Photometric Test Report

FL25-G2-XXX-3083-7-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.30-8260-VO
Measurement date	2026-04-30

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.40°
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

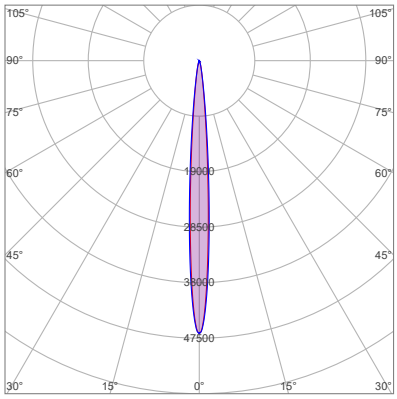
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-7-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

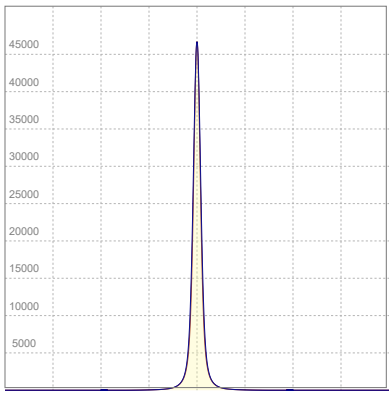
Output – Total Lumen (Up% / Down%)	1712 lm – 0%% / 100%%
Efficiency	59.82 lm/W
Peak Intensity	46767 cd
Correlated Color Temperature, CCT	2882 K
Color Rendering Index	CRI 82.4
Beam Angle (FWHM) | C0/180	7.5°
Beam Angle (FWHM) | C90/270	8.2°
Field Angle (10%) | C0/180	16.5°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	17.5°
Optical Power	5237 mW
Peak Wavelength	607 nm
Dominant Wavelength	584 nm

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

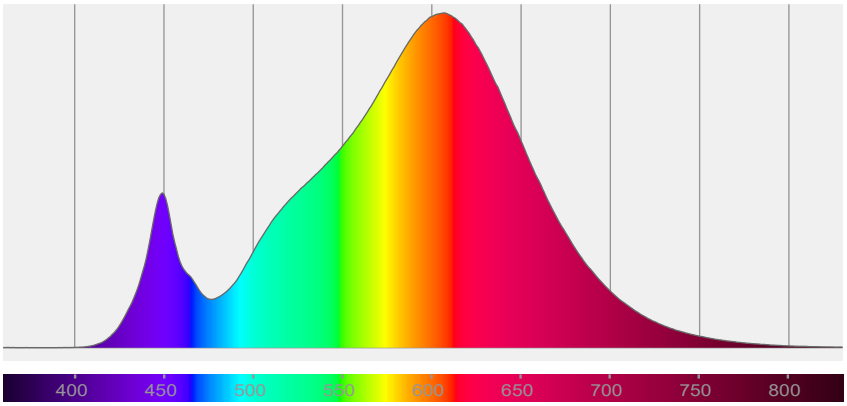


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

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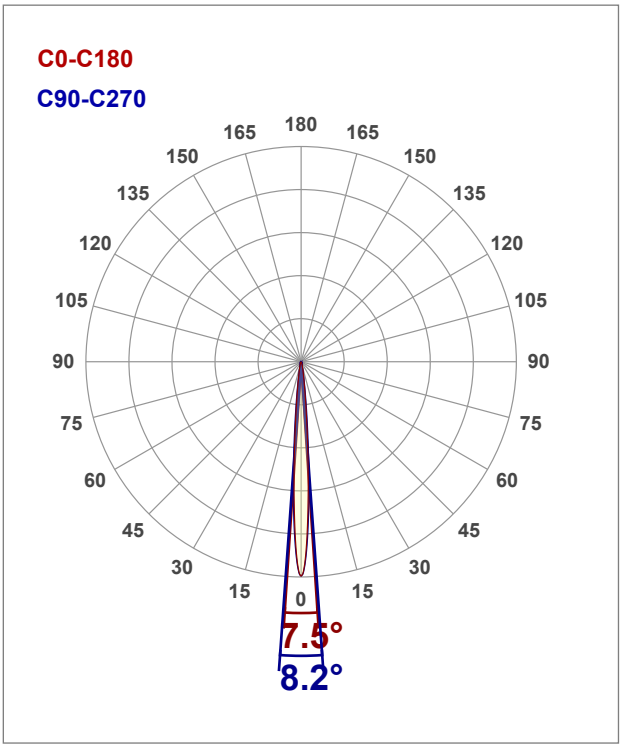
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1712 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	46767 cd
Beam Angle (50%-FWHM)	7.9°

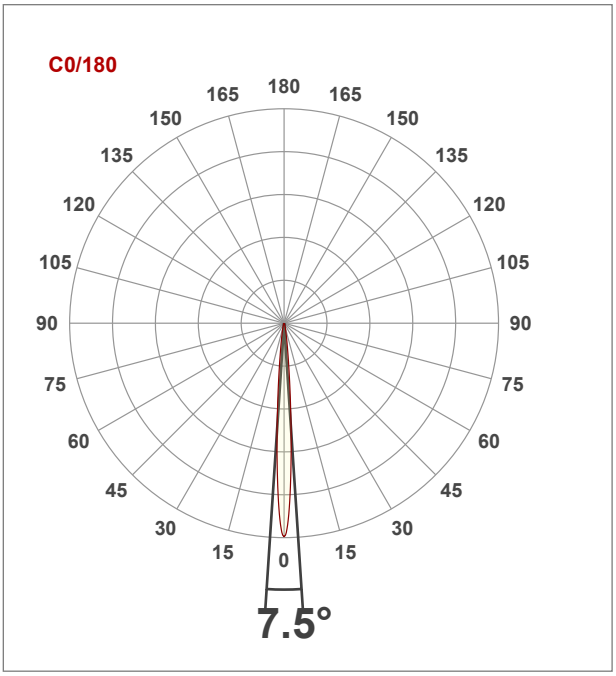
EU Ecodesign parameters

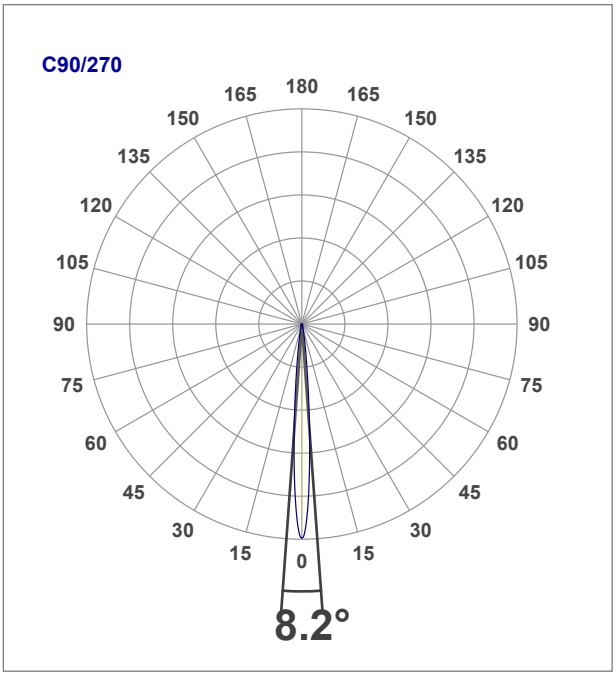
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1684 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	99.9%
In 90° cone	98.36%

Angular Distribution





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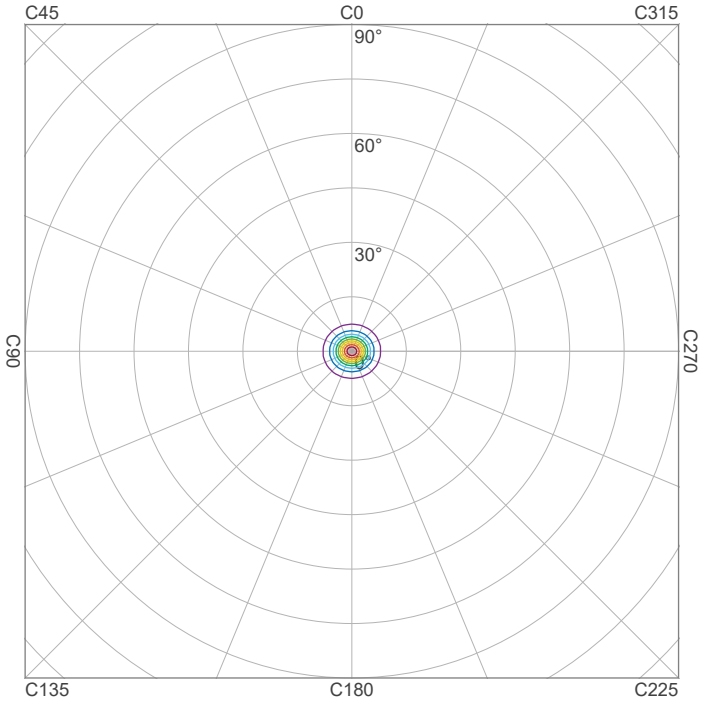
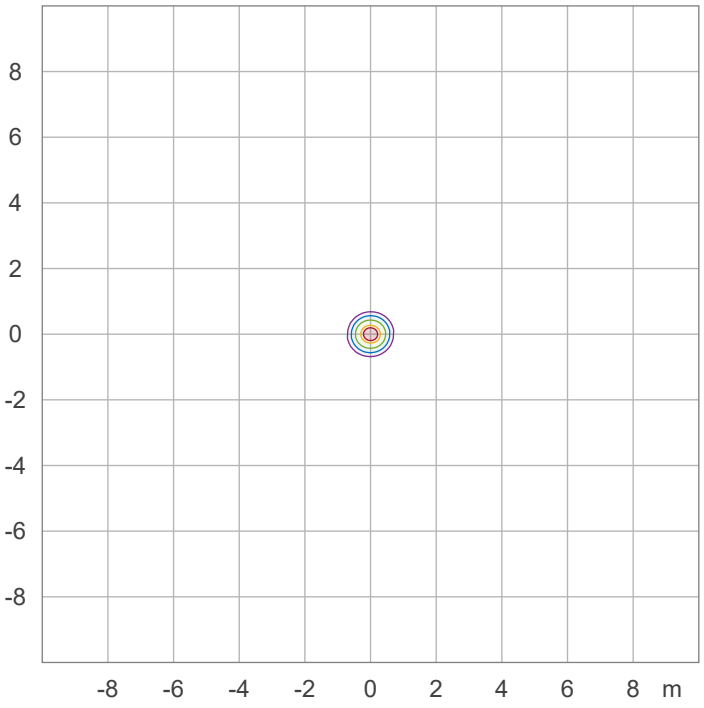
Iso-intensity Diagram (Iso-candela)



90 %	41997.5 cd
80 %	37331.1 cd
70 %	32664.7 cd
60 %	27998.3 cd
50 %	23332.0 cd
40 %	18665.6 cd
30 %	13999.2 cd
20 %	9332.8 cd
10 %	4666.4 cd

Peak intensity: 46663.9 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	2592 lx
30.0 %	1555 lx
10.0 %	518 lx
5.0 %	259 lx
3.0 %	156 lx

Peak illuminance: 5185 lx
Mounting height: 3 m
Number of c-planes: 36

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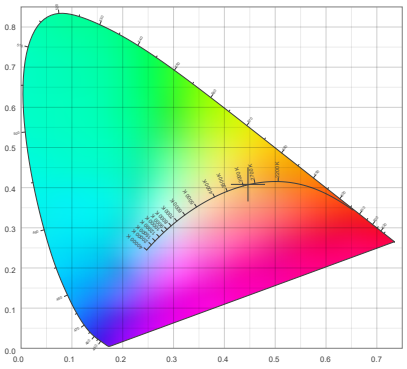
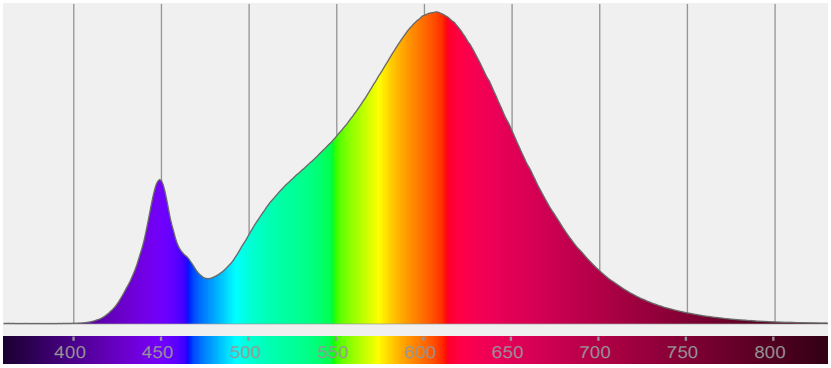
Color details

Correlated Color Temperature, Target	CCT = 2882 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2882 K	Color deviation from BBL	Duv = 0.0004
Color Rendering Index	CRI 82.4	Color coordinates CIE 1931	(x;y) = (0.4464;0.4081)
Color Rendering Index, R9 (red)	R9 = 8.9	Color coordinate CIEs 1960	(u;v) = (0.2549;0.3496)
Color Rendering TM30-18	Rf 84.3	Color coordinate CIEs 1976	(u';v') = (0.2549;0.5244)
	Rg 97.3	Color Quality Scale	CQS = 81.6

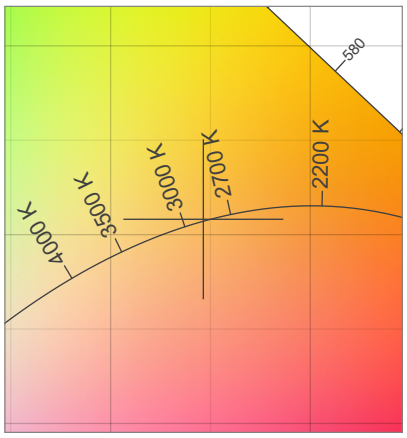
CIE 1931 Chromaticity diagram



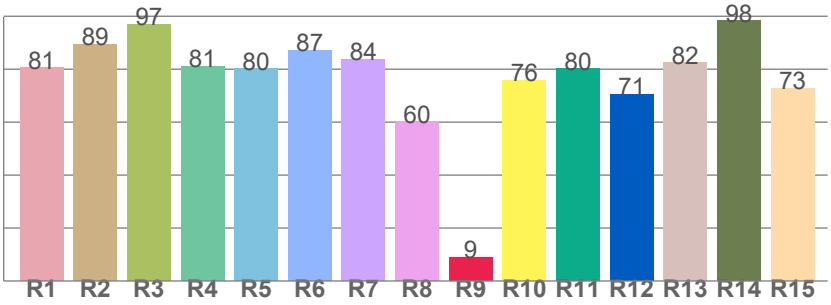
Spectral power distribution



CIE 1931 Chromaticity - zoomed



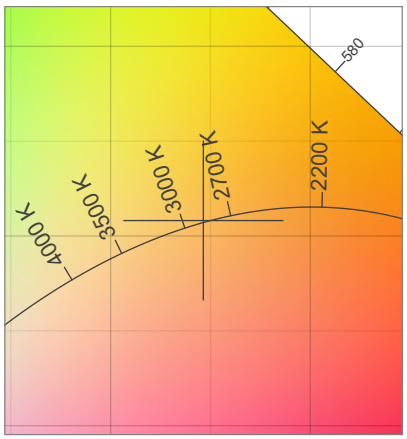
Color Rendering Index per reference color (CIE 1995)



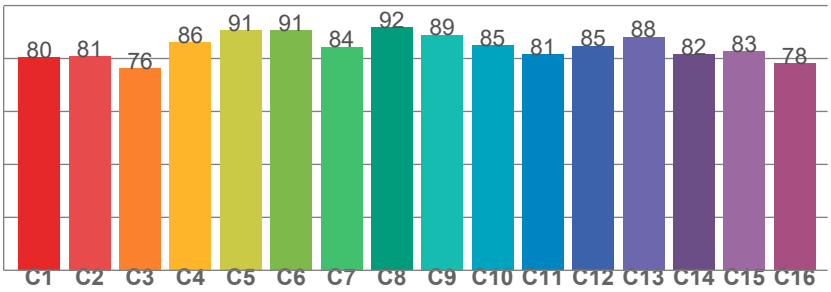
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.5	89.5	96.9	81.1	80.2	87.1	83.7	60.0	8.9	75.9	80.2	70.6	82.4	98.3	72.8

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
80.4	80.9	76.2	86.0	90.7	90.5	84.4	91.7	88.9	85.1	81.5	84.7	88.2	81.6	82.8	78.2

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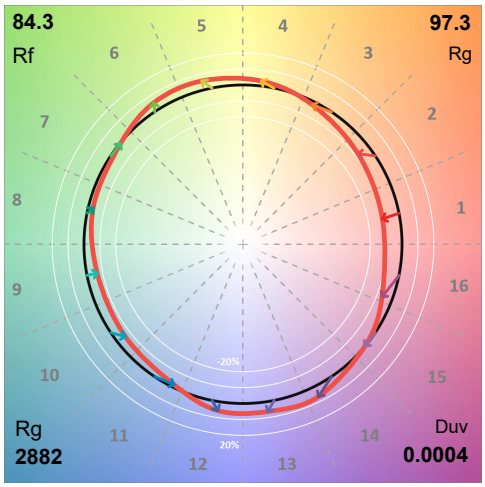
Color details - ANSI/IES TM-30-18 Color Rendition Report

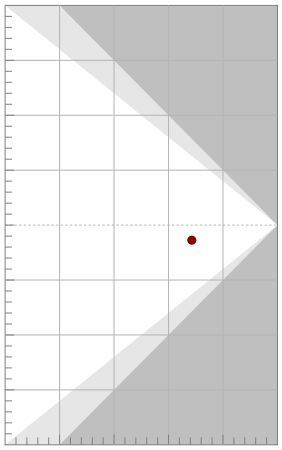
Color Vector Graphic



Color Distortion Graphic

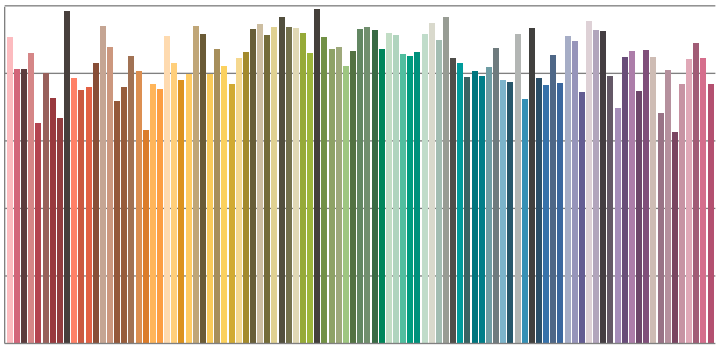
Gamut Index vs. Fidelity Index

Gamut index (Rg)



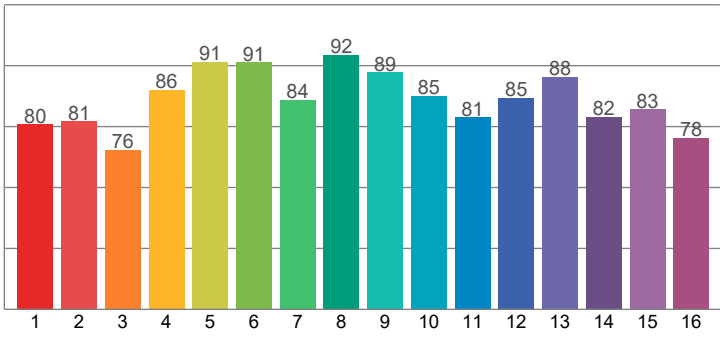
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



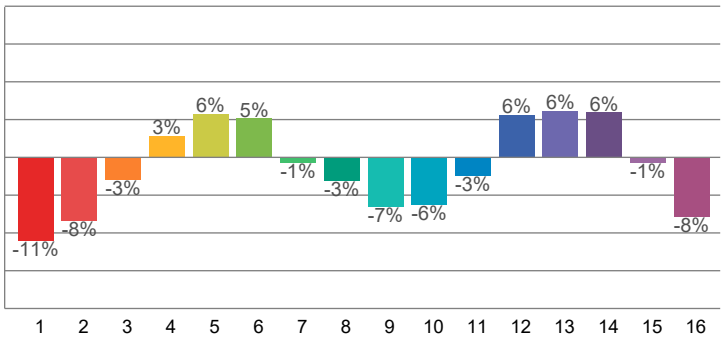
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4464
CIE y	0.4464
CIE u'	0.2549
CIE v'	0.5244

CIE	**13.3-1995**
Ra	82.4
R9	8.9

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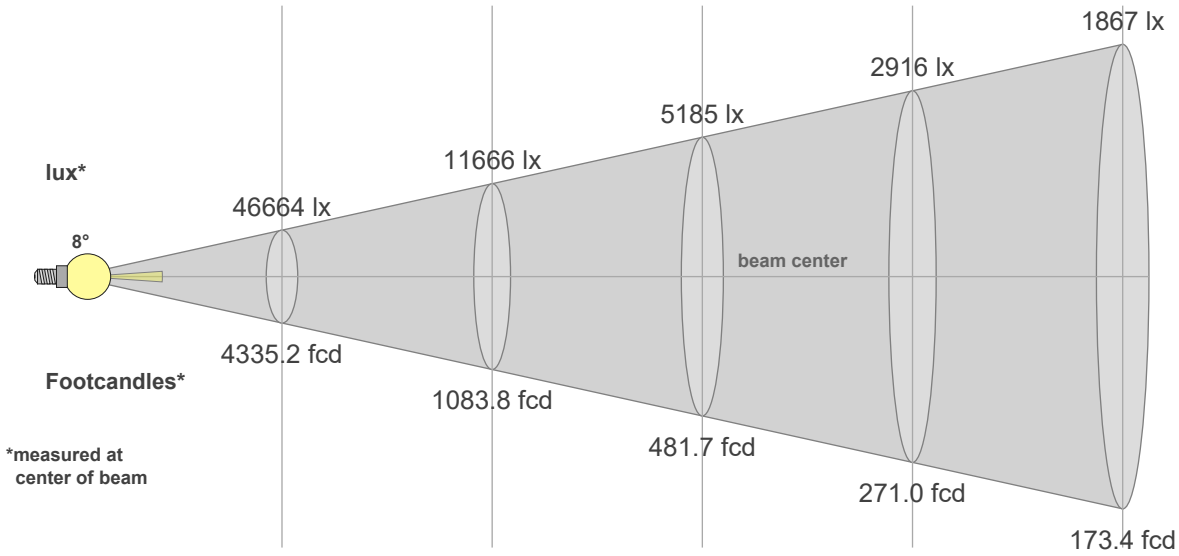
Beam details

Distance (meter)	1 m	2 m	3 m	4 m	5 m
Distance (feet)	3.3 ft	6.6 ft	9.8 ft	13.1 ft	16.4 ft



Beam width (meter)	0.1 m	0.3 m	0.4 m	0.5 m	0.7 m
Beam width (feet)	0.5 ft	0.9 ft	1.4 ft	1.8 ft	2.3 ft

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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
46664	11666	5185	2916	1867	1296	952	729	576	467	386	324	276	238	207	182	161	144	129	117	lux
4335.2	1083.8	481.7	271	173.4	120.4	88.5	67.7	53.5	43.4	35.8	30.1	25.7	22.1	19.3	16.9	15	13.4	12	10.8	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
46.7k	44.0k	37.5k	29.3k	21.5k	15.0k	10.3k	7.1k	5.1k	3.8k	2.9k	2.2k	1.8k	1.5k	1.2k	1.0k	0.8k	0.7k	0.6k	0.5k	cd
100%	94%	80%	63%	46%	32%	22%	15%	11%	8%	6%	5%	4%	3%	3%	2%	2%	2%	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
46.7k	44.5k	39.0k	31.7k	24.1k	17.4k	12.2k	8.5k	5.9k	4.3k	3.2k	2.5k	1.9k	1.6k	1.3k	1.1k	0.9k	0.8k	0.6k	0.6k	cd
100%	95%	84%	68%	52%	37%	26%	18%	13%	9%	7%	5%	4%	3%	3%	2%	2%	2%	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
46.7k	44.0k	37.5k	29.3k	21.5k	15.0k	10.3k	7.1k	5.1k	3.8k	2.9k	2.2k	1.8k	1.5k	1.2k	1.0k	0.8k	0.7k	0.6k	0.5k	cd
100%	94%	80%	63%	46%	32%	22%	15%	11%	8%	6%	5%	4%	3%	3%	2%	2%	2%	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
46.7k	44.5k	39.0k	31.7k	24.1k	17.4k	12.2k	8.5k	5.9k	4.3k	3.2k	2.5k	1.9k	1.6k	1.3k	1.1k	0.9k	0.8k	0.6k	0.6k	cd
100%	95%	84%	68%	52%	37%	26%	18%	13%	9%	7%	5%	4%	3%	3%	2%	2%	2%	1%	1%	of 0°val

Photometric Test Report

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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

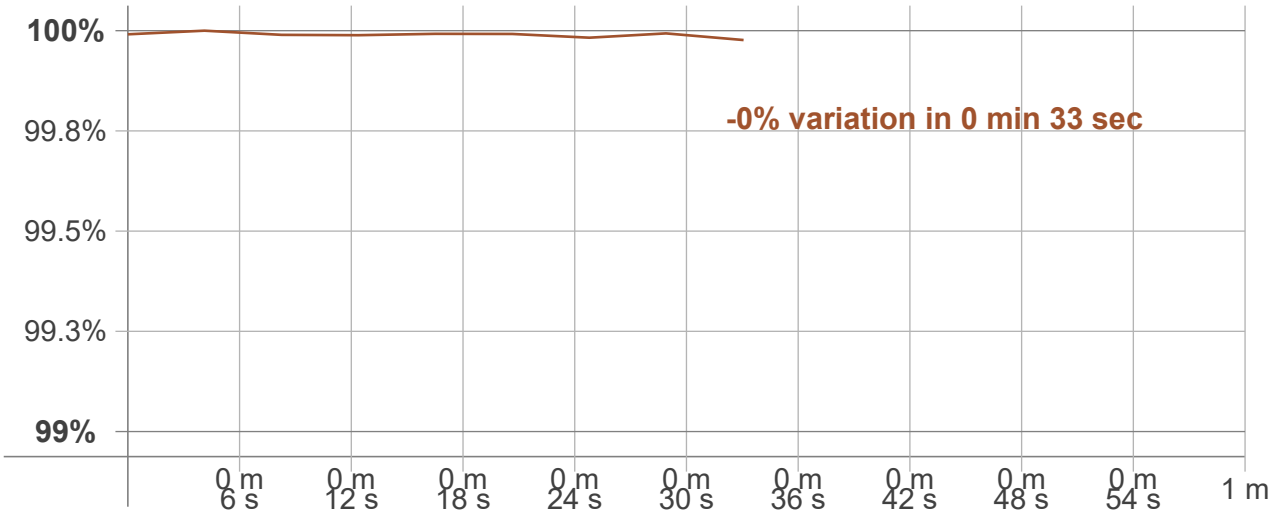
Efficiency

Radiated power efficiency	18.3
Lumen efficiency	59.82 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2882 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2882 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	1712 lm
Warmup variation	-0.0234%	Output change	-0.1074 lm
		Output end	1712 lm

Stabilization Curve



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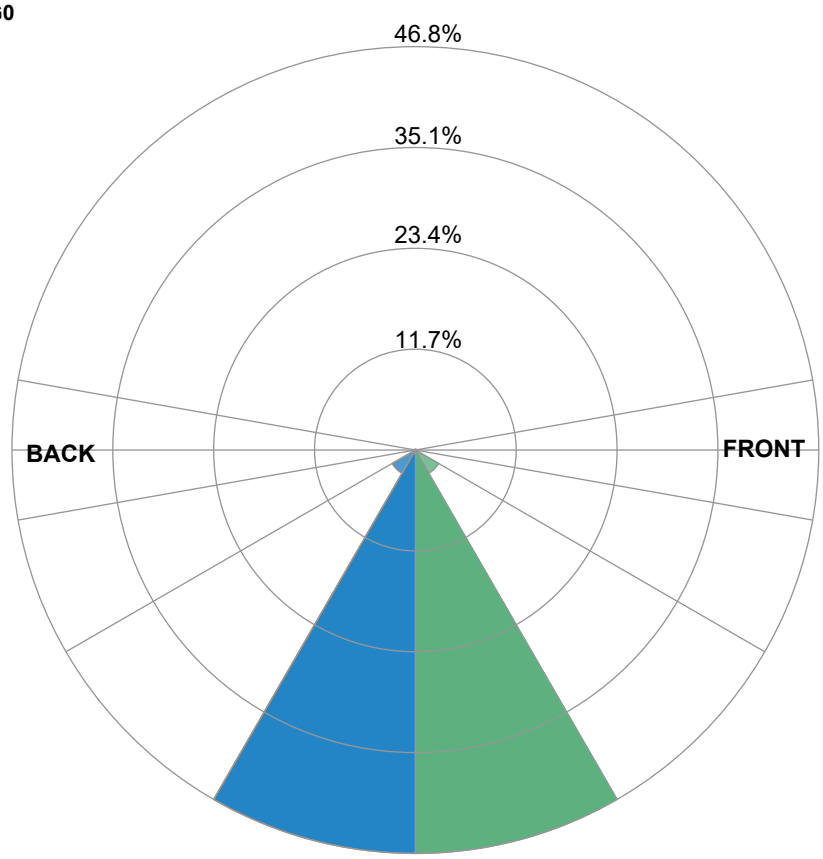
FL25-G2-XXX-3083-7-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	802	lm	46.8%
Medium (30-60°)	53.4	lm	3.12%
High (60-80°)	0.874	lm	0.0510%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	802	lm	46.8%
Medium (30-60°)	53.4	lm	3.12%
High (60-80°)	0.874	lm	0.0510%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1712	lm	100%

BUG RATING B2 U0 G0