

# Light Measurement Report

Print date: 04/12/2024

Measurement date and time: 28/11/2024 13.20.21 – Measurement no. VFR-241128-0144-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°  
2,5°  
3,84 m  
627,5 W – PF 0,95 – DPF 0,97  
230 V – 2,86 A  
50 Hz

## Tested Light Source

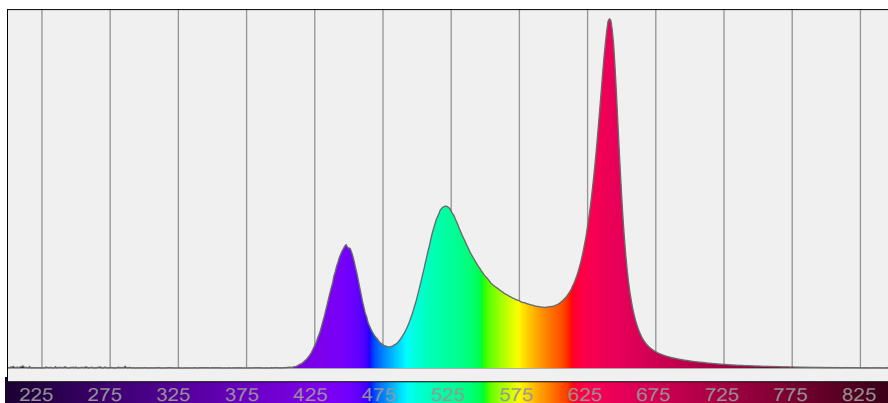
Product Name  
Item No. and Manufacturer  
Product Description (line 1)

PJ5\_RGBW\_WIDE  
50100001-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

17458 lm – 2,11% / 97,89%  
28 lm/W  
14986 cd – 47,2°  
CCT = 4356 K / 4356 K  
CRI 69,6  
R<sub>f</sub> 80,0 – R<sub>g</sub> 115,8  
Duv 0,0050



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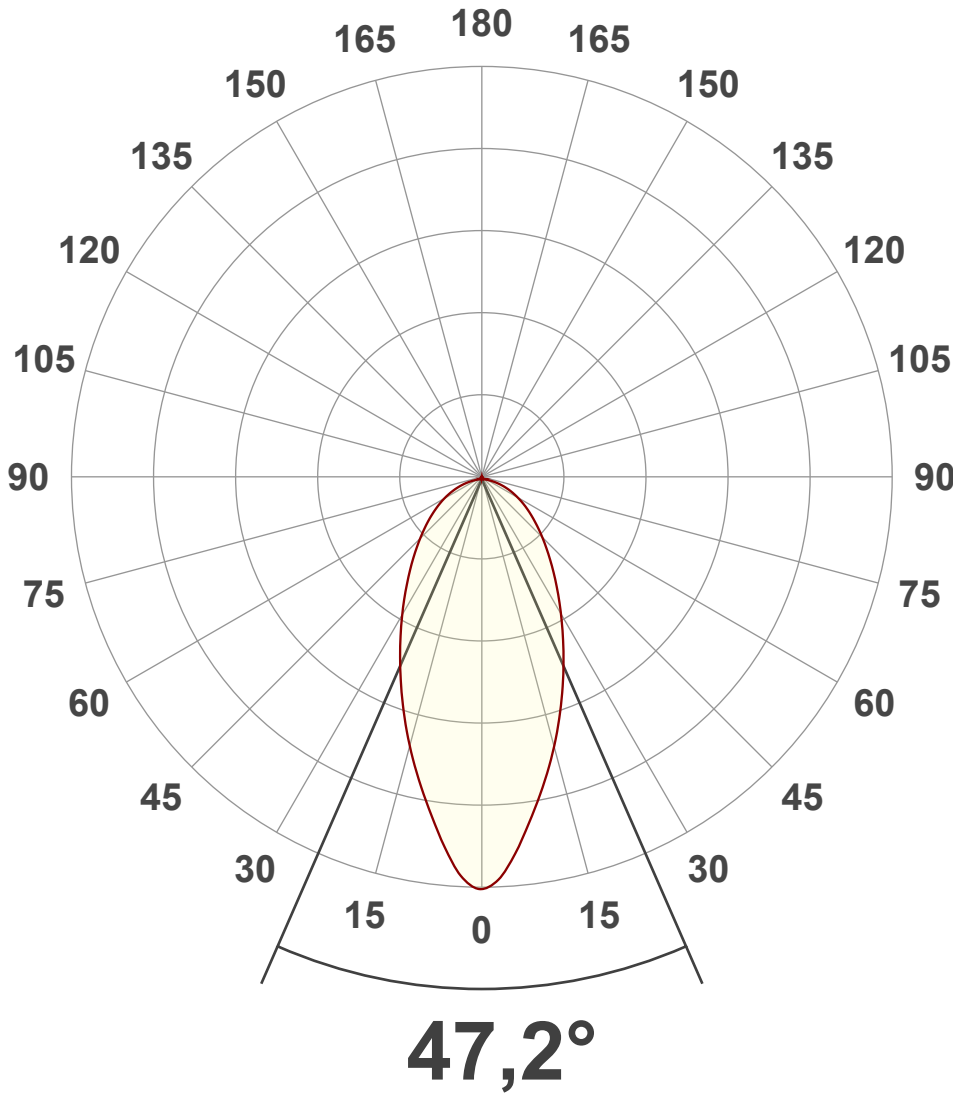
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



## Main Values

Output (Stabilized) - (total Lumen)	17458 lm
Lumen Up% / Down%	2,11% / 97,89%
Peak Intensity	14986 cd
Beam Angle (50%)	47,2°
Beam Angle (90%)	47,2°
Beam Angle (10%)	47,2°

## Cut-off Angle

Average 2,5%	159,3°
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## Field Angle

Average 10%	126,4°
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## Intensity Ratio

In 120° cone	85,2%
In 90° cone	67,1%

**C000-C180**

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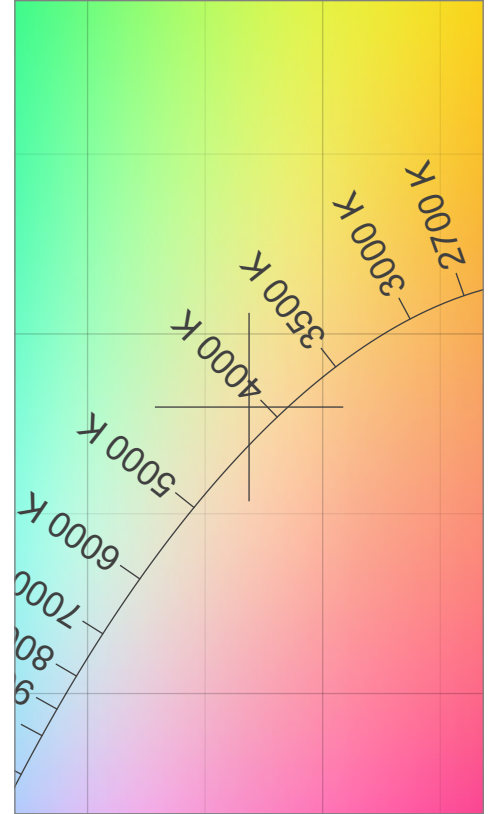
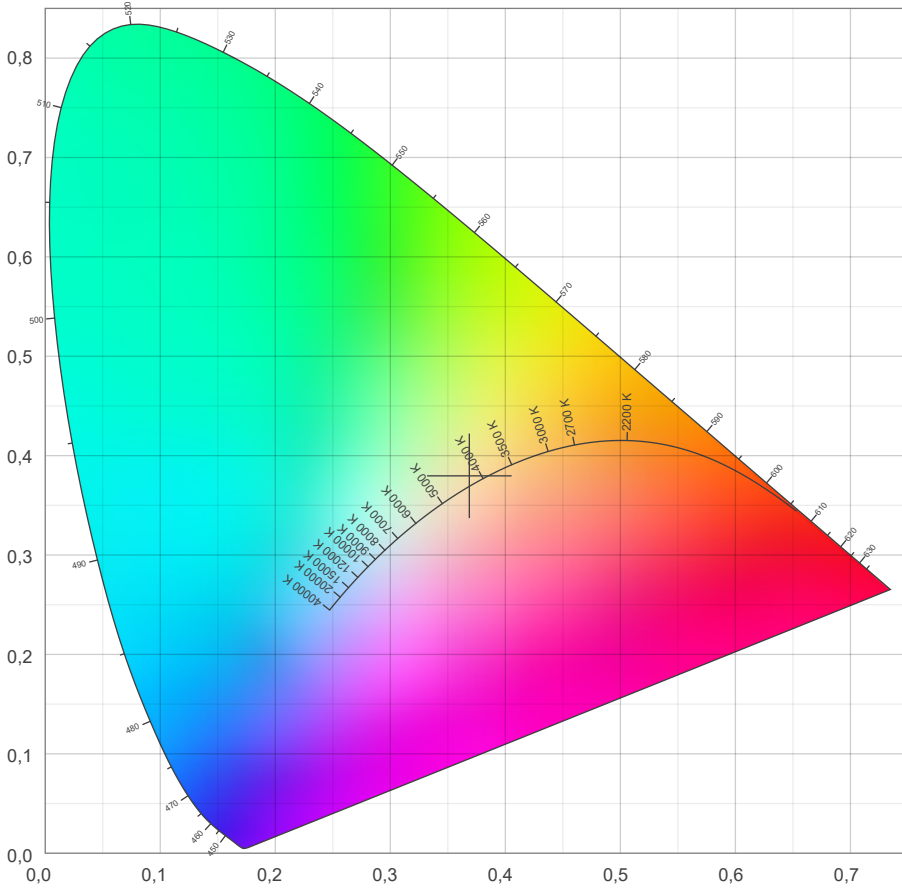
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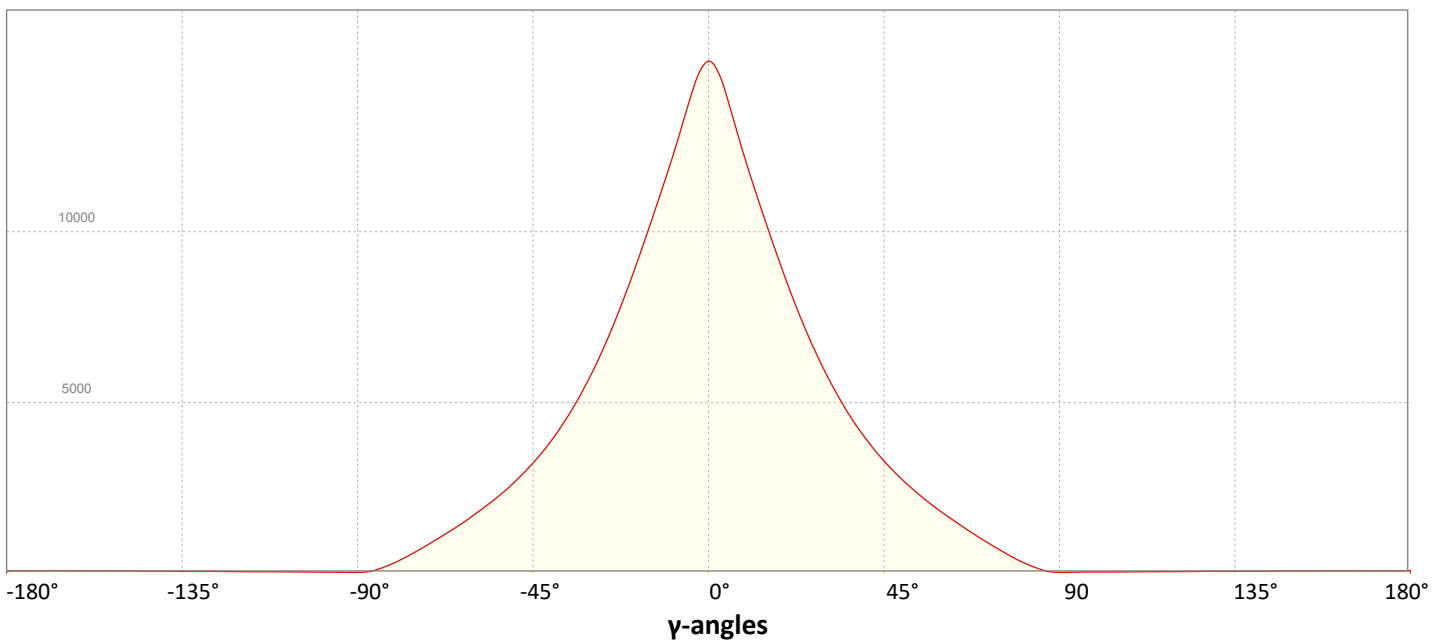
Operator: JNI



## CIE 1931



## Linear distribution diagram - Intensity (candela) vs $\gamma$ -angle



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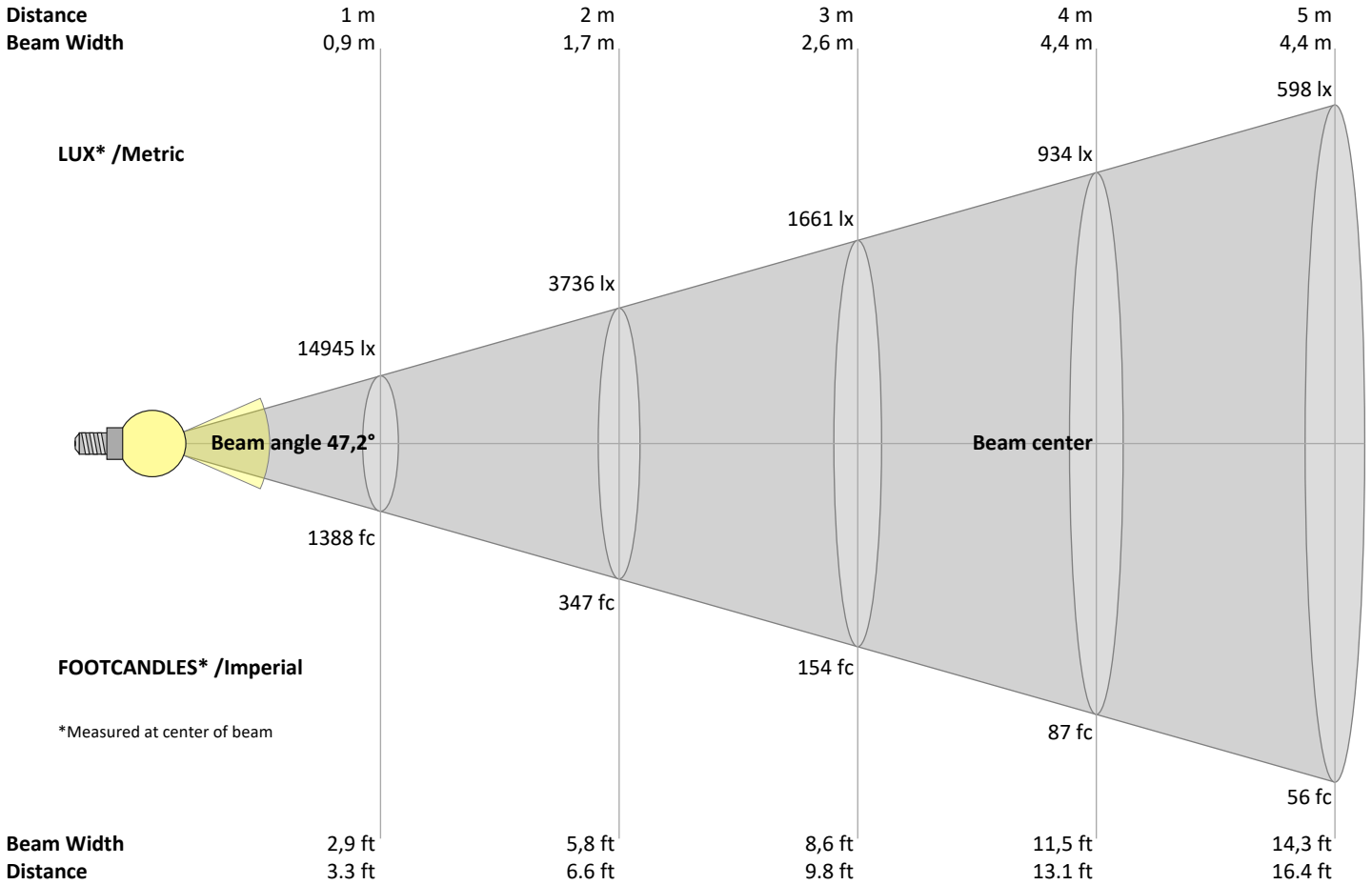
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Operator: JNJ



## 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
14945	3736	1661	934	598	415	305	234	185	149	124	104	88	76	66	58	52	46	41	37	lux
1388,4	347,1	154,3	86,8	55,5	38,6	28,3	21,7	17,1	13,9	11,5	9,6	8,2	7,1	6,2	5,4	4,8	4,3	3,8	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
14,9K	13,8K	11,9K	10,2K	8,6K	7,1K	5,8K	4,8K	3,9K	3,2K	2,7K	2,2K	1,7K	1,3K	1,0K	0,6K	0,3K	0,1K	0,0K	0,0K	cd
100%	92%	80%	68%	57%	48%	39%	32%	26%	22%	18%	14%	12%	9%	7%	4%	2%	1%	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
14,9K	13,8K	11,9K	10,2K	8,6K	7,1K	5,8K	4,8K	3,9K	3,2K	2,7K	2,2K	1,7K	1,3K	1,0K	0,6K	0,3K	0,1K	0,0K	0,0K	cd
100%	92%	80%	68%	57%	48%	39%	32%	26%	22%	18%	14%	12%	9%	7%	4%	2%	1%	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
14,9K	13,8K	11,9K	10,2K	8,6K	7,1K	5,9K	4,8K	4,0K	3,3K	2,7K	2,2K	1,8K	1,4K	1,0K	0,7K	0,4K	0,1K	0,0K	0,0K	cd
100%	92%	80%	68%	57%	48%	39%	32%	27%	22%	18%	15%	12%	9%	7%	5%	2%	1%	0%	0%	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
14,9K	13,8K	11,9K	10,2K	8,6K	7,1K	5,9K	4,8K	4,0K	3,3K	2,7K	2,2K	1,8K	1,4K	1,0K	0,7K	0,4K	0,1K	0,0K	0,0K	cd
100%	92%	80%	68%	57%	48%	39%	32%	27%	22%	18%	15%	12%	9%	7%	5%	2%	1%	0%	0%	of 0°val