

LED Flux measurement

FORM-L-41 ED1 REV 0

Date : **24/03/2015**

Operator : **FC**

Filename : **2015_324.xml**



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LEDs

NBN EN ISO/IEC 17025 : 2005

Trademark : **LG Innotek**

Entry number : **35R036**

Type : **3535 Gen4**

Power (Catalogue) : **1.00** W

BIN Description : **X9-J32-9**

Flux : **160** lm/LED

Part number : **LLRMA97-25K400B**

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

Number of LEDs : **8**

Lenses

Trademark : **None**

Type : **None**

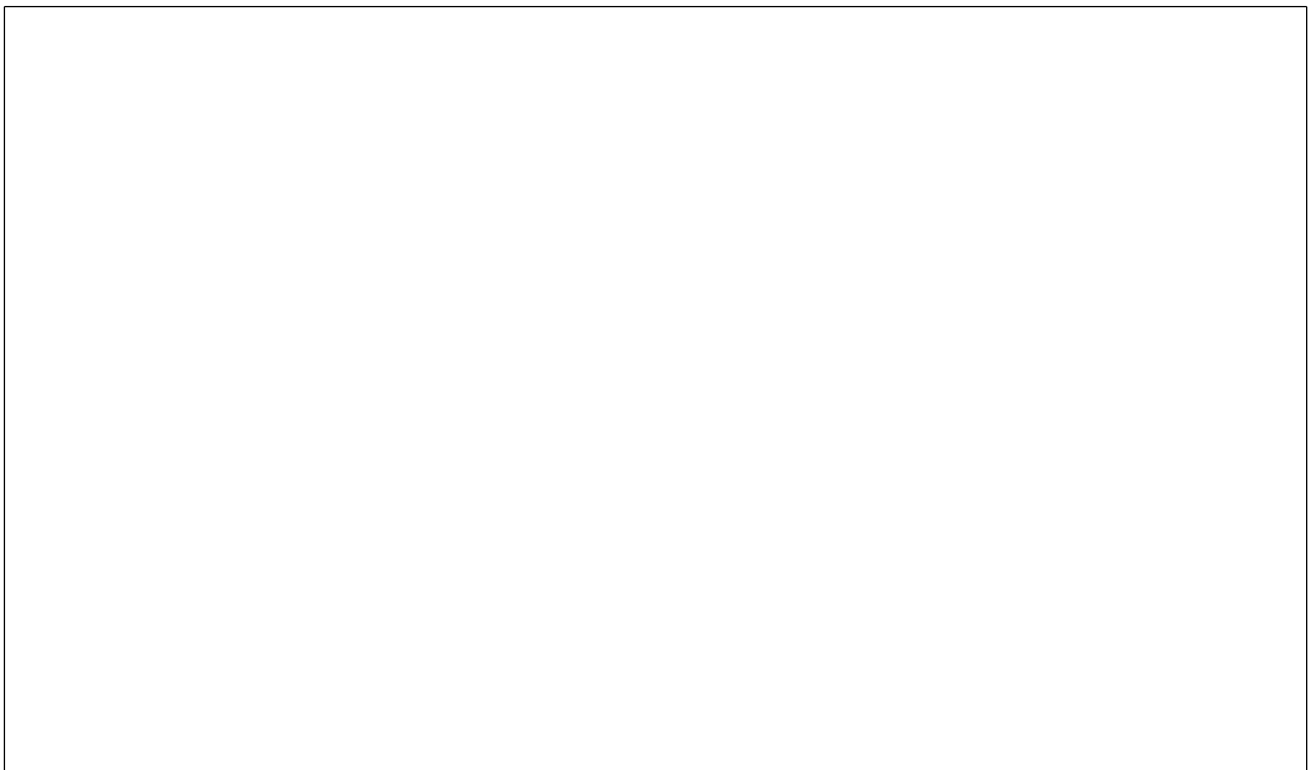
Power & Print

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

Print description : **8 leds voltana 1**

Active

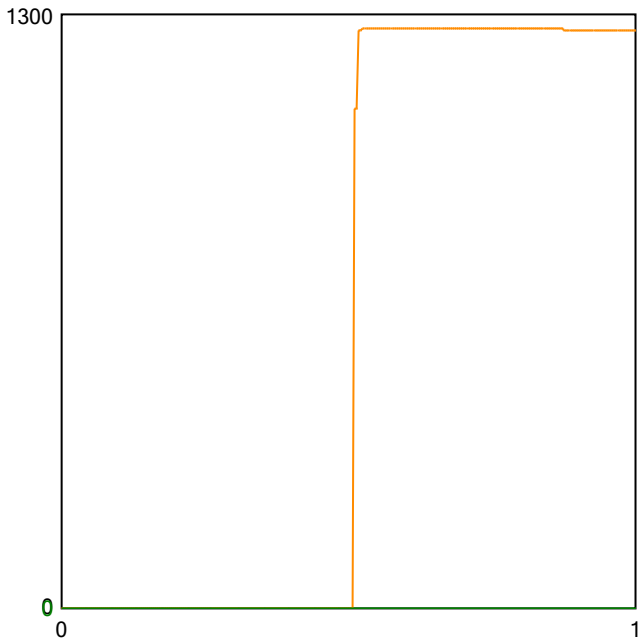
Picture



Sphere photometric measurement

Average flux : **625** lumens

Maximum flux : **1273** lumens



Position in sphere :



Electrical measurement

● Secondary electrical measurement

Voltage : **23.45** V

Current : **0.350** A

Power : **8.22** Watt

→ LEDs light efficiency at thermal stabilization :

76.0 lm/W

78.1 lm/Led

→ LEDs light efficiency at 25° :

154.8 lm/W

159.1 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 CTR du 2015/146 après gonio - pcb N°2 - Voltana 1

Comment :

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Approved by :

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Colorimetry

The screenshot displays a colorimetry software interface. At the top, there is a menu bar with options: File View, Calibration, Calculate, Extra, Export, Options, Info. Below the menu is a large CIE 1931 color space plot (chromaticity diagram) with axes labeled 'x' and 'y'. The plot shows a color gamut with various wavelength markers (400nm to 700nm) and a 'CIE White Point' indicated. Two dialog boxes are open over the plot: 'Color values' and 'CIE 1931 Colour Rendering Index'. The 'Color values' dialog shows X=0.3800, Y=0.3744, Z=208.1. The 'CIE 1931 Colour Rendering Index' dialog shows a 'Reference Illuminant' of 'D65', 'Chromaticity Difference (D)' of '3.464', and 'JIS color samples' with a 'Ra' value of '68.53'. Below the plot, there are several control buttons: 'Zoom to Rectangle', 'RESET', 'Target', 'Average 1', and a large green 'Measurement' button. At the bottom, there is a 'Calibration File' dropdown set to '#1 100cd/m²', a 'Measurement Mode' dropdown set to 'Radiance', and a list of measurement results for '#1':

Luminance	LV	2.081E+2	$\frac{cd}{m^2}$
Radiance	L ₀	5.892E-1	$\frac{W}{m^2}$
Corr. Colour Temp CCT		3995	K
Dom. Wavelength	W	579.6	nm
Colour Purity	PE	26.4	%
Chromaticity	X	0.3800	
	Y	0.3744	
	u'	0.2257	
	v'	0.5005	

At the bottom right, there are buttons for 'Transfer' and 'QUIT'. The software title bar indicates 'JET' and 'FILE VIEW: SN 906035'.