Photometric Test Report

FL25-G2-XXX-3083-4L-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.30-8254-VO
Measurement date	2026-04-30

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.20°
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

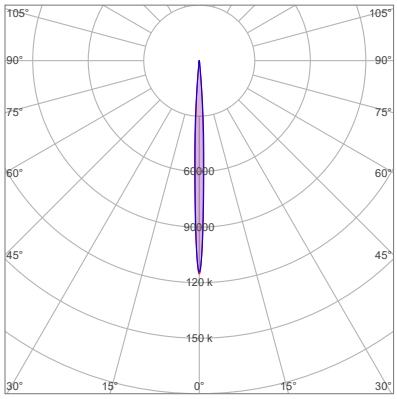
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-4L-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

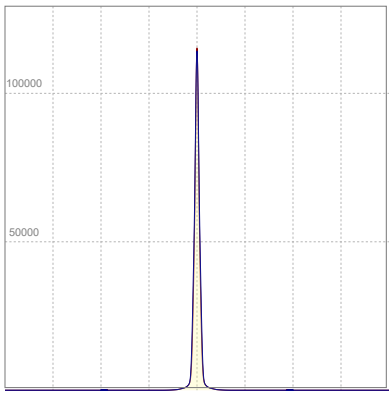
Output – Total Lumen (Up% / Down%)	1324 lm – 0%% / 100%%
Efficiency	46.25 lm/W
Peak Intensity	117587 cd
Correlated Color Temperature, CCT	2890 K
Color Rendering Index	CRI 82.5
Beam Angle (FWHM) | C0/180	4.4°
Beam Angle (FWHM) | C90/270	4.9°
Field Angle (10%) | C0/180	9.7°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	10.4°
Optical Power	4047 mW
Peak Wavelength	607 nm
Dominant Wavelength	584 nm

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

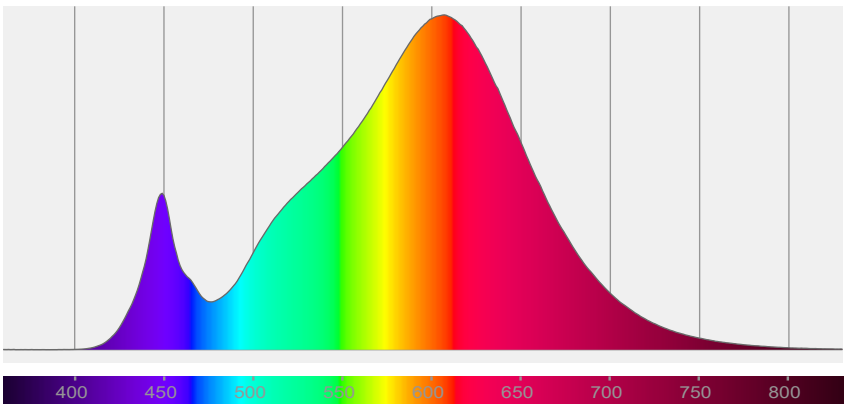


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

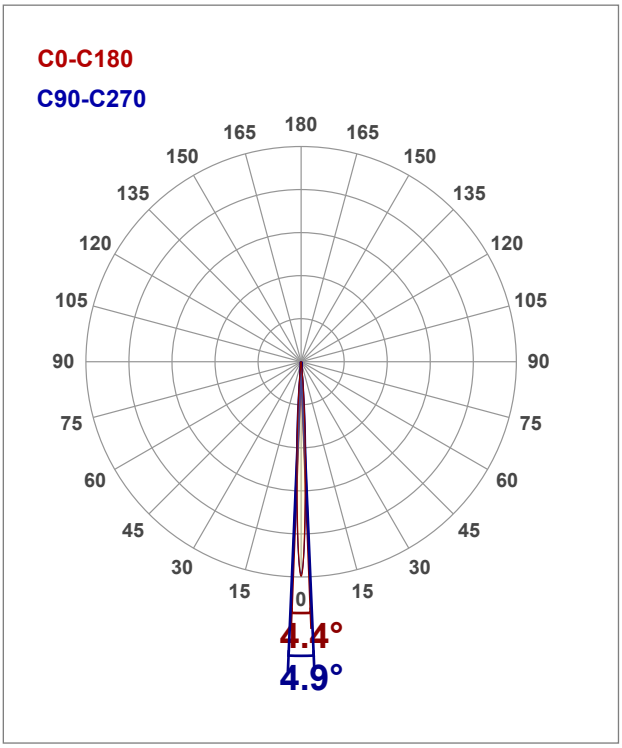
2890 K

Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1324 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	117587 cd
Beam Angle (50%-FWHM)	4.7°

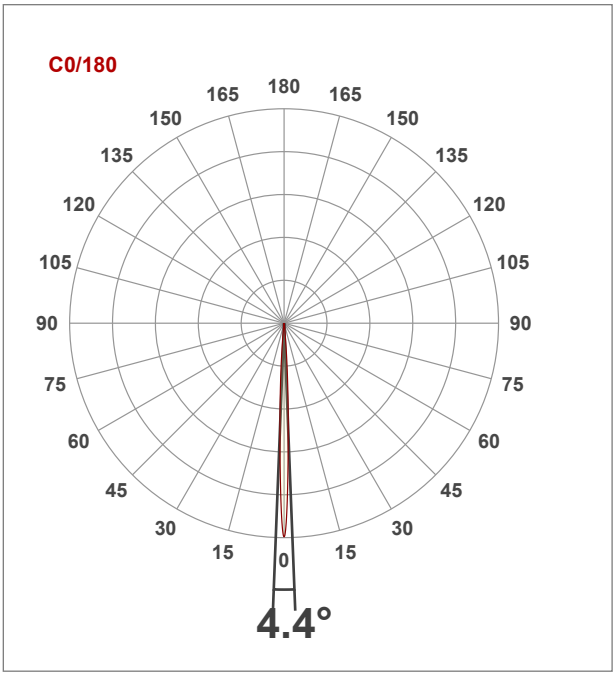
EU Ecodesign parameters

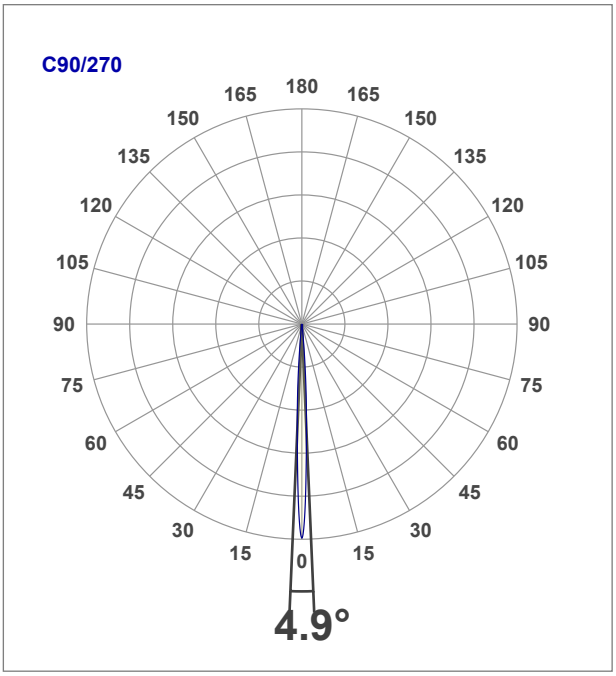
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1324 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	100%

Angular Distribution

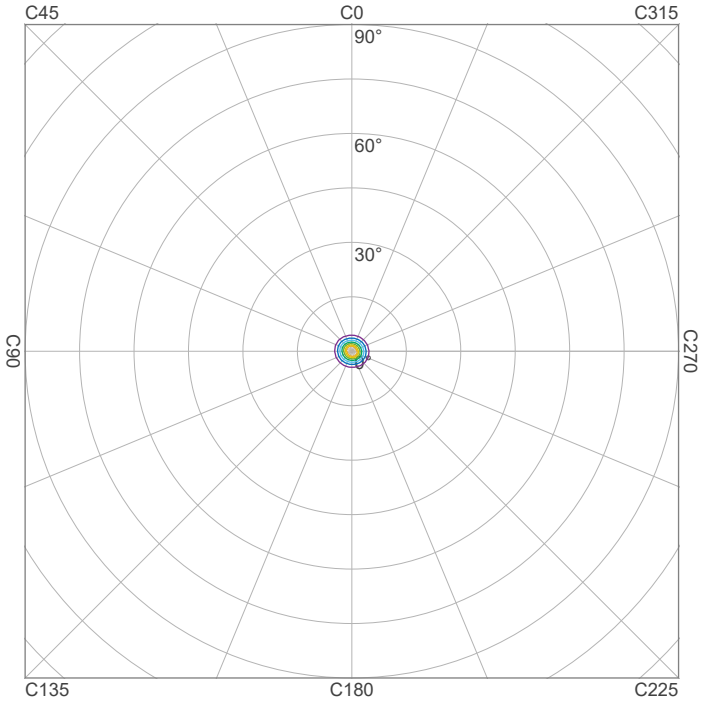




Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

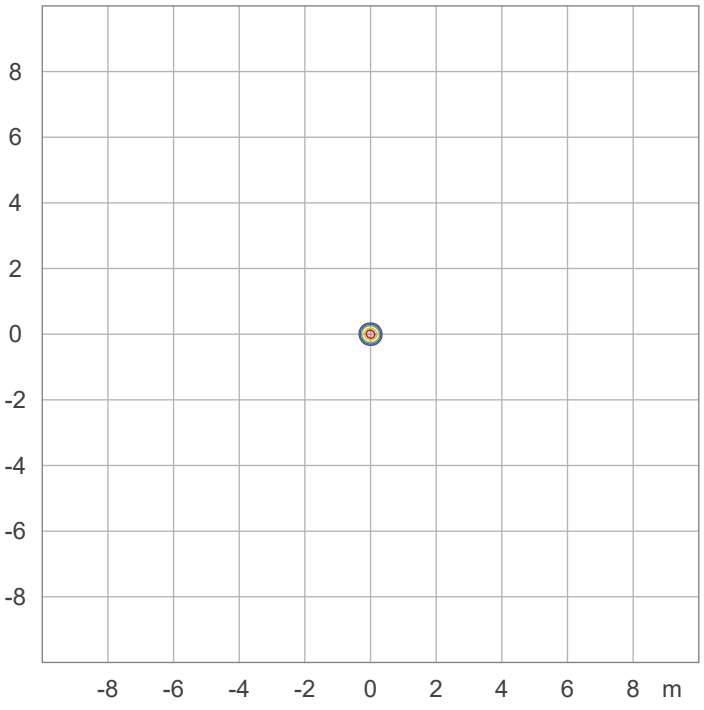
Iso-intensity Diagram (Iso-candela)



90 %	102120.0 cd
80 %	90773.3 cd
70 %	79426.6 cd
60 %	68080.0 cd
50 %	56733.3 cd
40 %	45386.7 cd
30 %	34040.0 cd
20 %	22693.3 cd
10 %	11346.7 cd

Peak intensity: 113466.6 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	6304 lx
30.0 %	3782 lx
10.0 %	1261 lx
5.0 %	630 lx
3.0 %	378 lx

Peak illuminance: 12607 lx
Mounting height: 3 m
Number of c-planes: 36

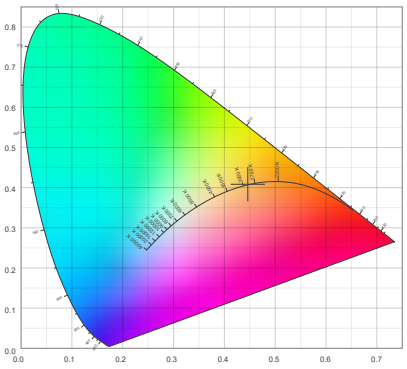
Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

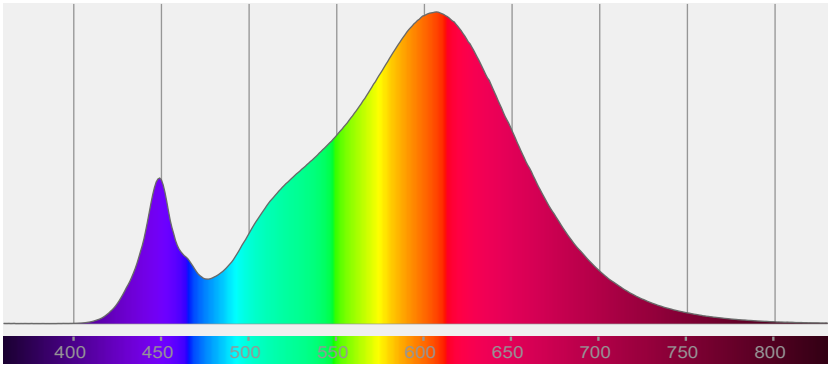
Color details

Correlated Color Temperature, Target	CCT = 2890 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2890 K	Color deviation from BBL	Duv = 0.0005
Color Rendering Index	CRI 82.5	Color coordinates CIE 1931	(x;y) = (0.4461;0.4084)
Color Rendering Index, R9 (red)	R9 = 9.4	Color coordinate CIEs 1960	(u;v) = (0.2546;0.3496)
Color Rendering TM30-18	Rf 84.4	Color coordinate CIEs 1976	(u';v') = (0.2546;0.5244)
	Rg 97.3	Color Quality Scale	CQS = 81.7

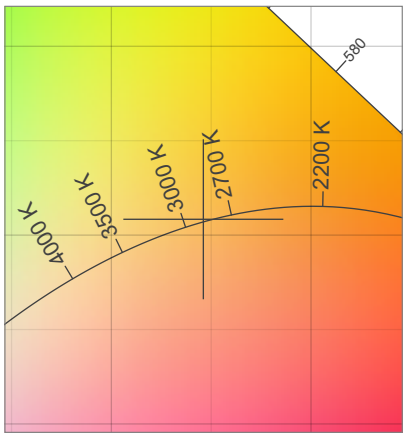
CIE 1931 Chromaticity diagram



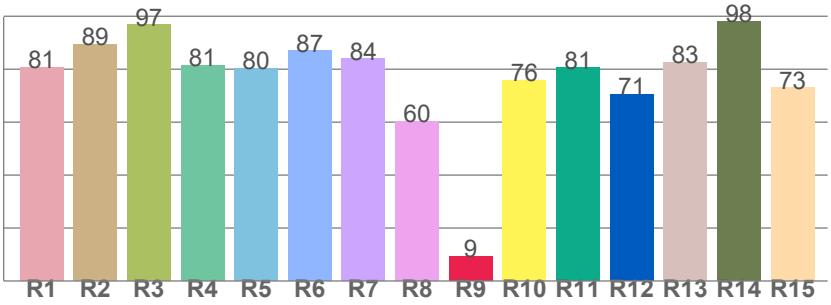
Spectral power distribution



CIE 1931 Chromaticity - zoomed



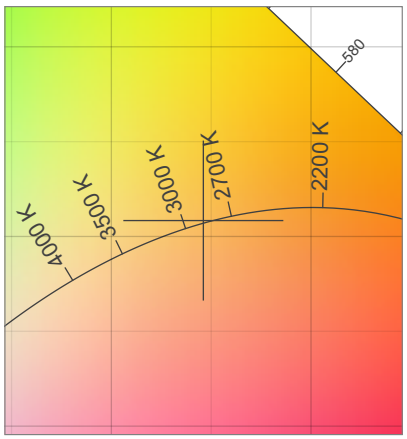
Color Rendering Index per reference color (CIE 1995)



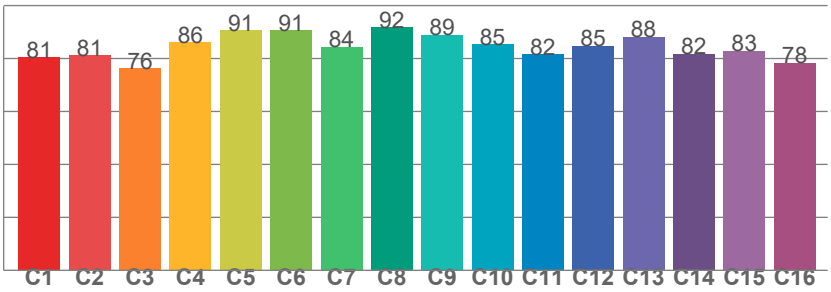
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.7	89.5	96.8	81.4	80.4	87.0	83.9	60.4	9.4	75.8	80.6	70.6	82.5	98.2	73.0

CIE 1931 Chromaticity - SDCM



TM30-18 Rf-values per hue bin



TM30-18 Rf-values per hue bin

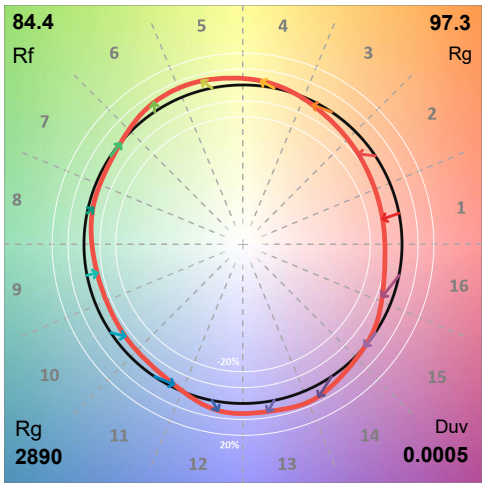
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.5	81.1	76.4	86.0	90.6	90.5	84.4	91.8	88.9	85.3	81.6	84.8	88.2	81.7	82.8	78.3

Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

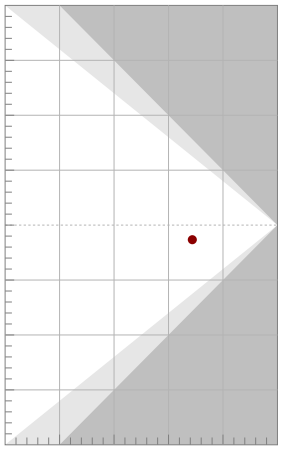
Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic

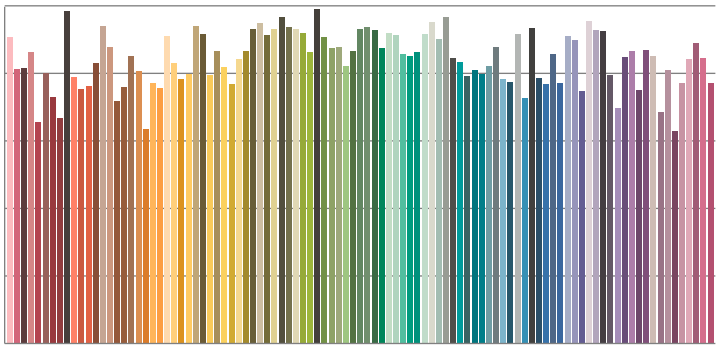
Gamut Index vs. Fidelity Index



Gamut index (Rg)

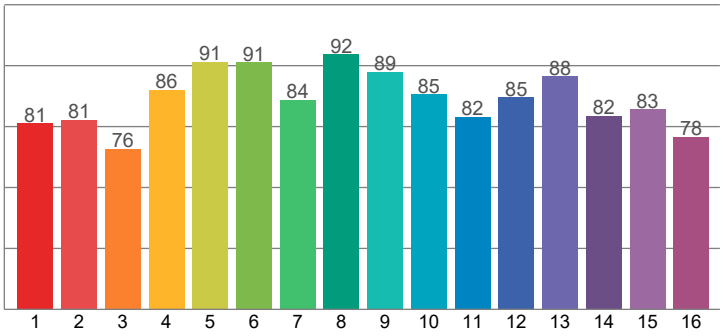
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



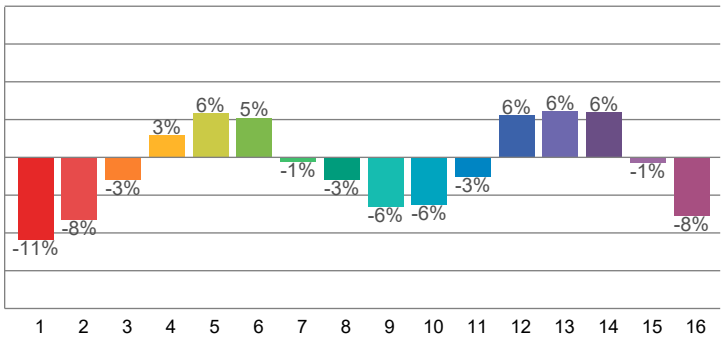
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

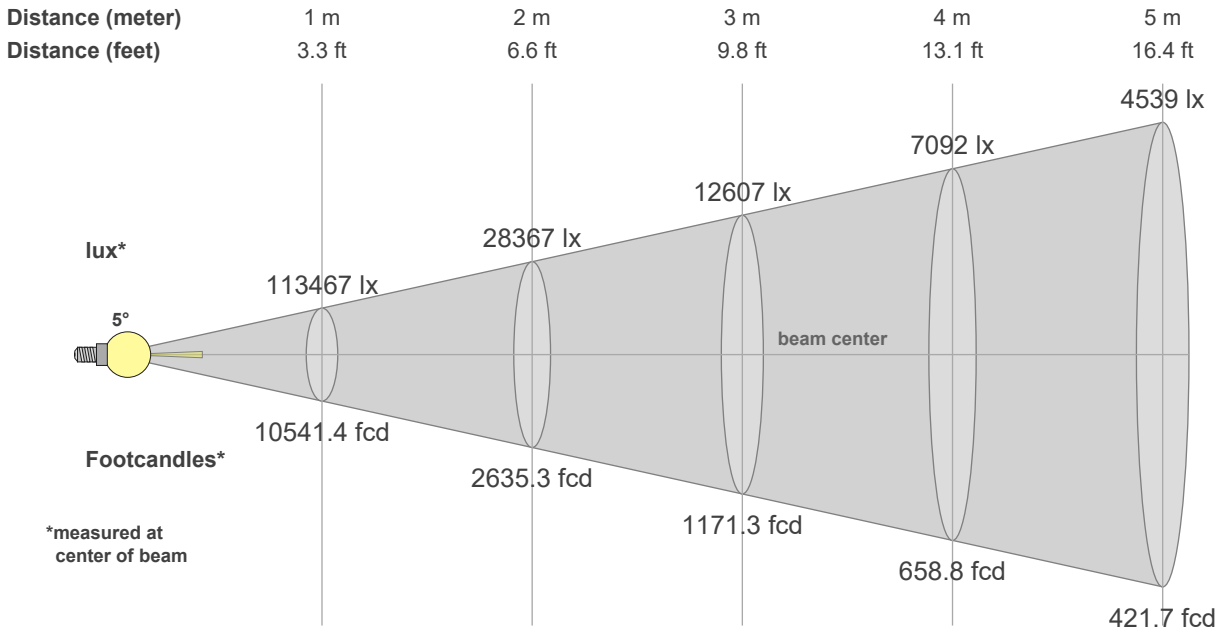
CIE x	0.4461
CIE y	0.4461
CIE u'	0.2546
CIE v'	0.5244

CIE	**13.3-1995**
Ra	82.5
R9	9.4

Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

Beam details



Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

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
113467	28367	12607	7092	4539	3152	2316	1773	1401	1135	938	788	671	579	504	443	393	350	314	284	lux
10541.4	2635.3	1171.3	658.8	421.7	292.8	215.1	164.7	130.1	105.4	87.1	73.2	62.4	53.8	46.9	41.2	36.5	32.5	29.2	26.4	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
113k	96k	64k	40k	22k	10k	4k	2k	2k	1k	1k	1k	1k	1k	1k	0k	0k	0k	0k	0k	cd
100%	85%	56%	35%	20%	9%	4%	2%	2%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	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
113k	98k	68k	46k	28k	13k	5k	3k	2k	1k	1k	1k	1k	1k	1k	0k	0k	0k	0k	0k	cd
100%	87%	60%	40%	25%	12%	5%	2%	2%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	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
113k	96k	64k	40k	22k	10k	4k	2k	2k	1k	1k	1k	1k	1k	1k	0k	0k	0k	0k	0k	cd
100%	85%	56%	35%	20%	9%	4%	2%	2%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	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
113k	98k	68k	46k	28k	13k	5k	3k	2k	1k	1k	1k	1k	1k	1k	0k	0k	0k	0k	0k	cd
100%	87%	60%	40%	25%	12%	5%	2%	2%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	of 0°val

Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

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

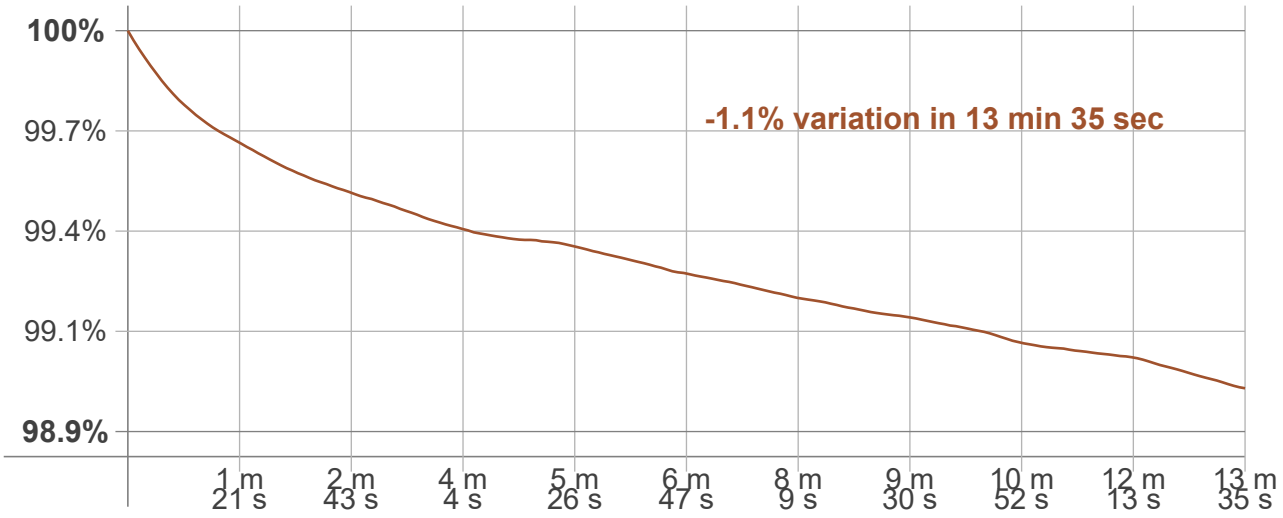
Efficiency

Radiated power efficiency	14.14
Lumen efficiency	46.25 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2888 K
Stable change max	2%	CCT shift	2 K
Minimum time	15 min	CCT end	2890 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	1338 lm
Warmup variation	-1.1462%	Output change	-14.181 lm
		Output end	1324 lm

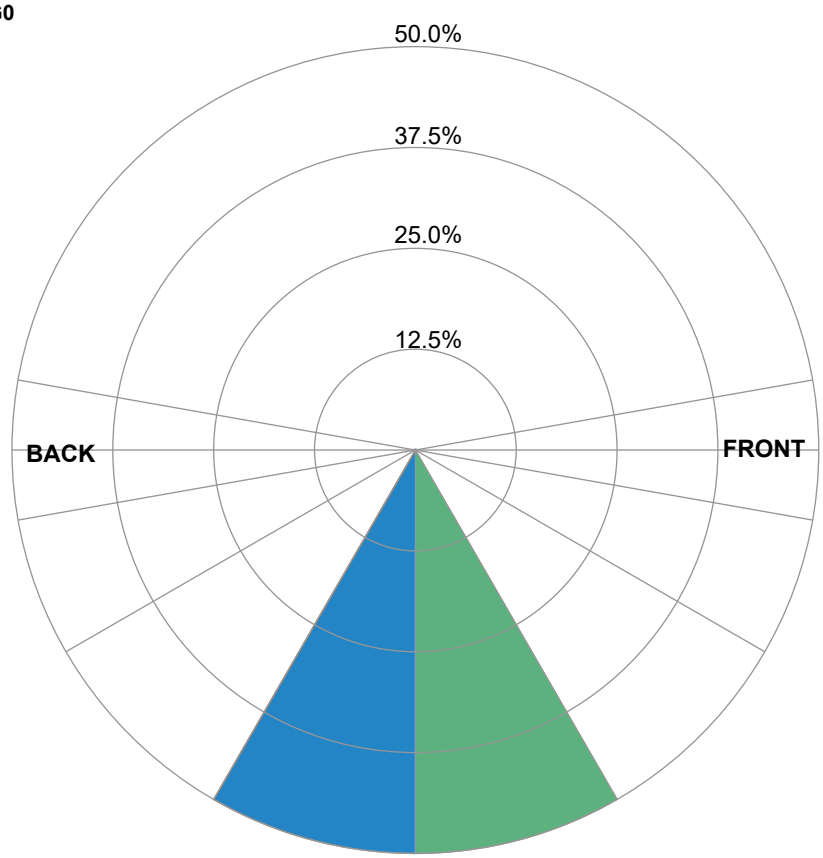
Stabilization Curve



Photometric Test Report

FL25-G2-XXX-3083-4L-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	662	lm	50.0%
Medium (30-60°)	0.158	lm	0.0119%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	662	lm	50.0%
Medium (30-60°)	0.158	lm	0.0119%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1324	lm	100%

BUG RATING B2 U0 G0