

Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 11:09:28 – Measurement no. VFR-230222-3048-MS

Measurement tracking No. and Link: [VT230222-008906](#)

Operator:

DVT
LIGHT

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

γ (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

575 W – PF 0,96 – DPF 0,98

225 V – 2,67 A

50 Hz

n/a – n/a%

Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 Narrow raw white peak

– DVT Light

Main Light Measurement Results

Output – 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

21553 lm – 0% / 100%

37 lm/W

327116 cd – 13,3°

CCT = 0 K / 0 K

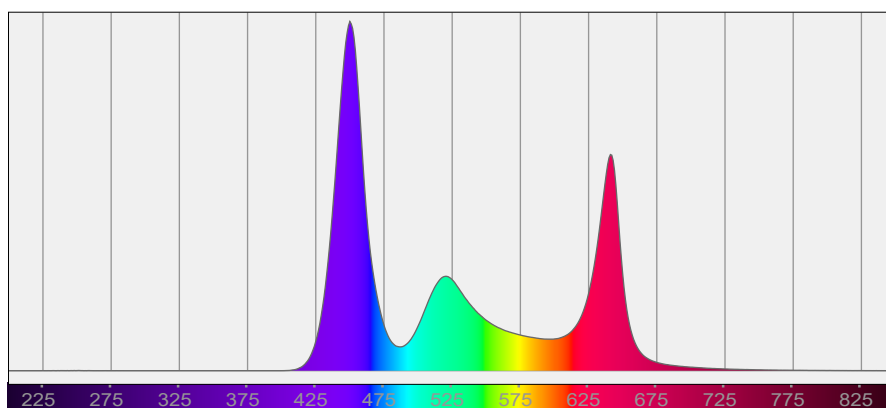
CRI 0,0

R_f 0,0 – R_g 0,0

Duv n/a – SDCM n/a

SVM n/a – PstLM n/a

No photo



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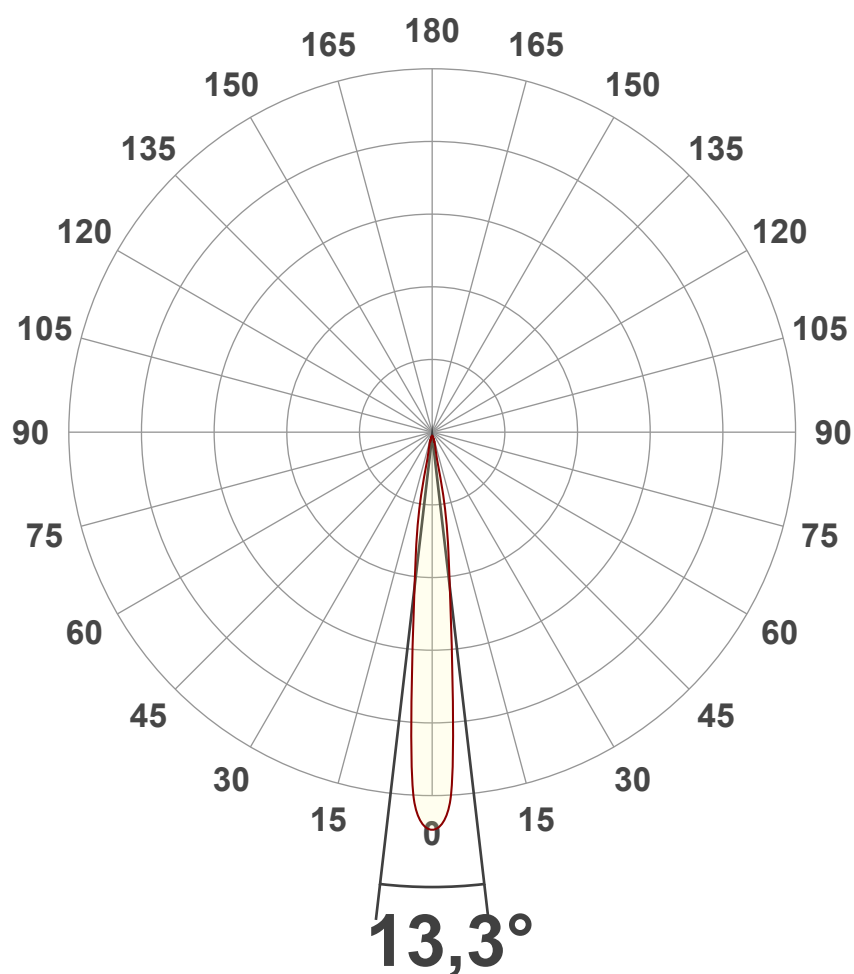
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	21553 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	327116 cd
Beam Angle (50%)	13,3°
Beam Angle (90%)	13,3°
Beam Angle (10%)	13,3°

Cut-off Angle

Average 2,5%	32,8°
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Field Angle

Average 10%	23,9°
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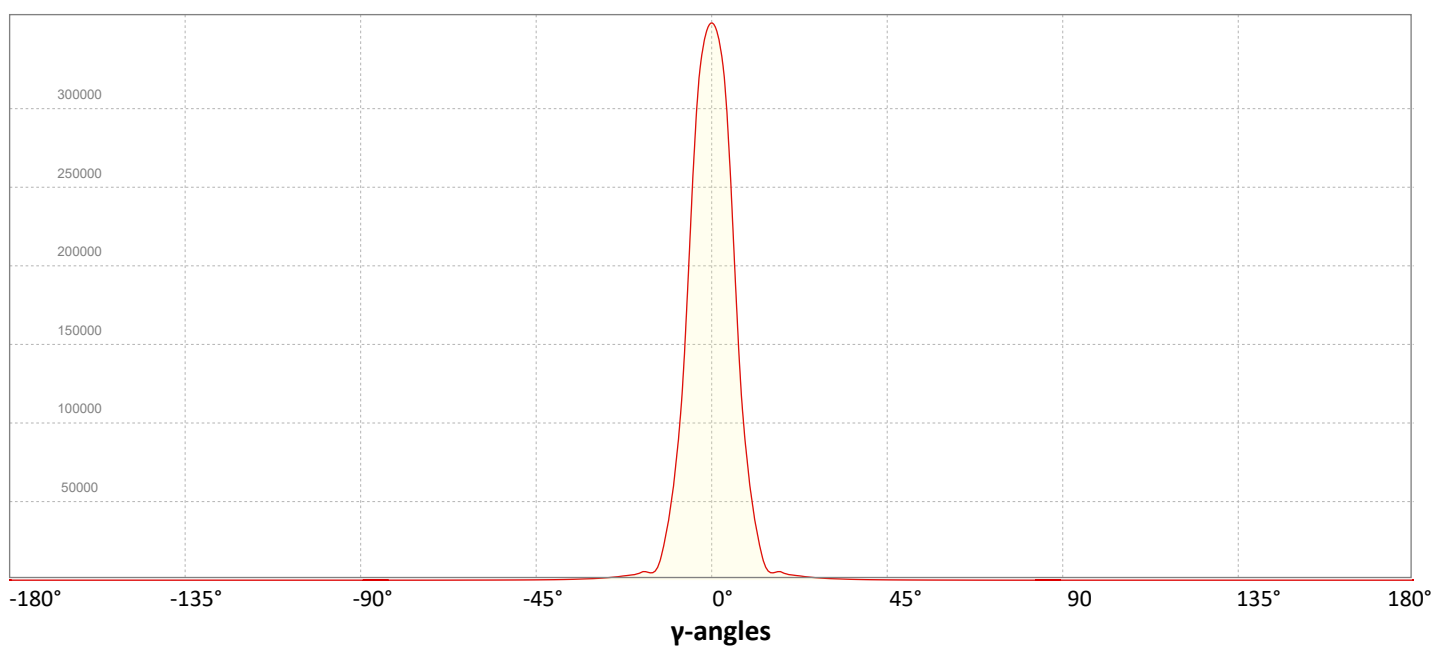
Intensity Ratio

In 120° cone	99,8%
In 90° cone	99,1%

C000-C180

C090-C270

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



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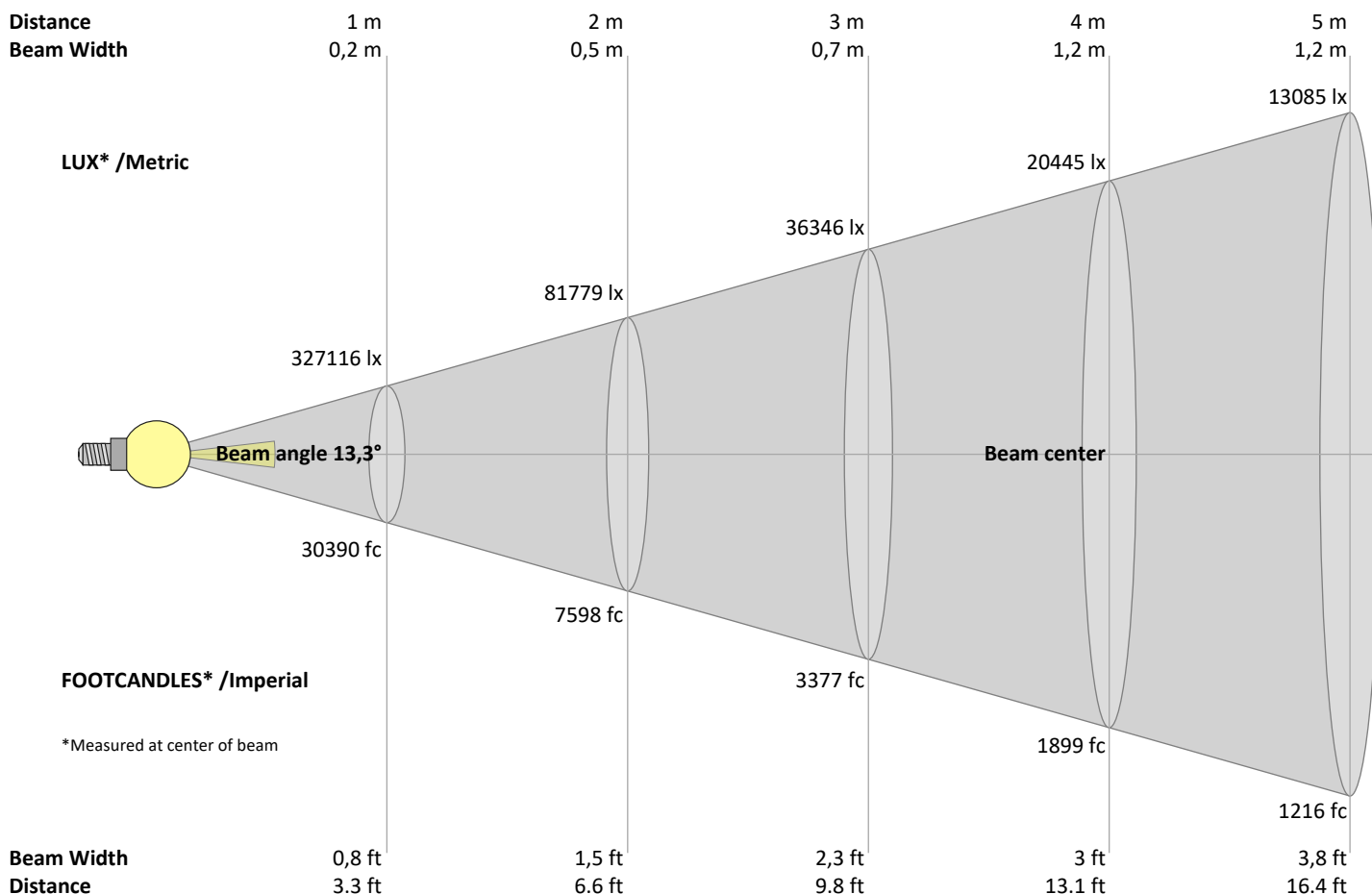
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Beam Details



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
327116	81779	36346	20445	13085	9087	6676	5111	4038	3271	2703	2272	1936	1669	1454	1278	1132	1010	906	818	lux
30390,1	7597,5	3376,7	1899,4	1215,6	844,2	620,2	474,8	375,2	303,9	251,2	211	179,8	155,1	135,1	118,7	105,2	93,8	84,2	76	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
327K	327K	327K	323K	279K	235K	191K	147K	106K	88K	69K	51K	32K	15K	13K	11K	9K	7K	5K	5K	cd
100%	100%	100%	99%	85%	72%	58%	45%	32%	27%	21%	15%	10%	5%	4%	3%	3%	2%	2%	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
327K	327K	327K	323K	279K	235K	191K	147K	106K	88K	69K	51K	32K	15K	13K	11K	9K	7K	5K	5K	cd
100%	100%	100%	99%	85%	72%	58%	45%	32%	27%	21%	15%	10%	5%	4%	3%	3%	2%	2%	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
327K	327K	327K	323K	279K	235K	191K	147K	106K	88K	69K	51K	32K	15K	13K	11K	9K	7K	5K	5K	cd
100%	100%	100%	99%	85%	72%	58%	45%	32%	27%	21%	15%	10%	5%	4%	3%	3%	2%	2%	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
327K	327K	327K	323K	279K	235K	191K	147K	106K	88K	69K	51K	32K	15K	13K	11K	9K	7K	5K	5K	cd
100%	100%	100%	99%	85%	72%	58%	45%	32%	27%	21%	15%	10%	5%	4%	3%	3%	2%	2%	1%	of 0°val