

Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 10:58:18 – Measurement no. VFR-230222-3041-MS

Measurement tracking No. and Link: [VT230222-007733](#)

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

279,2 W – PF 0,93 – DPF 0,95

223 V – 1,34 A

50 Hz

Not completed – 2,0%

Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 narrow Green

– 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

8893 lm – 0% / 100%

32 lm/W

121825 cd – 13,9°

CCT = 0 K / 0 K

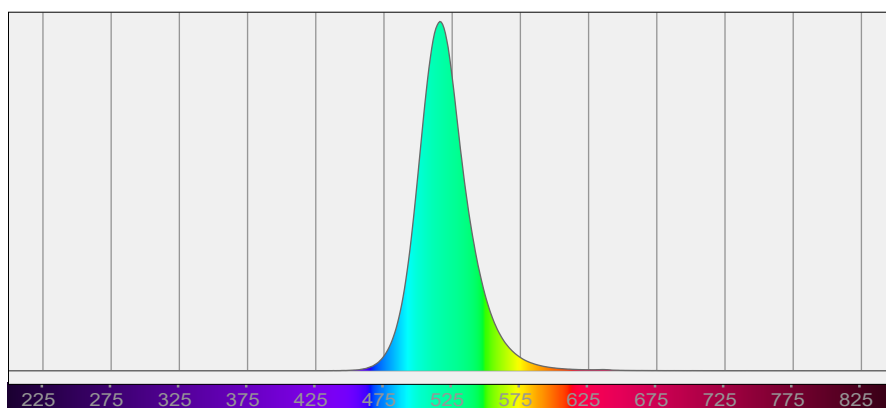
CRI 0,0

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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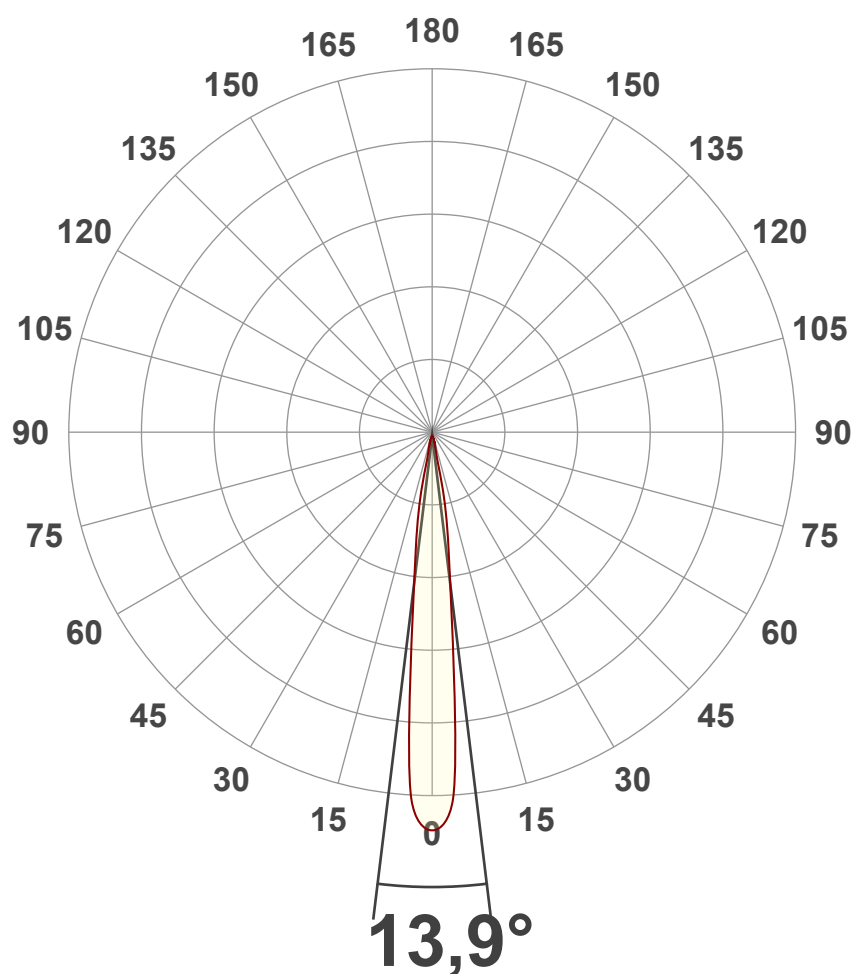
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	8893 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	121825 cd
Beam Angle (50%)	13,9°
Beam Angle (90%)	13,9°
Beam Angle (10%)	13,9°

Cut-off Angle

Average 2,5%	34°
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Field Angle

Average 10%	24,6°
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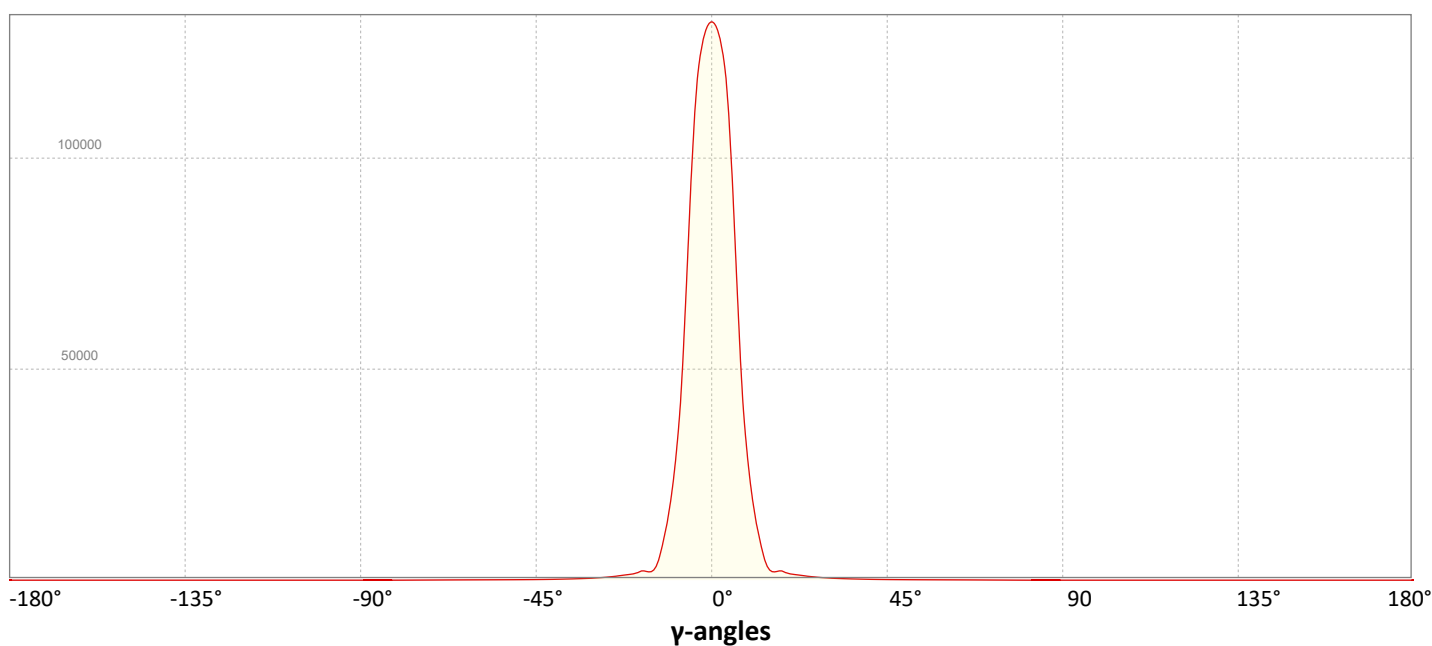
Intensity Ratio

In 120° cone	99,0%
In 90° cone	97,5%

C000-C180

C090-C270

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



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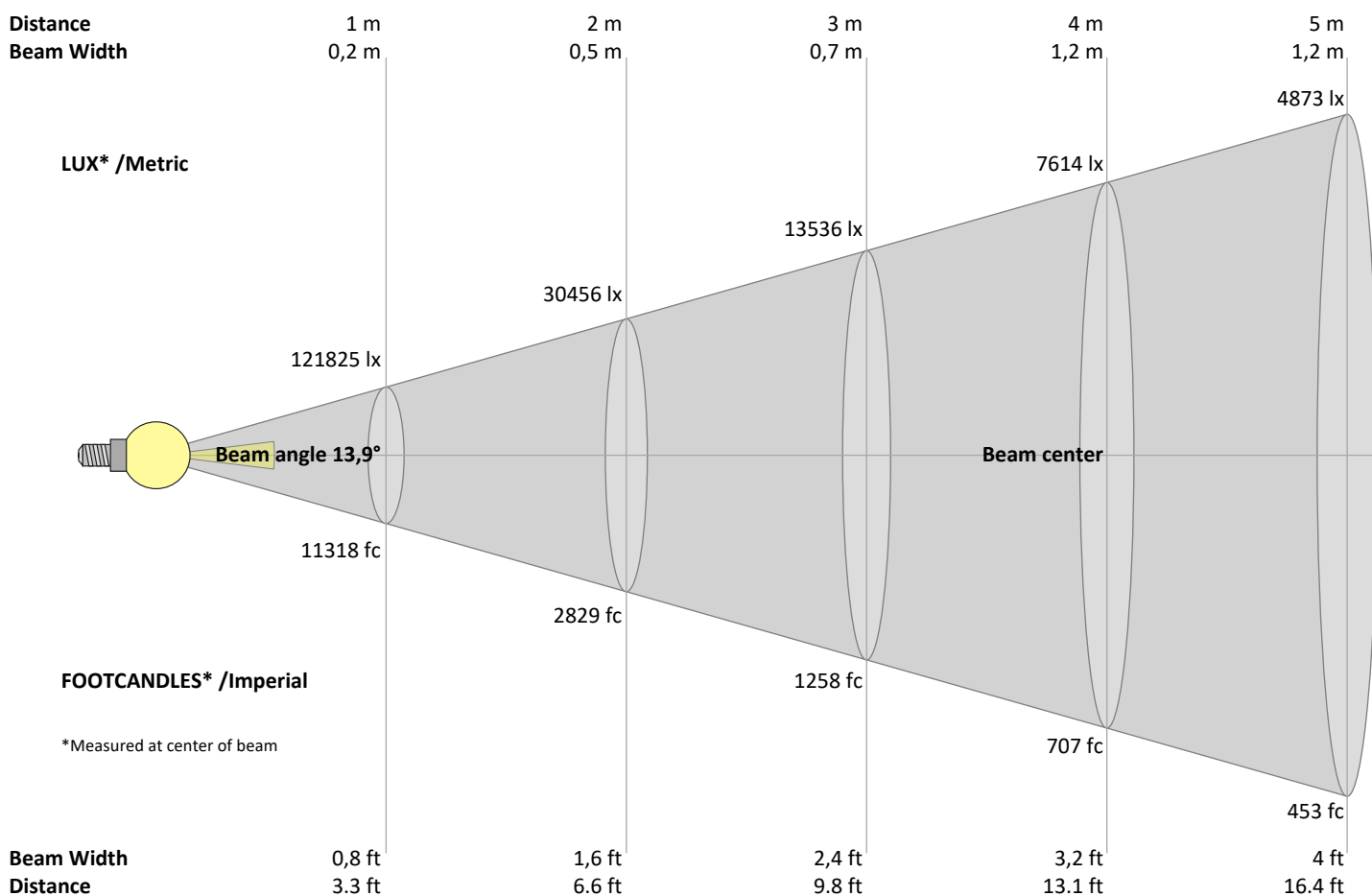
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Beam Details



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
121825	30456	13536	7614	4873	3384	2486	1904	1504	1218	1007	846	721	622	541	476	422	376	337	305	lux
11317,9	2829,5	1257,5	707,4	452,7	314,4	231	176,8	139,7	113,2	93,5	78,6	67	57,7	50,3	44,2	39,2	34,9	31,4	28,3	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
122K	122K	122K	122K	110K	93K	77K	60K	43K	34K	27K	21K	14K	8K	5K	5K	4K	3K	2K	2K	cd
100%	100%	100%	100%	90%	77%	63%	49%	35%	28%	22%	17%	12%	6%	4%	4%	3%	2%	2%	2%	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
122K	122K	122K	122K	110K	93K	77K	60K	43K	34K	27K	21K	14K	8K	5K	5K	4K	3K	2K	2K	cd
100%	100%	100%	100%	90%	77%	63%	49%	35%	28%	22%	17%	12%	6%	4%	4%	3%	2%	2%	2%	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
122K	122K	122K	122K	110K	93K	77K	60K	43K	34K	27K	21K	14K	8K	5K	5K	4K	3K	2K	2K	cd
100%	100%	100%	100%	90%	77%	63%	49%	35%	28%	22%	17%	12%	6%	4%	4%	3%	2%	2%	2%	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
122K	122K	122K	122K	110K	93K	77K	60K	43K	34K	27K	21K	14K	8K	5K	5K	4K	3K	2K	2K	cd
100%	100%	100%	100%	90%	77%	63%	49%	35%	28%	22%	17%	12%	6%	4%	4%	3%	2%	2%	2%	of 0°val