Light Measurement Report

Print date: 04/12/2024
Measurement date and time: 28/11/2024 14.08.42 – Measurement no. VFR-241128-0162-MS
Measurement tracking No. and Link: n/a
Operator: JNI

Laboratory and Equipment

Laboratory Owner and Location	DVT Light, Hasselager, Denmark
Goniospectrometer System and Type	LabSpion – Type C, horizontal
Sensor Name, Calibr. Date and Serial No.	LabSensor Model2 – 05/07/2024 – 3482137104
Spectrometer Manufacturer and Model	Ibsen Photonics, Denmark – Freedom VIS (Custom Viso)

Measurement Conditions

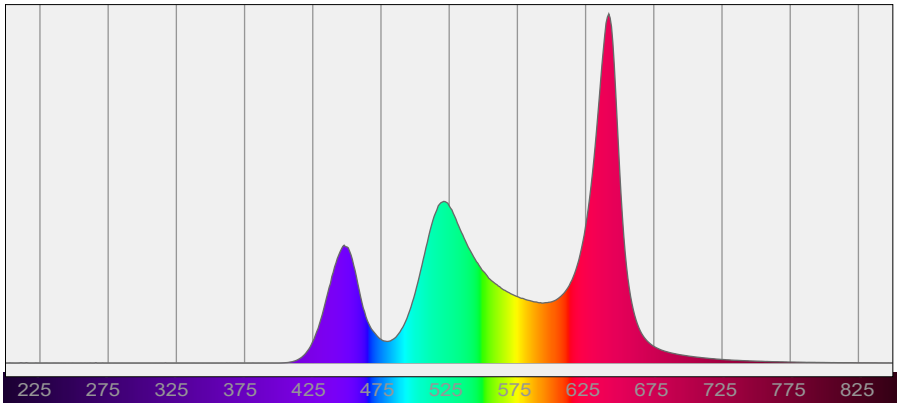
Number of C-planes and Resolution	2 planes – 180°
γ (gamma)-Resolution	0,5°
Test Distance	3,84 m
Input Power, Power and Displ. Factors	619,3 W – PF 0,95 – DPF 0,97
Input RMS Voltage and Current	231 V – 2,82 A
Frequency of Input Power	50 Hz

Tested Light Source

Product Name	PJ5_RGBW_NARROW
Item No. and Manufacturer	50100001-A – DVTLight
Product Description (line 1)	

Main Light Measurement Results

Output (Stabilized) – Total Lumen (Up% / Down%)	22249 lm – 0,65% / 99,35%
Efficiency	36 lm/W
Peak Intensity and Beam Angle	521254 cd – 9,9°
Correlated Color Temperature, Target/Measured	CCT = 4349 K / 4349 K
Color Rendering Index	CRI 69,7
Color Rendering TM30-18	R_f 80,1 – R_g 115,3
Color Shift, CIE duv	Duv 0,0062



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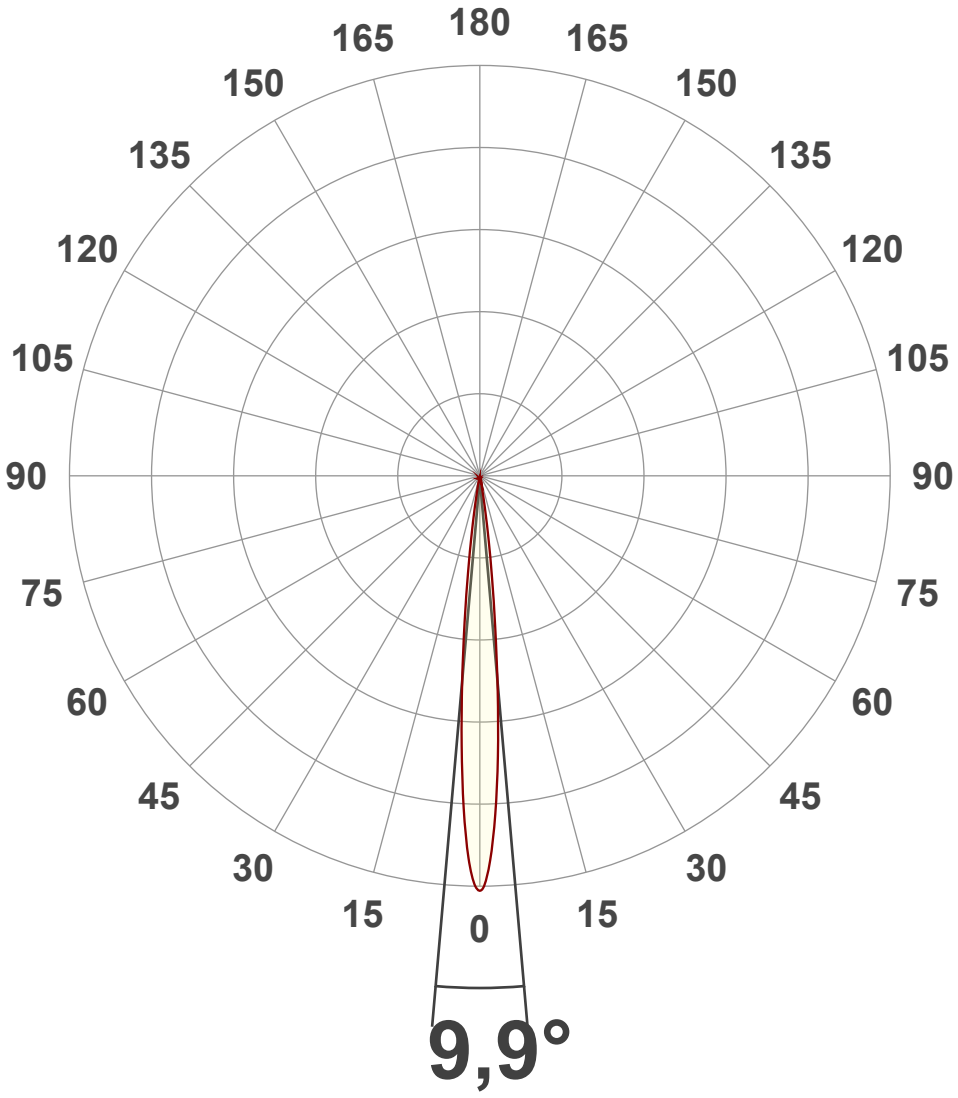
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (Stabilized) - (total Lumen)	22249 lm
Lumen Up% / Down%	0,65% / 99,35%
Peak Intensity	521254 cd
Beam Angle (50%)	9,9°
Beam Angle (90%)	9,9°
Beam Angle (10%)	9,9°

Cut-off Angle

Average 2,5%	25,6°

Field Angle

Average 10%	18,2°

Intensity Ratio

In 120° cone	98,0%
In 90° cone	96,2%

C000-C180

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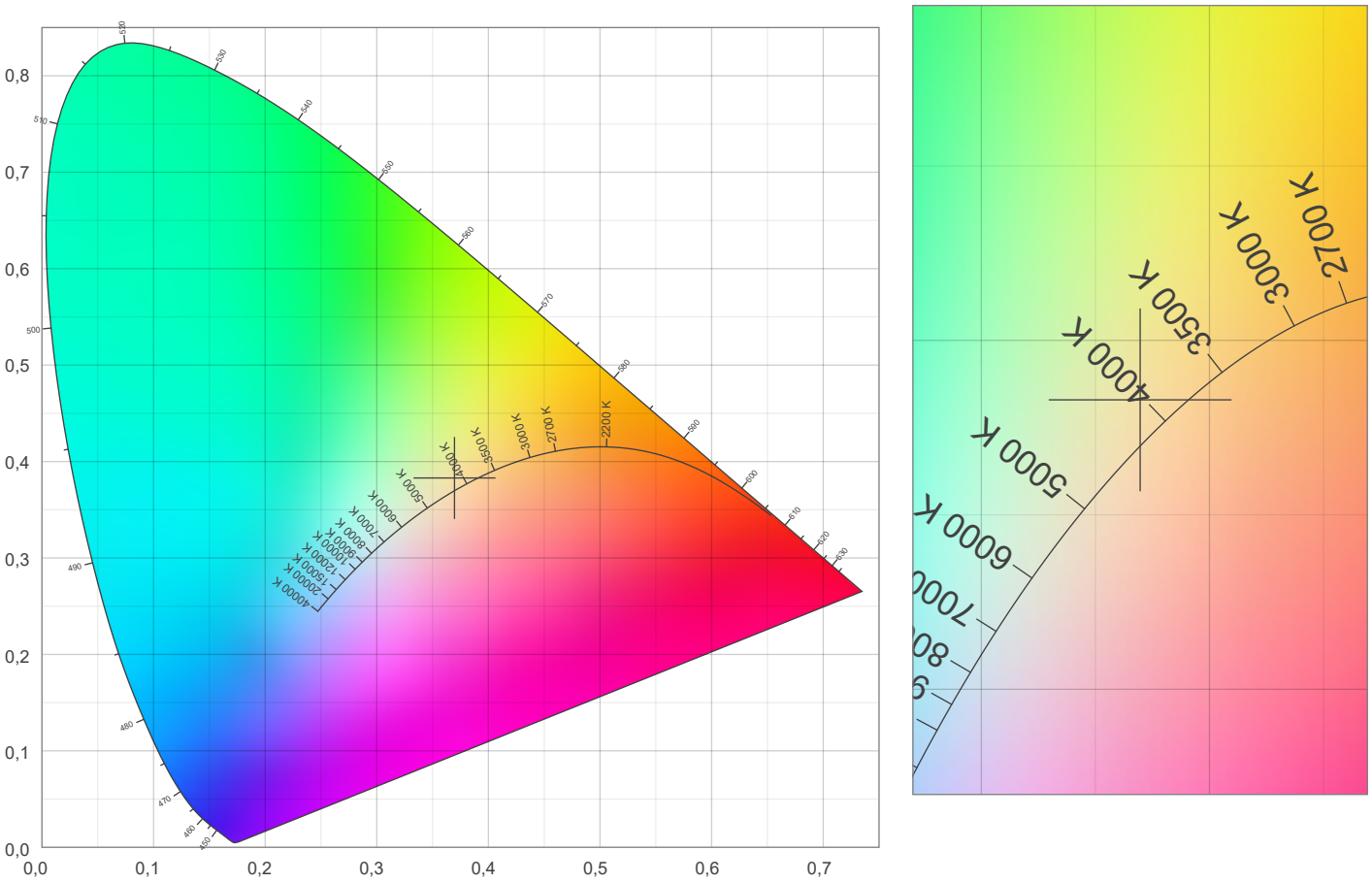
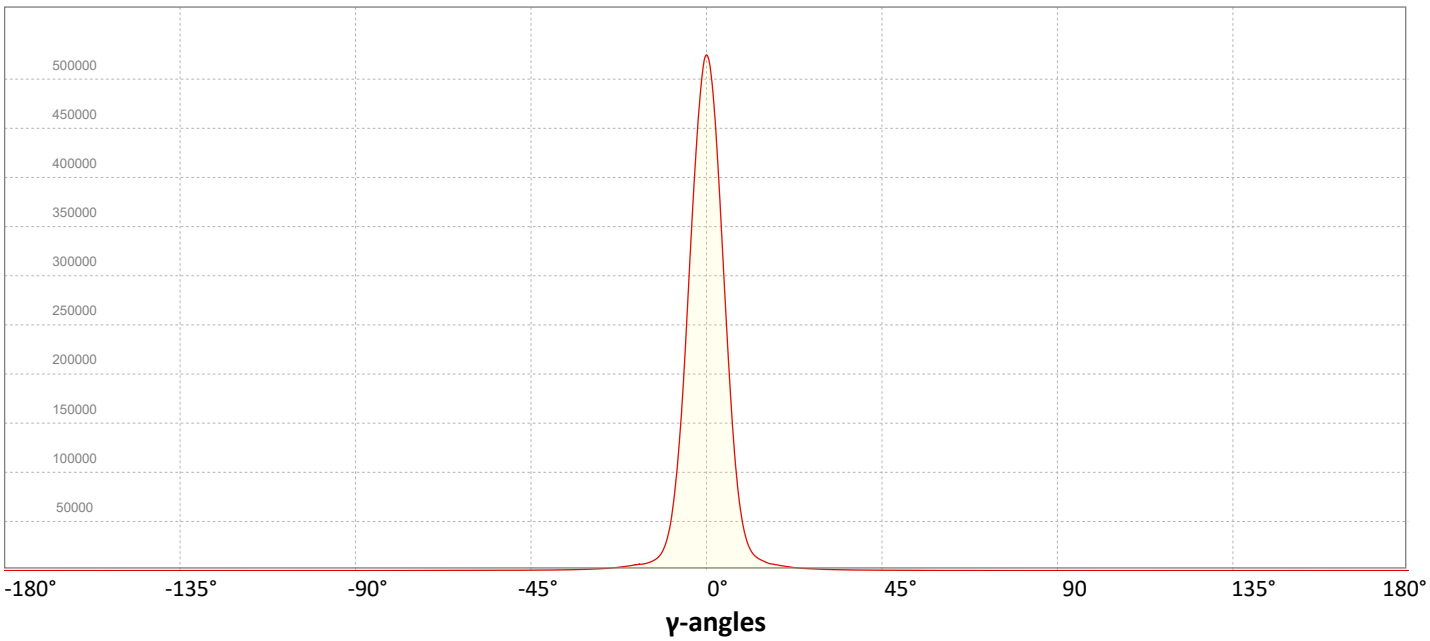
CIE 1931



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



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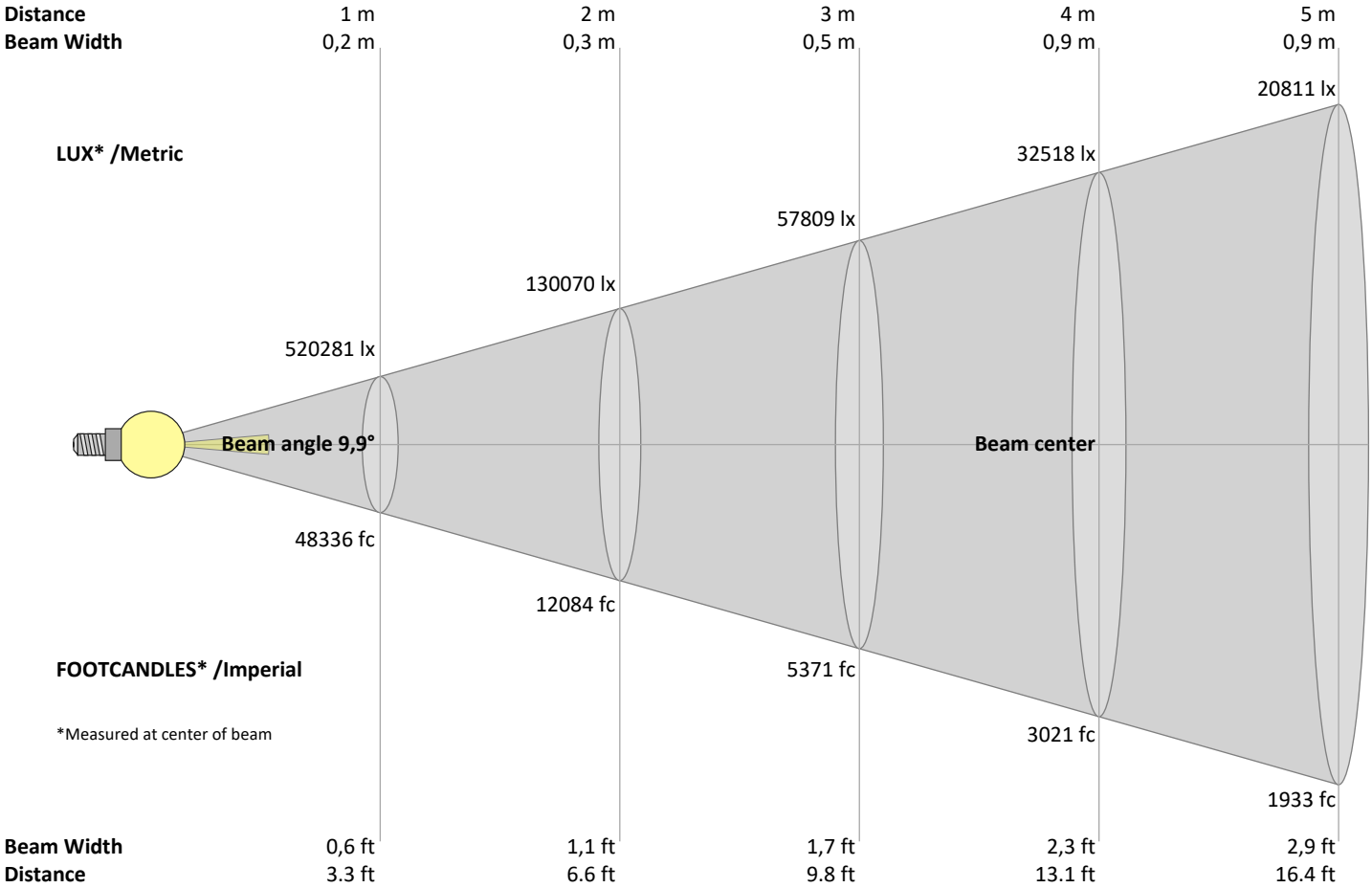
Beam Details



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
520281	130070	57809	32518	20811	14452	10618	8129	6423	5203	4300	3613	3079	2654	2312	2032	1800	1606	1441	1301	lux
48335,7	12083,9	5370,6	3021	1933,4	1342,7	986,4	755,2	596,7	483,4	399,5	335,7	286	246,6	214,8	188,8	167,3	149,2	133,9	120,8	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
520K	504K	462K	404K	334K	259K	186K	128K	86K	54K	35K	23K	16K	12K	9K	8K	7K	6K	6K	5K	cd
100%	97%	89%	78%	64%	50%	36%	25%	16%	10%	7%	4%	3%	2%	2%	2%	1%	1%	1%	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
520K	504K	462K	404K	334K	259K	186K	128K	86K	54K	35K	23K	16K	12K	9K	8K	7K	6K	6K	5K	cd
100%	97%	89%	78%	64%	50%	36%	25%	16%	10%	7%	4%	3%	2%	2%	2%	1%	1%	1%	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
520K	507K	467K	407K	334K	259K	189K	130K	86K	56K	36K	24K	17K	13K	11K	9K	7K	7K	6K	5K	cd
100%	97%	90%	78%	64%	50%	36%	25%	17%	11%	7%	5%	3%	3%	2%	2%	1%	1%	1%	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
520K	507K	467K	407K	334K	259K	189K	130K	86K	56K	36K	24K	17K	13K	11K	9K	7K	7K	6K	5K	cd
100%	97%	90%	78%	64%	50%	36%	25%	17%	11%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	of 0°val