Photometric Test Report

FL25-G2-XXX-3083-90-INF-XXXXX-X

Laboratory and Equipment

Test lab	Viso LabSpion - serial: 2007279764 sensor serial: 0690170290 - Test lab
Spectrometer Manufacturer and Model	LabSpion – Type C, horizontal
Measurement serial number	PH-GVA-2026.Apr.14-7878-VO
Measurement date	2026-04-14

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	5.00°
Input Power	26.33 W

Electrical Data

Input Power	26.33 W
Input Voltage	381.6 V DC
Input Current	0.07 A
Power Factor	1.00

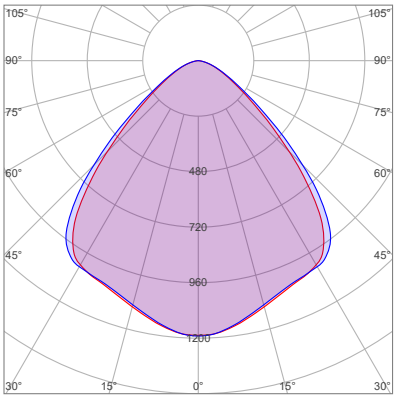
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-90-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

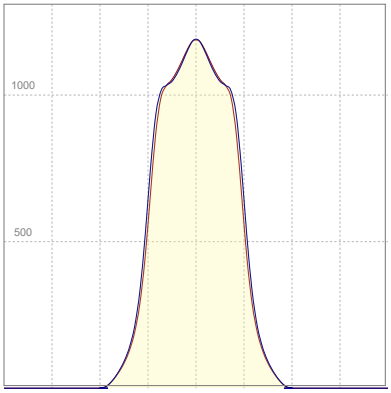
Output – Total Lumen (Up% / Down%)	2382 lm – 0.0169%% / 99.98%%
Efficiency	90.48 lm/W
Peak Intensity	1191 cd
Correlated Color Temperature, CCT	2949 K
Color Rendering Index	CRI 82.5
Beam Angle (FWHM) | C0/180	88.6°
Beam Angle (FWHM) | C90/270	92.1°
Field Angle (10%) | C0/180	127.0°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	129.1°
Optical Power	7165 mW
Peak Wavelength	603 nm
Dominant Wavelength	584 nm

Polar Light Distribution Diagram
Unit: 0-100% of peak intensity

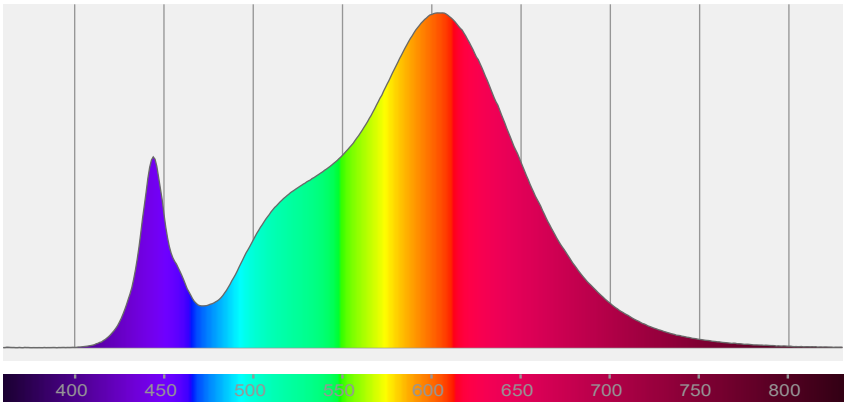


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

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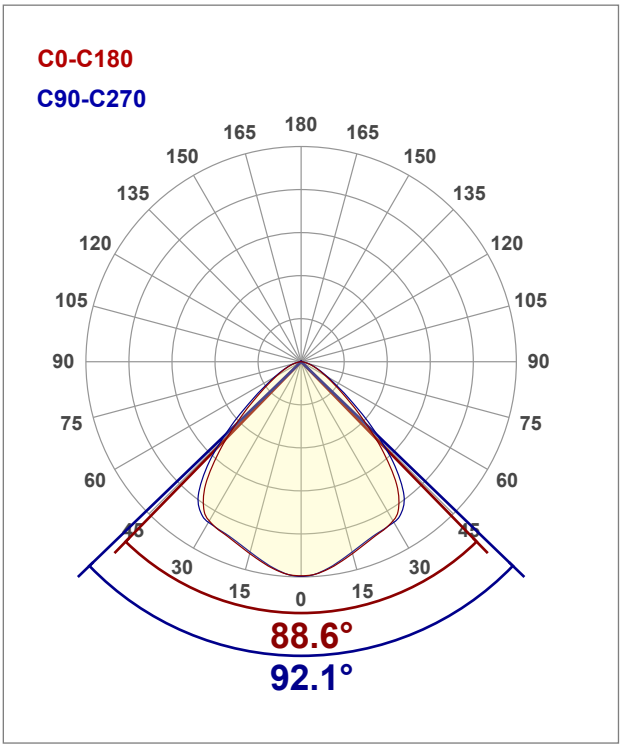
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2382 lm
Lumen Up% / Down%	0.0169% / 99.98%
Peak Intensity	1191 cd
Beam Angle (50%-FWHM)	91.0°

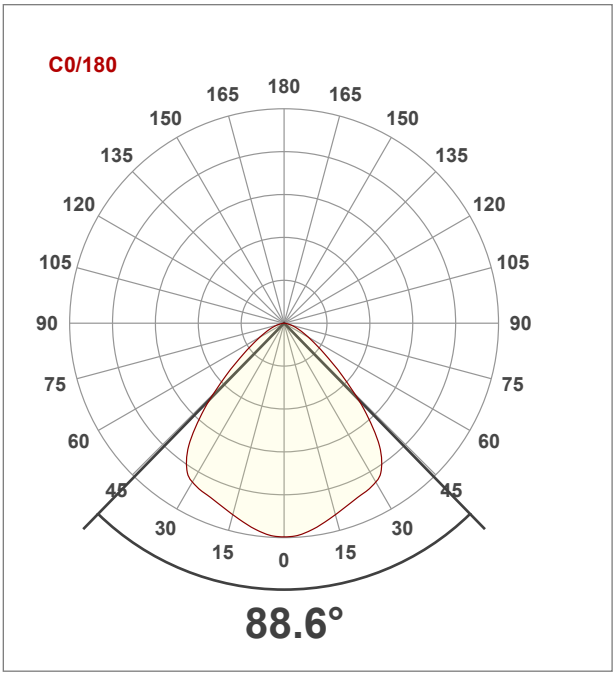
EU Ecodesign parameters

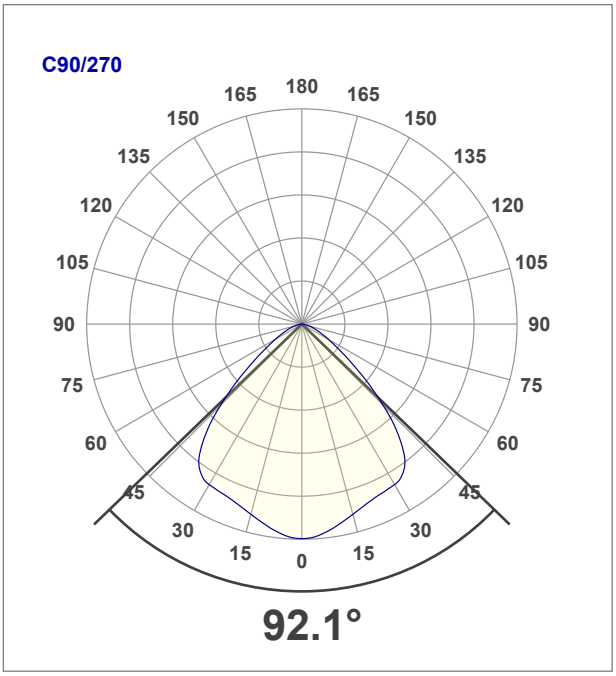
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2219 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	93.15%
In 90° cone	74.67%

Angular Distribution





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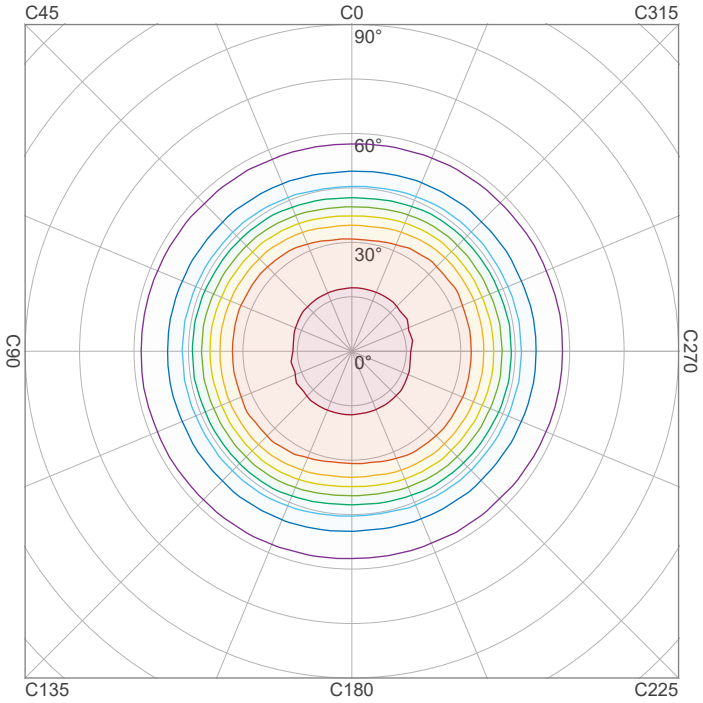
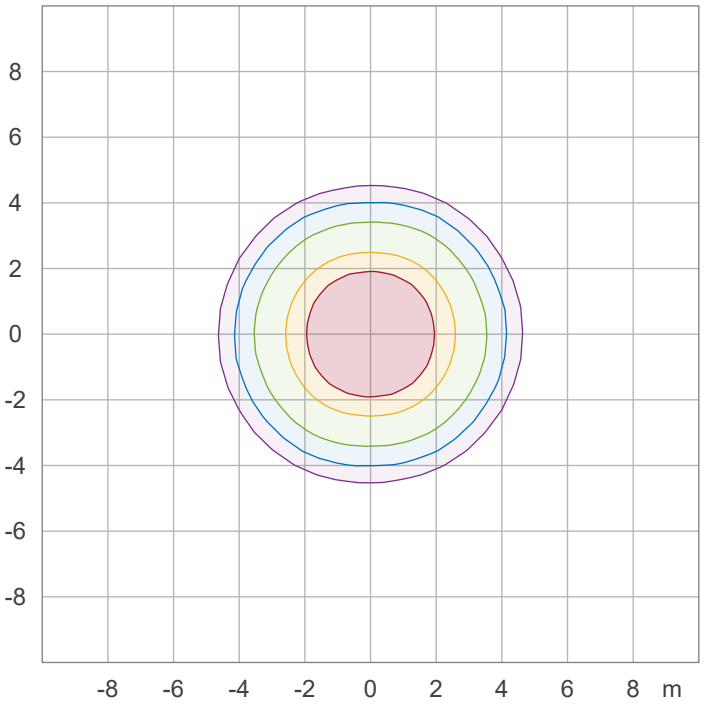
Iso-intensity Diagram (Iso-candela)



90 %	1071.7 cd
80 %	952.6 cd
70 %	833.6 cd
60 %	714.5 cd
50 %	595.4 cd
40 %	476.3 cd
30 %	357.2 cd
20 %	238.2 cd
10 %	119.1 cd

Peak intensity: 1190.8 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	66.1 lx
30.0 %	39.7 lx
10.0 %	13.2 lx
5.0 %	6.61 lx
3.0 %	3.97 lx

Peak illuminance: 132 lx
Mounting height: 3 m
Number of c-planes: 36

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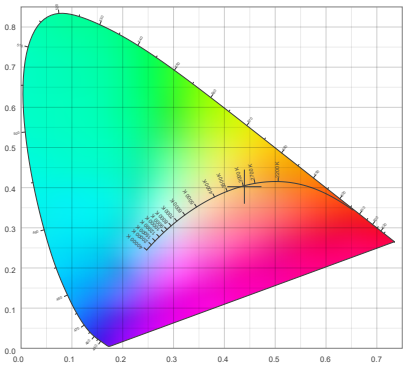
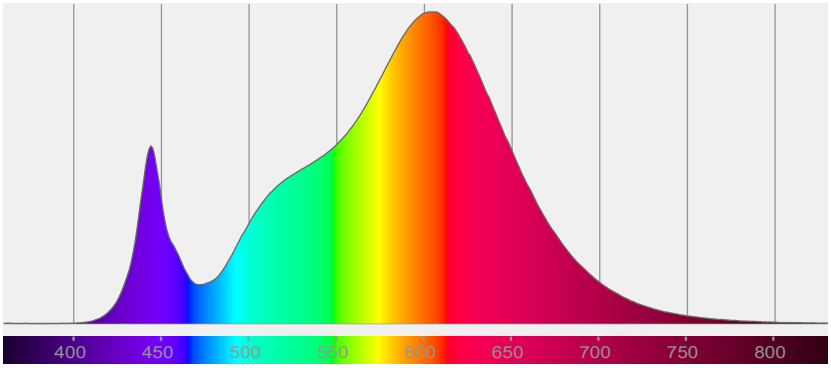
Color details

Correlated Color Temperature, Target	CCT = 2949 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2949 K	Color deviation from BBL	Duv = -0.0010
Color Rendering Index	CRI 82.5	Color coordinates CIE 1931	(x;y) = (0.4394;0.4024)
Color Rendering Index, R9 (red)	R9 = 2.9	Color coordinate CIEs 1960	(u;v) = (0.2529;0.3474)
Color Rendering TM30-18	Rf 83.2	Color coordinate CIEs 1976	(u';v') = (0.2529;0.5211)
	Rg 98.7	Color Quality Scale	CQS = 81.0

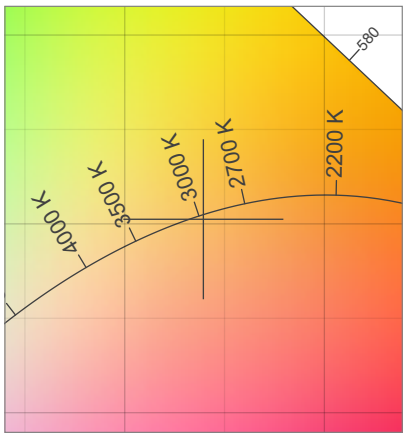
CIE 1931 Chromaticity diagram



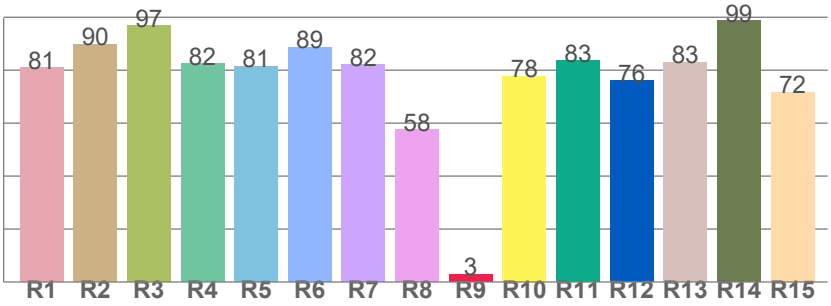
Spectral power distribution



CIE 1931 Chromaticity - zoomed



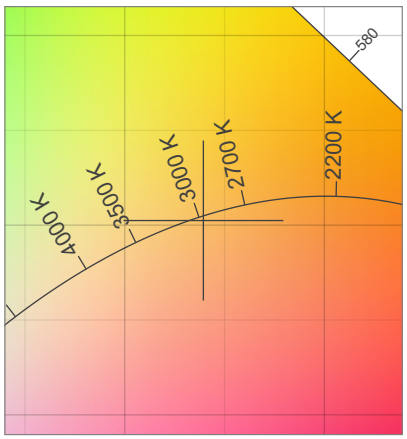
Color Rendering Index per reference color (CIE 1995)



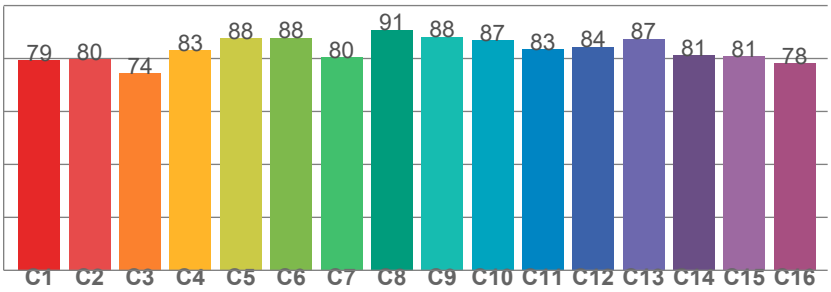
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.9	89.8	96.8	82.4	81.4	88.7	82.1	57.5	2.9	77.7	83.5	76.0	82.9	98.6	71.7

CIE 1931 Chromaticity - SDCM



TM30-18 Rf-values per hue bin



TM30-18 Rf-values per hue bin

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.4	79.8	74.5	83.1	87.5	87.7	80.4	90.8	88.2	86.9	83.4	84.5	87.4	81.2	80.7	78.2

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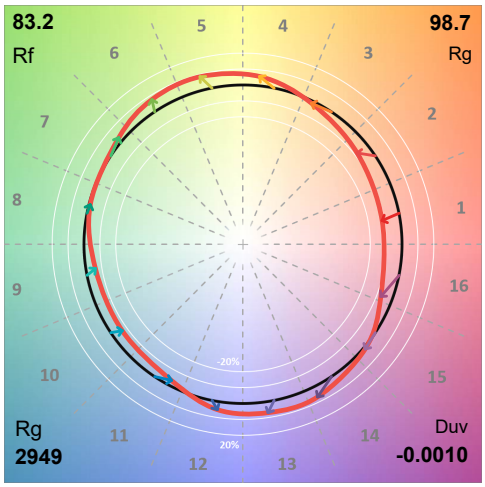
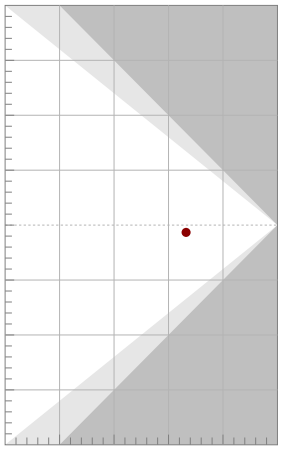
Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic

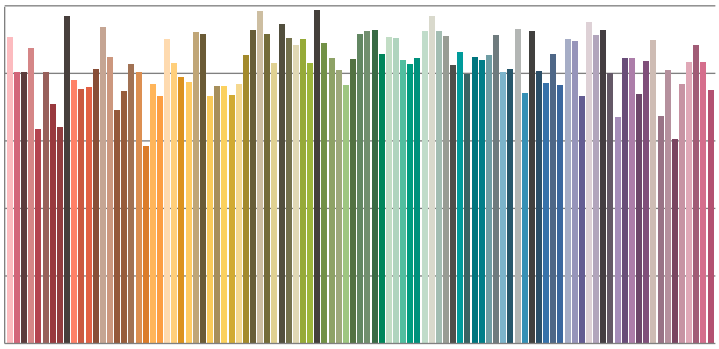
Gamut Index vs. Fidelity Index



Gamut index (Rg)

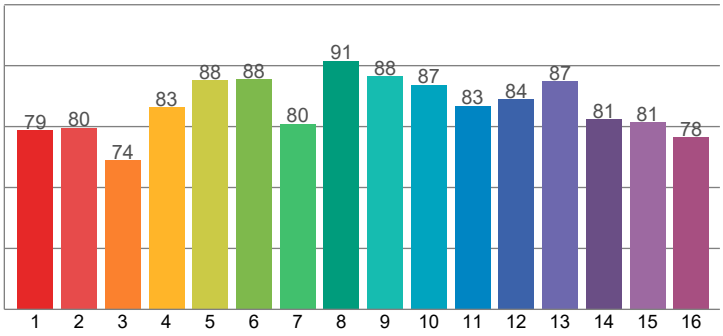
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



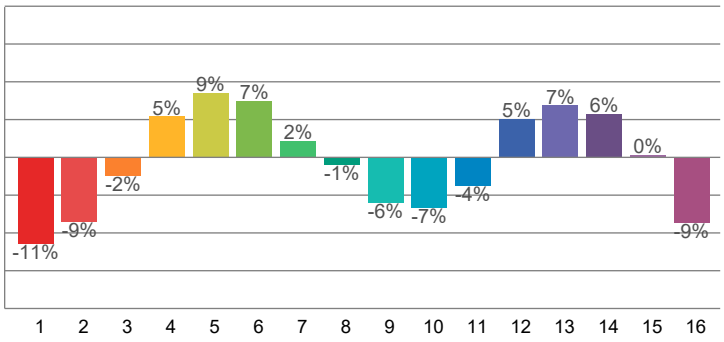
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4394
CIE y	0.4394
CIE u'	0.2529
CIE v'	0.5211

CIE	**13.3-1995**
Ra	82.5
R9	2.9

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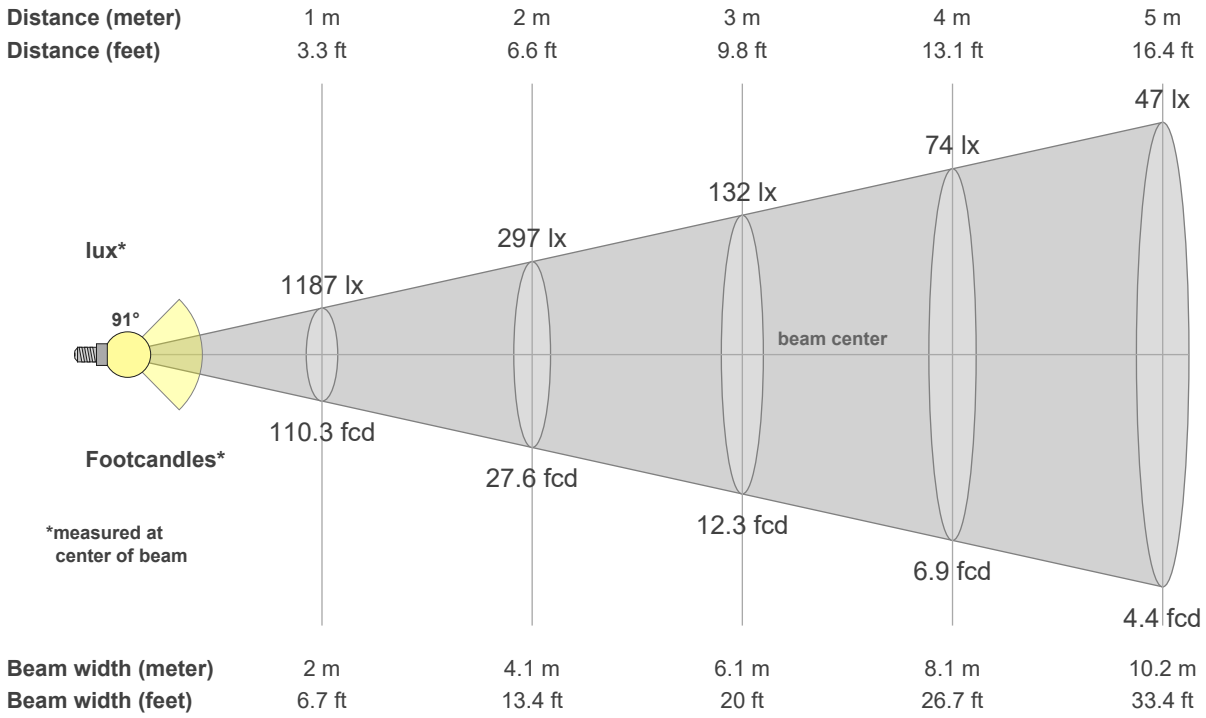
Beam details



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Intensity 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
1187	297	132	74	47	33	24	19	15	12	10	8	7	6	5	5	4	4	3	3	lux
110.3	27.6	12.3	6.9	4.4	3.1	2.3	1.7	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	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
1187	1173	1141	1102	1068	1043	1014	936	774	561	372	240	158	106	69	41	19	5	0	0	cd
100%	99%	96%	93%	90%	88%	85%	79%	65%	47%	31%	20%	13%	9%	6%	3%	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
1187	1171	1134	1094	1061	1040	1025	977	847	641	430	272	174	114	73	43	20	4	0	0	cd
100%	99%	96%	92%	89%	88%	86%	82%	71%	54%	36%	23%	15%	10%	6%	4%	2%	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
1187	1173	1141	1102	1068	1043	1014	936	774	561	372	240	158	106	69	41	19	5	0	0	cd
100%	99%	96%	93%	90%	88%	85%	79%	65%	47%	31%	20%	13%	9%	6%	3%	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
1187	1171	1134	1094	1061	1040	1025	977	847	641	430	272	174	114	73	43	20	4	0	0	cd
100%	99%	96%	92%	89%	88%	86%	82%	71%	54%	36%	23%	15%	10%	6%	4%	2%	0%	0%	0%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	26.33 W
RMS Input voltage feed V,RMS	381.6 V
RMS Input current feed I,RMS	0.07 A
Volt-Amp or apparent power = V,RMS*I,RMS	26.3 VA
Displacement factor of AC power feed	1.00
Power factor of AC current feed	1.00
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

Input power curve

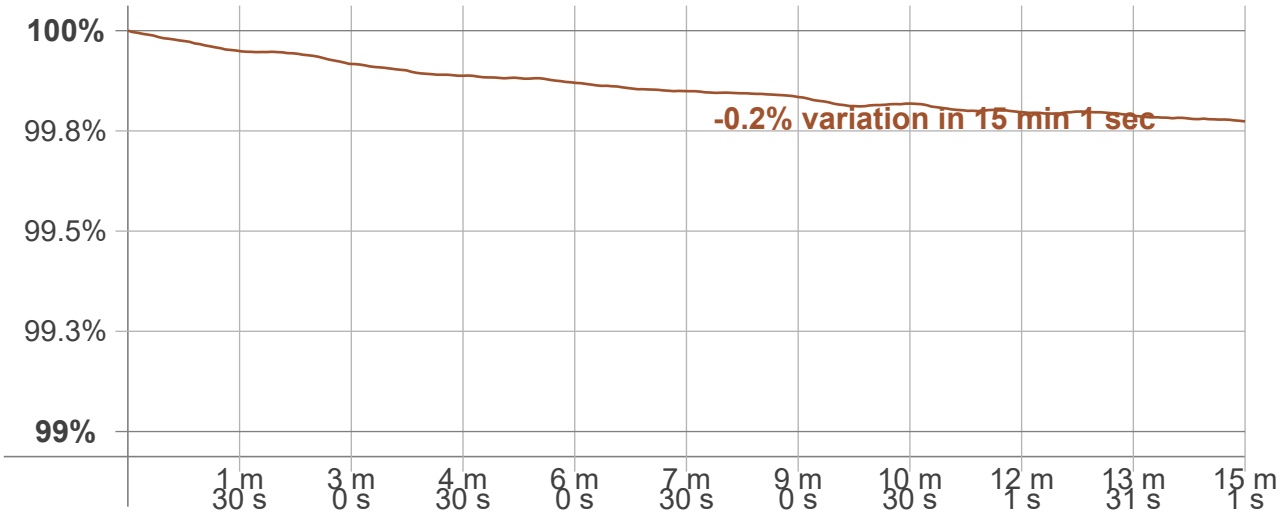
Efficiency

Radiated power efficiency	27.21
Lumen efficiency	90.48 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2949 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2949 K
Warmup Result		**Output Change**	
Total warmup time	Lamp stabilized in	Output start	2388 lm
Warmup variation	-0.2494%	Output change	-5.4566 lm
		Output end	2382 lm

Stabilization Curve



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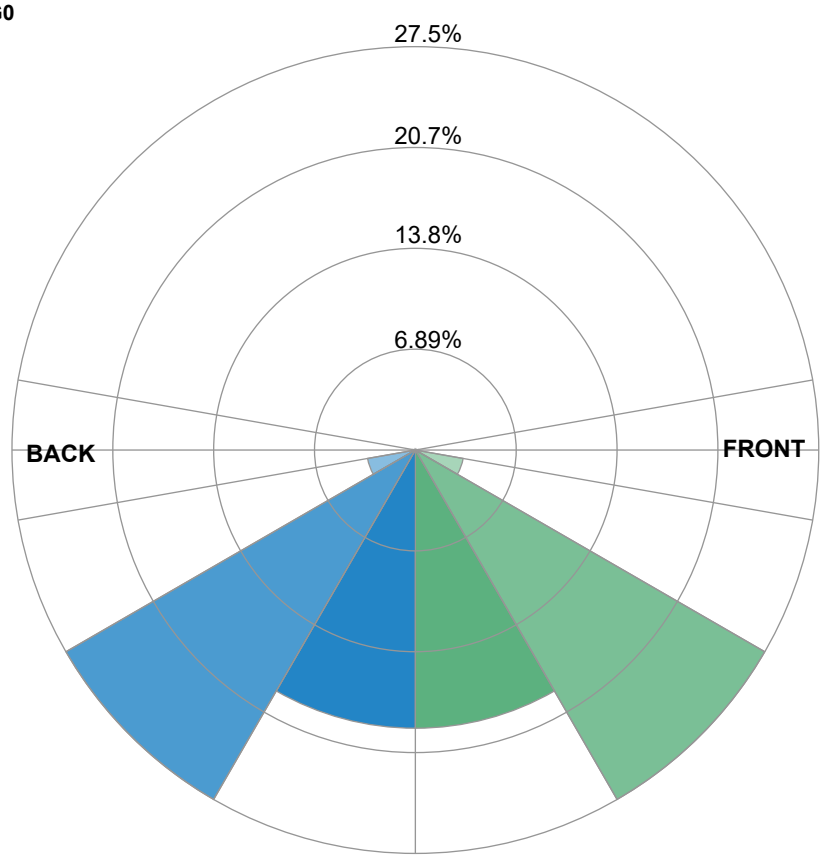
IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	453	lm	19.0%
Medium (30-60°)	656	lm	27.5%
High (60-80°)	78.9	lm	3.31%
Very High (80-90°)	3.54	lm	0.149%
Back Light			
Low (0-30°)	453	lm	19.0%
Medium (30-60°)	656	lm	27.5%
High (60-80°)	78.9	lm	3.31%
Very High (80-90°)	3.54	lm	0.149%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2382	lm	100%

BUG RATING B1 U0 G0