

Irradiance Report



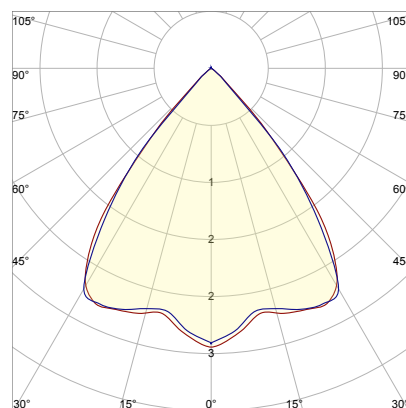
Print date: 11/11/2020

Measurement Details	
Measurement Date, Time and Serial No.	11/11/2020 12:34

Laboratory and Equipment		
Laboratory Owner and Location	Viso Systems for Elation Lighting	Los Angeles, CA
Spectrogoniometer System and Type	LabSpion	Type C, horizontal
Sensor Name and Serial No.	LabSensor Model2	345831146
Spectrometer Manufacturer and Model	Ibsen Photonics, Denmark	Freedom VIS (Custom Viso)
Flicker Meter Type	LabFlicker	

Measurement Conditions

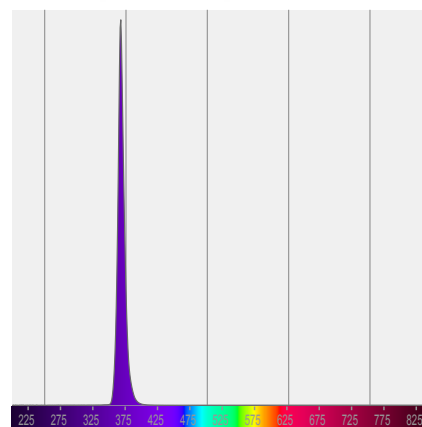
Measurement Conditions		
Number of C-planes Measured and Resolution	72 planes	5.0°
γ (gamma) -resolution	5.00°	
Input Power to the Source and Power Factor	84.9 W	PF = 0.99
Input RMS Voltage and Current to the Source	115.2 V	0.744 A
Frequency of Input Power	60.0 Hz	



Tested Source	
Product Name	Prisma Wash 100
Test	UV Test 36 Planes
Manufacturer	Elation Lighting
Product Description	



Main Measurement Results	
Output – Total UV flux, 200 nm - 850 nm	17549.10 mW
UVA 320 nm – 400 nm	17618.22 mW
UVB 290 nm – 320 nm	10.81 mW
UVC 200 nm – 290 nm	-1.36 mW
VIS-IR: 400 nm – 850 nm	-73.98 mW
Efficacy (Radiated power/lamp power)	20.666 %
Peak Emission Wavelength (λ_p)	367 nm
Dominant Wavelength (λ_d)	562 nm
Peak Irradiance (distance 1 m)	243.61 μ W/cm ²
Peak UV Irradiance at 275 nm (distance 1 m)	0.03 μ W/cm ²
Beam angle (50%)	82 °

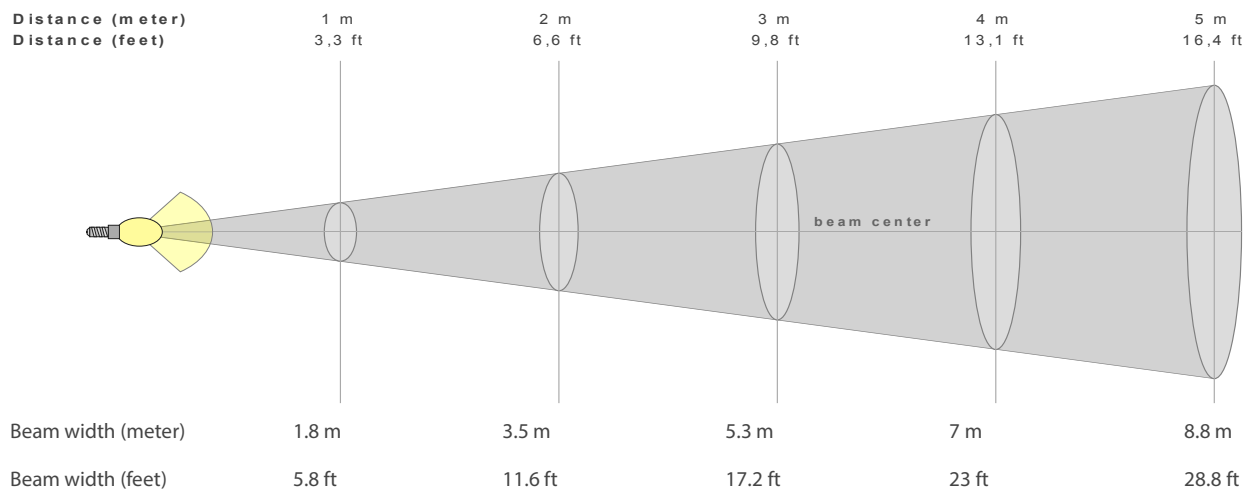


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UVC 200-290nm



Beam intensities from 1-10m ($\mu\text{W}/\text{cm}^2$)

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
-0.0188524	-0.0047131	-0.0020947	-0.0020947	-0.0011783	-0.0007541	-0.0005237	-0.0003847	-0.0002946	-0.0002327

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
82.48674488	96.62020743	106.3808931	0.994770449	0.938353006

Iso Diagram

