

# Light Measurement Report

Print date: 07/03/2023

Measurement date and time: 22/02/2023 12:53:35 – Measurement no. VFR-230222-3051-MS

Measurement tracking No. and Link: [VT230222-005853](#)

Operator:



## Laboratory and Equipment

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

DVT Light, Randers SV, Denmark  
LabSpion – Type C, horizontal  
LabSensor Model2 – 15/01/2021 – 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  
Warm-up Time and Variation

2 planes – 180°  
5°  
3,23 m  
530,5 W – PF 0,96 – DPF 0,98  
222 V – 2,49 A  
50 Hz  
Lamp stabilized in 20 min 45 sec – 2,0%

## Tested Light Source

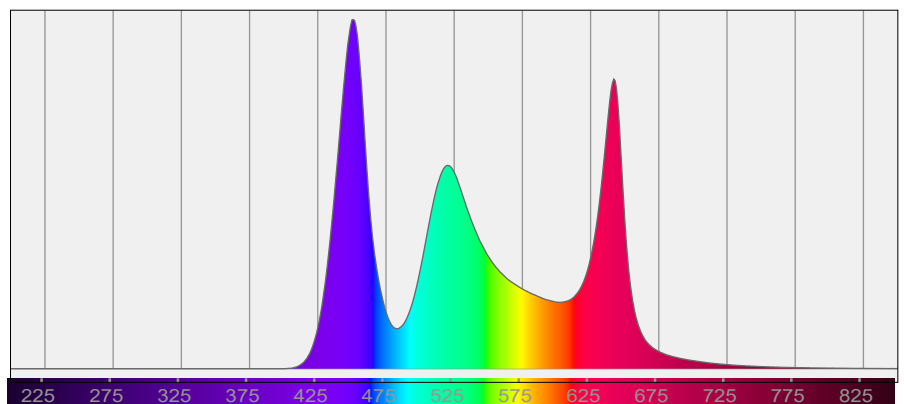
Product Name  
Item No. and Manufacturer  
Product Description (line 1)

PJ-5 Narrow Calibrated white LM-79  
50100001 PJ-5 RGBW – DVT Light

## 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 and MacAdam Steps  
Flicker

21795 lm – 0% / 100%  
41 lm/W  
378024 cd – 12,1°  
CCT = 9095 K / 9095 K  
CRI 76,9  
 $R_f$  81,5 –  $R_g$  113,3  
Duv 0,0028 – SDCM n/a  
SVM n/a – PstLM n/a



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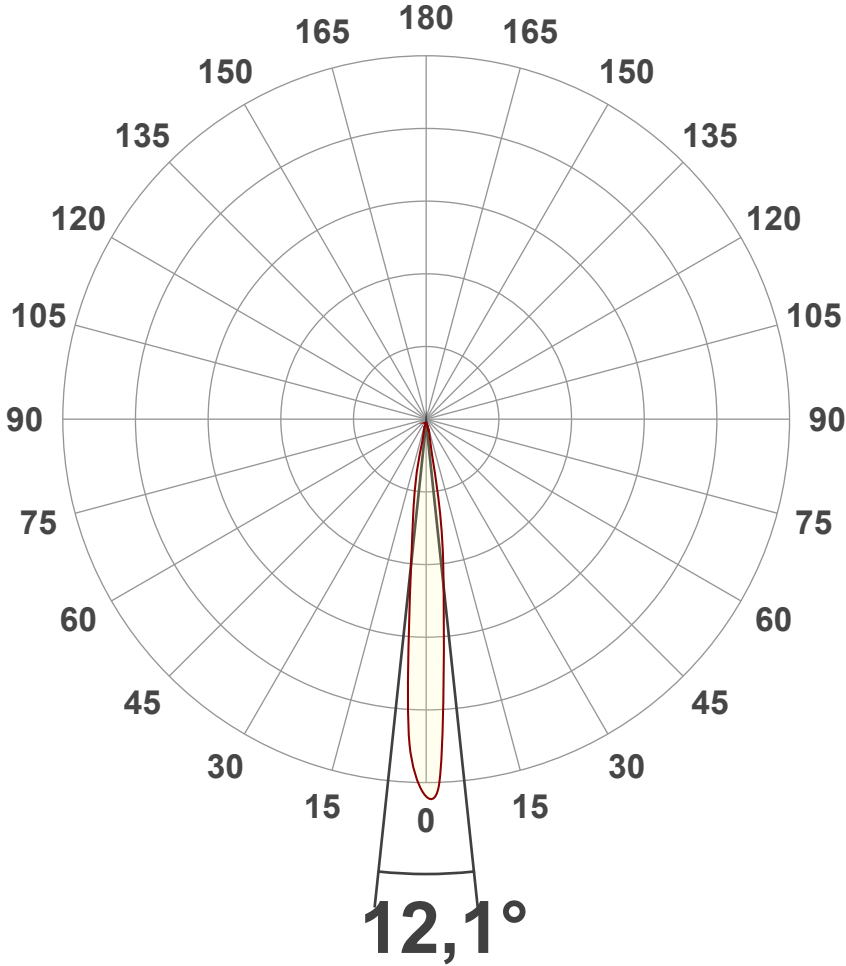
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



### Main Values

Output (Stabilized) - (total Lumen)	21795 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	378024 cd
Beam Angle (50%)	12,1°
Beam Angle (90%)	12,1°
Beam Angle (10%)	12,1°

### Cut-off Angle

Average 2,5%	31,4°
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### Field Angle

Average 10%	22,9°
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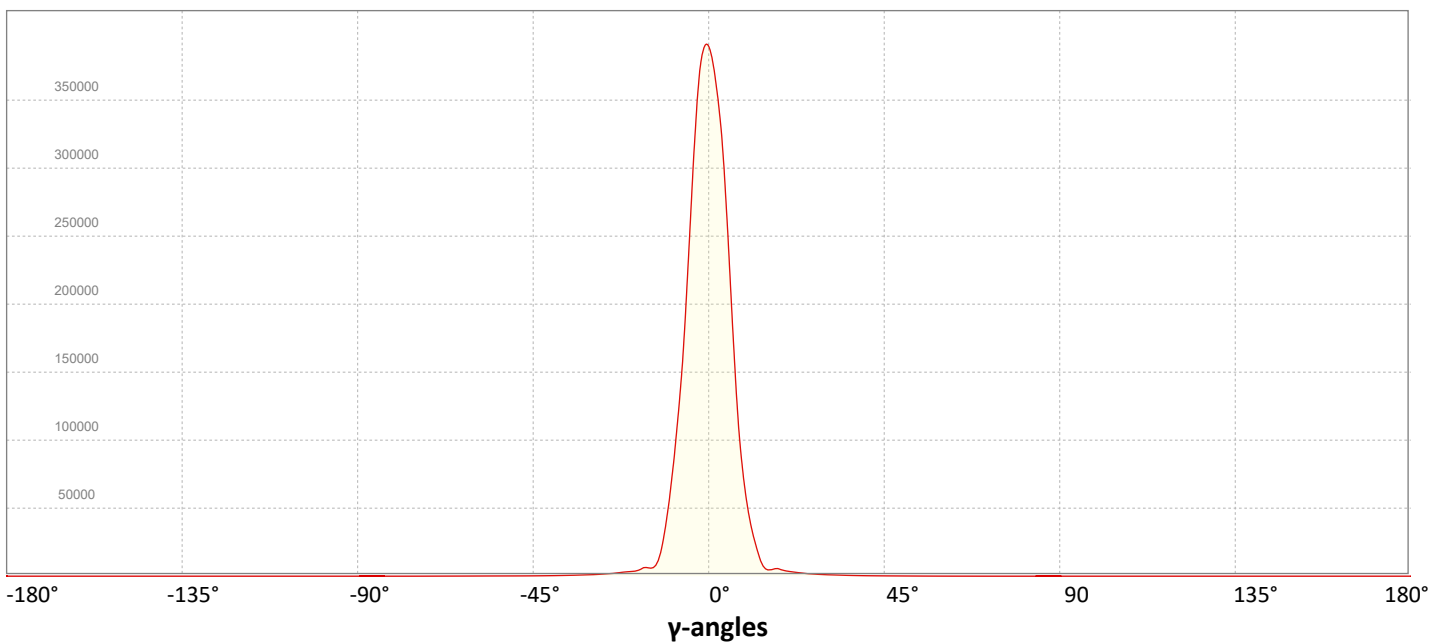
### Intensity Ratio

In 120° cone	99,7%
In 90° cone	98,9%

C000-C180

C090-C270

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



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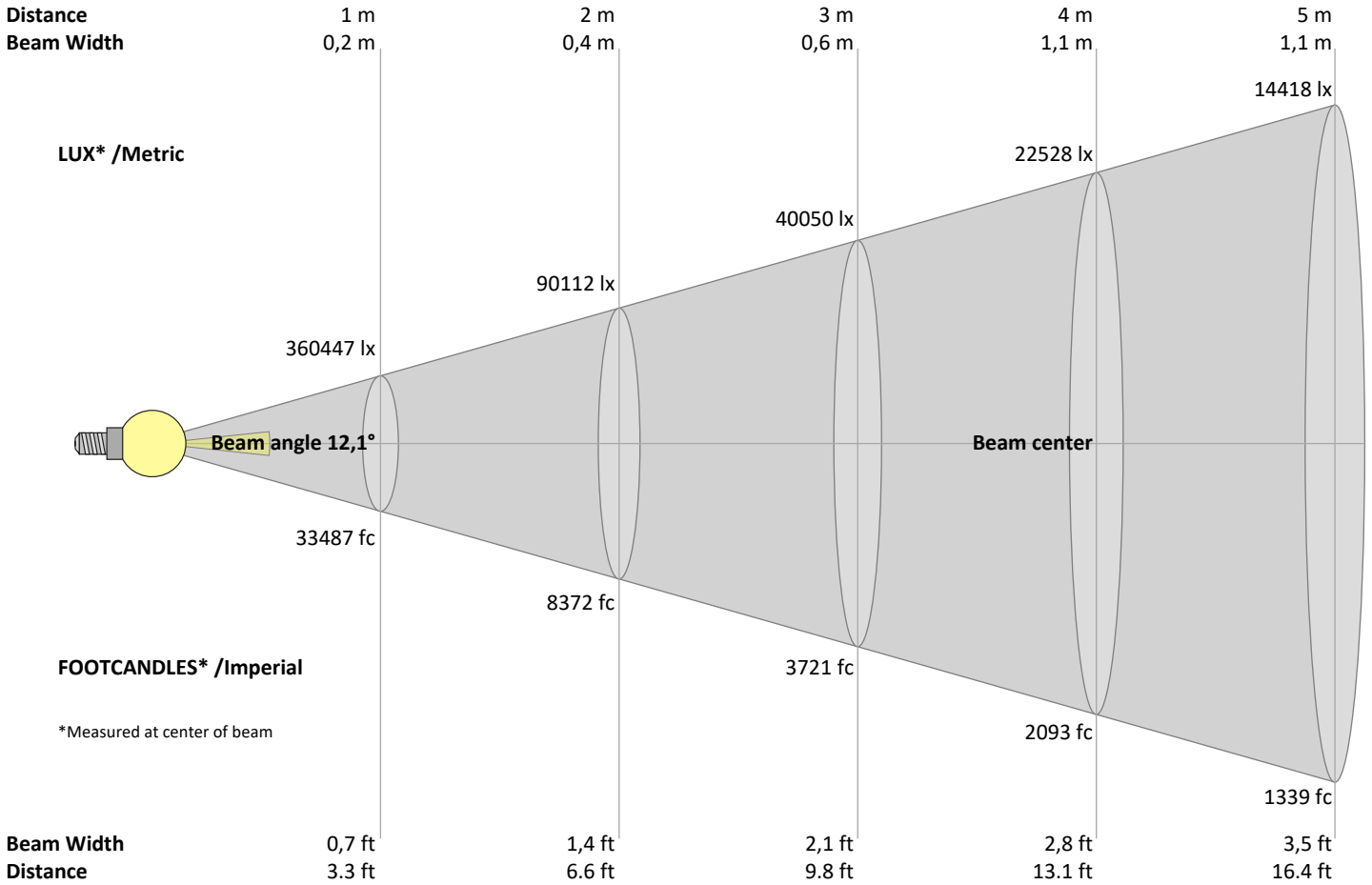
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Operator:



## 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
360447	90112	40050	22528	14418	10012	7356	5632	4450	3604	2979	2503	2133	1839	1602	1408	1247	1112	998	901	lux
33486,6	8371,7	3720,7	2092,9	1339,5	930,2	683,4	523,2	413,4	334,9	276,7	232,5	198,1	170,9	148,8	130,8	115,9	103,4	92,8	83,7	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
360K	369K	378K	331K	285K	239K	192K	146K	121K	96K	71K	46K	21K	18K	15K	12K	9K	6K	5K	5K	cd
100%	102%	105%	92%	79%	66%	53%	41%	34%	27%	20%	13%	6%	5%	4%	3%	2%	2%	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
360K	369K	378K	331K	285K	239K	192K	146K	121K	96K	71K	46K	21K	18K	15K	12K	9K	6K	5K	5K	cd
100%	102%	105%	92%	79%	66%	53%	41%	34%	27%	20%	13%	6%	5%	4%	3%	2%	2%	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
360K	352K	343K	334K	287K	240K	192K	145K	98K	81K	65K	48K	31K	14K	12K	10K	9K	7K	5K	5K	cd
100%	98%	95%	93%	80%	66%	53%	40%	27%	23%	18%	13%	9%	4%	3%	3%	2%	2%	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
360K	352K	343K	334K	287K	240K	192K	145K	98K	81K	65K	48K	31K	14K	12K	10K	9K	7K	5K	5K	cd
100%	98%	95%	93%	80%	66%	53%	40%	27%	23%	18%	13%	9%	4%	3%	3%	2%	2%	1%	1%	of 0°val