

Omega WL: Light Measurement Report

Print date: 26/04/2024
Measurement date and time: 26/04/2024 13:22:40
Operator: Martin Polák

Measurement Conditions:

Number of C-planes (Increment)	8 planes (45°)
γ (gamma)-angle Increment	0.25°
Test Distance	9.99 m
Test Temperature	22 °C
Test Humidity	35 %
Input Voltage	28 V
Input Current (start)	8.2 A
Input Current (finish)	8.2 A

Tested Light Source:

Name of Light **Omega WL Thrush**

Picture 1 – Photo of EUT



Picture 2 – Sensor in position with light on



Temperatures during measurement:

Measured temperature on Rear Heatsink of EUT (min)	22 °C
Measured temperature on Rear Heatsink of EUT (max)	65 °C

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Light Measurement System:

Laboratory Owner	AVEO
Goniospectrometer System	2015365875
Goniospectrometer Type	Type C, horizontal

Sensor and Spectrometer:

Sensor Type	Spectroradiometer sensor
Sensor Serial No.	EF4538-CD25-MJ31
Spectrometer Firmware Version	2.4

Calibration information:

Last Calibration Performed	02.03.2024
Intensity Calibration Distance Used	3 m
Calibration date for Calibration Lamp	10.01.2024
Intensity of Calibration Lamp	1700 cd
Color Temperature of Calibration Lamp	3010 K

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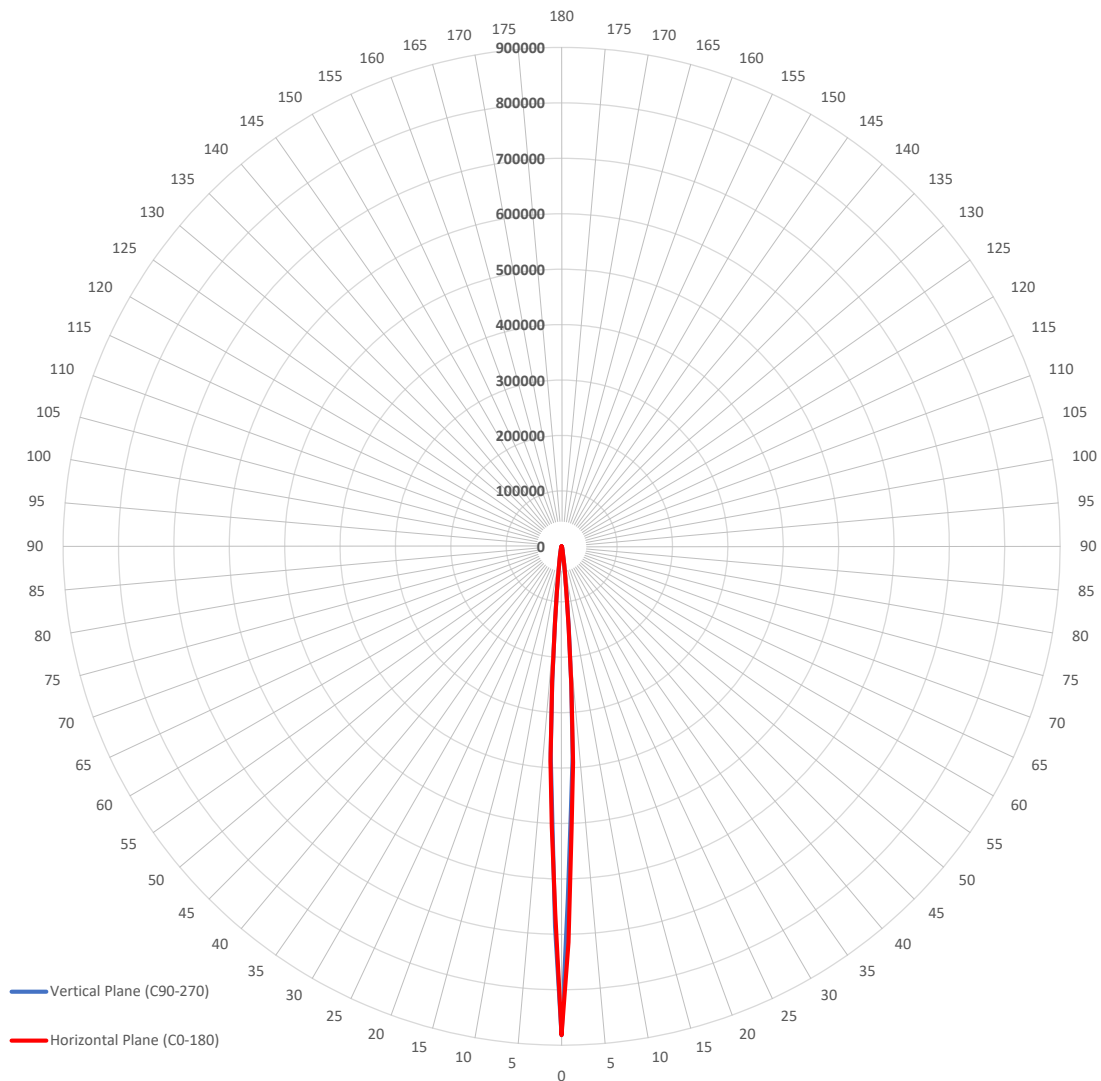
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1. Main Light Measurement Results:

Output lumens	13257 lm
Peak Intensity	886875 cd
Beam Angle 0°-180° (FWHM, 50%)	5.2°
Beam Angle 90°-270° (FWHM, 50%)	4.8°
Field angle 0°-180° (FWTM, 10%)	11.7°
Field angle 90°-270° (FWTM, 10%)	11.8°
Correlated Color Temperature	6115 K

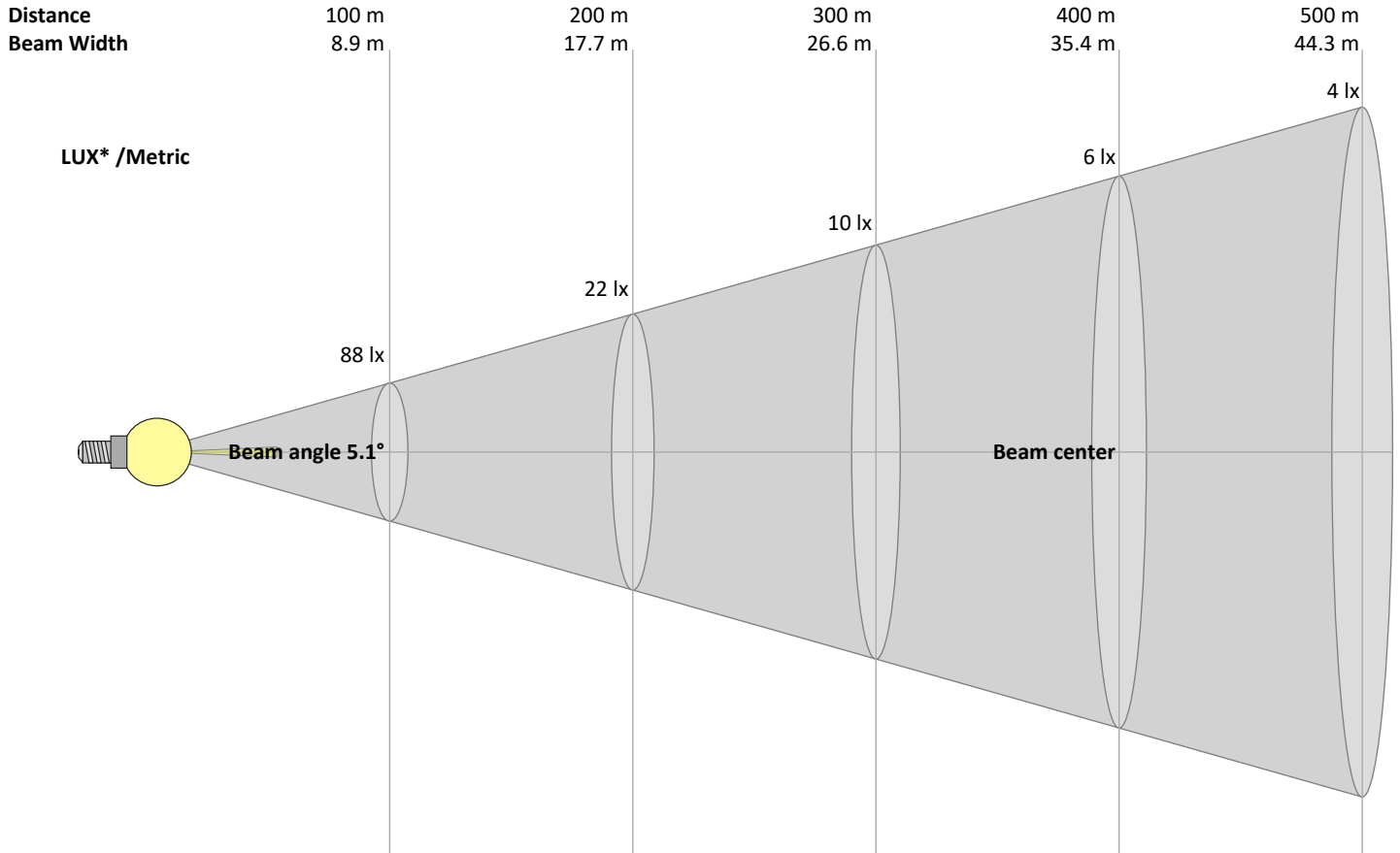
Candela Polar Plot, full range:



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2. Beam Details:



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3. Chromaticity Measurement Details:

3.1 CIE chromaticity coordinates (measured):

CIE_x = 0.321

CIE_y = 0.325

3.2 Compliance with CRF and SAE AS requirements:

Color specification per CFR Part 23.1397, 25.1397, 27.1397, 29.1397:

Aviation White TRUE

Alternate color Specification per SAE AS 8017:

Aviation White TRUE

1.1 CRF and SAE AS requirements and measured value on the CIE 1931 color diagram

