

# Light Measurement Report

Print date: 04/12/2024

Measurement date and time: 28/11/2024 10.18.45 – Measurement no. VFR-241128-0089-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  
 $\gamma$  (gamma)-Resolution  
Test Distance  
Input Power, Power and Displ. Factors  
Input RMS Voltage and Current  
Frequency of Input Power

2 planes – 180°  
5°  
3,84 m  
294 W – PF 0,94 – DPF 0,95  
231 V – 1,35 A  
50 Hz

## Tested Light Source

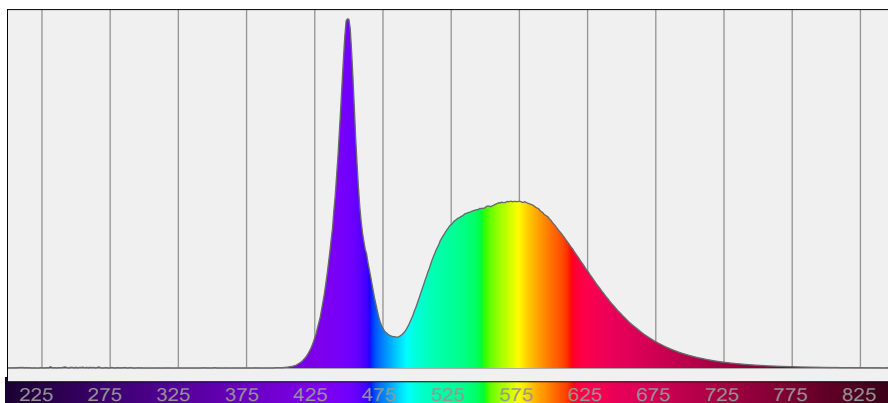
Product Name  
Item No. and Manufacturer  
Product Description (line 1)

MB-4 -RGBW  
50200002-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

44648 lm – 2,17% / 97,83%  
152 lm/W  
15036 cd – 116,8°  
CCT = 5587 K / 5587 K  
CRI 72,6  
R<sub>f</sub> 73,3 – R<sub>g</sub> 94,5  
Duv 0,0014



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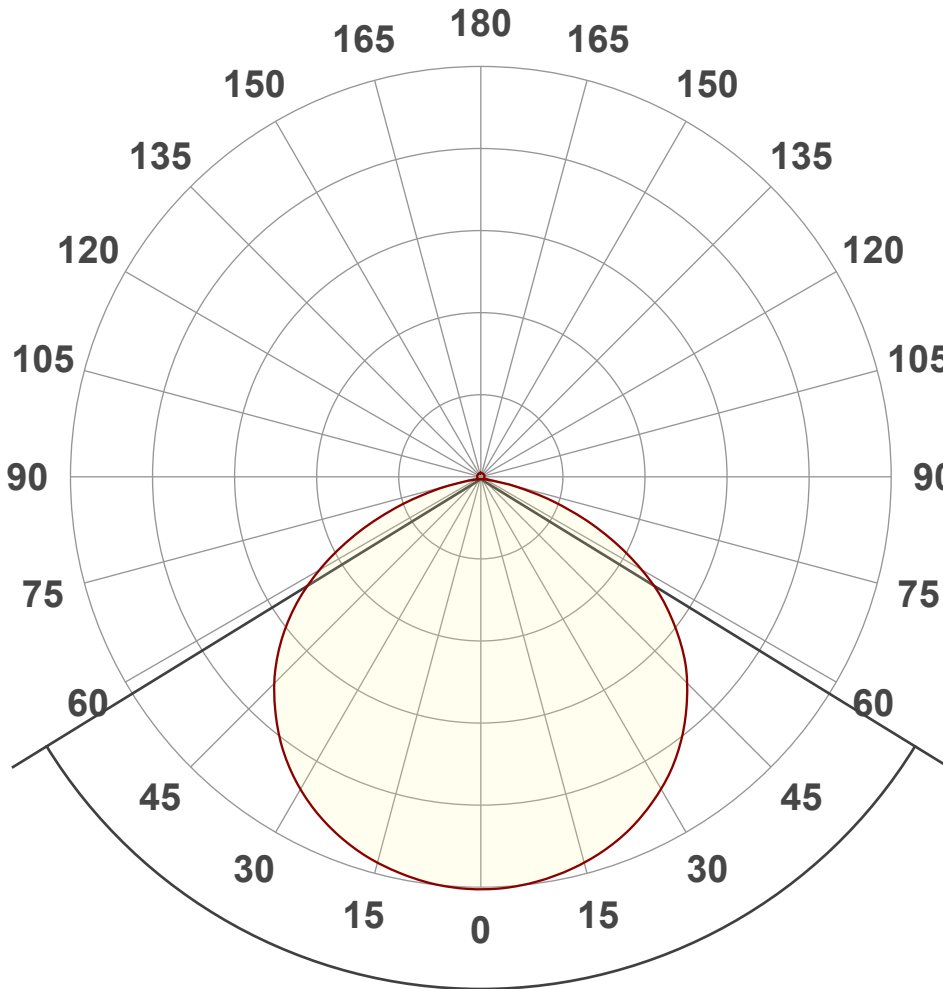
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



**116,8°**

### Main Values

Output (Stabilized) - (total Lumen)	44648 lm
Lumen Up% / Down%	2,17% / 97,83%
Peak Intensity	15036 cd
Beam Angle (50%)	116,8°
Beam Angle (90%)	116,8°
Beam Angle (10%)	116,8°

### Cut-off Angle

Average 2,5%	167,4°
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### Field Angle

Average 10%	155,2°
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### Intensity Ratio

In 120° cone	79,7%
In 90° cone	53,5%

**C000-C180**



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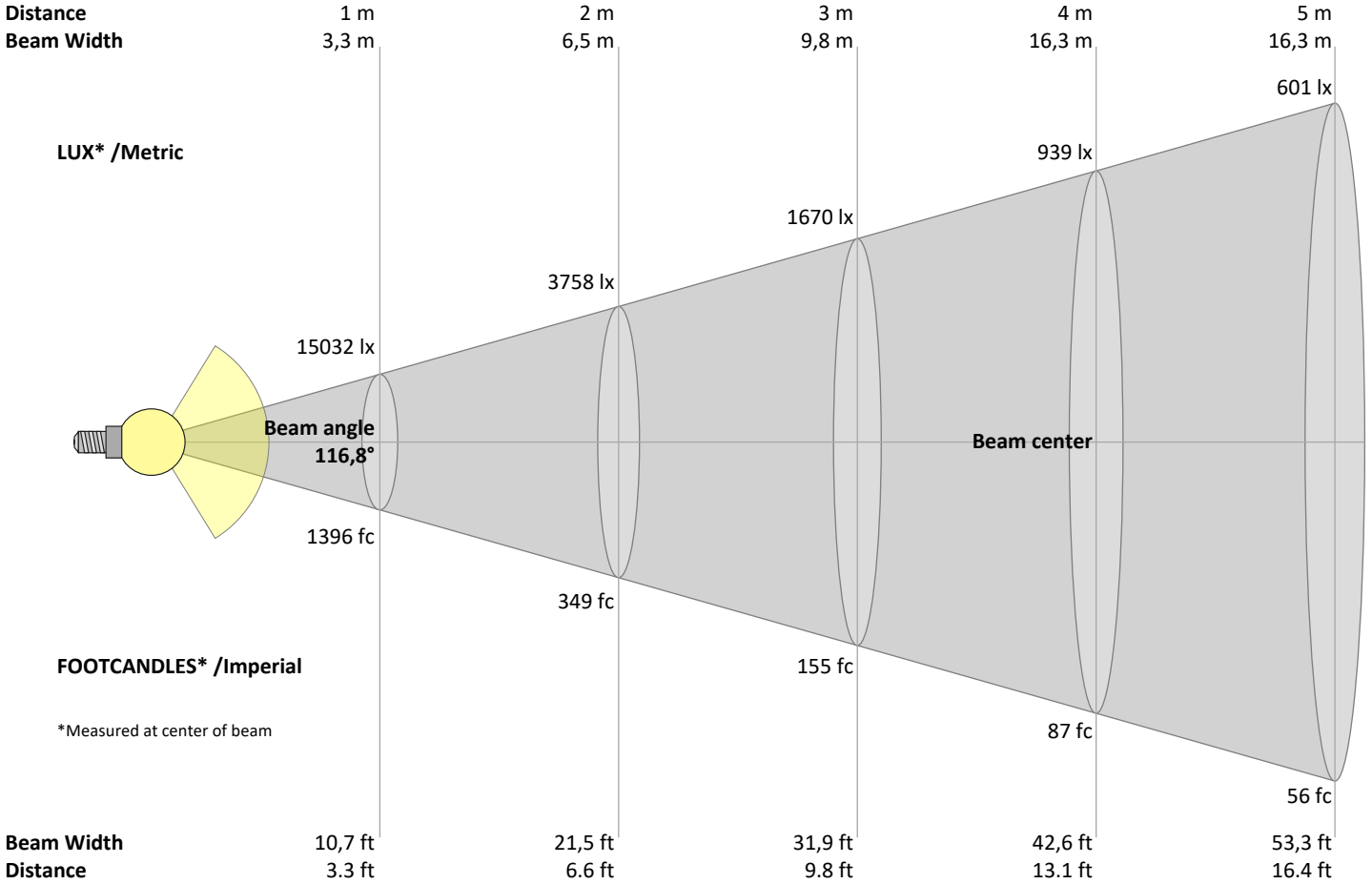
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## Beam Details



## 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
15032	3758	1670	939	601	418	307	235	186	150	124	104	89	77	67	59	52	46	42	38	lux
1396,5	349,1	155,2	87,3	55,9	38,8	28,5	21,8	17,2	14	11,5	9,7	8,3	7,1	6,2	5,5	4,8	4,3	3,9	3,5	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
15,0K	15,0K	14,8K	14,6K	14,2K	13,8K	13,2K	12,5K	11,7K	10,7K	9,7K	8,4K	7,0K	5,4K	3,8K	2,2K	1,0K	0,3K	0,1K	0,1K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	71%	64%	56%	47%	36%	25%	15%	7%	2%	1%	1%	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
15,0K	15,0K	14,8K	14,6K	14,2K	13,8K	13,2K	12,5K	11,7K	10,7K	9,7K	8,4K	7,0K	5,4K	3,8K	2,2K	1,0K	0,3K	0,1K	0,1K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	71%	64%	56%	47%	36%	25%	15%	7%	2%	1%	1%	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
15,0K	15,0K	14,8K	14,6K	14,2K	13,8K	13,2K	12,5K	11,7K	10,8K	9,7K	8,5K	7,0K	5,5K	3,8K	2,2K	1,0K	0,3K	0,1K	0,1K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	65%	56%	47%	36%	25%	15%	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
15,0K	15,0K	14,8K	14,6K	14,2K	13,8K	13,2K	12,5K	11,7K	10,8K	9,7K	8,5K	7,0K	5,5K	3,8K	2,2K	1,0K	0,3K	0,1K	0,1K	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	65%	56%	47%	36%	25%	15%	7%	2%	1%	1%	of 0°val