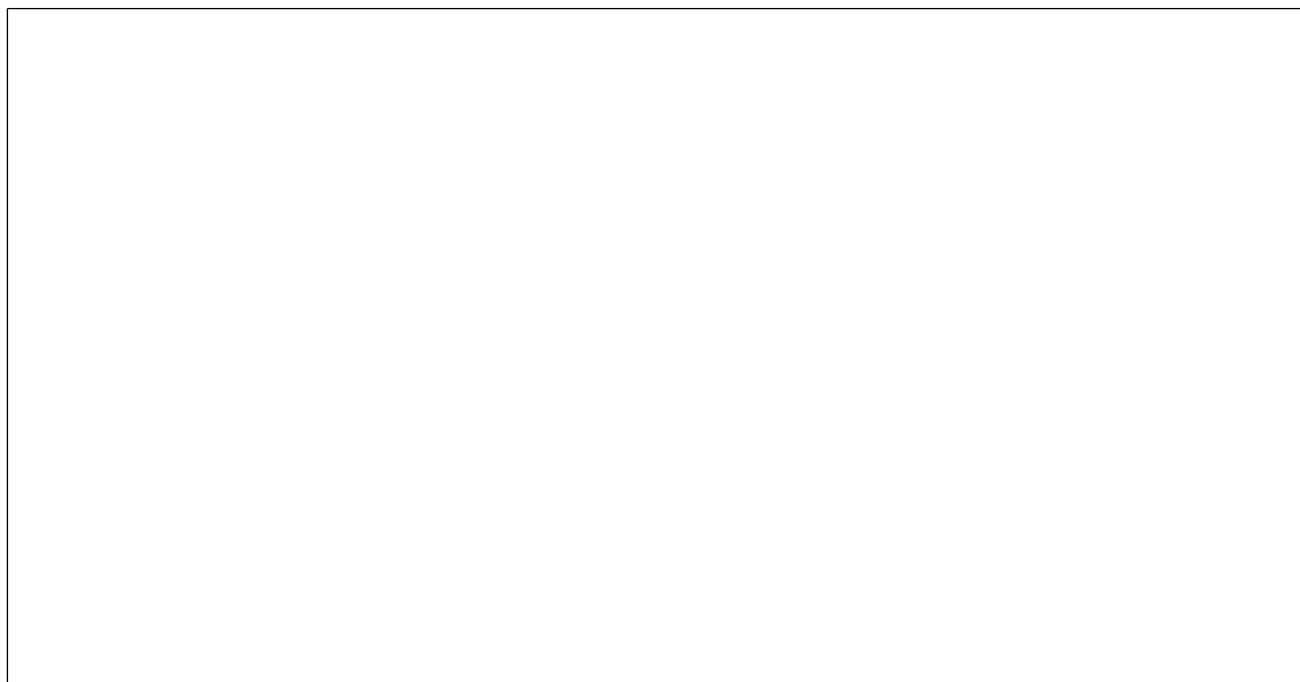
Power & Print

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

Print description : **00-84-624 B**

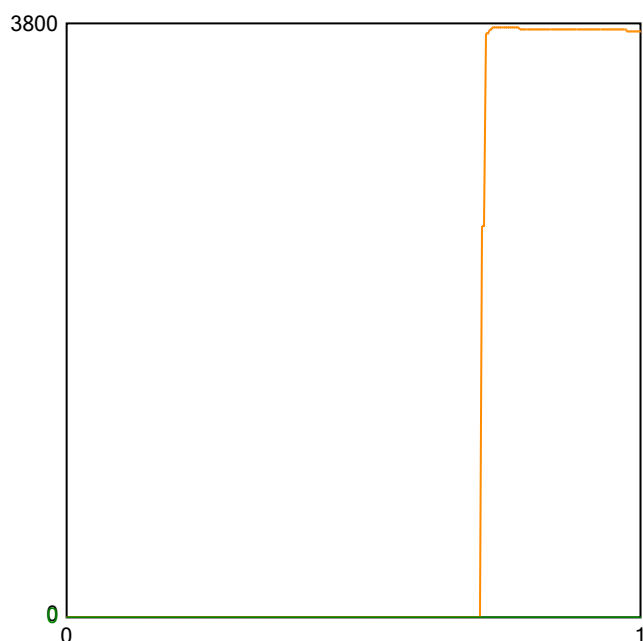
Active ☐

Picture



Sphere photometric measurement

Maximum flux : **3776** lumens



Operating condition

Position in sphere :



Ambient sphere T ° : **24,8**

Electrical measurement

● Secondary electrical measurement

Voltage : **55,85** V

Current : **0,350** A

Power : **19,52** Watt

→ LEDs light efficiency at 25° :

193,4 lm/W

188,8 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 - pcba lensoflex4 - 20 Samsung LH351C RB 740 - pcba N°1

Comment :

FORM-L-41 ED1 REV 3



226-TEST

Approved by :

LED 2020/115 2/3

Colorimetry

File Preset Options Extra Calibration Info

Preset: CRI

Auto: ref. illuminant - Planckian radiator CCT=3897 K

Auto: ref. illuminant - Planckian radiator, CCT=3897 K

Chromaticity difference DC= 1.0E-3

CRI color samples

JIS color sample

Re= 63.70 (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

Transfer data to table

auto

Luminance L_v 6.427E+2 $\frac{cd}{m^2}$

Radiance (500-750nm) L_e 1.832E+0 $\frac{W}{m^2 \cdot nm}$

Corr. Color Temp CCT 3897 K

Chromaticity x 0.3844 y 0.3772

Chromaticity u' 0.2275 v' 0.5024

QUT

LED Flux measurement

FORM-L-41 ED1 REV 3

Date : **30-01-20**

Operator : **FCE**

Filename : **2020_116.xml**



226-TEST

NBN EN ISO/IEC 17025 :2017

LEDs

Trademark : **Samsung**

Entry number : **39P058-2**

Type : **LH351C**

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

BIN Description : **RB**

Flux : **0** lm/LED

Part number : **Unknown**

Color or CCT (Theoretical) : **Neutral White**

Number of LEDs : **20**

Lenses

Trademark : **None**

Type : **None**

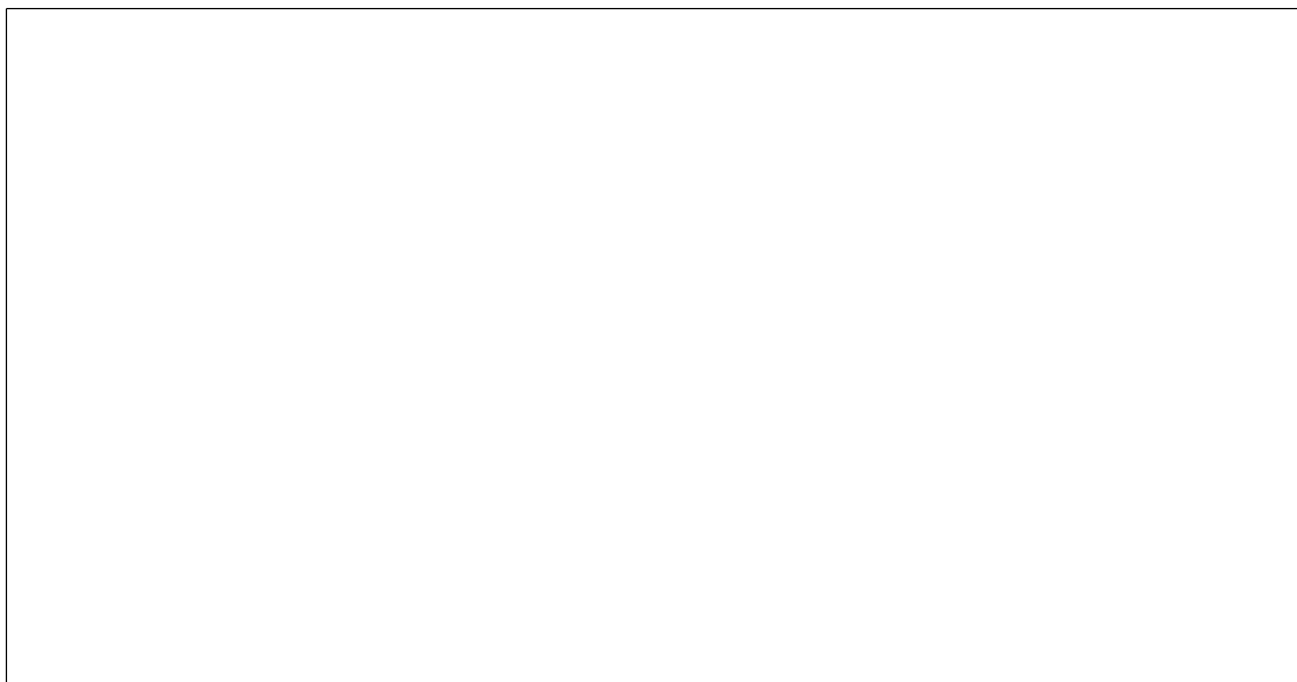
Power & Print

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

Print description : **00-84-624 B**

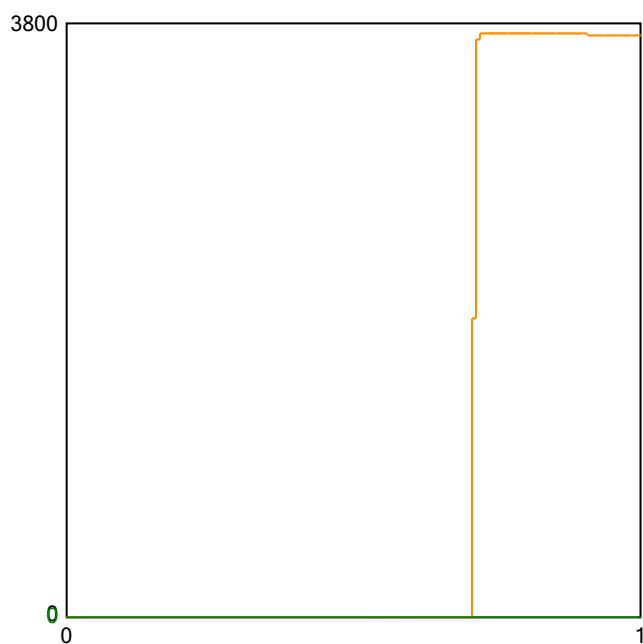
Active ☐

Picture



Sphere photometric measurement

Maximum flux : **3747** lumens



Operating condition

Position in sphere :



Ambient sphere T ° : **24,8**

Electrical measurement

● Secondary electrical measurement

Voltage : **55,84** V

Current : **0,350** A

Power : **19,52** Watt

→ LEDs light efficiency at 25° :

192,0 lm/W

187,4 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 - pcba lensoflex4 - 20 Samsung LH351C RB 740 - pcba N°2

Comment :

FORM-L-41 ED1 REV 3



226-TEST

Approved by :

LED 2020/116 2/3

Colorimetry

File Preset Options Extra Calibration Info

Preset: CRI

Auto: ref. illuminant - Planckian radiator CCT=3897 K

Auto: ref. illuminant - Planckian radiator, CCT=3897 K

Chromaticity difference DC= 1.0E-3

CRI color samples

JIS color sample

Re= 63.70 (mean value of R1 - R15)

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Weighting Function: None

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