

Light Measurement Report

Print date: 04/12/2024

Measurement date and time: 28/11/2024 18.13.27 – Measurement no. VFR-241128-0180-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°
5°
8,54 m
588,4 W – PF 0,96 – DPF 0,98
231 V – 2,64 A
50 Hz

Tested Light Source

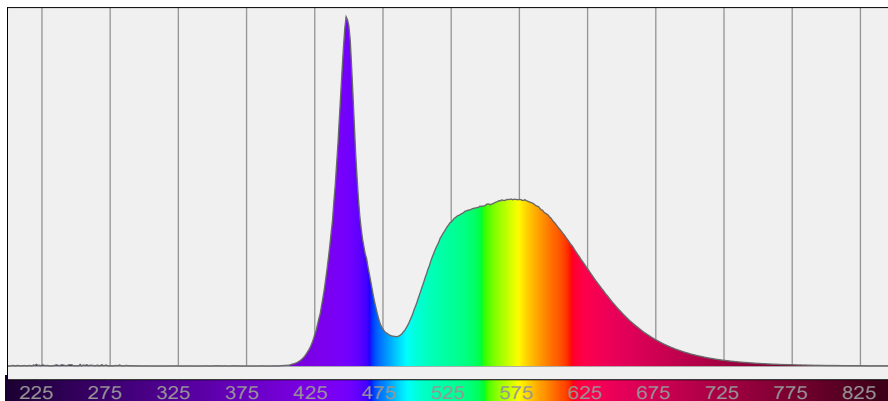
Product Name
Item No. and Manufacturer
Product Description (line 1)

MB-8 - RGBW
50100002-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

90833 lm – 1,69% / 98,31%
154 lm/W
30638 cd – 116,5°
CCT = 5537 K / 5537 K
CRI 72,2
R_f 73,0 – R_g 94,7
Duv 0,0010



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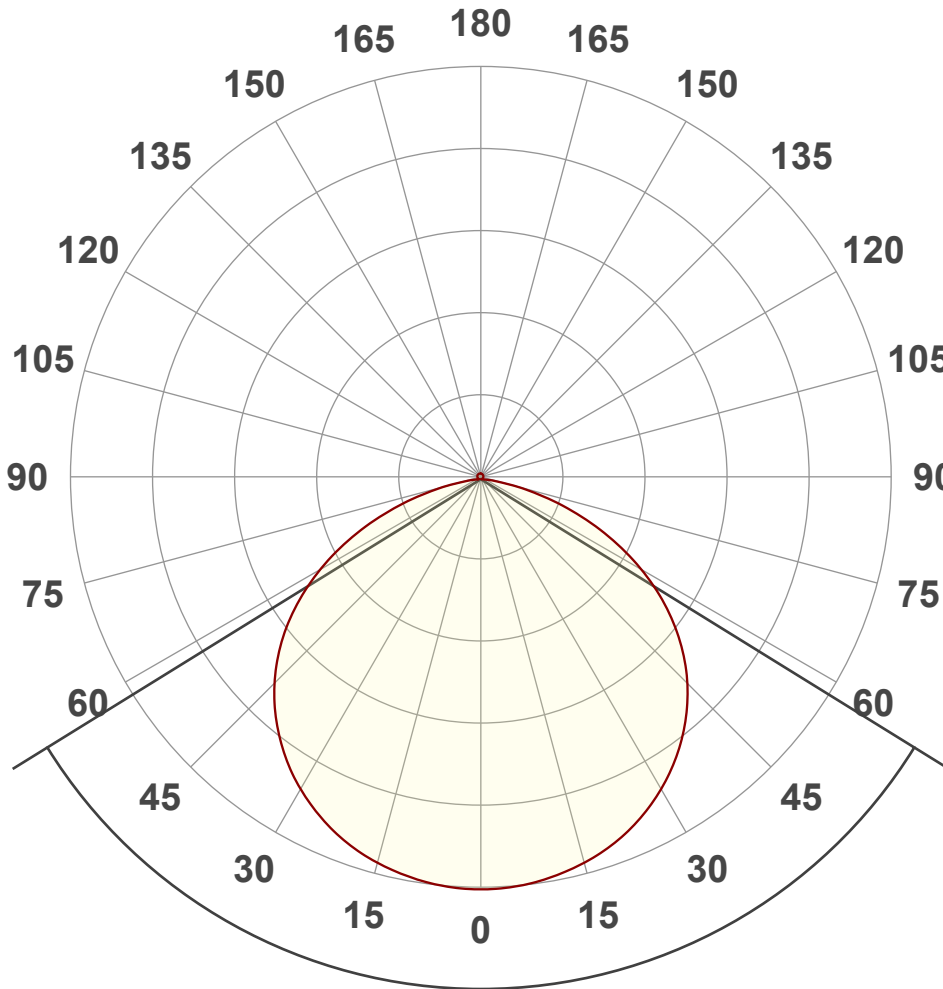
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



116,5°

Main Values

Output (Stabilized) - (total Lumen)	90833 lm
Lumen Up% / Down%	1,69% / 98,31%
Peak Intensity	30638 cd
Beam Angle (50%)	116,5°
Beam Angle (90%)	116,5°
Beam Angle (10%)	116,5°

Cut-off Angle

Average 2,5%	168,9°
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Field Angle

Average 10%	156,1°
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Intensity Ratio

In 120° cone	79,8%
In 90° cone	53,6%

C000-C180

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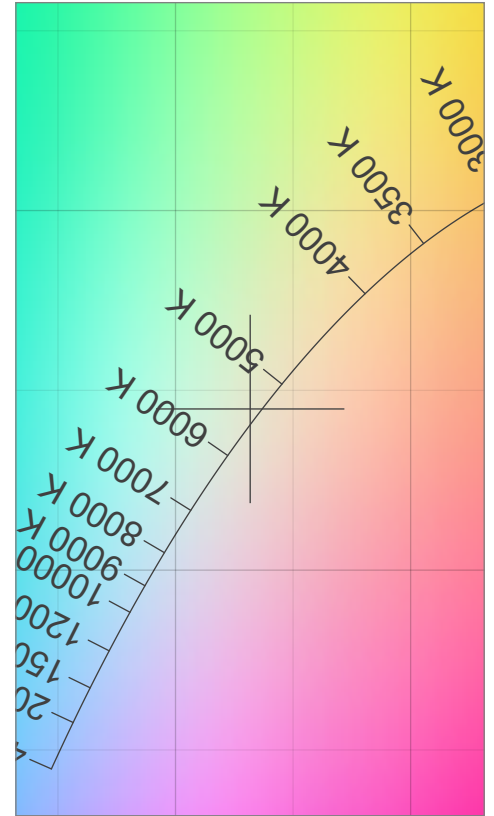
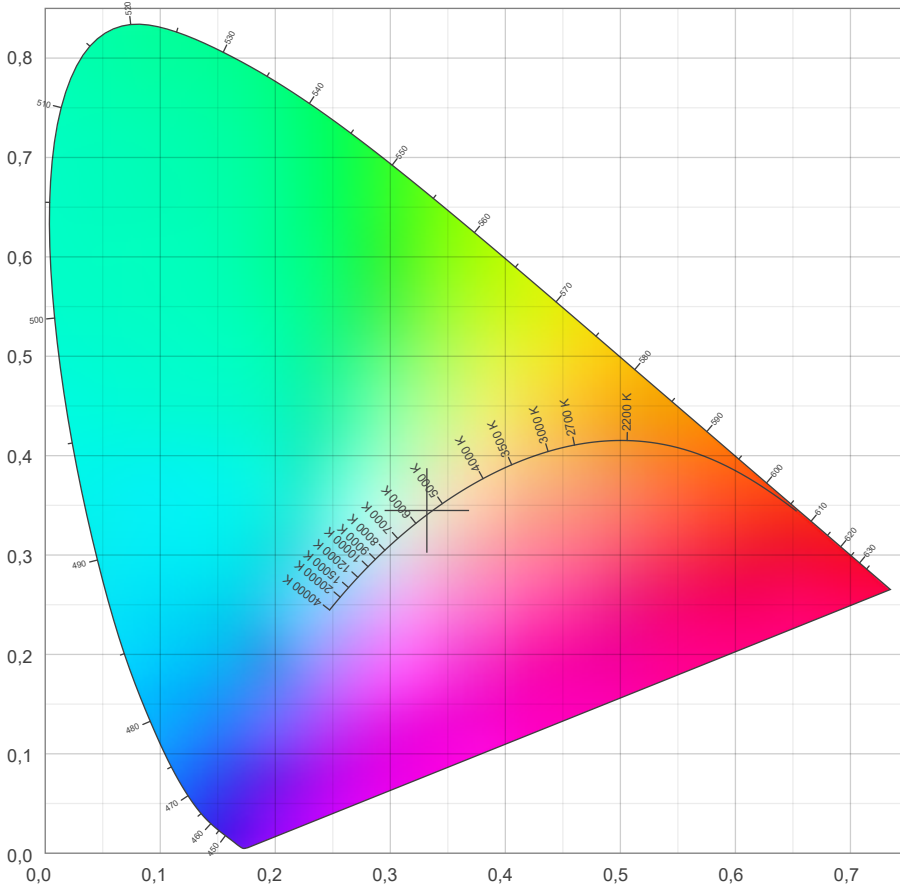
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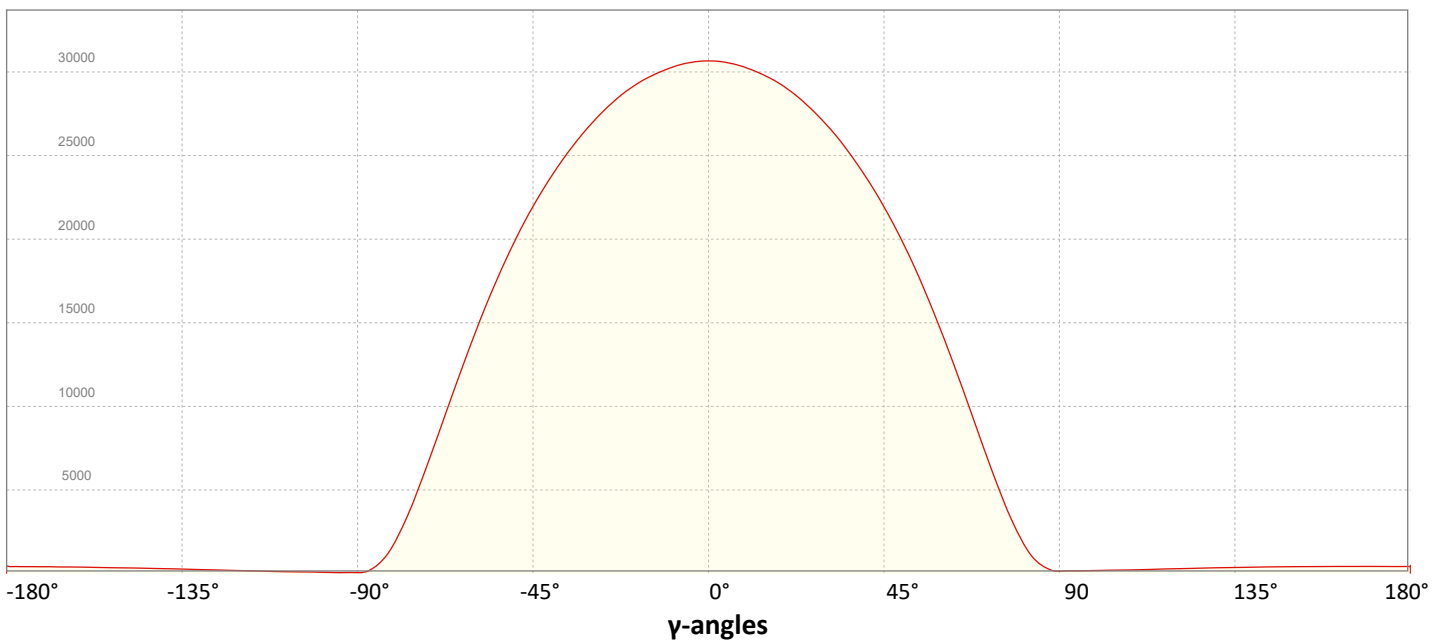
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CIE 1931



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



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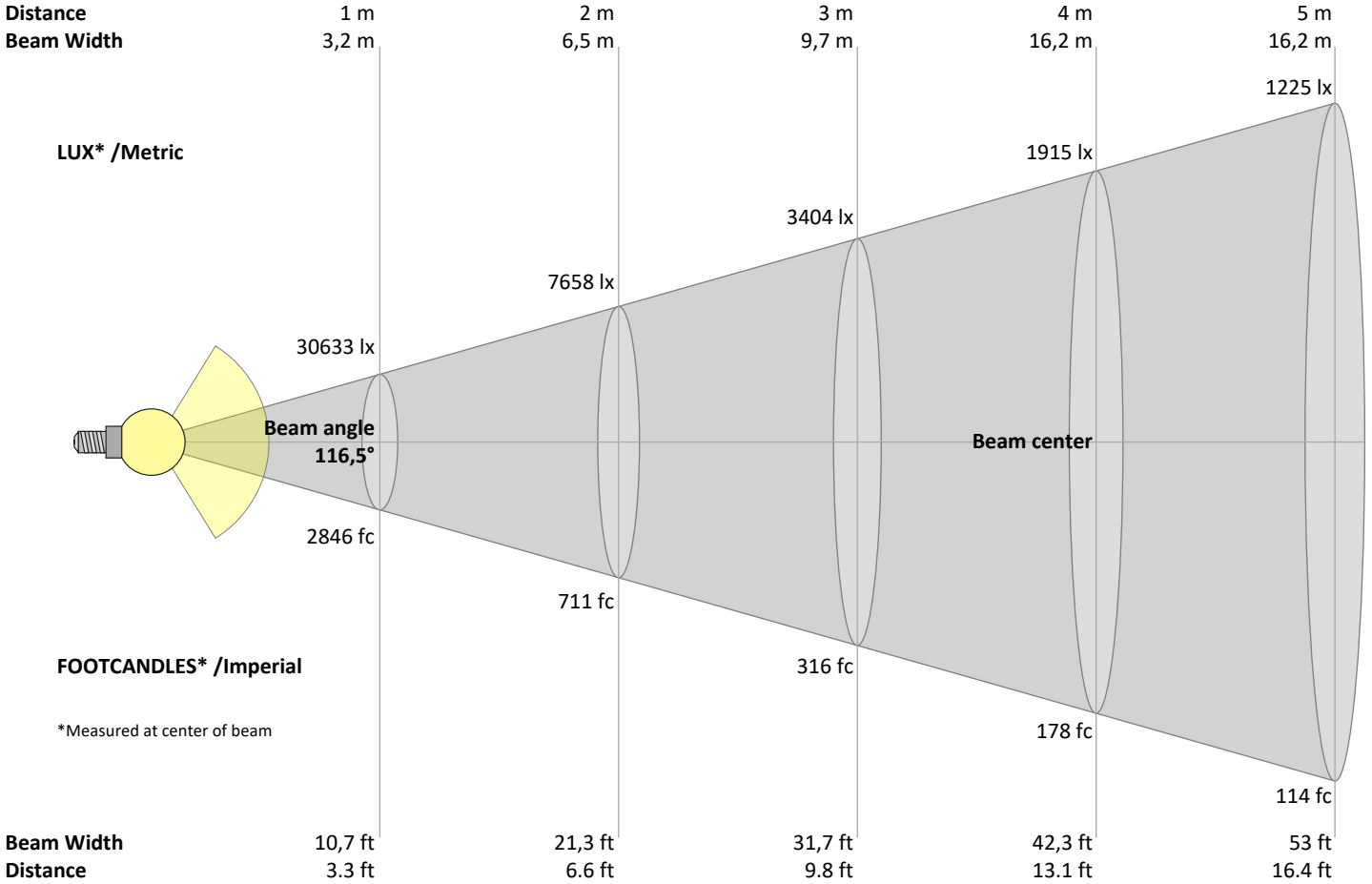
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Beam Details



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
30633	7658	3404	1915	1225	851	625	479	378	306	253	213	181	156	136	120	106	95	85	77	lux
2845,9	711,5	316,2	177,9	113,8	79,1	58,1	44,5	35,1	28,5	23,5	19,8	16,8	14,5	12,6	11,1	9,8	8,8	7,9	7,1	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
30,6K	30,5K	30,2K	29,7K	29,0K	28,1K	26,9K	25,5K	23,8K	21,9K	19,7K	17,1K	14,3K	11,1K	7,9K	4,8K	2,2K	0,6K	0,1K	0,1K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	64%	56%	47%	36%	26%	16%	7%	2%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
30,6K	30,5K	30,2K	29,7K	29,0K	28,1K	26,9K	25,5K	23,8K	21,9K	19,7K	17,1K	14,3K	11,1K	7,9K	4,8K	2,2K	0,6K	0,1K	0,1K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	64%	56%	47%	36%	26%	16%	7%	2%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
30,6K	30,5K	30,2K	29,7K	29,0K	28,1K	26,9K	25,5K	23,8K	21,9K	19,7K	17,1K	14,3K	11,1K	7,9K	4,8K	2,2K	0,7K	0,2K	0,2K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	71%	64%	56%	47%	36%	26%	16%	7%	2%	1%	1%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
30,6K	30,5K	30,2K	29,7K	29,0K	28,1K	26,9K	25,5K	23,8K	21,9K	19,7K	17,1K	14,3K	11,1K	7,9K	4,8K	2,2K	0,7K	0,2K	0,2K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	71%	64%	56%	47%	36%	26%	16%	7%	2%	1%	1%	of 0°val