

# Light Measurement Report

Print date: 12/05/2021

Measurement date and time: 09/07/2015 16.26.46 – Measurement no. VISO-210215-11545-HQ

Measurement tracking No. and Link: VT180502-008887

Operator: Demo Operator Name



## Laboratory and Equipment

Laboratory Owner and Location  
Goniospectrometer System and Type  
Sensor Name, Calibr. Date and Serial No.  
Spectrometer Manufacturer and Model

Viso Systems, Copenhagen V, Denmark  
Viso LabSpion VIS – Type C, horizontal  
LabSensor – 01/01/0001 – 1961738647  
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

72 planes – 5°  
3,75°  
2,41 m  
27,0 W – PF 0,98 – DPF 0,98  
230 V – 0,120 A  
50 Hz  
29 min 3 sec – 2,0%

## Tested Light Source

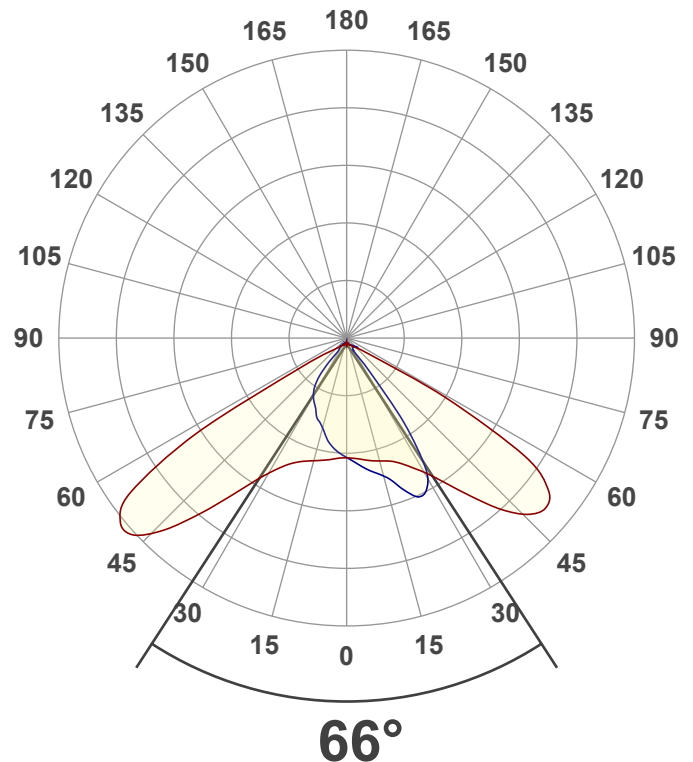
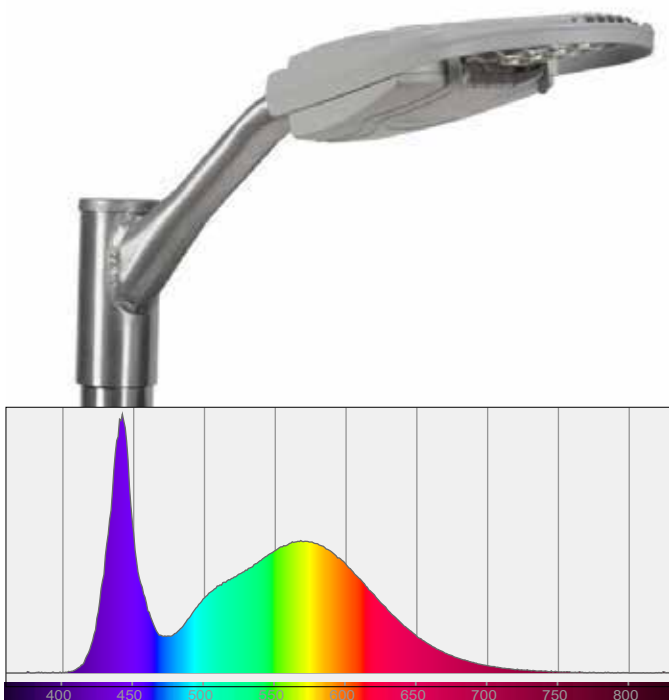
Product Name  
Item No. and Manufacturer  
Product Description (line 1)

Demo 9 - STREET  
Demo No. - Demo manufacturer  
Demo description

## 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

3219 lm – 0,14% / 99,86%  
119 lm/W  
3074 cd – 66°  
CCT = 5831 K / 5831 K  
CRI 72,5  
 $R_f$  73,6 –  $R_g$  95,4  
Duv 0,0021 – SDCM 2.1  
SVM 3,09 – PstLM 0,61



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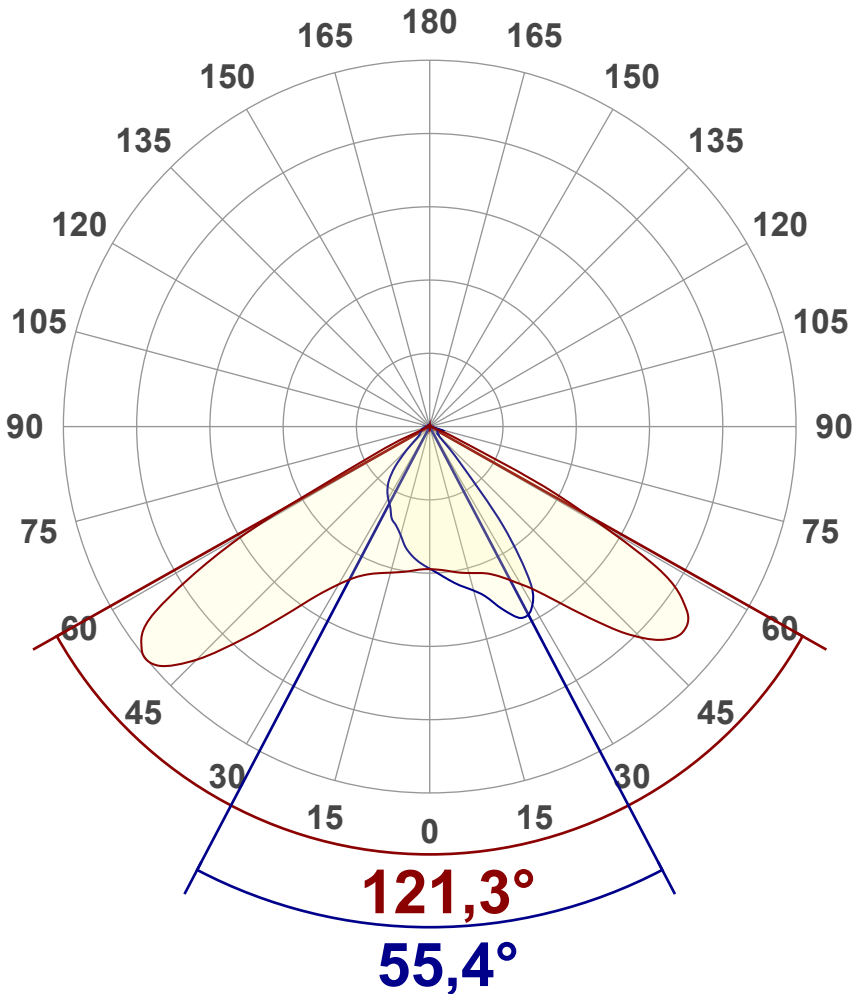
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## Luminous Intensity diagram

Unit: 0-100% of peak intensity



## Main Values

Output (total Lumen)	3219 lm
Lumen Up% / Down%	0,14% / 99,86%
Peak Intensity	3074 cd
Beam Angle (50%)	66°
Beam Angle (90%)	55,4°
Beam Angle (10%)	124,2°

## According to regulation (EU) 2019/2015

Directionality	Directional
Useful Lumen	1866 lm
Energy Class	G
$\eta_{TM}$ - Efficacy	81,4 lm/W

## Cut-off Angle

Average 2,5%	142,5°
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## Field Angle

Average 10%	112,3°
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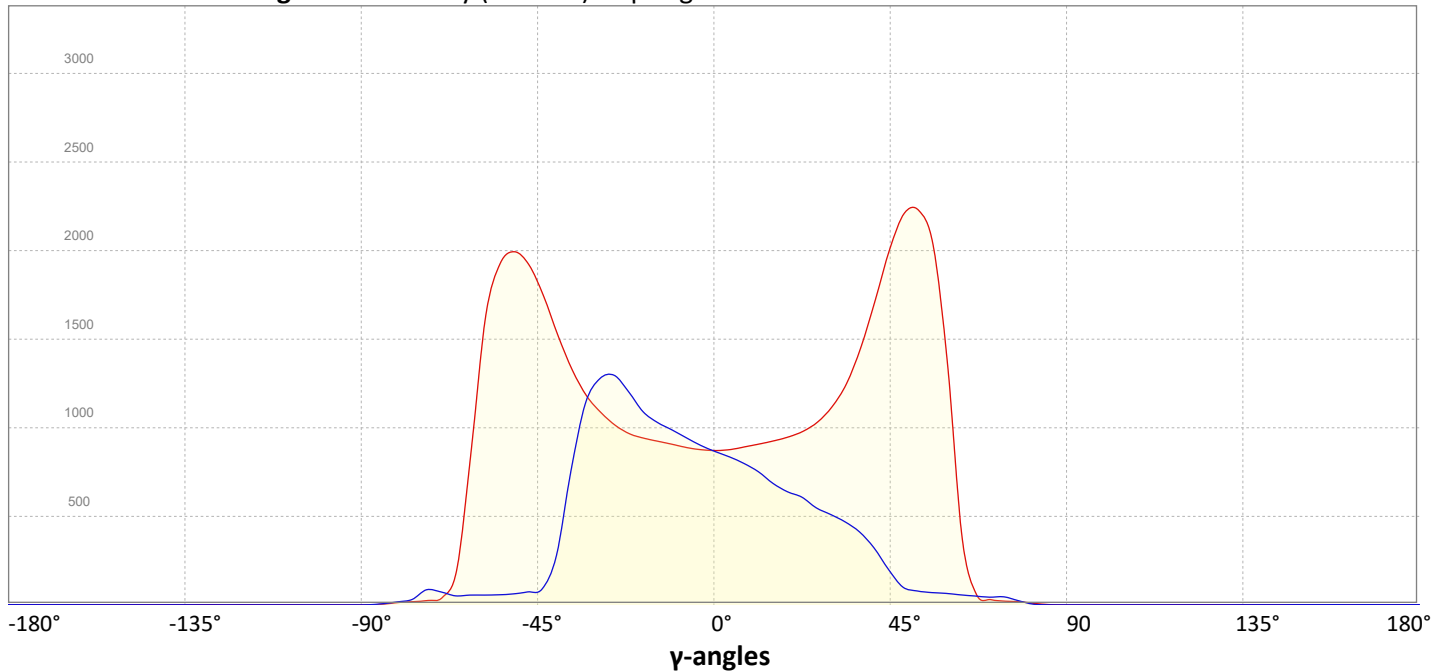
## Intensity Ratio

In 120° cone	91,6%
In 90° cone	58,0%

**C000-C180**

**C090-C270**

## Linear distribution diagram - Intensity (candela) vs $\gamma$ -angle



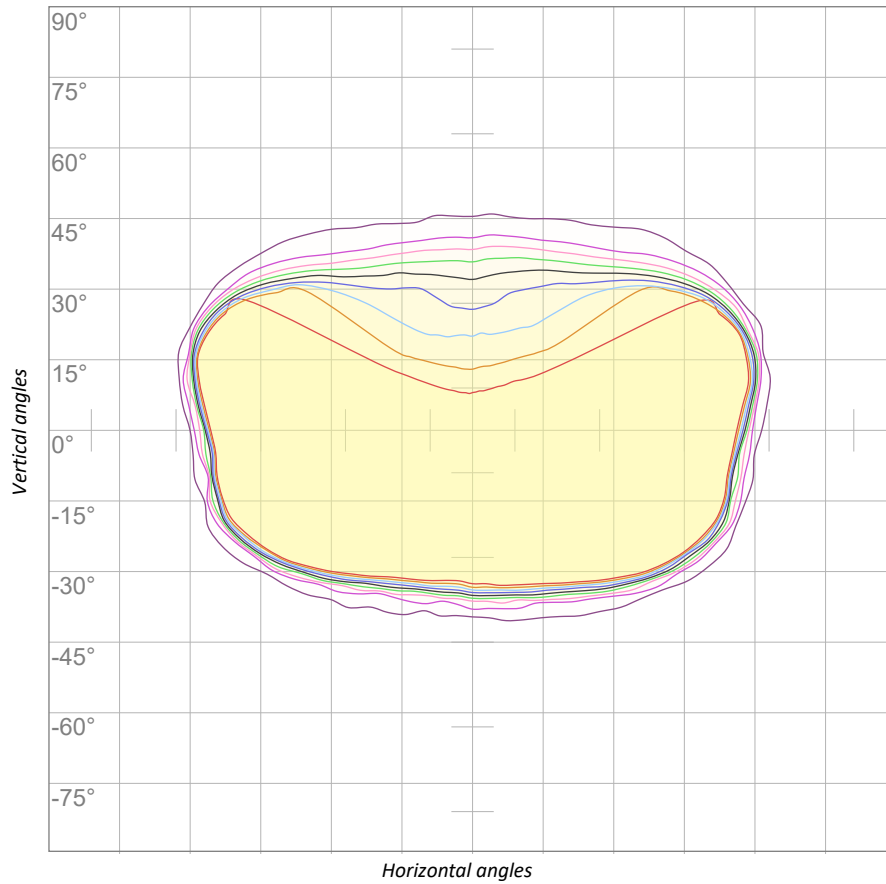
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## Iso-candela diagram

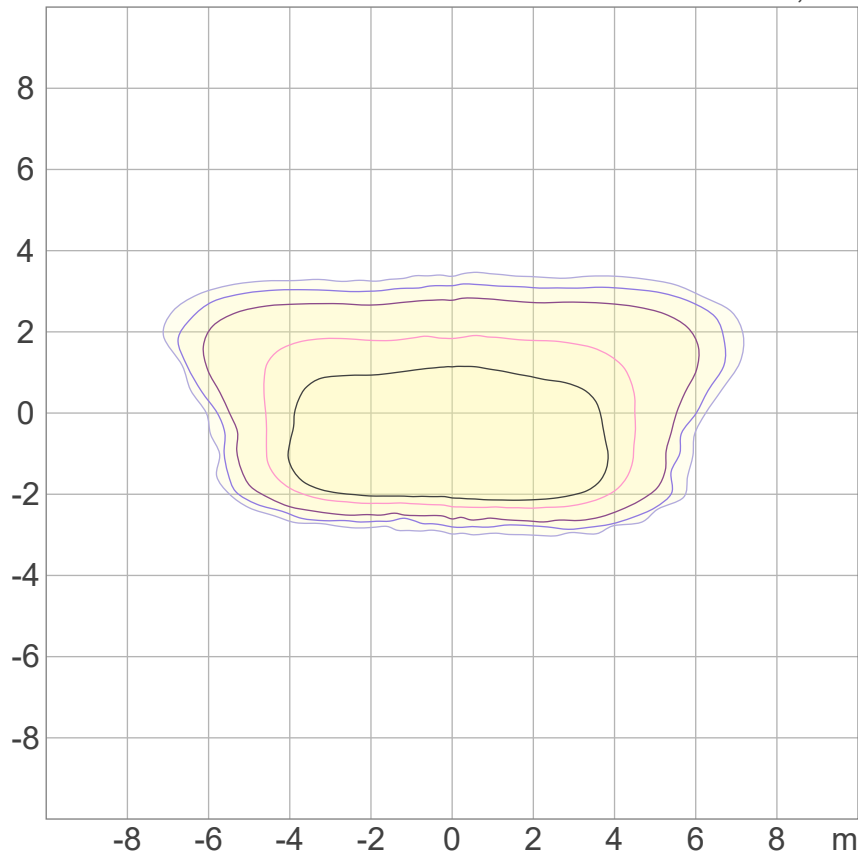
10%	87 cd
20%	174 cd
30%	261 cd
40%	349 cd
50%	436 cd
60%	523 cd
70%	610 cd
80%	697 cd
90%	784 cd

### Conditions:

Number of c-planes: 72

Intensity at center: 872 cd

MH: 3,0 m



## Iso-lux diagram

Lux distribution on a surface when lamp is mounted at 3,0 m from the surface.

3%	0,261 lx
5%	0,436 lx
10%	0,872 lx
30%	2,61 lx
50%	4,36 lx

### Conditions:

Number of c-planes: 72

Lux at center: 8,72 lx

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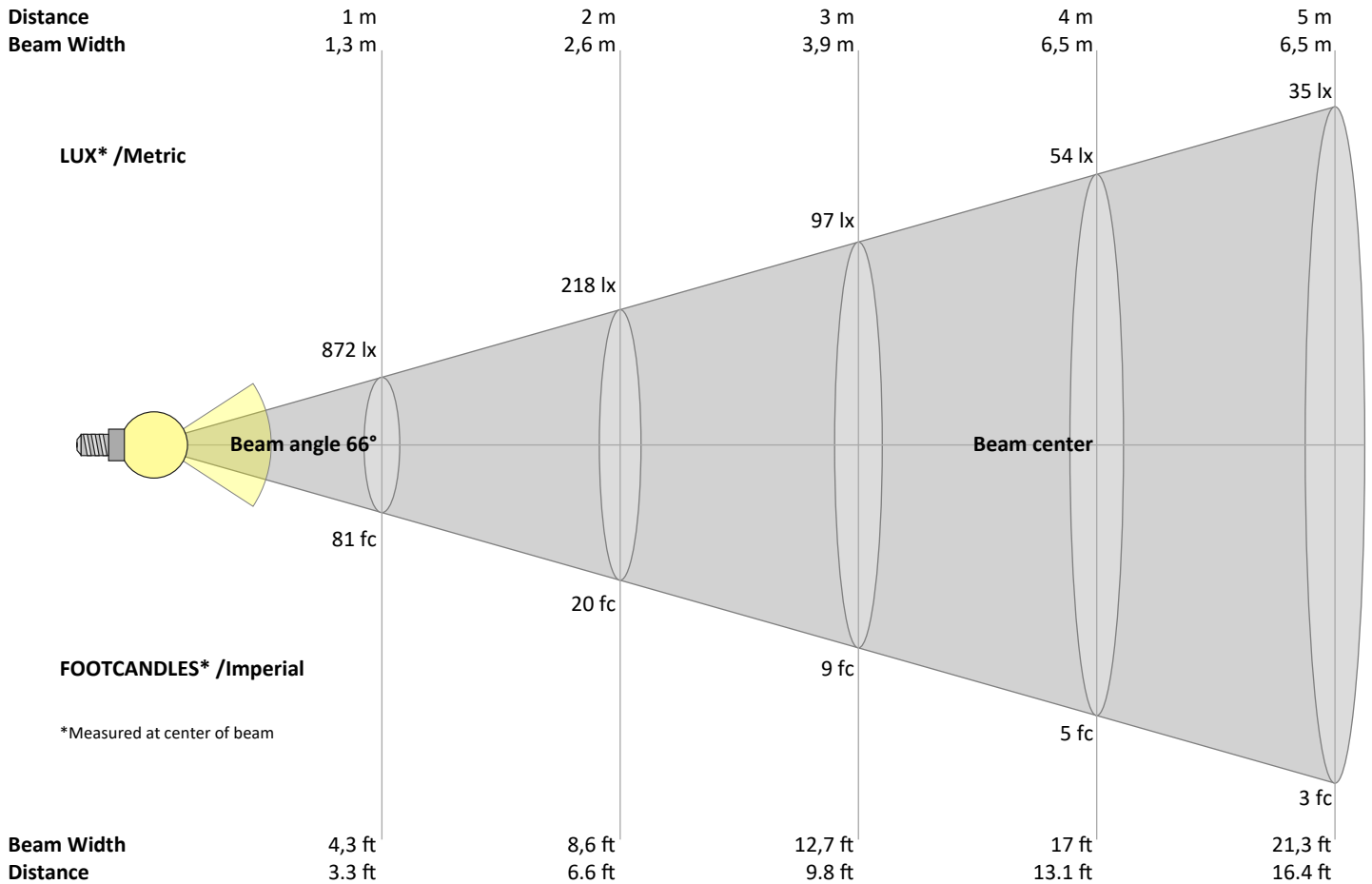
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## Beam Details



## 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
872	218	97	54	35	24	18	14	11	9	7	6	5	4	4	3	3	3	2	2	lux
81	20,2	9	5,1	3,2	2,2	1,7	1,3	1	0,8	0,7	0,6	0,5	0,4	0,4	0,3	0,3	0,2	0,2	0,2	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
872	882	904	927	955	1011	1116	1280	1533	1816	1976	1890	1267	309	39	22	15	4	1	0	cd
100%	101%	104%	106%	110%	116%	128%	147%	176%	208%	227%	217%	145%	36%	5%	2%	2%	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
872	920	979	1040	1149	1285	1243	909	302	85	66	57	56	52	75	61	20	6	1	0	cd
100%	106%	112%	119%	132%	147%	143%	104%	35%	10%	8%	7%	6%	6%	9%	7%	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
872	880	901	925	956	1012	1115	1313	1634	2015	2217	2080	1261	235	35	21	13	3	0	0	cd
100%	101%	103%	106%	110%	116%	128%	151%	187%	231%	254%	239%	145%	27%	4%	2%	2%	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
872	825	769	687	629	566	508	445	343	188	90	71	64	53	44	40	12	1	0	0	cd
100%	95%	88%	79%	72%	65%	58%	51%	39%	22%	10%	8%	7%	6%	5%	5%	1%	0%	0%	0%	of 0°val