

Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 11:02:49 – Measurement no. VFR-230222-3044-MS

Measurement tracking No. and Link: [VT230222-002359](#)

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

275,4 W – PF 0,93 – DPF 0,95

220 V – 1,34 A

50 Hz

n/a – n/a%

Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 Wide 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

6475 lm – 0,08% / 99,92%

24 lm/W

6657 cd – 40,6°

CCT = 0 K / 0 K

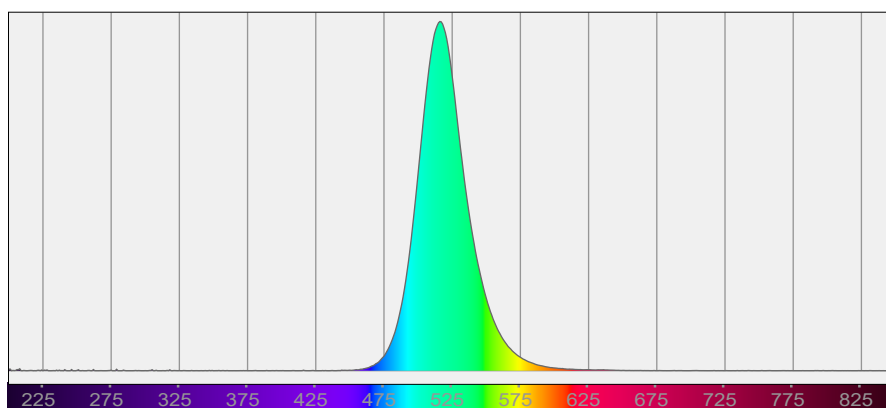
CRI 0,0

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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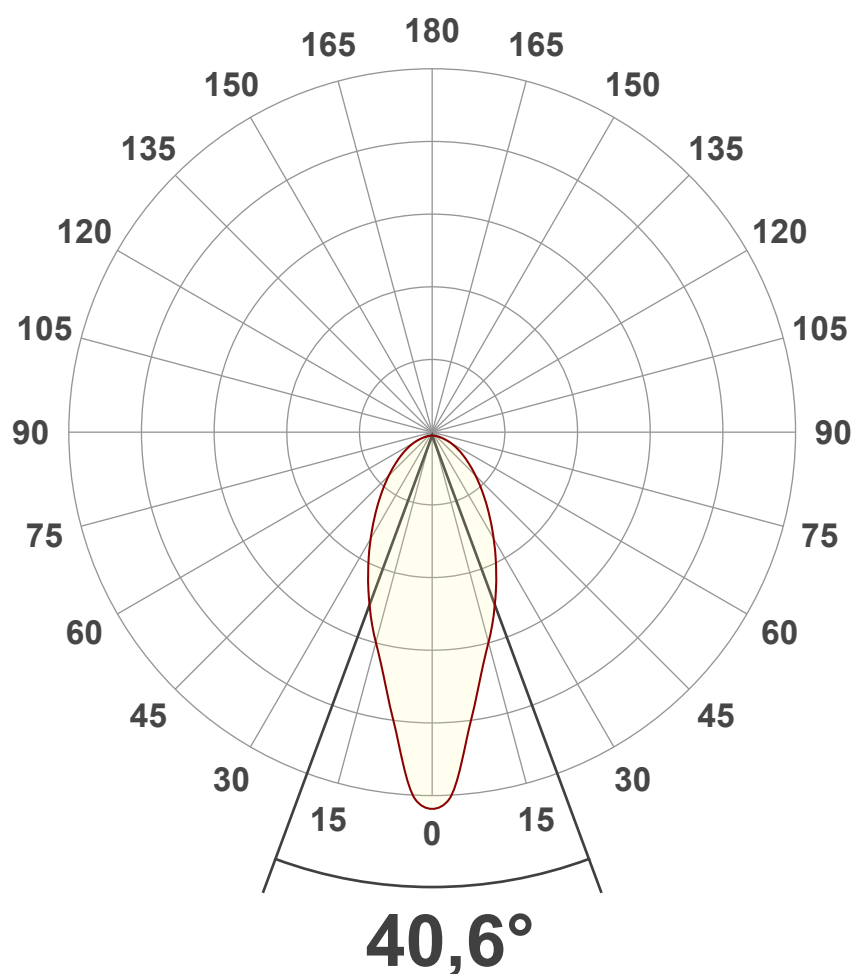
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	6475 lm
Lumen Up% / Down%	0,08% / 99,92%
Peak Intensity	6657 cd
Beam Angle (50%)	40,6°
Beam Angle (90%)	40,6°
Beam Angle (10%)	40,6°

Cut-off Angle

Average 2,5%	154,7°
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Field Angle

Average 10%	116,1°
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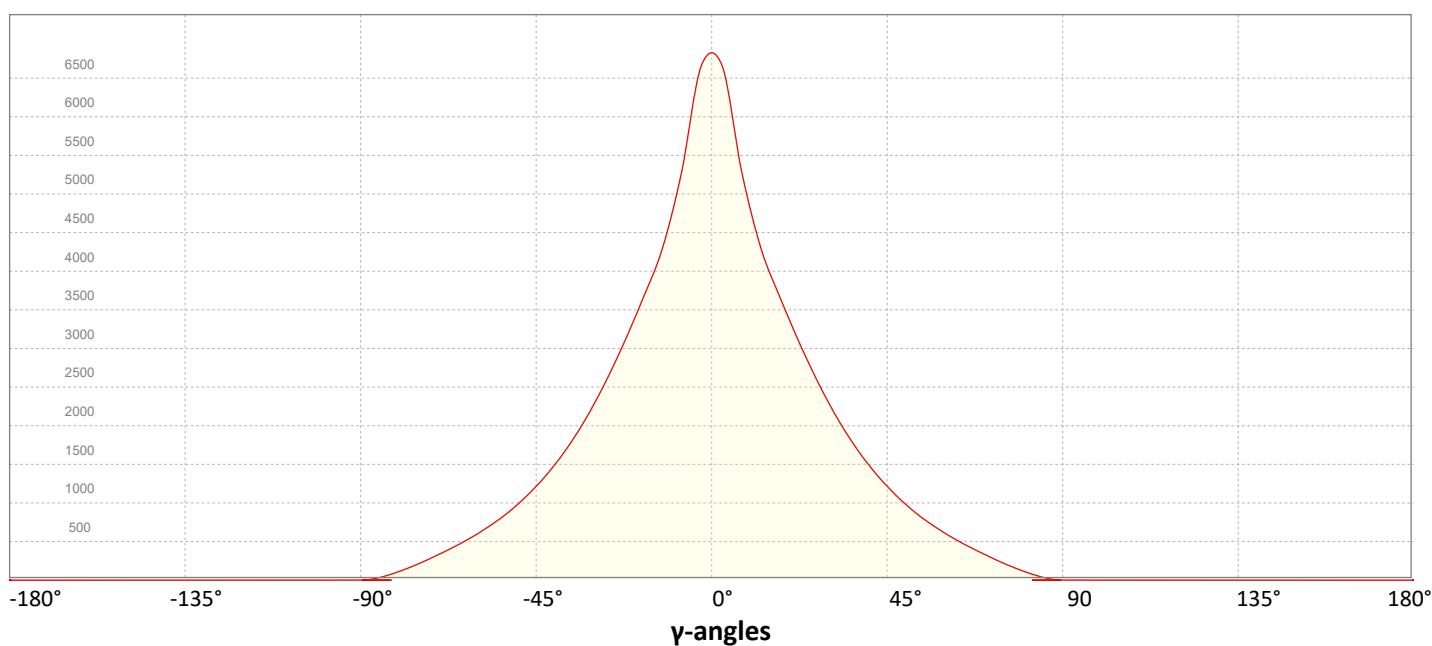
Intensity Ratio

In 120° cone	88,7%
In 90° cone	71,2%

C000-C180

C090-C270

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



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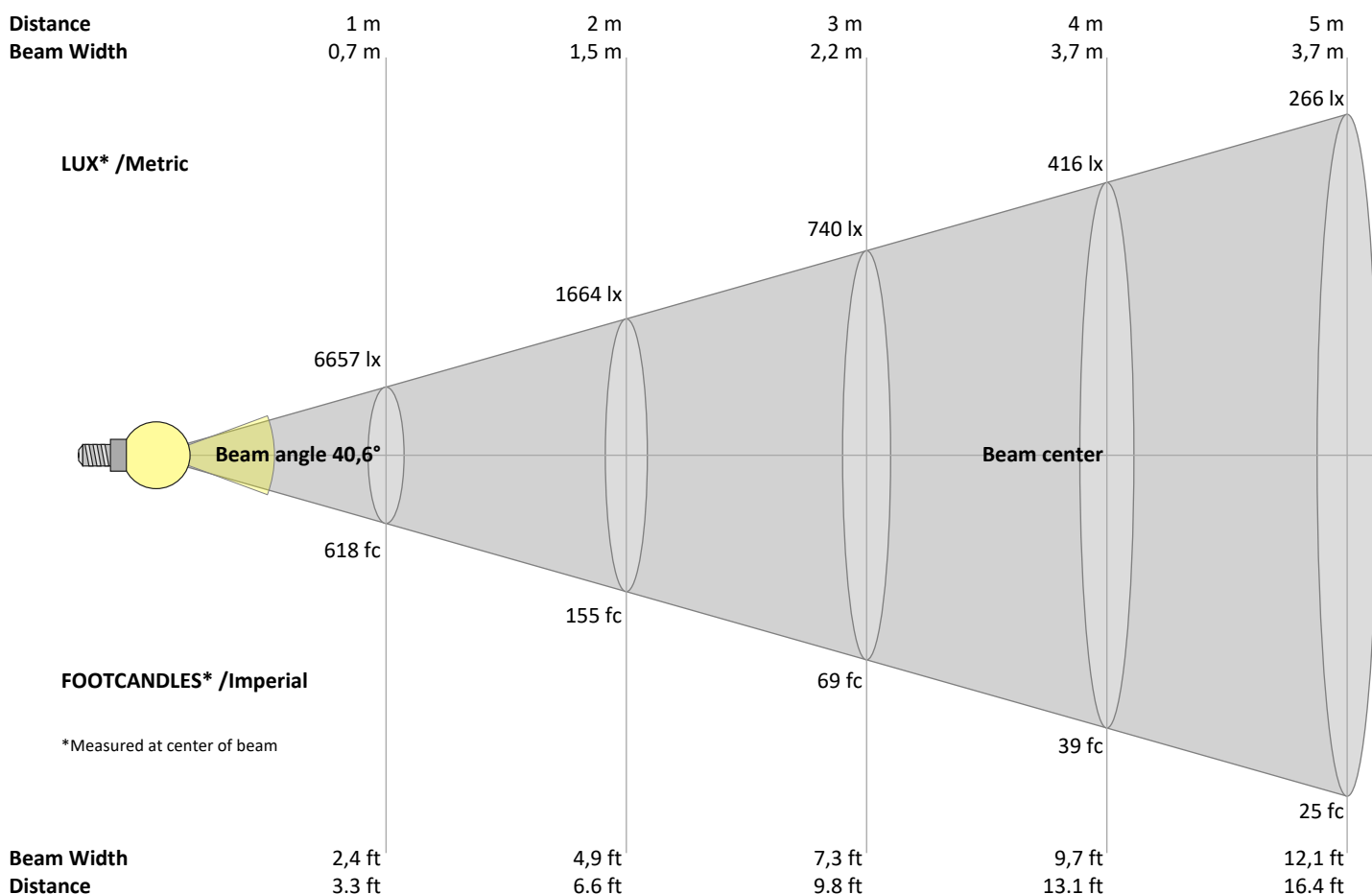
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Beam Details



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
6657	1664	740	416	266	185	136	104	82	67	55	46	39	34	30	26	23	21	18	17	lux
618,4	154,6	68,7	38,7	24,7	17,2	12,6	9,7	7,6	6,2	5,1	4,3	3,7	3,2	2,7	2,4	2,1	1,9	1,7	1,5	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
6657	6023	4824	3987	3366	2803	2303	1874	1516	1220	975	773	604	460	333	216	115	36	1	1	cd
100%	90%	72%	60%	51%	42%	35%	28%	23%	18%	15%	12%	9%	7%	5%	3%	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
6657	6023	4824	3987	3366	2803	2303	1874	1516	1220	975	773	604	460	333	216	115	36	1	1	cd
100%	90%	72%	60%	51%	42%	35%	28%	23%	18%	15%	12%	9%	7%	5%	3%	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
6657	6023	4824	3987	3366	2803	2303	1874	1516	1220	975	773	604	460	333	216	115	36	1	1	cd
100%	90%	72%	60%	51%	42%	35%	28%	23%	18%	15%	12%	9%	7%	5%	3%	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
6657	6023	4824	3987	3366	2803	2303	1874	1516	1220	975	773	604	460	333	216	115	36	1	1	cd
100%	90%	72%	60%	51%	42%	35%	28%	23%	18%	15%	12%	9%	7%	5%	3%	2%	1%	0%	0%	of 0°val