Photometric Test Report

FL25-G2-XXX-3083-1060-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.14-7884-VO
Measurement date	2026-04-14

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.50°
Input Power	28.62 W

Electrical Data

Input Power	28.62 W
Input Voltage	381.6 V DC
Input Current	0.08 A
Power Factor	1.00

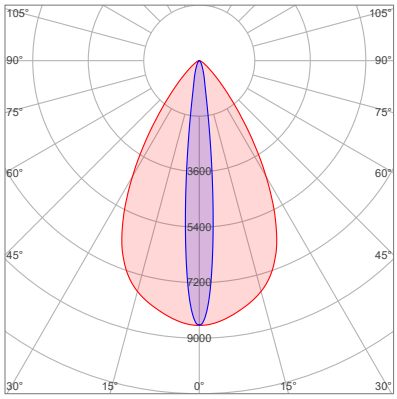
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-1060-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

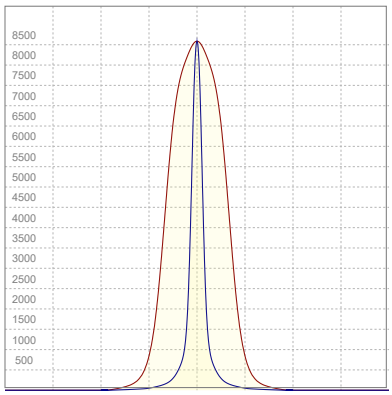
Output – Total Lumen (Up% / Down%)	2495 lm – 0%% / 100%%
Efficiency	87.19 lm/W
Peak Intensity	8589 cd
Correlated Color Temperature, CCT	2931 K
Color Rendering Index	CRI 82.3
Beam Angle (FWHM) | C0/180	60.2°
Beam Angle (FWHM) | C90/270	11.7°
Field Angle (10%) | C0/180	90.0°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	25.5°
Optical Power	7490 mW
Peak Wavelength	604 nm
Dominant Wavelength	584 nm

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

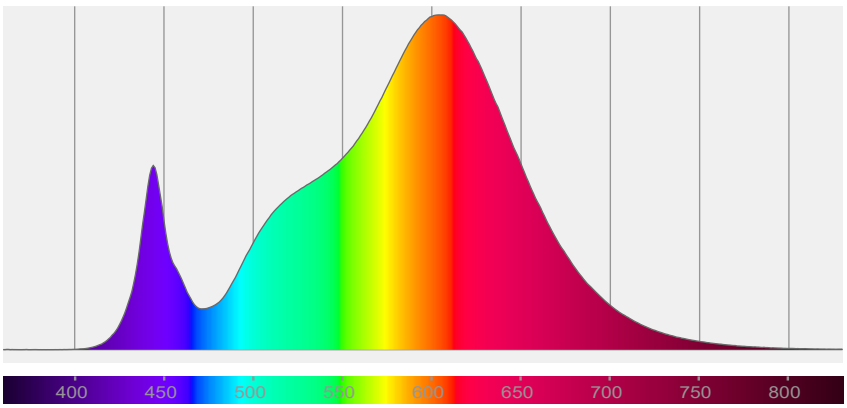


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

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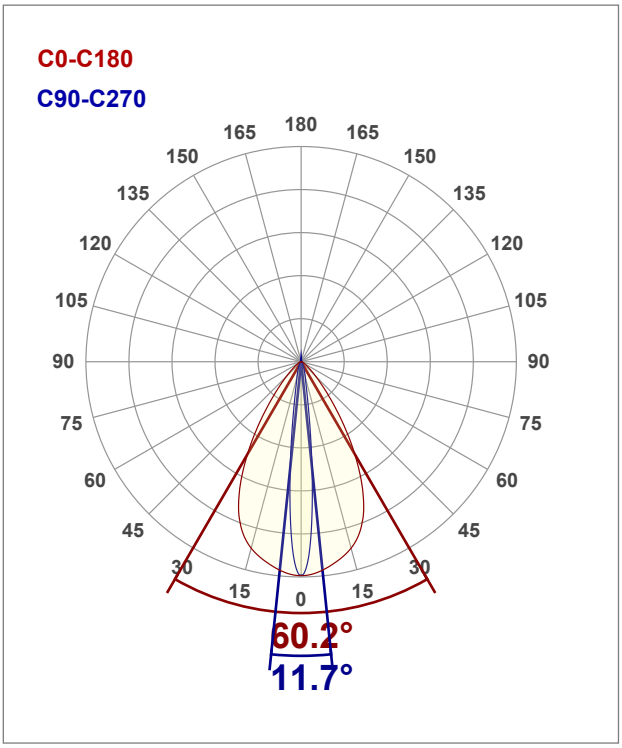
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2495 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	8589 cd
Beam Angle (50%-FWHM)	23.4°

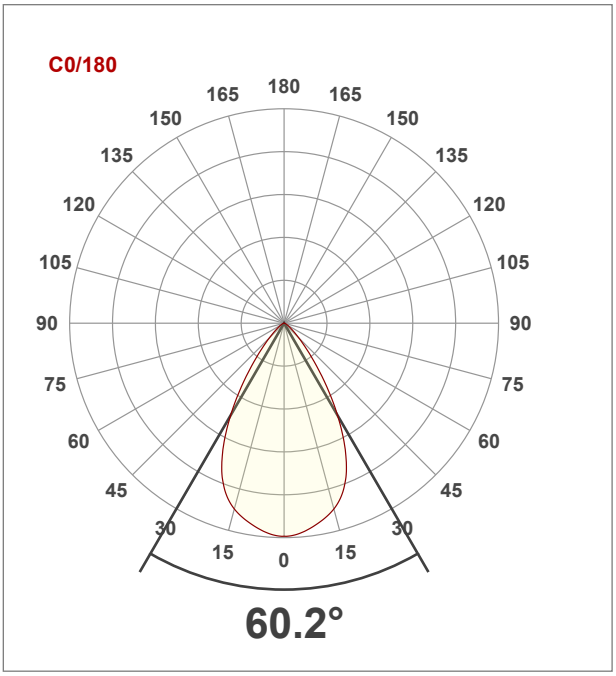
EU Ecodesign parameters

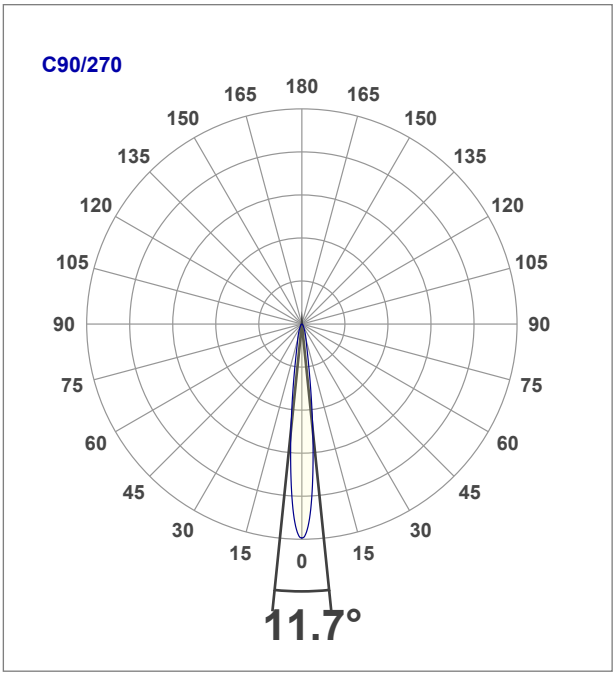
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2295 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	97.72%
In 90° cone	91.95%

Angular Distribution





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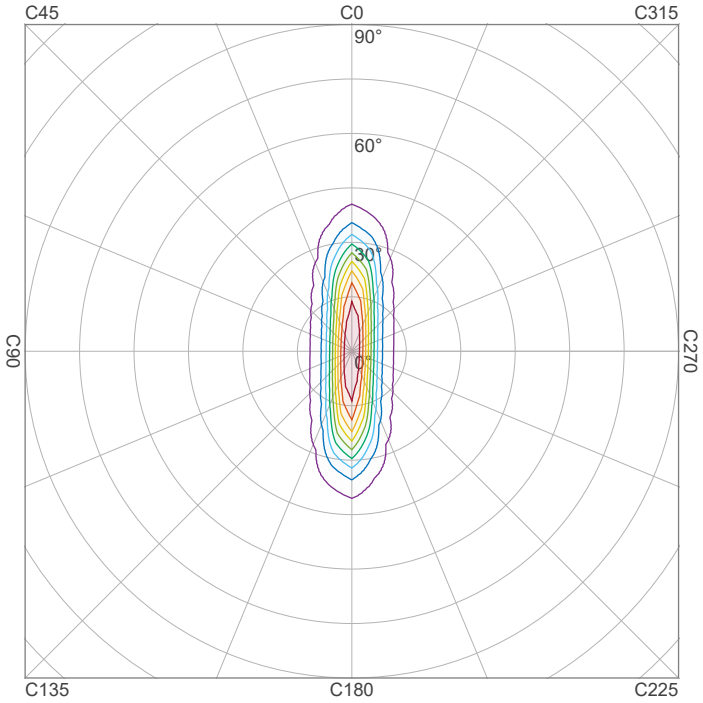
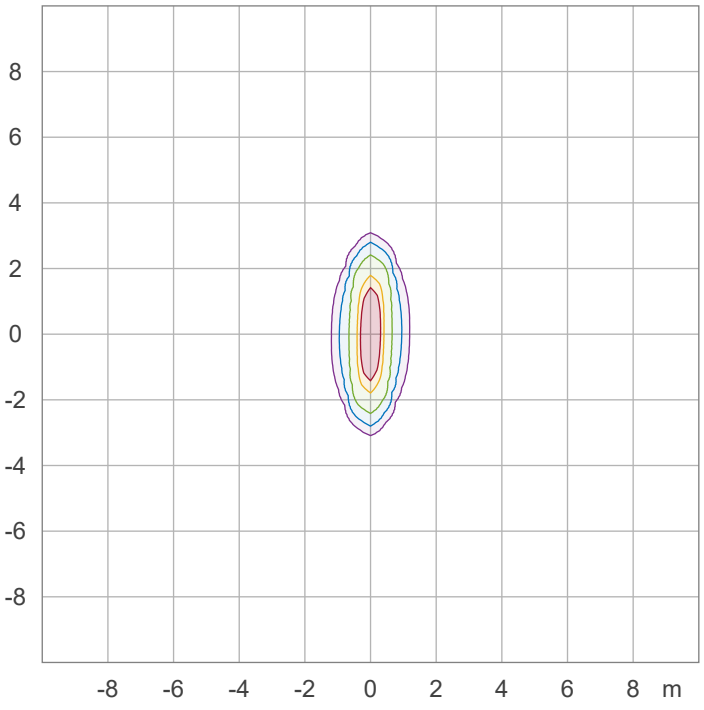
Iso-intensity Diagram (Iso-candela)



90 %	7722.8 cd
80 %	6864.7 cd
70 %	6006.6 cd
60 %	5148.5 cd
50 %	4290.4 cd
40 %	3432.3 cd
30 %	2574.3 cd
20 %	1716.2 cd
10 %	858.1 cd

Peak intensity: 8580.9 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	477 lx
30.0 %	286 lx
10.0 %	95.3 lx
5.0 %	47.7 lx
3.0 %	28.6 lx

Peak illuminance: 953 lx
Mounting height: 3 m
Number of c-planes: 36

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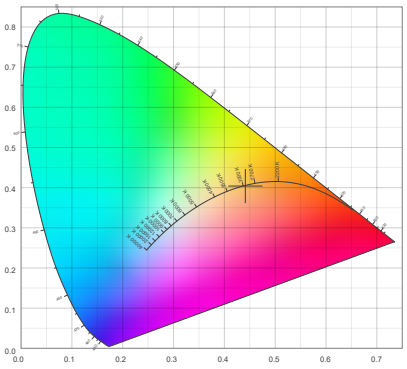
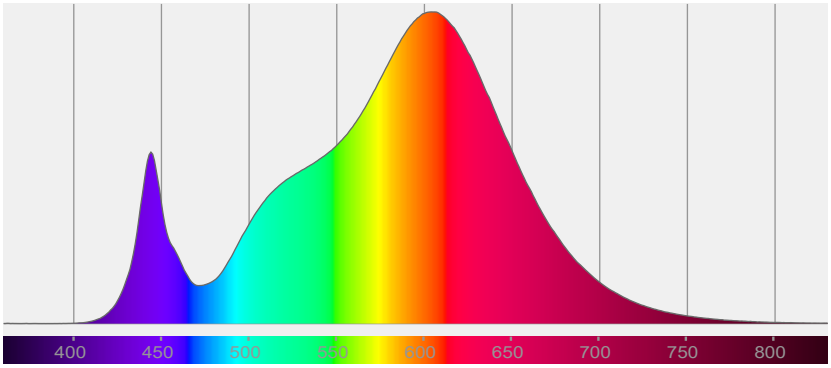
Color details

Correlated Color Temperature, Target	CCT = 2931 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2931 K	Color deviation from BBL	Duv = -0.0006
Color Rendering Index	CRI 82.3	Color coordinates CIE 1931	(x;y) = (0.4413;0.4040)
Color Rendering Index, R9 (red)	R9 = 2.3	Color coordinate CIEs 1960	(u;v) = (0.2534;0.3480)
Color Rendering TM30-18	Rf 83.3	Color coordinate CIEs 1976	(u';v') = (0.2534;0.5220)
	Rg 98.5	Color Quality Scale	CQS = 81.1

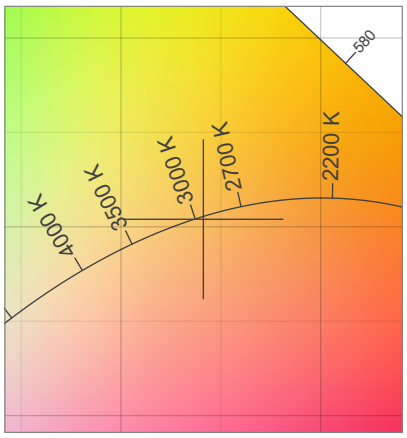
CIE 1931 Chromaticity diagram



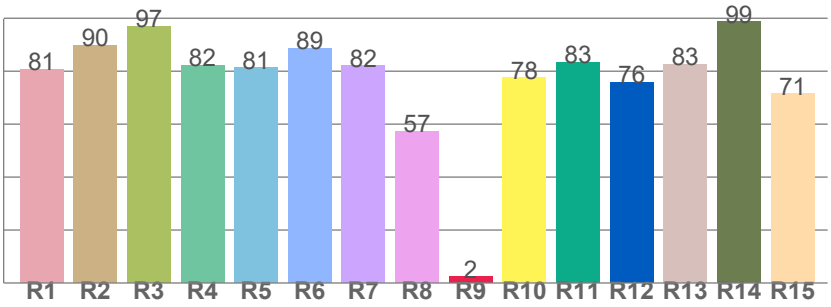
Spectral power distribution



CIE 1931 Chromaticity - zoomed



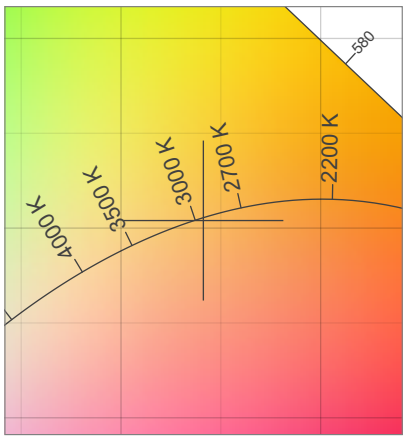
Color Rendering Index per reference color (CIE 1995)



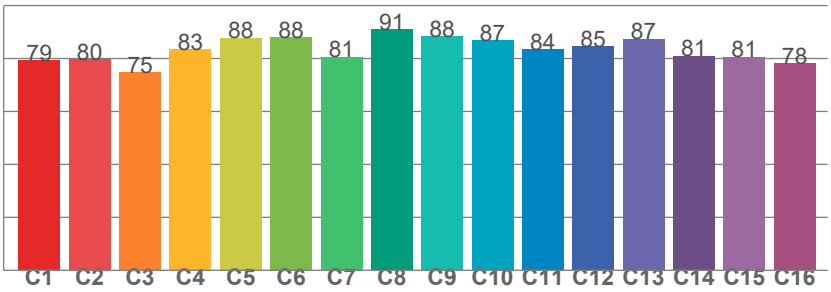
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.7	89.7	96.9	82.3	81.2	88.6	82.1	57.3	2.3	77.6	83.3	75.8	82.7	98.7	71.4

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
79.3	79.8	74.7	83.4	87.8	88.0	80.6	91.0	88.3	86.9	83.5	84.6	87.4	81.0	80.6	78.1

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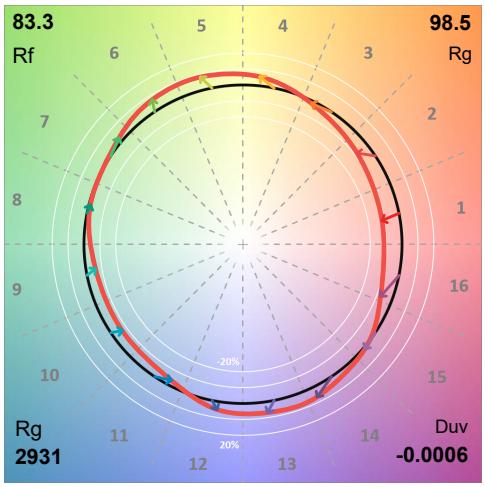
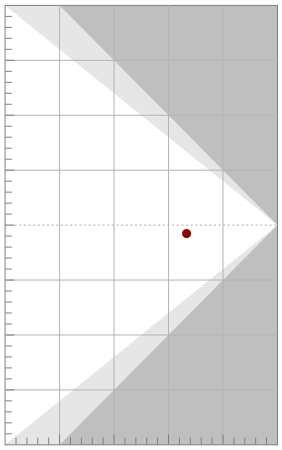
Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic

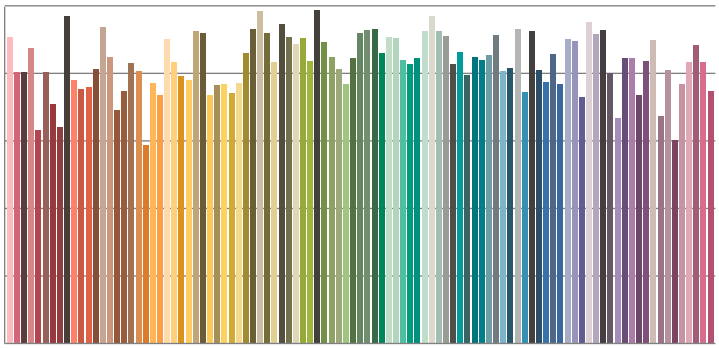
Gamut Index vs. Fidelity Index



Gamut index (Rg)

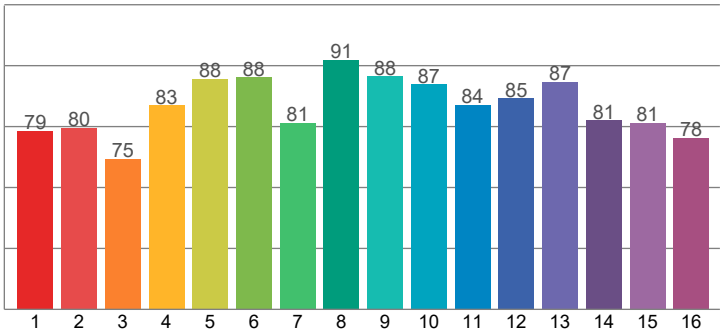
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



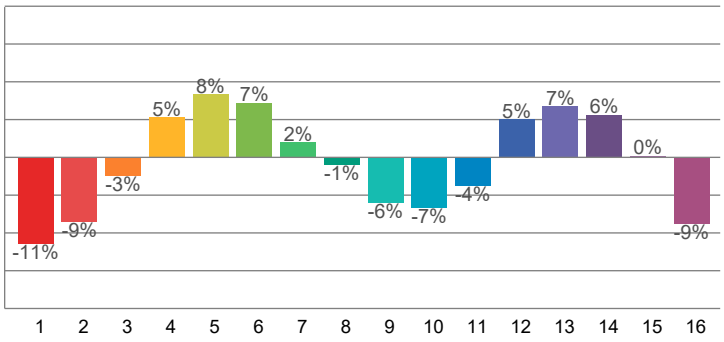
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4413
CIE y	0.4413
CIE u'	0.2534
CIE v'	0.5220

CIE	**13.3-1995**
Ra	82.3
R9	2.3

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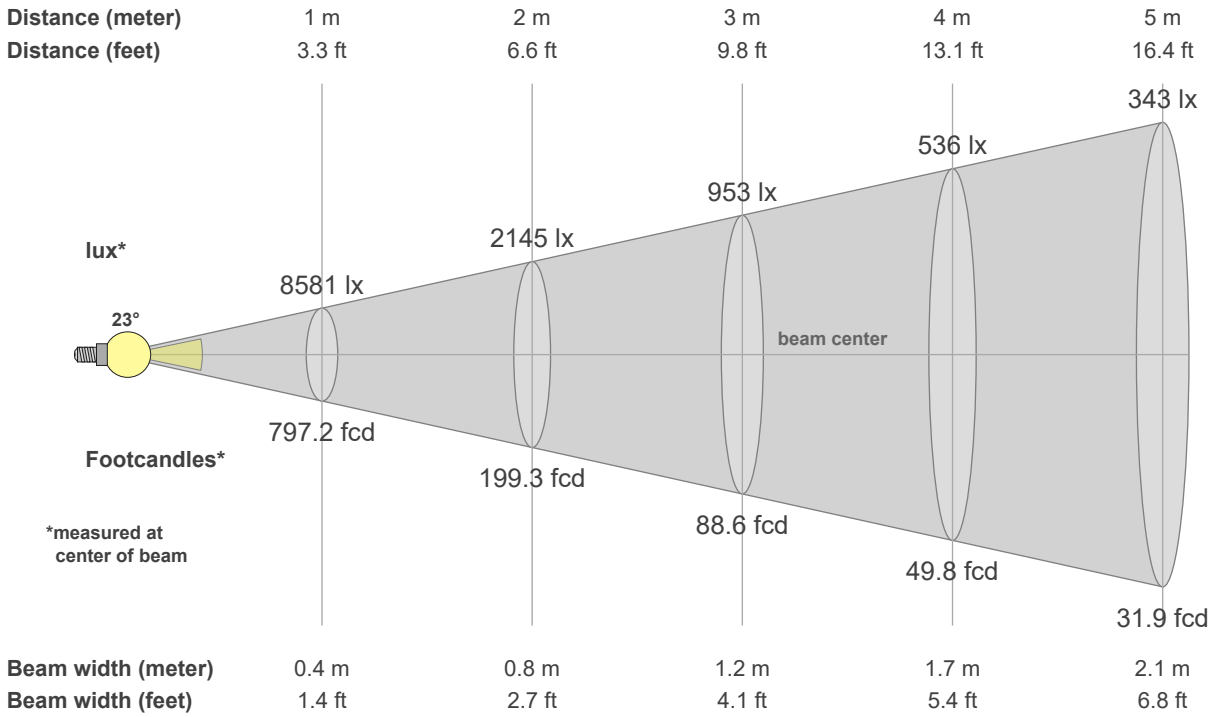
Beam details



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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
8581	2145	953	536	343	238	175	134	106	86	71	60	51	44	38	34	30	26	24	21	lux
797.2	199.3	88.6	49.8	31.9	22.1	16.3	12.5	9.8	8	6.6	5.5	4.7	4.1	3.5	3.1	2.8	2.5	2.2	2	fc

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
8581	8565	8500	8403	8283	8150	8007	7842	7640	7383	7055	6658	6161	5595	4976	4331	3689	3067	2507	1980	cd
100%	100%	99%	98%	97%	95%	93%	91%	89%	86%	82%	78%	72%	65%	58%	50%	43%	36%	29%	23%	of 0°val

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
8581	7964	6219	4134	2444	1445	963	726	582	472	380	309	252	210	178	153	132	115	101	88	cd
100%	93%	72%	48%	28%	17%	11%	8%	7%	5%	4%	4%	3%	2%	2%	2%	2%	1%	1%	1%	of 0°val

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
8581	8565	8500	8403	8283	8150	8007	7842	7640	7383	7055	6658	6161	5595	4976	4331	3689	3067	2507	1980	cd
100%	100%	99%	98%	97%	95%	93%	91%	89%	86%	82%	78%	72%	65%	58%	50%	43%	36%	29%	23%	of 0°val

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°	γ
8581	7964	6219	4134	2444	1445	963	726	582	472	380	309	252	210	178	153	132	115	101	88	cd
100%	93%	72%	48%	28%	17%	11%	8%	7%	5%	4%	4%	3%	2%	2%	2%	2%	1%	1%	1%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	28.62 W
RMS Input voltage feed V,RMS	381.6 V
RMS Input current feed I,RMS	0.08 A
Volt-Amp or apparent power = V,RMS*I,RMS	28.6 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

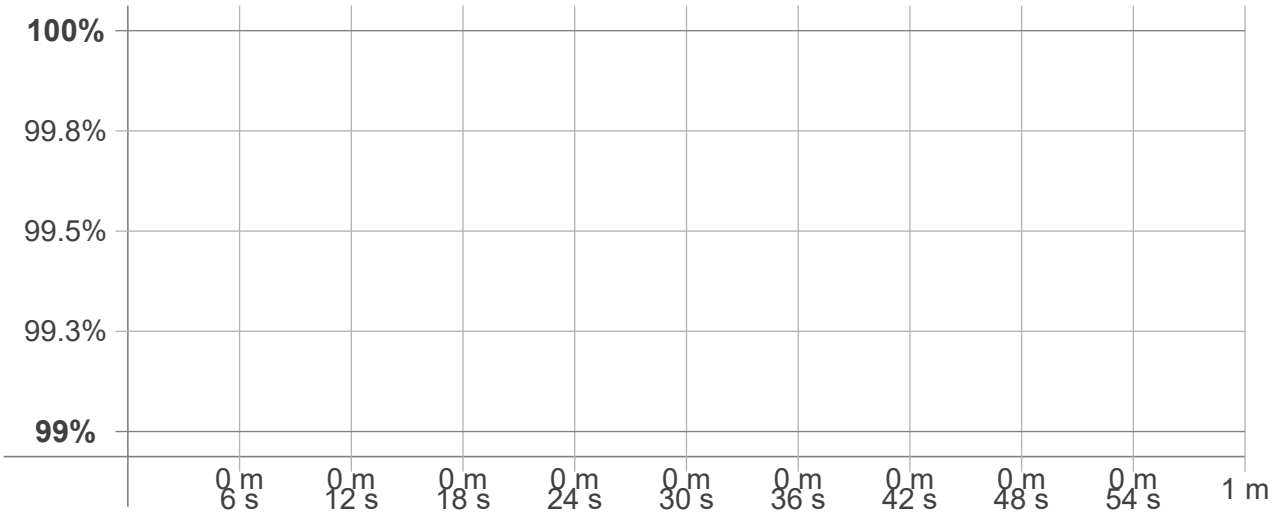
Efficiency

Radiated power efficiency	26.17
Lumen efficiency	87.19 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	n/a	CCT start	NaN K
Stable change max	n/a%	CCT shift	NaN K
Minimum time	n/a	CCT end	2931 K
Warmup Result		**Output Change**	
Total warmup time	n/a	Output start	NaN lm
Warmup variation	NaN%	Output change	NaN lm
		Output end	2495 lm

Stabilization Curve



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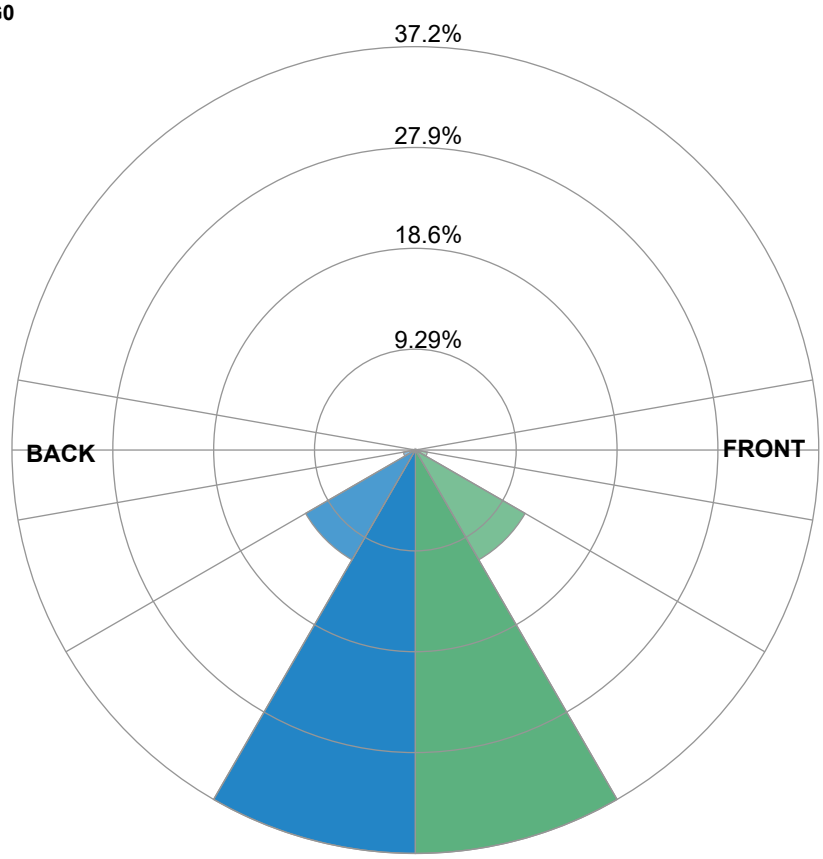
FL25-G2-XXX-3083-1060-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	928	lm	37.2%
Medium (30-60°)	291	lm	11.7%
High (60-80°)	27.9	lm	1.12%
Very High (80-90°)	0.857	lm	0.0343%
Back Light			
Low (0-30°)	928	lm	37.2%
Medium (30-60°)	291	lm	11.7%
High (60-80°)	27.9	lm	1.12%
Very High (80-90°)	0.857	lm	0.0343%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2495	lm	100%

BUG RATING B2 U0 G0