

## LED Flux measurement

FORM-L-41 ED1 REV 3

Date : **01/02/2021**

Operator : **FCE**

Filename : **2021\_94.xml**



**226-TEST**

**NBN EN ISO/IEC 17025 :2017**

### LEDs

Trademark : **Osram**

Entry number : **38R137-4**

Type : **OSLON SQUARE GIANT**

Power (Catalogue) : **0.00** W

BIN Description : **N6**

Flux : **0** lm/LED

Part number : **GWCSSRM2.PM**

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

Number of LEDs : **16**

### Lenses

Trademark : **None**

Type : **None**

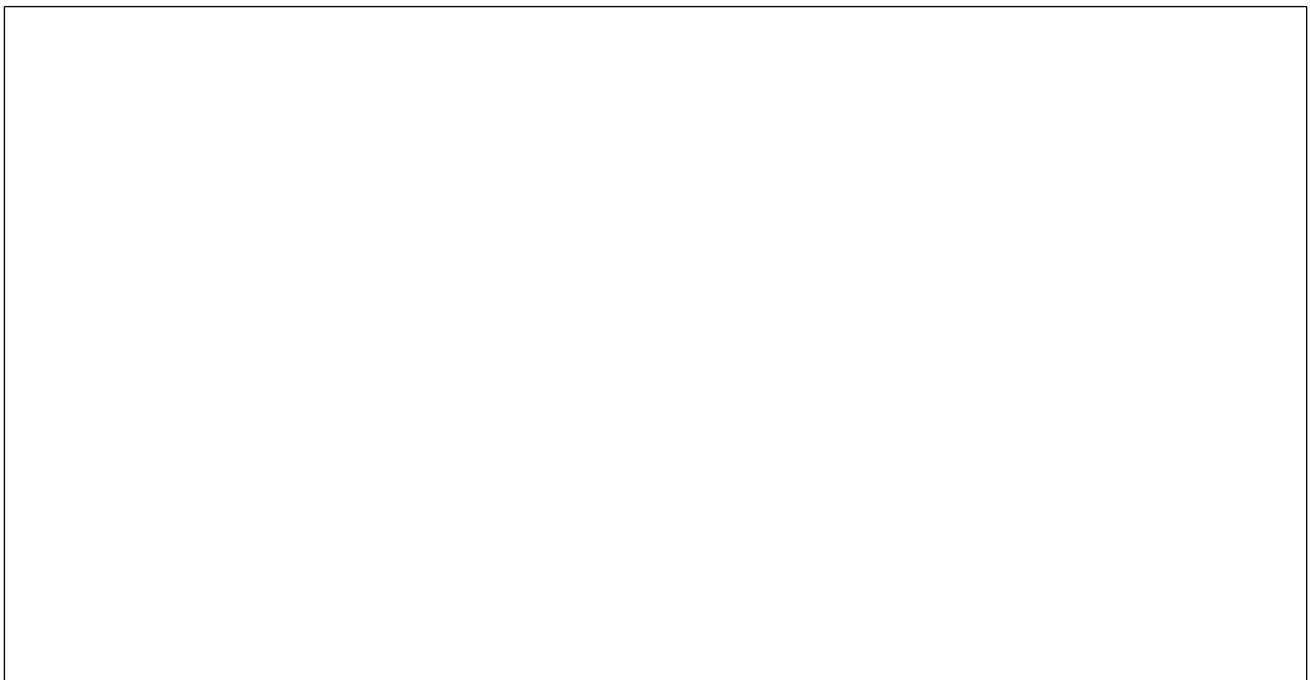
### Power & Print

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

Print description : **00-57-060 B**

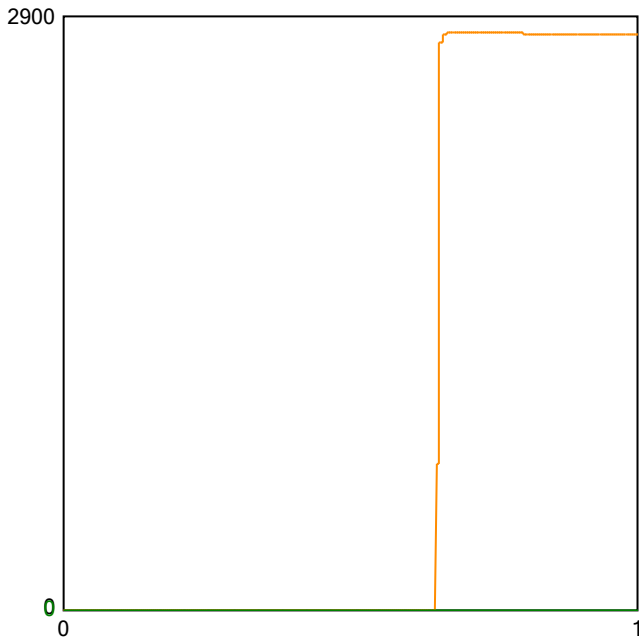
Active

### Picture



### Sphere photometric measurement

Maximum flux : **2823** lumens



### Operating condition

Position in sphere :



Ambient sphere T ° : **25.8**

### Electrical measurement

#### ● Secondary electrical measurement

Voltage : **45.01** V

Current : **0.350** A

Power : **15.73** Watt

→ LEDs light efficiency at 25° :

**179.5** lm/W

**176.5** lm/Led

#### ● Primary electrical measurement

Voltage : **N/A** V

Current : **N/A** A

Power : **N/A** Watt

Cos  $\varphi$  : **N/A**

→ Driver losses : **N/A** %

→ LEDS & Driver light efficiency :

**N/A** lm/W

Description :

Flux @25°/350mA - pcb Axia 3.1 - 16 Giant N6 - pcb N°4

Comment :

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Approved by :

LED 2021/94 2/3



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### Colorimetry

File Preset Options Extra Calibration: #1 no accessory Apr20' Info

← Preset: CRI

Auto: ref: illuminant - Planckian radiator CCT= 3856 K

Weighting Function: None

MEASUREMENT (radiance) Average 1

Target Cont. (interval 0 s) Hold Integration Time Quick mode

Auto: ref: illuminant - Planckian radiator, CCT= 3856 K

R1=68.7	R8=51.6
R2=76.7	R9=31.2
R3=83.4	R10=45.2
R4=71.3	R11=68.3
R5=68.4	R12=43.1
R6=67.7	R13=69.4
R7=78.5	R14=90.4

Chromaticity difference DC= 6.1E-4

CRI color samples

Ra= 70.78 (mean value of R1 - R8)

Re= 60.81 (mean value of R1 - R14)

Auto: ref: illuminant - Planckian radiator, CCT= 3856 K

Ra=71

Re=61

Luminance  $L_v$  4.686E+2  $\frac{cd}{m^2}$

Radiance  $L_e$  1.347E+0  $\frac{W}{m^2 \cdot sr}$  (380-780nm)

Corr. Color Temp CCT 3857 K

Chromaticity x 0.3865 y 0.3792

Chromaticity u' 0.2281 v' 0.5036

Quit