

Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 11:05:15 – Measurement no. VFR-230222-3045-MS

Measurement tracking No. and Link: [VT230222-003405](#)

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

244,6 W – PF 0,92 – DPF 0,95

228 V – 1,17 A

50 Hz

Not completed – 2,0%

Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 Wide Blue

– 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

1671 lm – 0,07% / 99,93%

7 lm/W

1321 cd – 53,2°

CCT = 0 K / 0 K

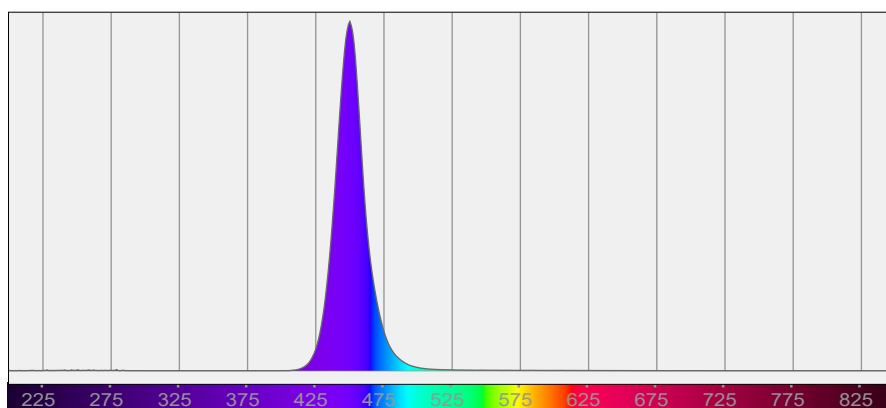
CRI 0,0

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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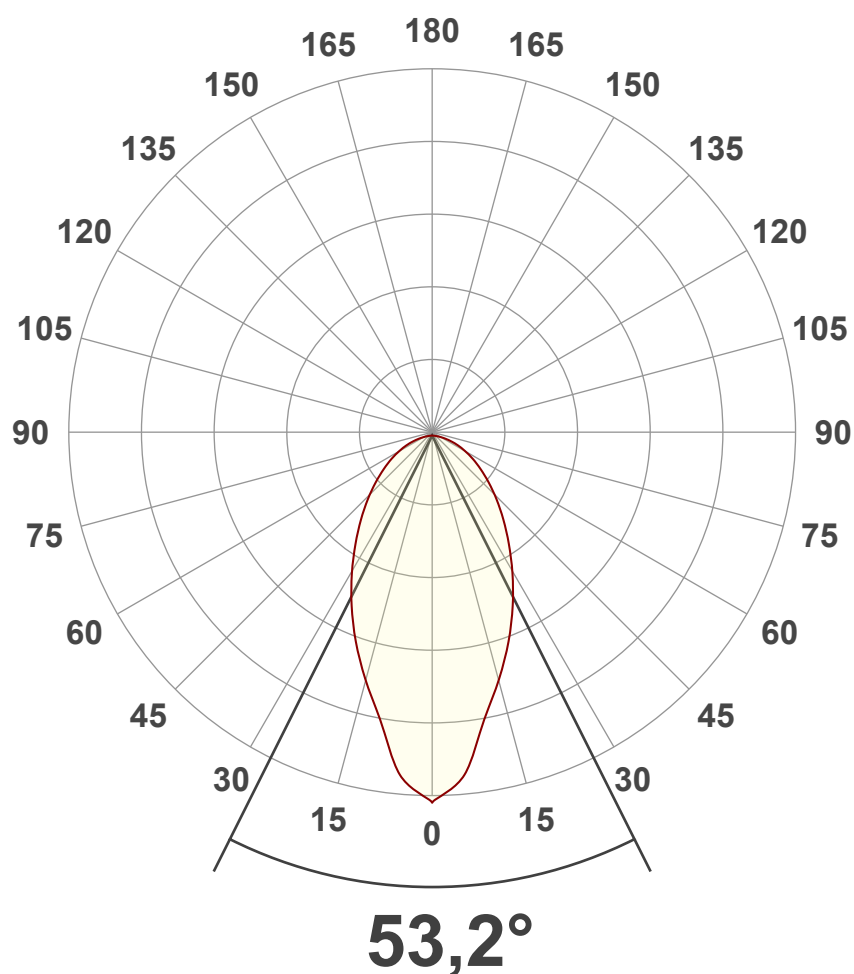
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1671 lm
Lumen Up% / Down%	0,07% / 99,93%
Peak Intensity	1321 cd
Beam Angle (50%)	53,2°
Beam Angle (90%)	53,2°
Beam Angle (10%)	53,2°

Cut-off Angle

Average 2,5%	159,8°
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Field Angle

Average 10%	130,1°
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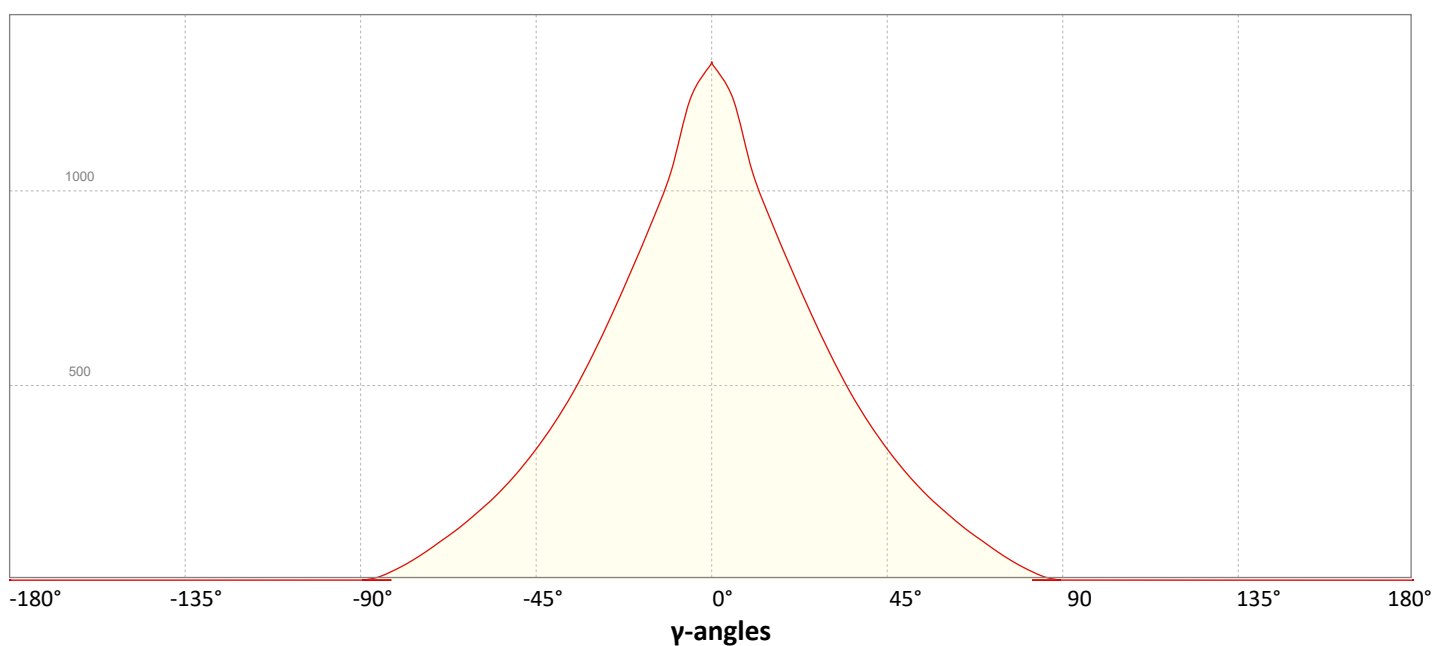
Intensity Ratio

In 120° cone	87,3%
In 90° cone	68,1%

C000-C180

C090-C270

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



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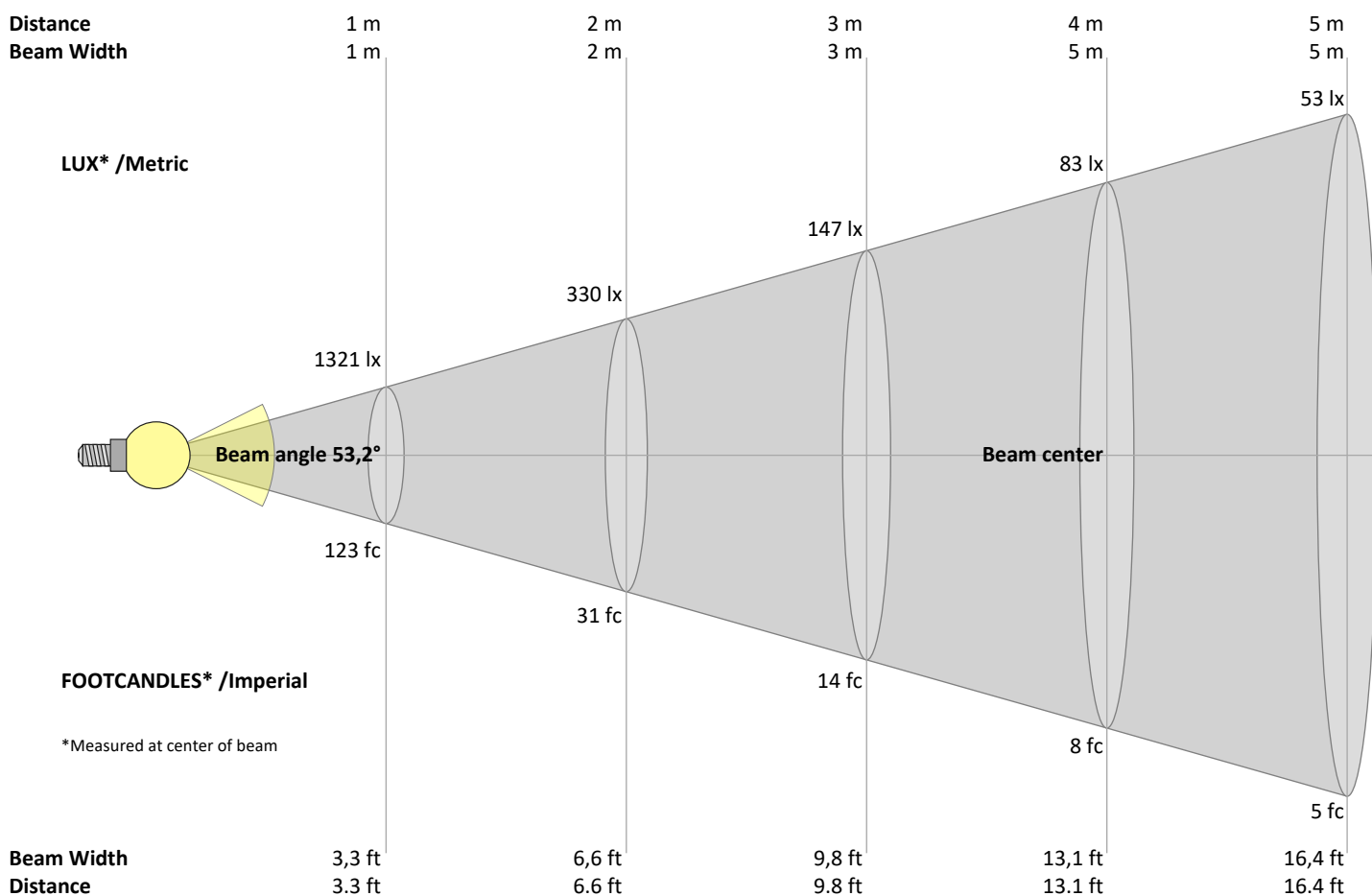
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Beam Details



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
1321	330	147	83	53	37	27	21	16	13	11	9	8	7	6	5	5	4	4	3	lux
122,7	30,7	13,6	7,7	4,9	3,4	2,5	1,9	1,5	1,2	1	0,9	0,7	0,6	0,5	0,5	0,4	0,4	0,3	0,3	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
1321	1244	1065	929	809	695	589	492	409	337	274	220	174	132	96	62	32	10	0	0	cd
100%	94%	81%	70%	61%	53%	45%	37%	31%	26%	21%	17%	13%	10%	7%	5%	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
1321	1244	1065	929	809	695	589	492	409	337	274	220	174	132	96	62	32	10	0	0	cd
100%	94%	81%	70%	61%	53%	45%	37%	31%	26%	21%	17%	13%	10%	7%	5%	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
1321	1244	1065	929	809	695	589	492	409	337	274	220	174	132	96	62	32	10	0	0	cd
100%	94%	81%	70%	61%	53%	45%	37%	31%	26%	21%	17%	13%	10%	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
1321	1244	1065	929	809	695	589	492	409	337	274	220	174	132	96	62	32	10	0	0	cd
100%	94%	81%	70%	61%	53%	45%	37%	31%	26%	21%	17%	13%	10%	7%	5%	2%	1%	0%	0%	of 0°val