Photometric Test Report

FL25-G2-XXX-3083-60-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.13-7860-VO
Measurement date	2026-04-13

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	2.00°
Input Power	24.8 W

Electrical Data

Input Power	24.8 W
Input Voltage	381.5 V DC
Input Current	0.07 A
Power Factor	1.00

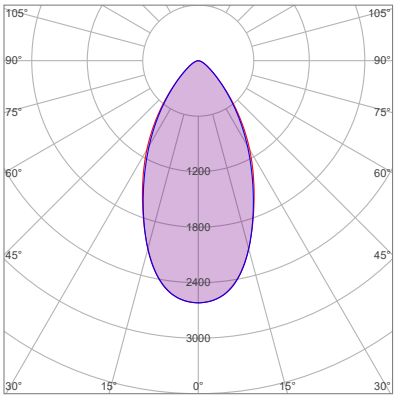
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-60-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

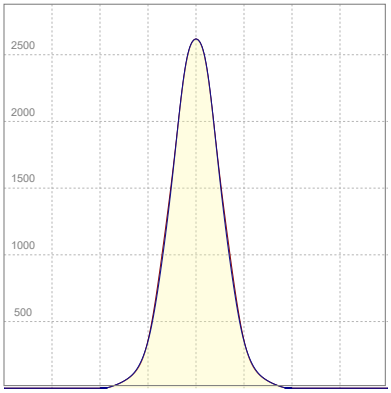
Output – Total Lumen (Up% / Down%)	2459 lm – 0%% / 100%%
Efficiency	99.14 lm/W
Peak Intensity	2617 cd
Correlated Color Temperature, CCT	2938 K
Color Rendering Index	CRI 82.4
Beam Angle (FWHM) | C0/180	53.5°
Beam Angle (FWHM) | C90/270	52.1°
Field Angle (10%) | C0/180	96.7°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	96.9°
Optical Power	7382 mW
Peak Wavelength	606 nm
Dominant Wavelength	584 nm

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

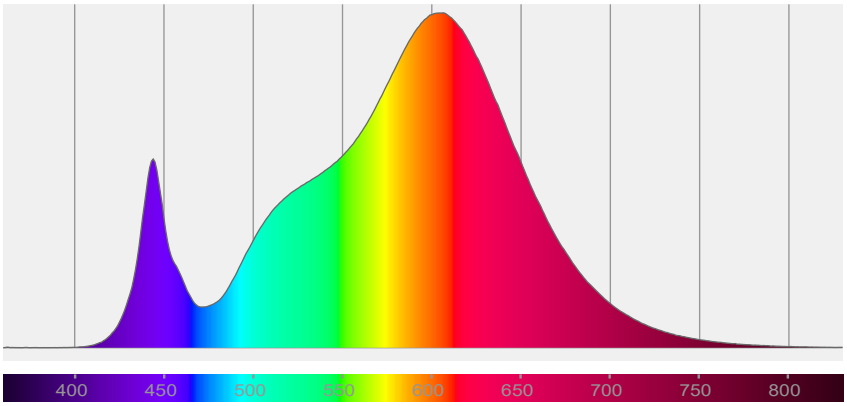


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

2938 K

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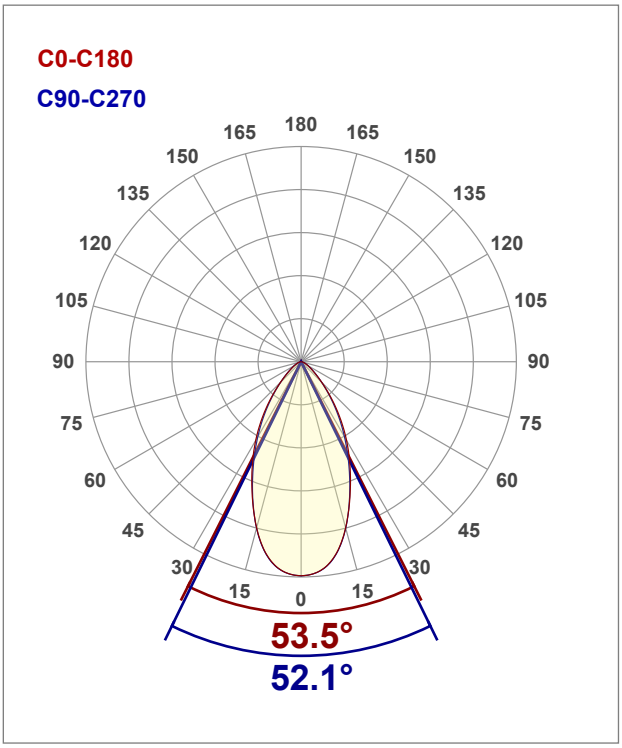
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2459 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	2617 cd
Beam Angle (50%-FWHM)	52.3°

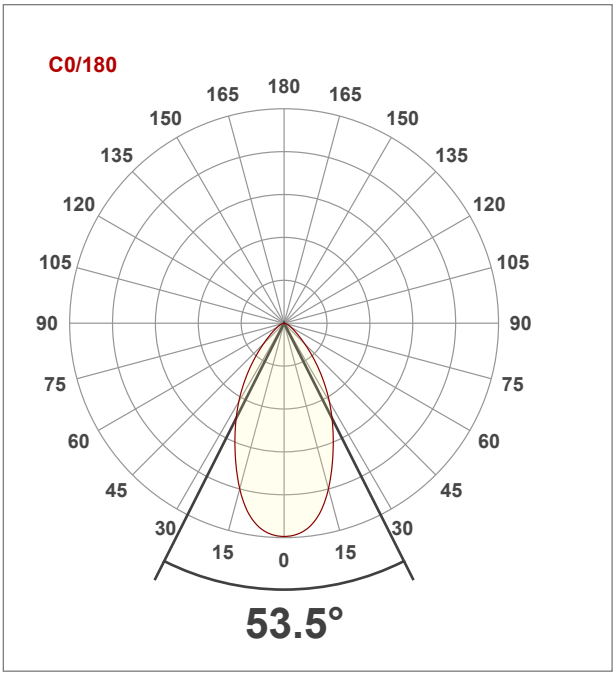
EU Ecodesign parameters

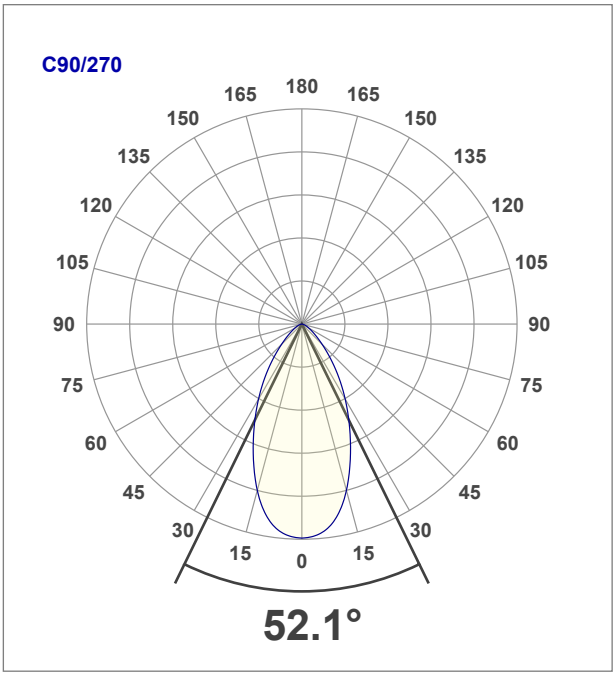
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2112 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	96.06%
In 90° cone	85.9%

Angular Distribution





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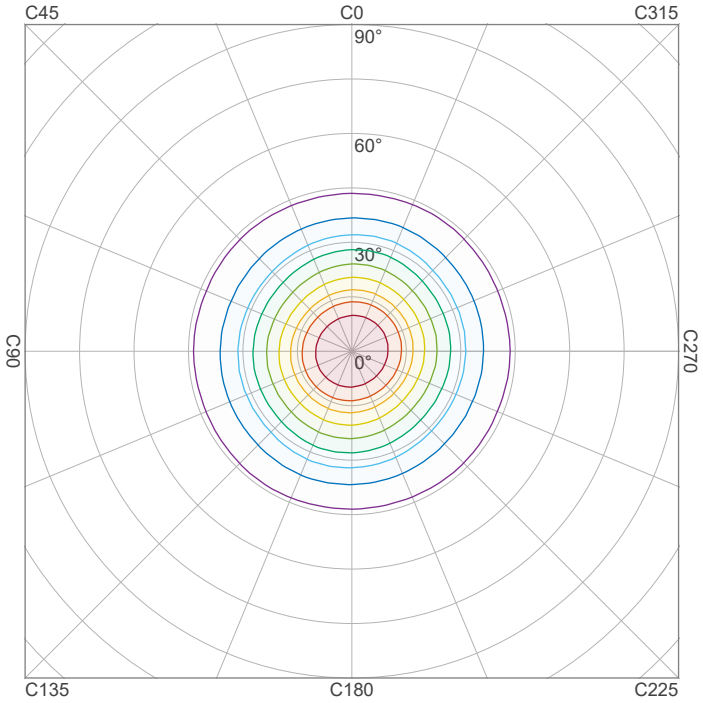
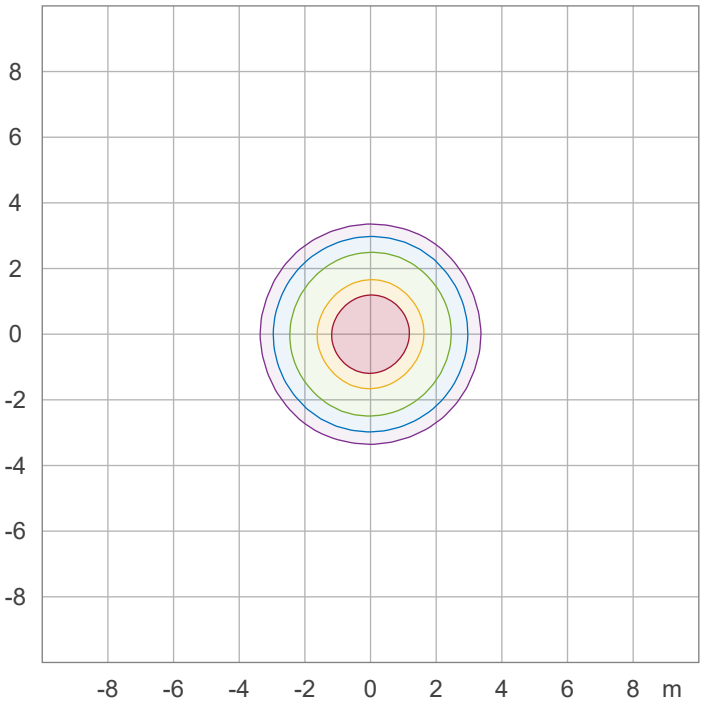
Iso-intensity Diagram (Iso-candela)



90 %	2354.1 cd
80 %	2092.6 cd
70 %	1831.0 cd
60 %	1569.4 cd
50 %	1307.9 cd
40 %	1046.3 cd
30 %	784.7 cd
20 %	523.1 cd
10 %	261.6 cd

Peak intensity: 2615.7 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	145 lx
30.0 %	87.2 lx
10.0 %	29.1 lx
5.0 %	14.5 lx
3.0 %	8.72 lx

Peak illuminance: 291 lx
Mounting height: 3 m
Number of c-planes: 36

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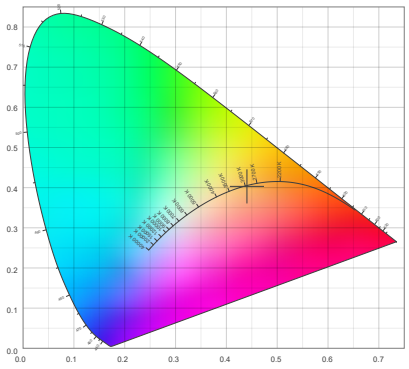
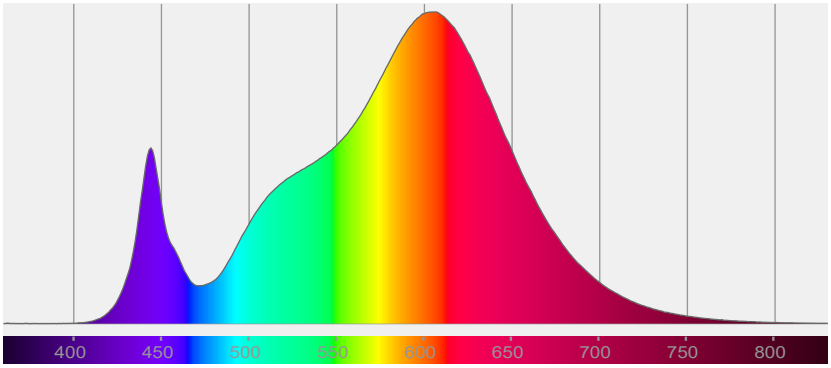
Color details

Correlated Color Temperature, Target	CCT = 2938 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2938 K	Color deviation from BBL	Duv = -0.0008
Color Rendering Index	CRI 82.4	Color coordinates CIE 1931	(x;y) = (0.4404;0.4032)
Color Rendering Index, R9 (red)	R9 = 2.7	Color coordinate CIEs 1960	(u;v) = (0.2532;0.3477)
Color Rendering TM30-18	Rf 83.2	Color coordinate CIEs 1976	(u';v') = (0.2532;0.5216)
	Rg 98.7	Color Quality Scale	CQS = 81.0

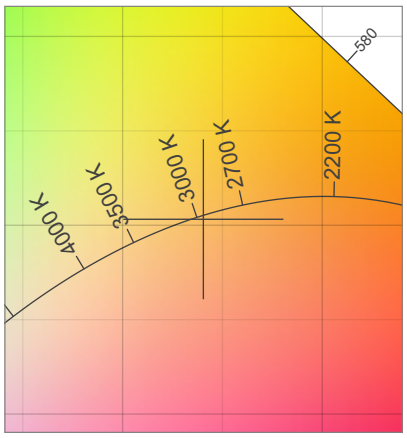
CIE 1931 Chromaticity diagram



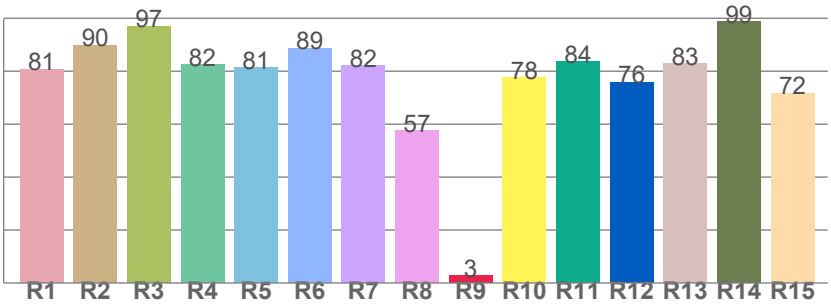
Spectral power distribution



CIE 1931 Chromaticity - zoomed



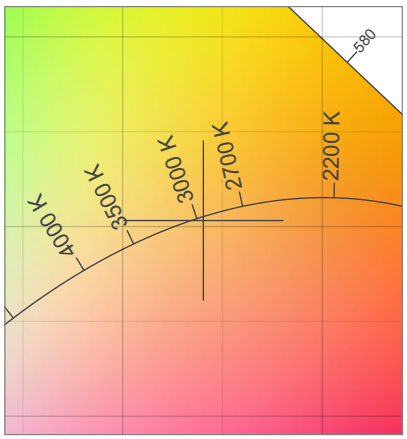
Color Rendering Index per reference color (CIE 1995)



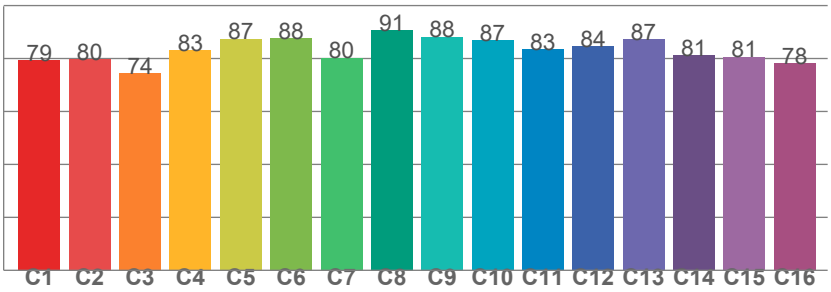
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.8	89.8	96.9	82.4	81.4	88.6	82.1	57.5	2.7	77.6	83.5	75.9	82.8	98.7	71.6

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	74.5	83.0	87.5	87.7	80.2	90.7	88.1	86.8	83.5	84.5	87.3	81.1	80.6	78.2

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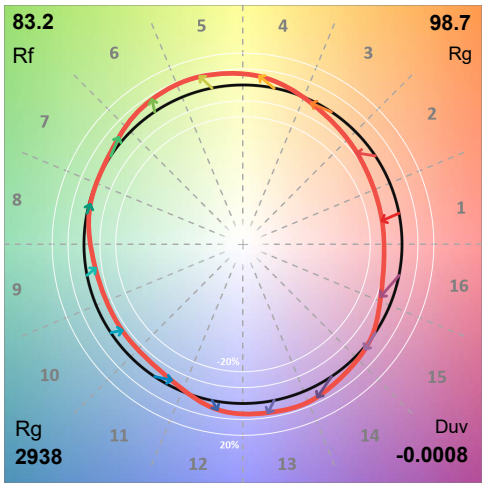
Color details - ANSI/IES TM-30-18 Color Rendition Report

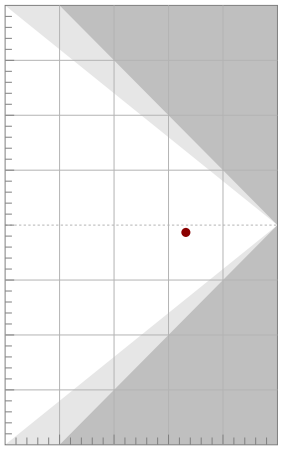
Color Vector Graphic



Color Distortion Graphic

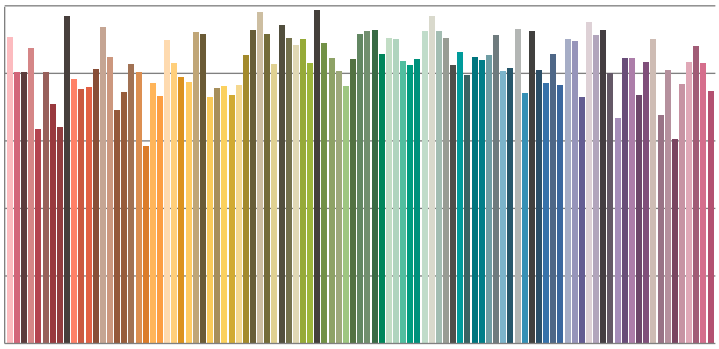
Gamut Index vs. Fidelity Index

Gamut index (Rg)



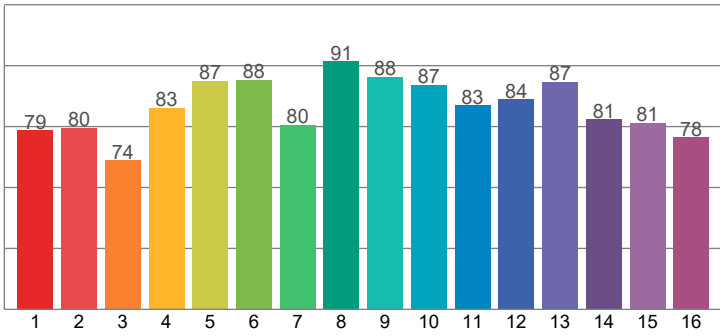
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



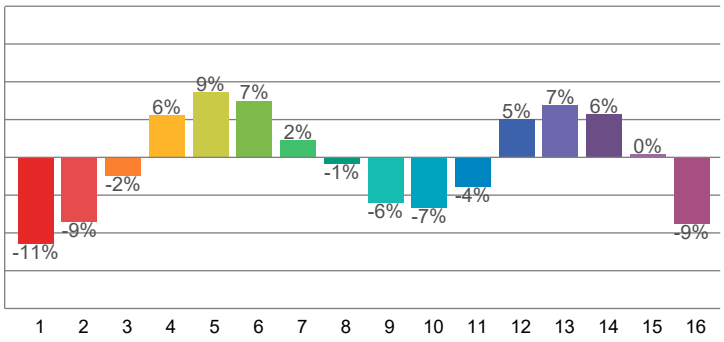
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4404
CIE y	0.4404
CIE u'	0.2532
CIE v'	0.5216

CIE	**13.3-1995**
Ra	82.4
R9	2.7

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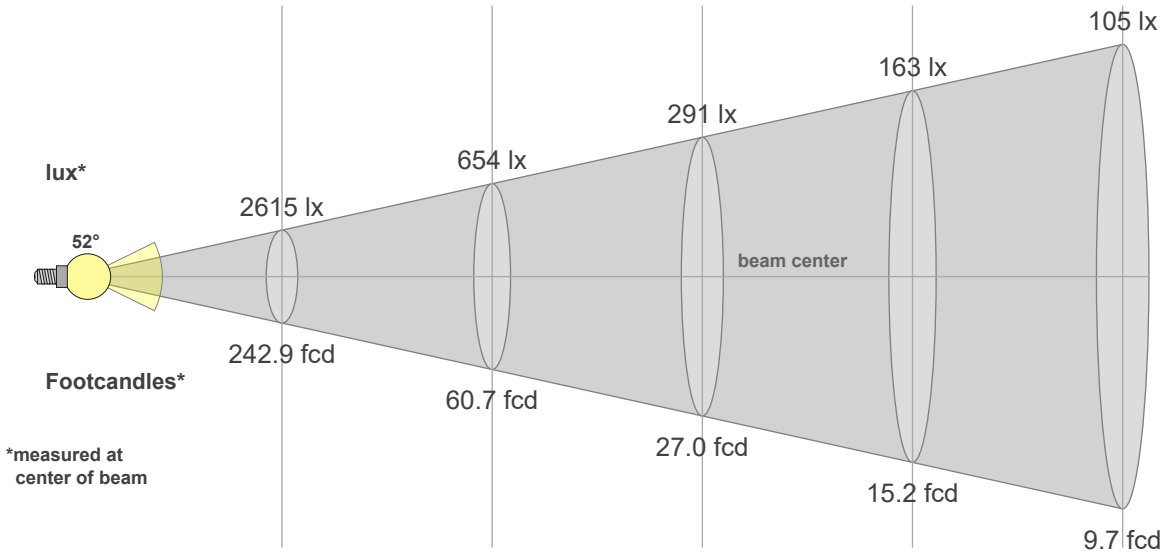
Beam details

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)	1 m	2 m	2.9 m	3.9 m	4.9 m
Beam width (feet)	3.2 ft	6.4 ft	9.7 ft	12.9 ft	16.1 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
2615	654	291	163	105	73	53	41	32	26	22	18	15	13	12	10	9	8	7	7	lux
242.9	60.7	27	15.2	9.7	6.7	5	3.8	3	2.4	2	1.7	1.4	1.2	1.1	0.9	0.8	0.7	0.7	0.6	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
2615	2609	2587	2547	2485	2401	2295	2170	2033	1890	1748	1611	1480	1354	1231	1111	993	877	766	660	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	67%	62%	57%	52%	47%	42%	38%	34%	29%	25%	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
2615	2609	2587	2549	2489	2406	2299	2174	2033	1885	1736	1589	1447	1312	1184	1061	944	832	726	627	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	66%	61%	55%	50%	45%	41%	36%	32%	28%	24%	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
2615	2609	2587	2547	2485	2401	2295	2170	2033	1890	1748	1611	1480	1354	1231	1111	993	877	766	660	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	67%	62%	57%	52%	47%	42%	38%	34%	29%	25%	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
2615	2609	2587	2549	2489	2406	2299	2174	2033	1885	1736	1589	1447	1312	1184	1061	944	832	726	627	cd
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	66%	61%	55%	50%	45%	41%	36%	32%	28%	24%	of 0°val

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Power details

Input power	
Frequency of input power	0.0 Hz
Power feed to light source	24.8 W
RMS Input voltage feed V,RMS	381.5 V
RMS Input current feed I,RMS	0.07 A
Volt-Amp or apparent power = V,RMS*I,RMS	24.8 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

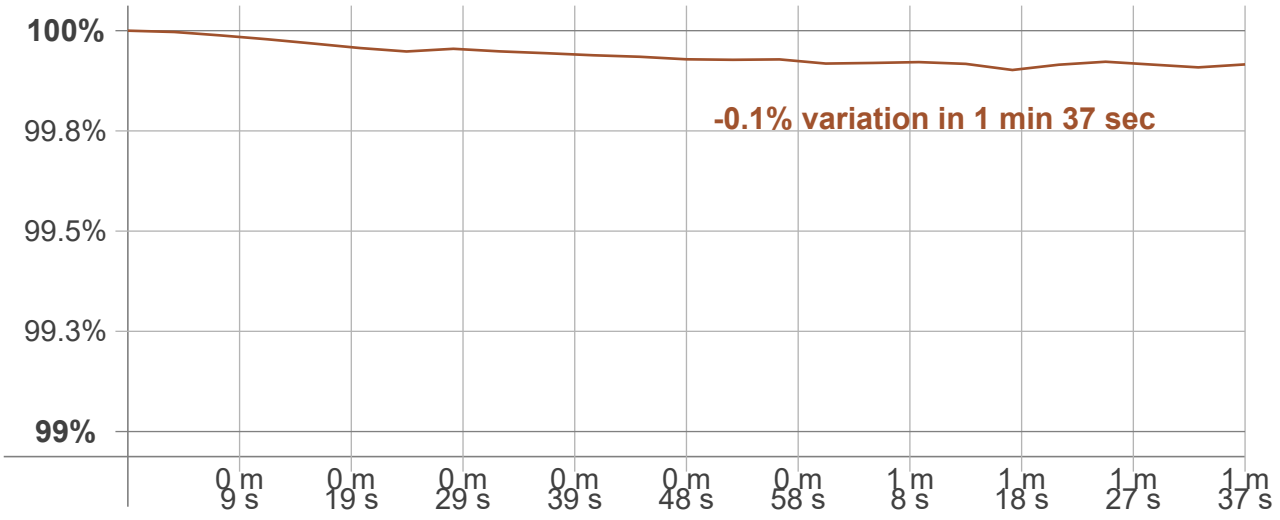
Efficiency

Radiated power efficiency	29.77
Lumen efficiency	99.14 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2938 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2938 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	2460 lm
Warmup variation	-0.1012%	Output change	-1.7257 lm
		Output end	2459 lm

Stabilization Curve



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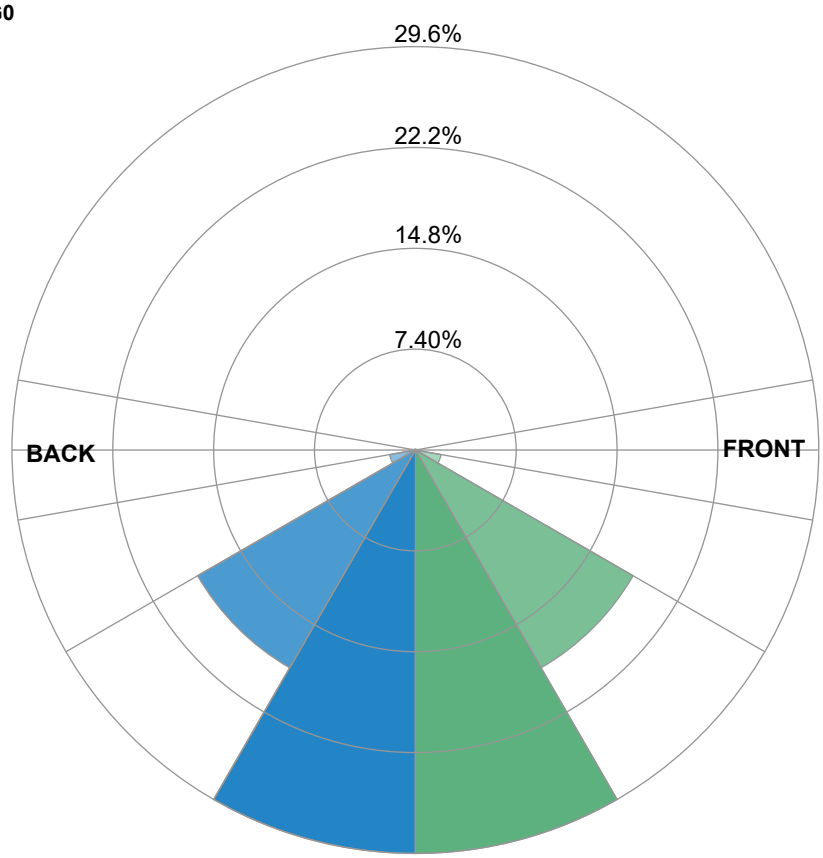
FL25-G2-XXX-3083-60-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	727	lm	29.6%
Medium (30-60°)	453	lm	18.4%
High (60-80°)	47.0	lm	1.91%
Very High (80-90°)	1.54	lm	0.0626%
Back Light			
Low (0-30°)	727	lm	29.6%
Medium (30-60°)	453	lm	18.4%
High (60-80°)	47.0	lm	1.91%
Very High (80-90°)	1.54	lm	0.0626%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2459	lm	100%

BUG RATING B2 U0 G0