

Light Measurement Report

Print date: 04/12/2024

Measurement date and time: 28/11/2024 12.38.10 – Measurement no. VFR-241128-0137-MS

Measurement tracking No. and Link: [n/a](#)

Operator: JNI



Laboratory and Equipment

Laboratory Owner and Location
Goniospectrometer System and Type
Sensor Name, Calibr. Date and Serial No.
Spectrometer Manufacturer and Model

DVT Light, Hasselager, Denmark
LabSpion – Type C, horizontal
LabSensor Model2 – 05/07/2024 – 3482137104
Ibsen Photonics, Denmark – Freedom VIS (Custom Viso)

Measurement Conditions

Number of C-planes and Resolution
 γ (gamma)-Resolution
Test Distance
Input Power, Power and Displ. Factors
Input RMS Voltage and Current
Frequency of Input Power

2 planes – 180°
0,3°
3,84 m
311,1 W – PF 0,95 – DPF 0,96
232 V – 1,41 A
50 Hz

Tested Light Source

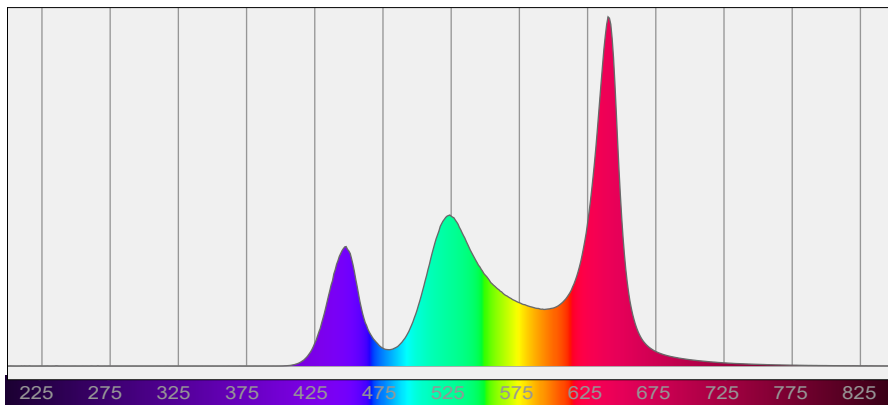
Product Name
Item No. and Manufacturer
Product Description (line 1)

PJ2.5_RGBW_NARROW
50200001-A – DVTLight

Main Light Measurement Results

Output (Stabilized) – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity and Beam Angle
Correlated Color Temperature, Target/Measured
Color Rendering Index
Color Rendering TM30-18
Color Shift, CIE duv

10946 lm – 0,58% / 99,42%
35 lm/W
324990 cd – 8,7°
CCT = 4177 K / 4177 K
CRI 68,5
 R_f 79,0 – R_g 117,1
Duv 0,0035



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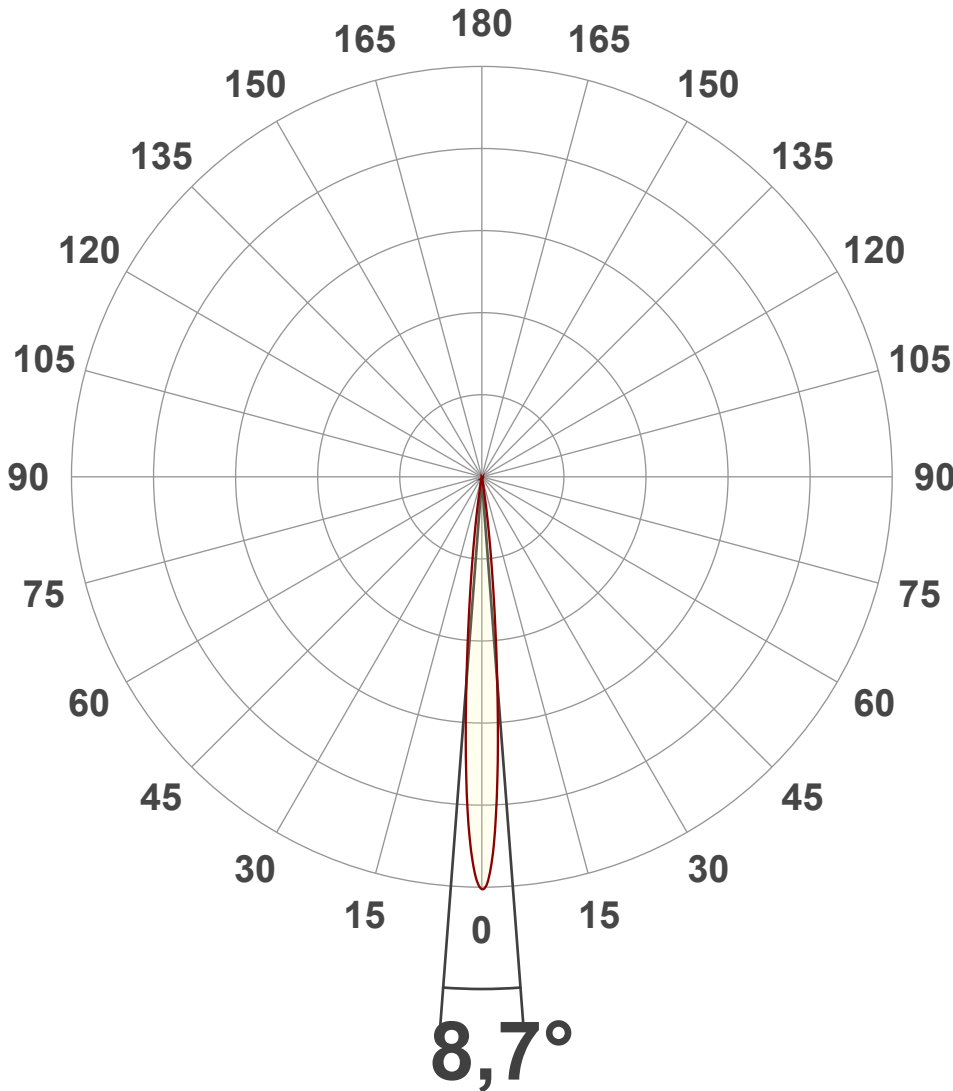
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (Stabilized) - (total Lumen)	10946 lm
Lumen Up% / Down%	0,58% / 99,42%
Peak Intensity	324990 cd
Beam Angle (50%)	8,7°
Beam Angle (90%)	8,7°
Beam Angle (10%)	8,7°

Cut-off Angle

Average 2,5%	22,5°
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Field Angle

Average 10%	16,2°
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Intensity Ratio

In 120° cone	98,2%
In 90° cone	96,5%

C000-C180

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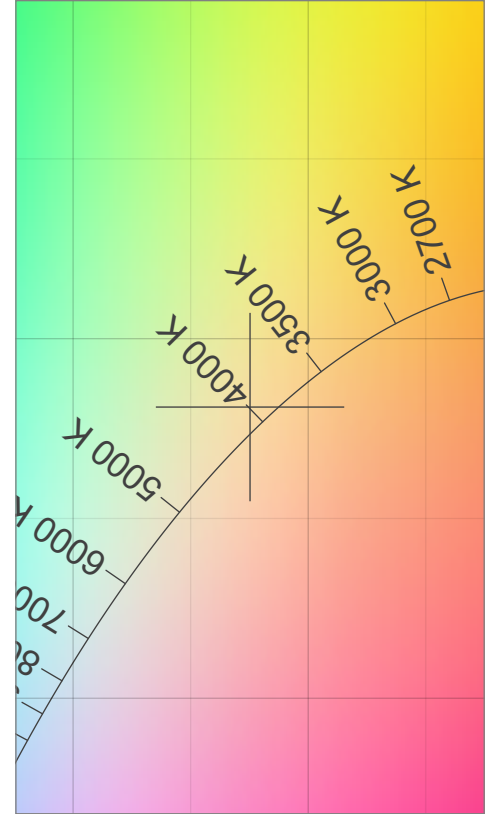
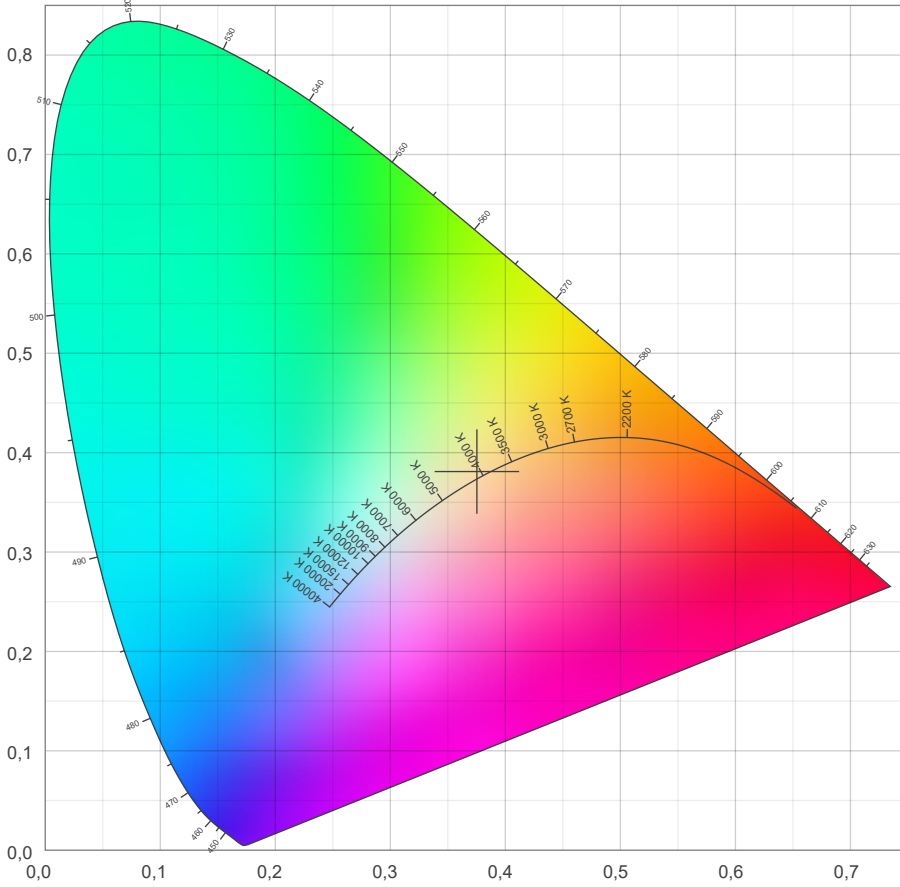
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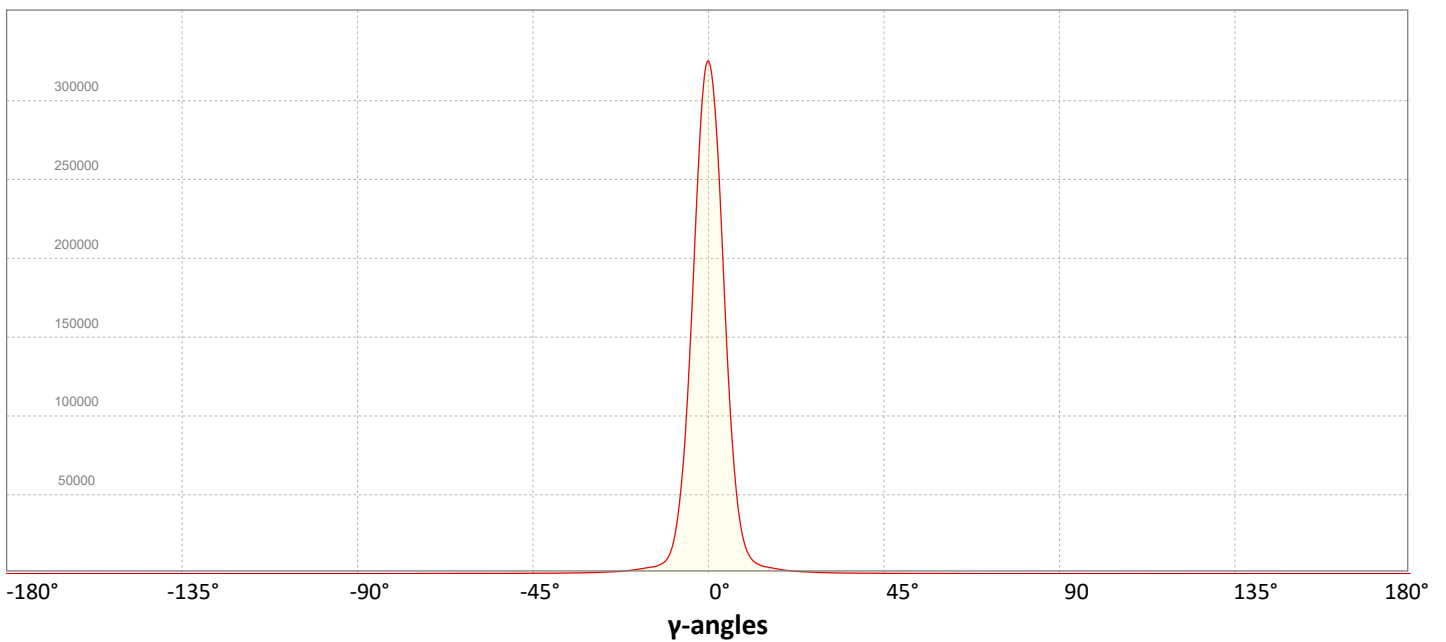
Operator: JNI



CIE 1931



Linear distribution diagram - Intensity (candela) vs γ -angle



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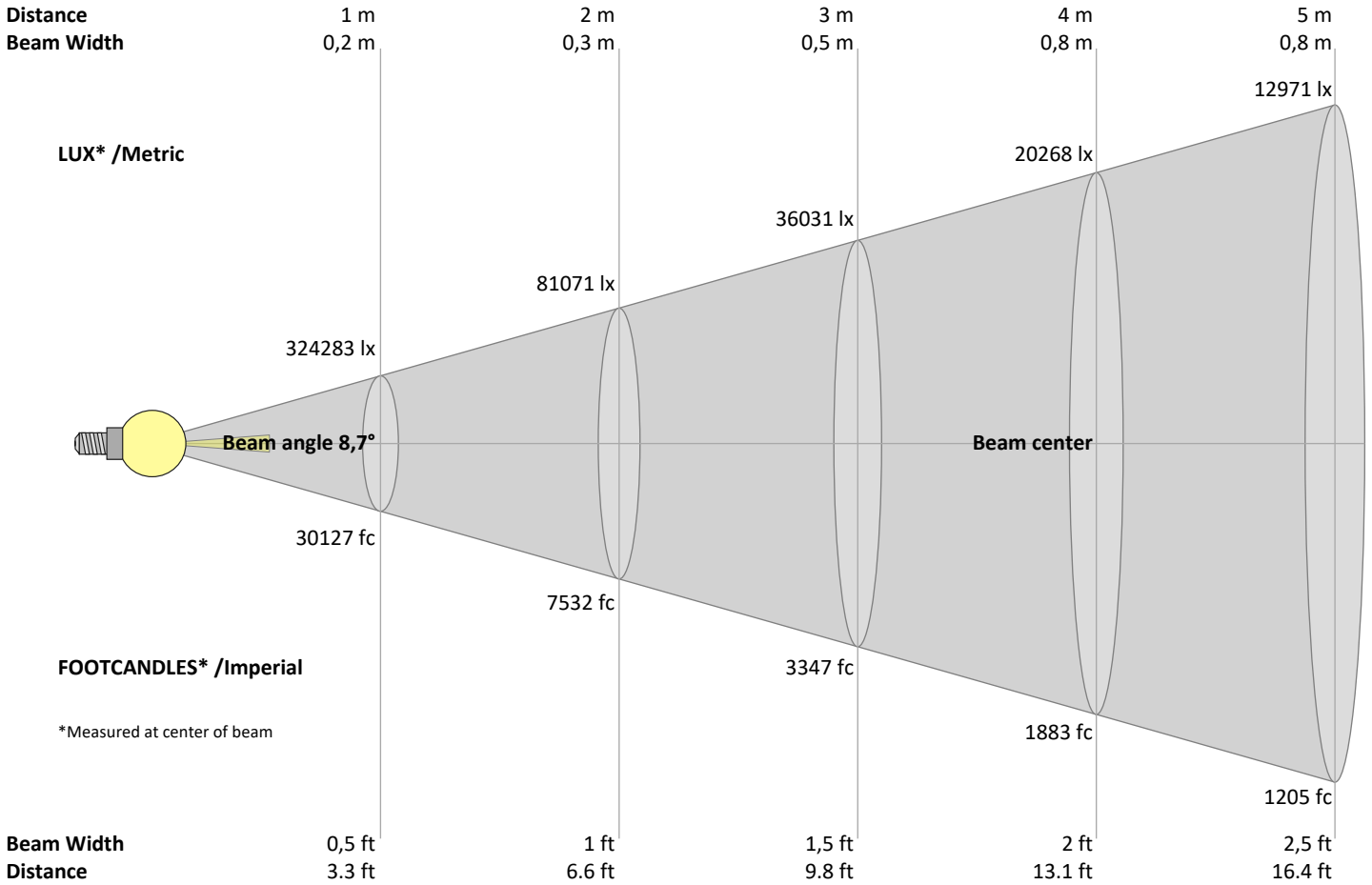
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Operator: JNJ



Beam Details



Beam intensities from 1 – 20 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m
3,3	6,6	9,8	13,1	16,4	19,7	23	26,2	29,5	32,8	36,1	39,4	42,7	45,9	49,2	52,5	55,8	59,1	62,3	65,6	ft
324283	81071	36031	20268	12971	9008	6618	5067	4003	3243	2680	2252	1919	1655	1441	1267	1122	1001	898	811	lux
30126,9	7531,7	3347,4	1882,9	1205,1	836,9	614,8	470,7	371,9	301,3	249	209,2	178,3	153,7	133,9	117,7	104,2	93	83,5	75,3	fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
324K	315K	285K	237K	181K	129K	86K	56K	34K	20K	12K	8K	6K	5K	4K	4K	4K	3K	3K	2K	cd
100%	97%	88%	73%	56%	40%	27%	17%	10%	6%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	of 0°val

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
324K	315K	285K	237K	181K	129K	86K	56K	34K	20K	12K	8K	6K	5K	4K	4K	4K	3K	3K	2K	cd
100%	97%	88%	73%	56%	40%	27%	17%	10%	6%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	of 0°val

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
324K	312K	283K	237K	182K	129K	87K	56K	34K	21K	14K	9K	7K	6K	5K	4K	4K	3K	3K	2K	cd
100%	96%	87%	73%	56%	40%	27%	17%	11%	7%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	of 0°val

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	γ
324K	312K	283K	237K	182K	129K	87K	56K	34K	21K	14K	9K	7K	6K	5K	4K	4K	3K	3K	2K	cd
100%	96%	87%	73%	56%	40%	27%	17%	11%	7%	4%	3%	2%	2%	1%	1%	1%	1%	1%	1%	of 0°val