

Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 10:59:33 – Measurement no. VFR-230222-3042-MS

Measurement tracking No. and Link: [VT230222-008265](#)

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

248,2 W – PF 0,93 – DPF 0,95

223 V – 1,20 A

50 Hz

n/a – n/a%

Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 narrow 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

2277 lm – 0% / 100%

9 lm/W

35032 cd – 12,5°

CCT = 0 K / 0 K

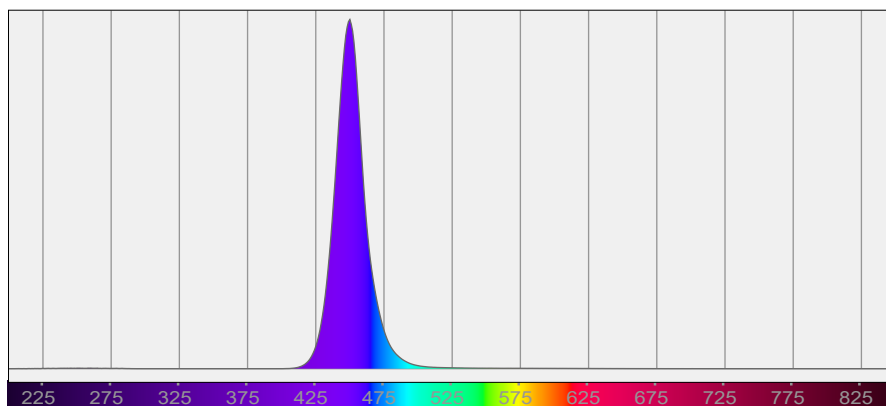
CRI 0,0

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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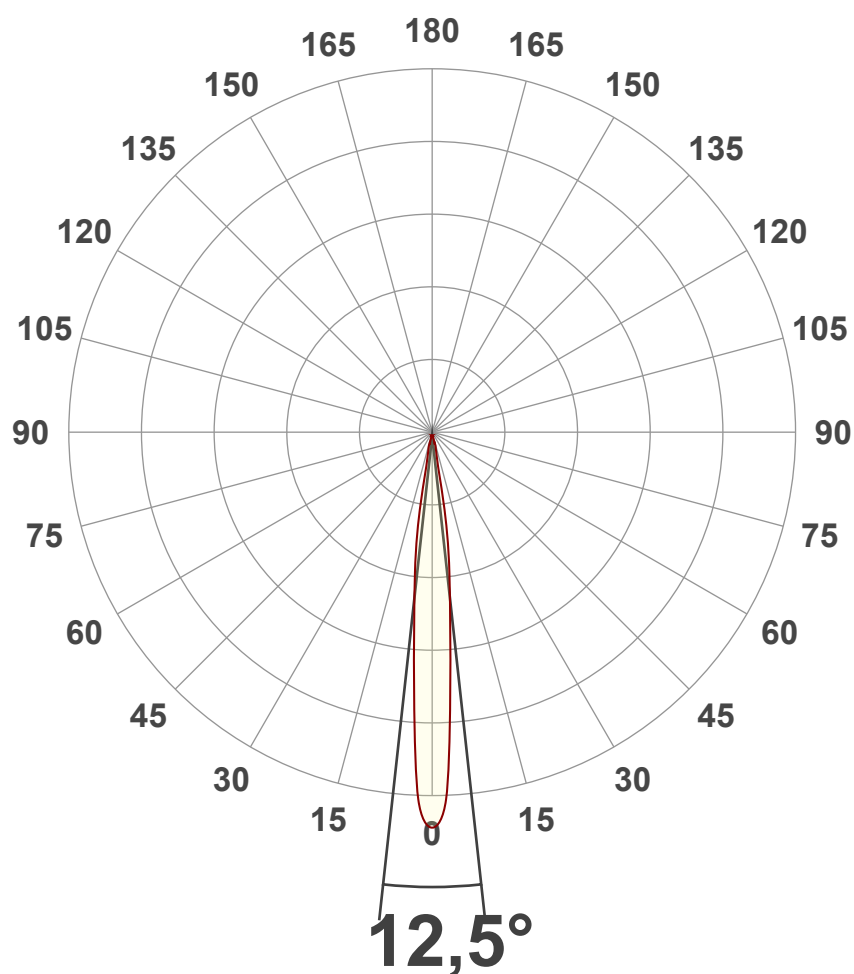
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2277 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	35032 cd
Beam Angle (50%)	12,5°
Beam Angle (90%)	12,5°
Beam Angle (10%)	12,5°

Cut-off Angle

Average 2,5%	33°
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Field Angle

Average 10%	23,2°
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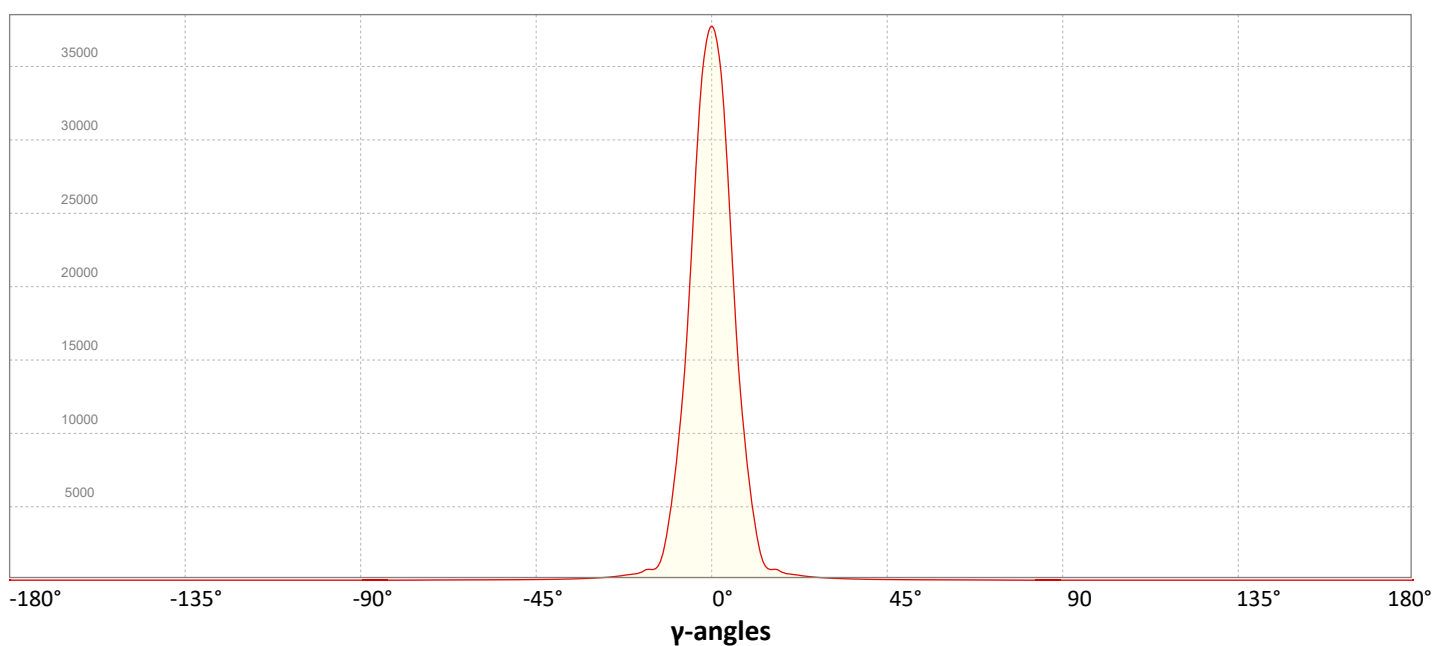
Intensity Ratio

In 120° cone	98,9%
In 90° cone	97,2%

C000-C180

C090-C270

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



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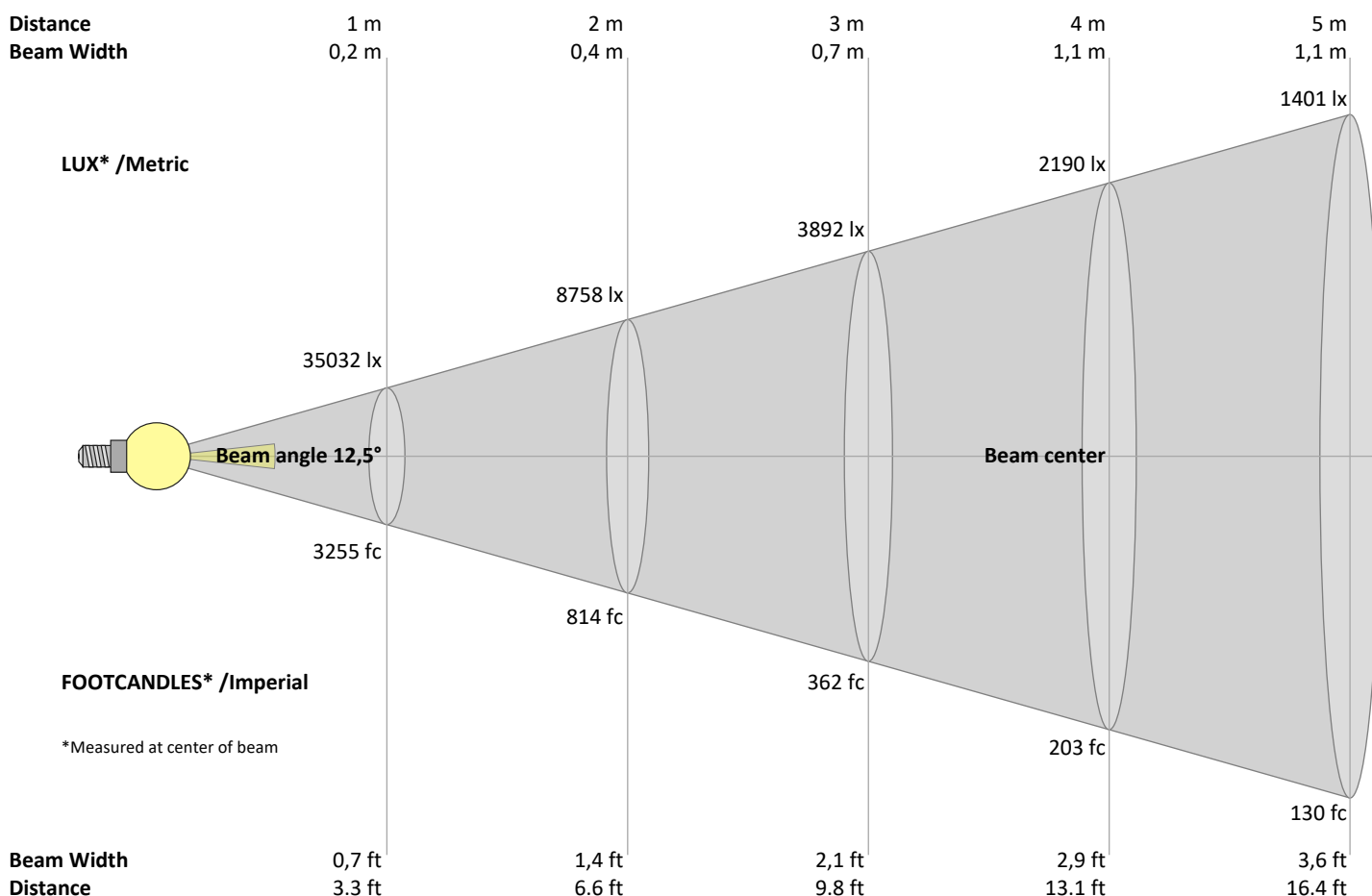
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Beam Details



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
35032	8758	3892	2190	1401	973	715	547	432	350	290	243	207	179	156	137	121	108	97	88	lux
3254,6	813,7	361,6	203,4	130,2	90,4	66,4	50,9	40,2	32,5	26,9	22,6	19,3	16,6	14,5	12,7	11,3	10	9	8,1	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
35,0K	35,0K	35,0K	31,6K	27,2K	22,9K	18,6K	14,2K	11,6K	9,3K	7,1K	4,9K	2,6K	1,9K	1,6K	1,3K	1,0K	0,7K	0,6K	0,5K	cd
100%	100%	100%	90%	78%	65%	53%	41%	33%	27%	20%	14%	7%	6%	5%	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
35,0K	35,0K	35,0K	31,6K	27,2K	22,9K	18,6K	14,2K	11,6K	9,3K	7,1K	4,9K	2,6K	1,9K	1,6K	1,3K	1,0K	0,7K	0,6K	0,5K	cd
100%	100%	100%	90%	78%	65%	53%	41%	33%	27%	20%	14%	7%	6%	5%	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
35,0K	35,0K	35,0K	31,6K	27,2K	22,9K	18,6K	14,2K	11,6K	9,3K	7,1K	4,9K	2,6K	1,9K	1,6K	1,3K	1,0K	0,7K	0,6K	0,5K	cd
100%	100%	100%	90%	78%	65%	53%	41%	33%	27%	20%	14%	7%	6%	5%	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
35,0K	35,0K	35,0K	31,6K	27,2K	22,9K	18,6K	14,2K	11,6K	9,3K	7,1K	4,9K	2,6K	1,9K	1,6K	1,3K	1,0K	0,7K	0,6K	0,5K	cd
100%	100%	100%	90%	78%	65%	53%	41%	33%	27%	20%	14%	7%	6%	5%	4%	3%	2%	2%	2%	of 0°val