

Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 10:56:34 – Measurement no. VFR-230222-3040-MS

Measurement tracking No. and Link: [VT230222-003201](#)

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

213 W – PF 0,9 – DPF 0,92

224 V – 1,06 A

50 Hz

Not completed – 2,0%

Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 narrow RED

– 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

5312 lm – 0% / 100%

25 lm/W

75481 cd – 14°

CCT = 0 K / 0 K

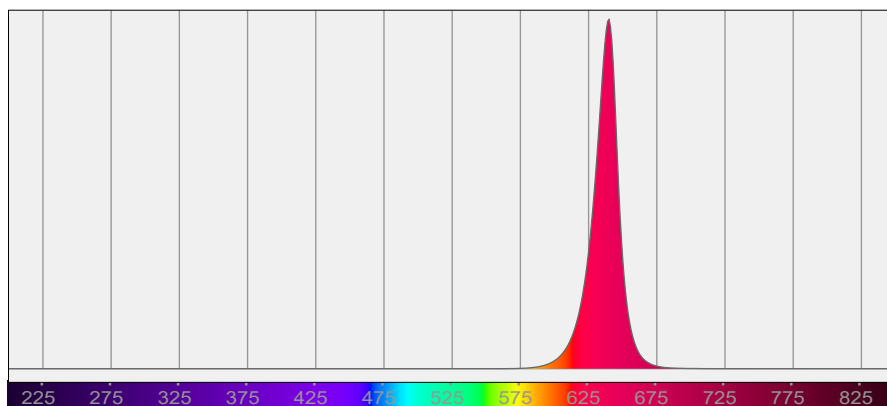
CRI 0,0

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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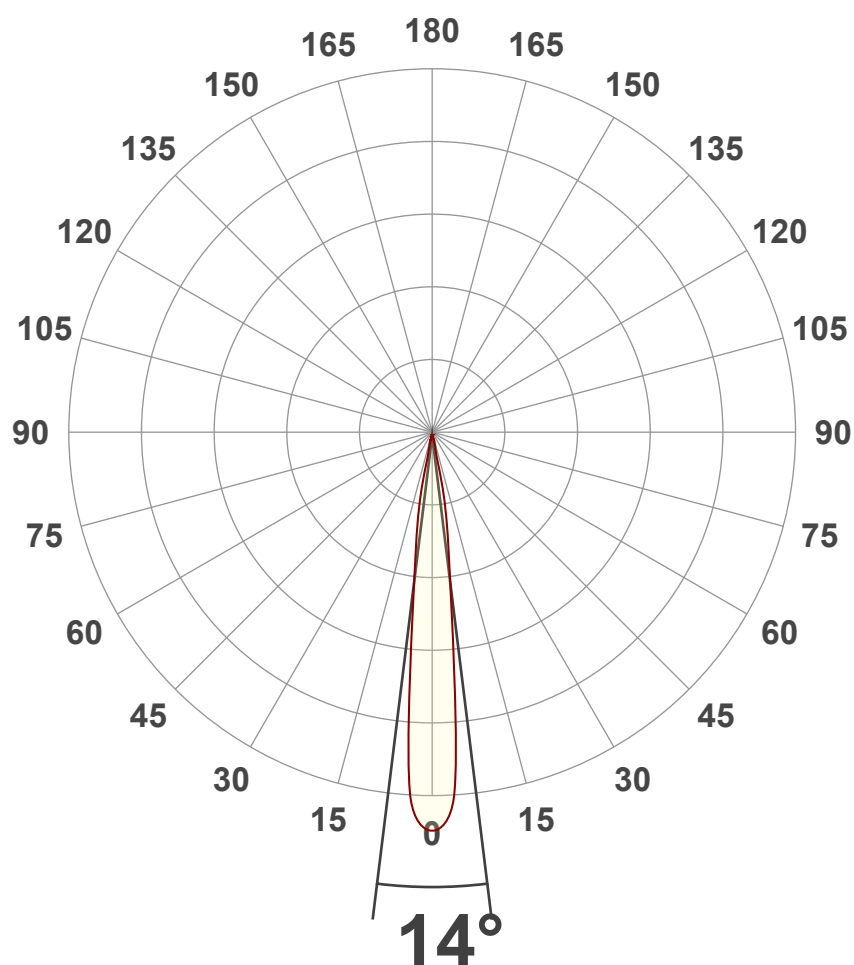
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	5312 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	75481 cd
Beam Angle (50%)	14°
Beam Angle (90%)	14°
Beam Angle (10%)	14°

Cut-off Angle

Average 2,5%	32,6°
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Field Angle

Average 10%	24,6°
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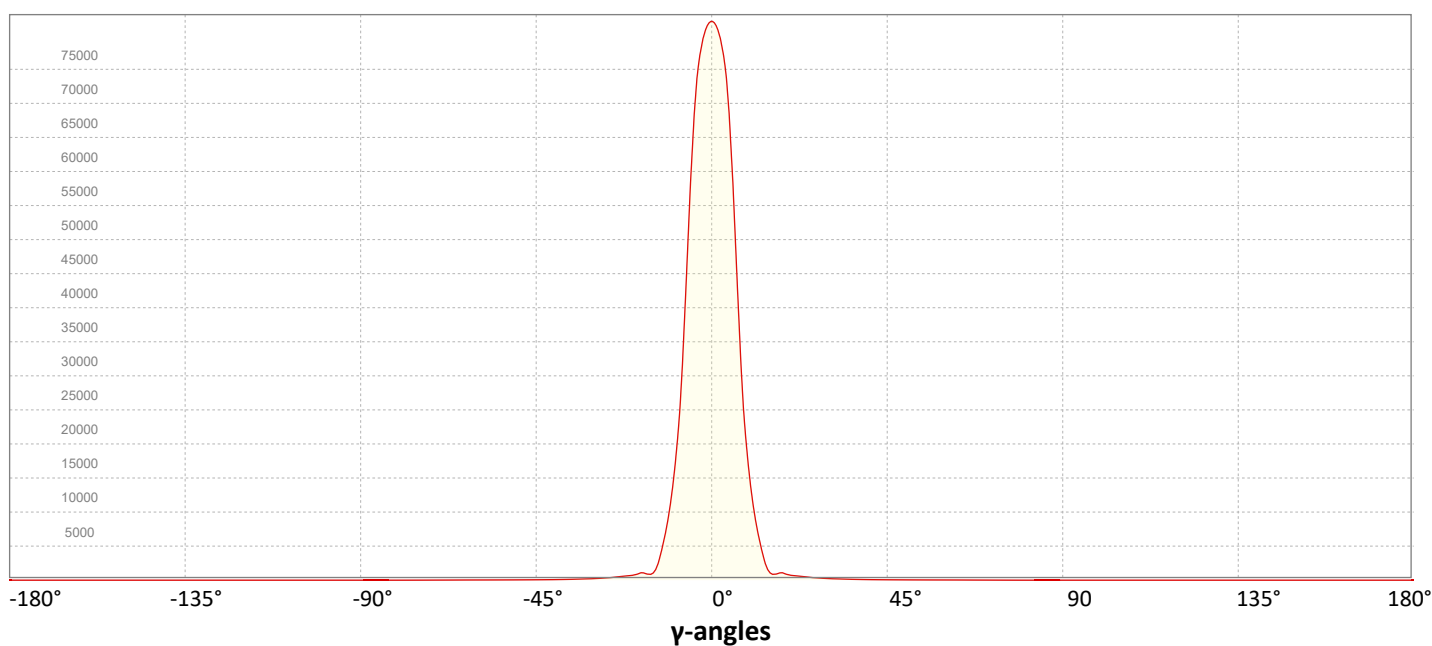
Intensity Ratio

In 120° cone	99,5%
In 90° cone	98,5%

C000-C180

C090-C270

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



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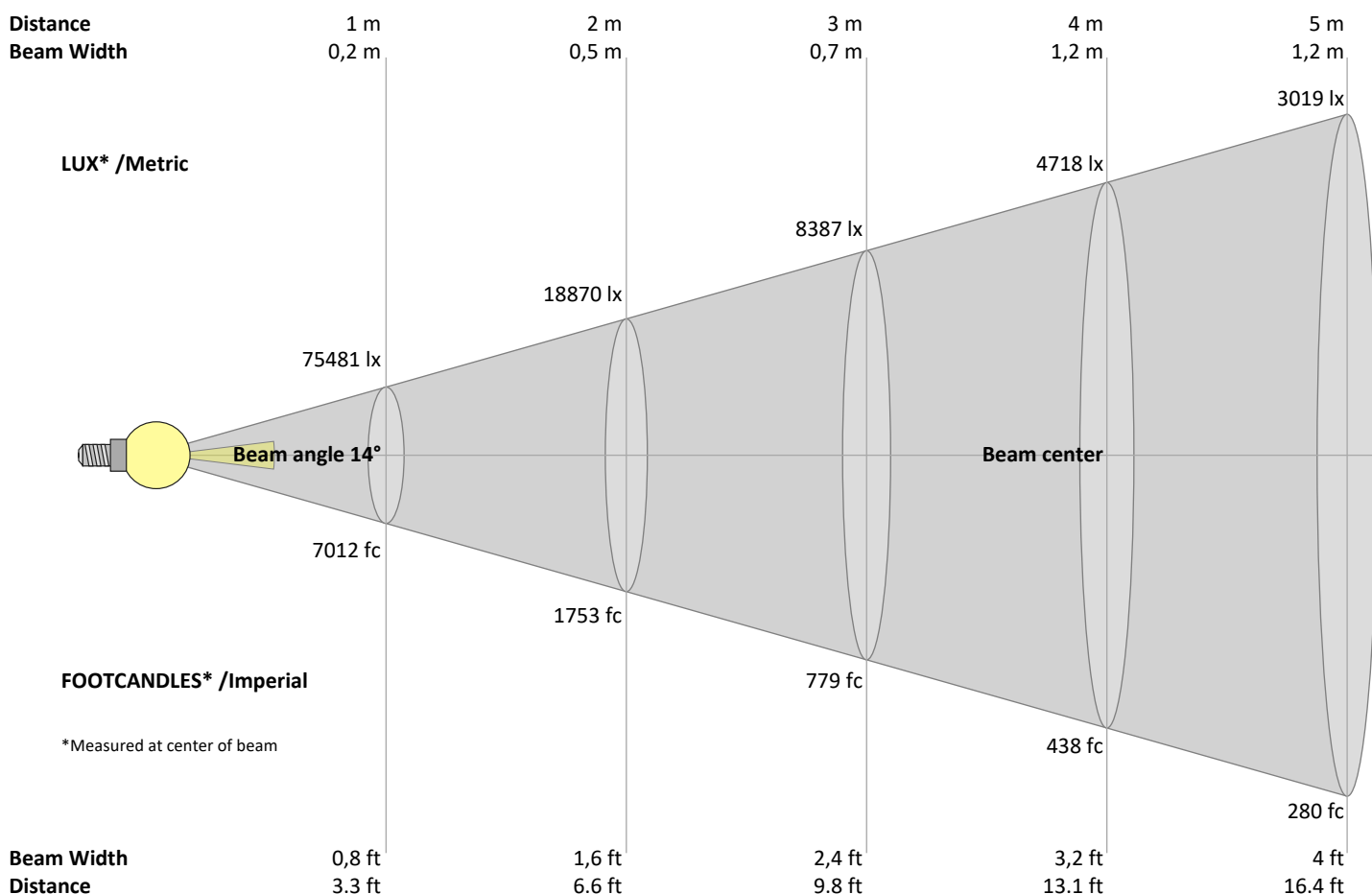
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Beam Details



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
75481	18870	8387	4718	3019	2097	1540	1179	932	755	624	524	447	385	335	295	261	233	209	189	lux
7012,4	1753,1	779,2	438,3	280,5	194,8	143,1	109,6	86,6	70,1	58	48,7	41,5	35,8	31,2	27,4	24,3	21,6	19,4	17,5	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
75,5K	75,5K	75,5K	75,5K	69,3K	58,8K	48,4K	37,9K	27,4K	20,7K	16,7K	12,7K	8,7K	4,7K	2,8K	2,4K	2,0K	1,6K	1,2K	1,0K	cd
100%	100%	100%	100%	92%	78%	64%	50%	36%	27%	22%	17%	12%	6%	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
75,5K	75,5K	75,5K	75,5K	69,3K	58,8K	48,4K	37,9K	27,4K	20,7K	16,7K	12,7K	8,7K	4,7K	2,8K	2,4K	2,0K	1,6K	1,2K	1,0K	cd
100%	100%	100%	100%	92%	78%	64%	50%	36%	27%	22%	17%	12%	6%	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
75,5K	75,5K	75,5K	75,5K	69,3K	58,8K	48,4K	37,9K	27,4K	20,7K	16,7K	12,7K	8,7K	4,7K	2,8K	2,4K	2,0K	1,6K	1,2K	1,0K	cd
100%	100%	100%	100%	92%	78%	64%	50%	36%	27%	22%	17%	12%	6%	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
75,5K	75,5K	75,5K	75,5K	69,3K	58,8K	48,4K	37,9K	27,4K	20,7K	16,7K	12,7K	8,7K	4,7K	2,8K	2,4K	2,0K	1,6K	1,2K	1,0K	cd
100%	100%	100%	100%	92%	78%	64%	50%	36%	27%	22%	17%	12%	6%	4%	3%	3%	2%	2%	1%	of 0°val