Light Measurement Report

Print date: 18-10-2020
Measurement date and time: 29-09-2020 13:02:18 – Measurement no. VFR-200929-5471-MS
Measurement tracking No. and Link: n/a – http://www.visosystems.com/tracking/
Operator:

Laboratory and Equipment

Laboratory Owner and Location	Viso Systems, Copenhagen V, Denmark
Goniospectrometer System and Type	LabSpion – Type C, horizontal
Sensor Name, Calibr. Date and Serial No.	LabSensor – 09-09-2020 – 0345831146
Spectrometer Manufacturer and Model	Ibsen Photonics, Denmark – Freedom VIS (Custom Viso)

Measurement Conditions

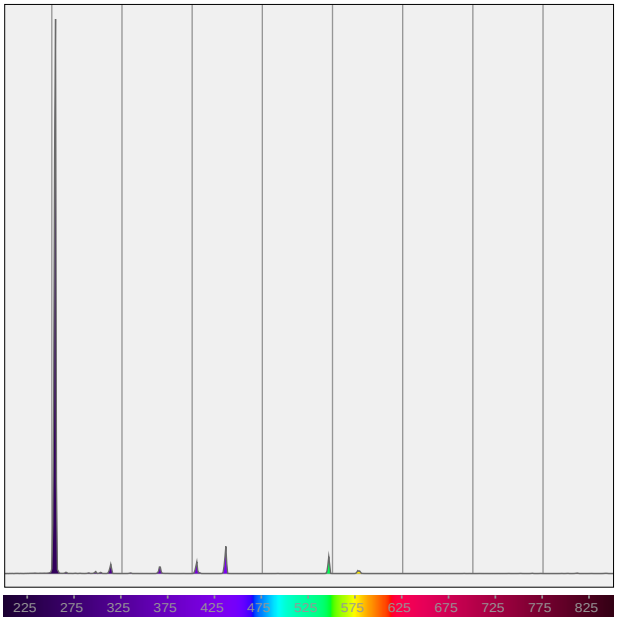
Number of C-planes and Resolution	8 planes
Input Power, Power and Displ. Factors	31,0 W – PF 0,99 – DPF 1,0
Input RMS Voltage and Current	115 V – 0,272 A
Frequency of Input Power	60 Hz
Warm-up Time and Variation	Not completed – 2,0%

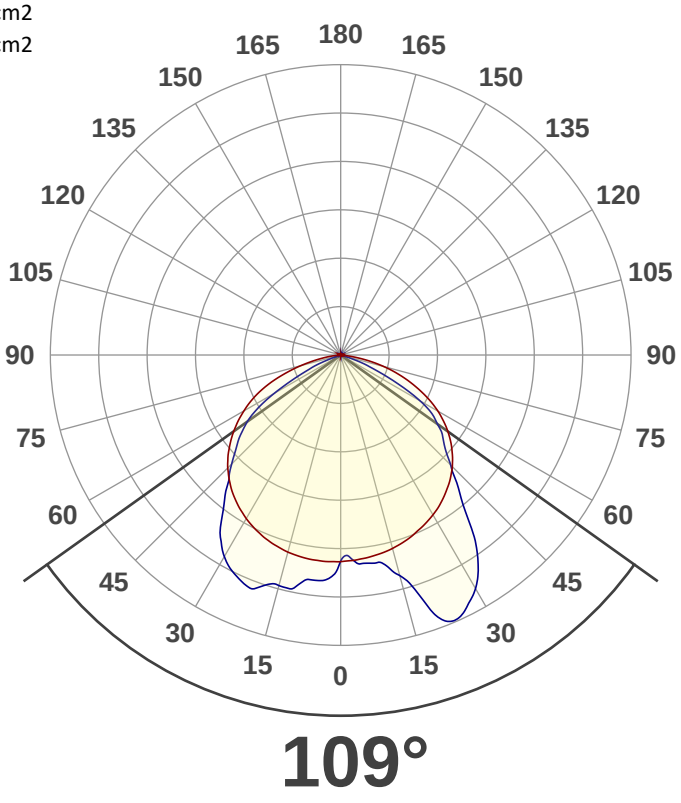
Tested Light Source

Product Name	UVC LAMP! 36 3 viso edit
Item No. and Manufacturer	–
Product Description (line 1)	

Main Light Measurement Results

Output – Total UV flux, 200 nm - 850 nm	6374,80	mW
UVA 320 nm – 400 nm	89,30	mW
UVB 290 nm – 320 nm	132,76	mW
UVC 200nm - 290nm	5571,99	mW
VIS-IR: 400 nm – 850 nm	583,14	mW
Efficacy (Radiated power/lamp power)	20,5	%
Peak Emission Wavelength (λp)	254	nm
Dominant Wavelength (λd)	477	nm
Peak Irradiance (distance 1 m)	237,48	µW/cm2
Peak UV Irradiance at 254 nm (distance 1 m)	205,47	µW/cm2
Beam angle (50%)	109,0	°





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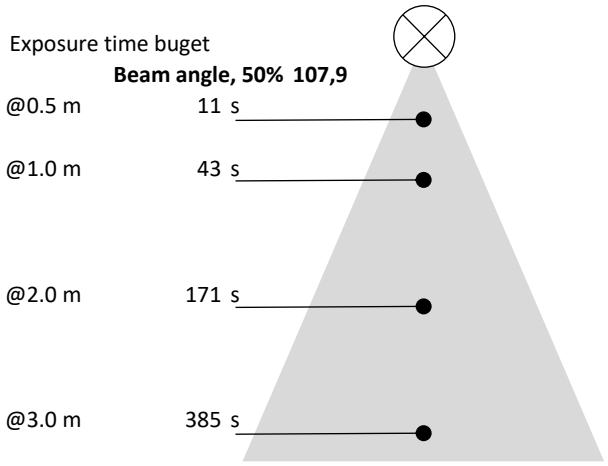
Exposure time, COVID 19

Peak Emission Wavelength (λp)	254,00	nm
Irradiance in range [244;264] nm	205,47	µW/cm2
Dose needed (254 nm, COVID-19), 99.9% deactivation	3,70	mJ/cm2



Specific spectra