

# Light Measurement Report

Print date: 22/02/2023

Measurement date and time: 22/02/2023 11:07:53 – Measurement no. VFR-230222-3047-MS

Measurement tracking No. and Link: [VT230222-007250](#)

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

$\gamma$  (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

571,3 W – PF 0,96 – DPF 0,98

222 V – 2,68 A

50 Hz

n/a – n/a%

## Tested Light Source

Product Name

Item No. and Manufacturer

Product Description (line 1)

PJ-5 Wide raw white peak

– 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

16542 lm – 0% / 100%

29 lm/W

18892 cd – 36,7°

CCT = 0 K / 0 K

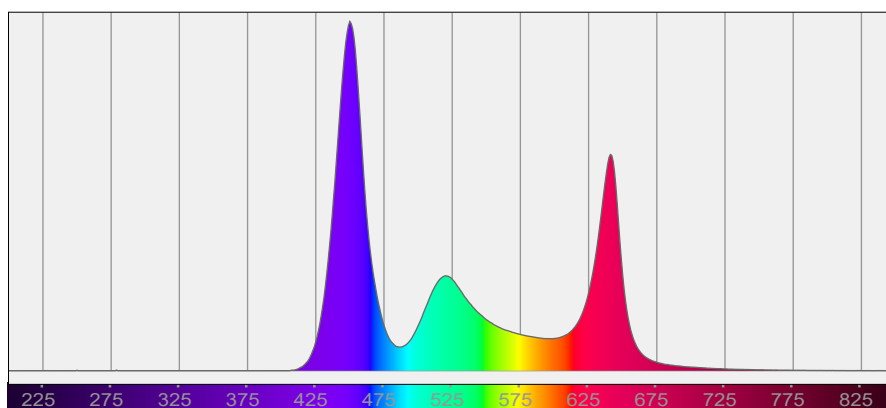
CRI 0,0

R<sub>f</sub> 0,0 – R<sub>g</sub> 0,0

Duv n/a – SDCM n/a

SVM n/a – PstLM n/a

No photo



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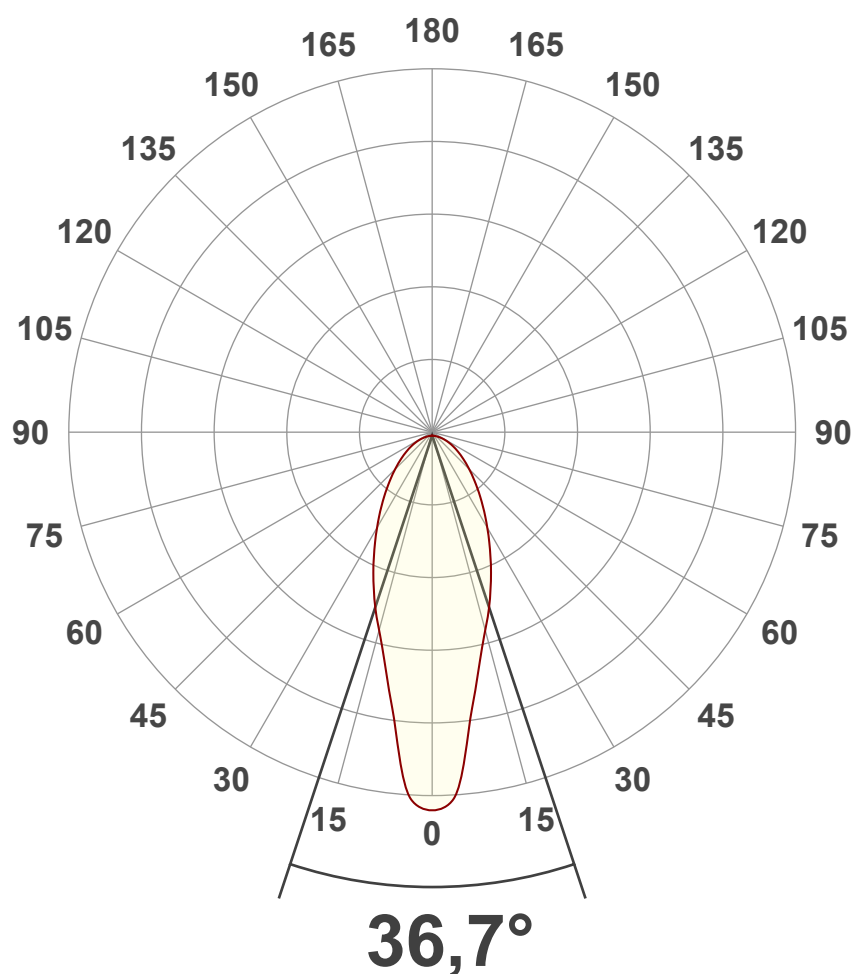
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



### Main Values

Output (total Lumen)	16542 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	18892 cd
Beam Angle (50%)	36,7°
Beam Angle (90%)	36,7°
Beam Angle (10%)	36,7°

### Cut-off Angle

Average 2,5%	151,3°
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### Field Angle

Average 10%	109,8°
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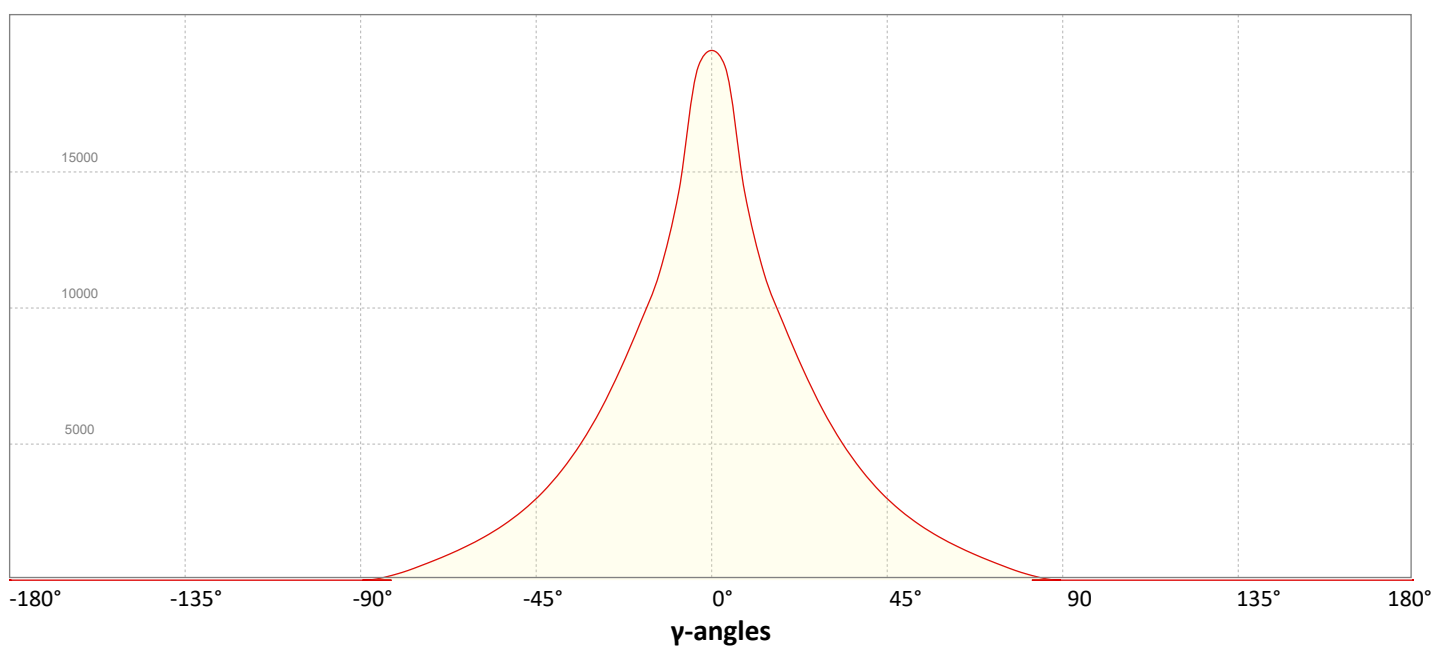
### Intensity Ratio

In 120° cone	89,6%
In 90° cone	72,8%

C000-C180

C090-C270

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



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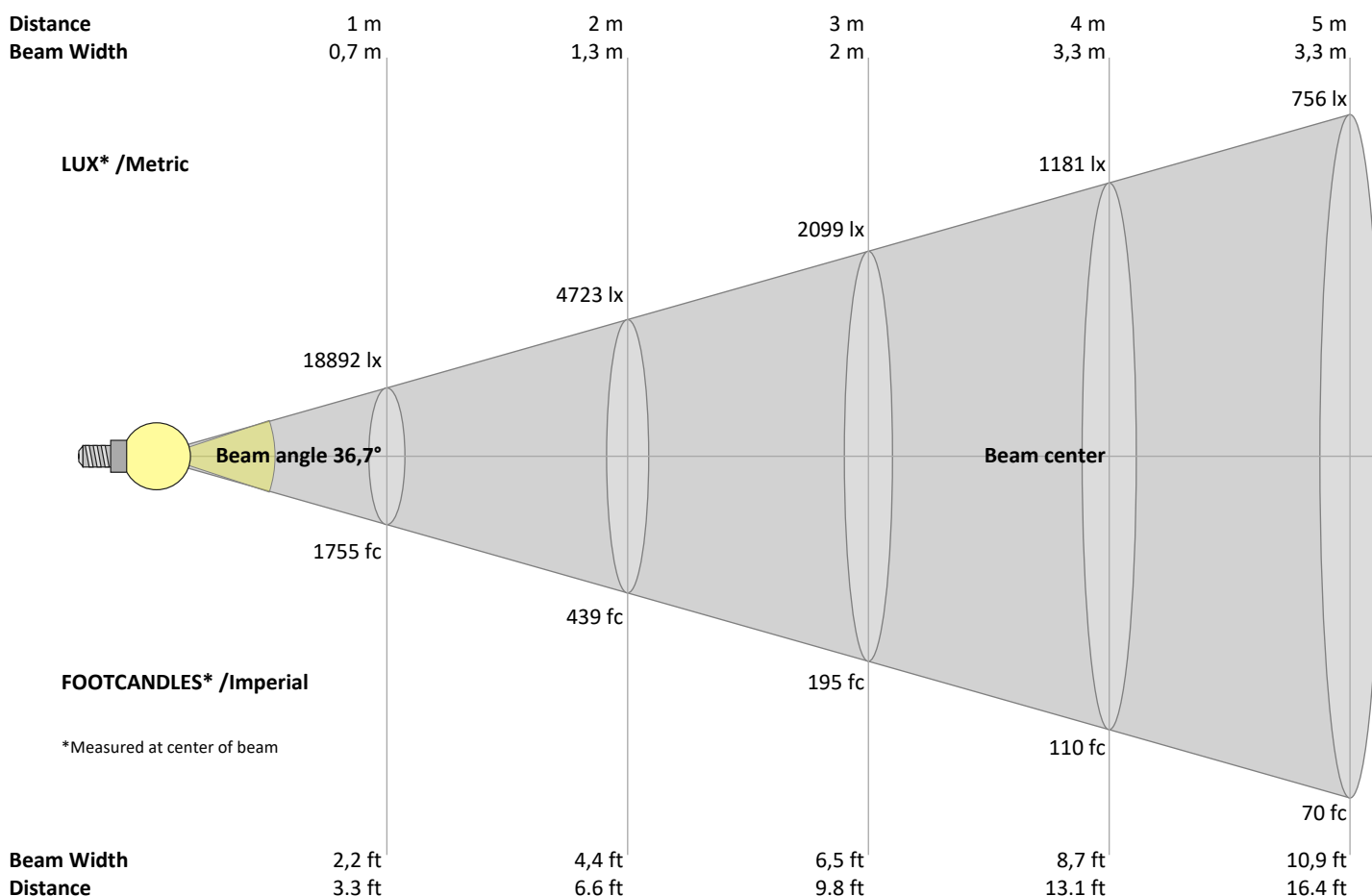
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## Beam Details



## 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
18892	4723	2099	1181	756	525	386	295	233	189	156	131	112	96	84	74	65	58	52	47	lux
1755,1	438,8	195	109,7	70,2	48,8	35,8	27,4	21,7	17,6	14,5	12,2	10,4	9	7,8	6,9	6,1	5,4	4,9	4,4	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
18,9K	17,4K	13,3K	10,7K	8,9K	7,3K	5,9K	4,7K	3,8K	3,0K	2,4K	1,9K	1,5K	1,1K	0,8K	0,5K	0,3K	0,1K	0,0K	0,0K	cd
100%	92%	71%	57%	47%	39%	31%	25%	20%	16%	13%	10%	8%	6%	4%	3%	1%	0%	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
18,9K	17,4K	13,3K	10,7K	8,9K	7,3K	5,9K	4,7K	3,8K	3,0K	2,4K	1,9K	1,5K	1,1K	0,8K	0,5K	0,3K	0,1K	0,0K	0,0K	cd
100%	92%	71%	57%	47%	39%	31%	25%	20%	16%	13%	10%	8%	6%	4%	3%	1%	0%	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
18,9K	17,4K	13,3K	10,7K	8,9K	7,3K	5,9K	4,7K	3,8K	3,0K	2,4K	1,9K	1,5K	1,1K	0,8K	0,5K	0,3K	0,1K	0,0K	0,0K	cd
100%	92%	71%	57%	47%	39%	31%	25%	20%	16%	13%	10%	8%	6%	4%	3%	1%	0%	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
18,9K	17,4K	13,3K	10,7K	8,9K	7,3K	5,9K	4,7K	3,8K	3,0K	2,4K	1,9K	1,5K	1,1K	0,8K	0,5K	0,3K	0,1K	0,0K	0,0K	cd
100%	92%	71%	57%	47%	39%	31%	25%	20%	16%	13%	10%	8%	6%	4%	3%	1%	0%	0%	0%	of 0°val