Photometric Test Report

FL25-G2-XXX-3083-4010-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.14-7873-VO
Measurement date	2026-04-14

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	0.50°
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

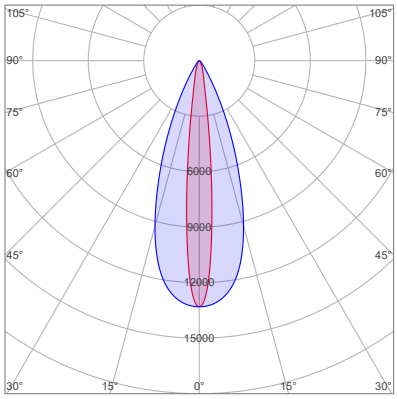
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-4010-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

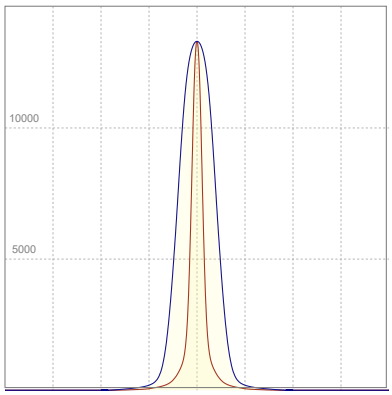
Output – Total Lumen (Up% / Down%)	2486 lm – 0%% / 100%%
Efficiency	94.41 lm/W
Peak Intensity	13311 cd
Correlated Color Temperature, CCT	2925 K
Color Rendering Index	CRI 82.3
Beam Angle (FWHM) | C0/180	11.5°
Beam Angle (FWHM) | C90/270	38.1°
Field Angle (10%) | C0/180	23.9°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	61.1°
Optical Power	7457 mW
Peak Wavelength	606 nm
Dominant Wavelength	584 nm

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

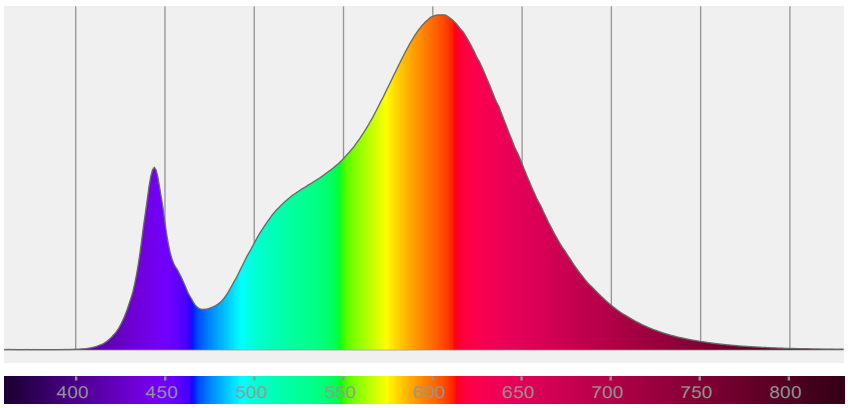


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

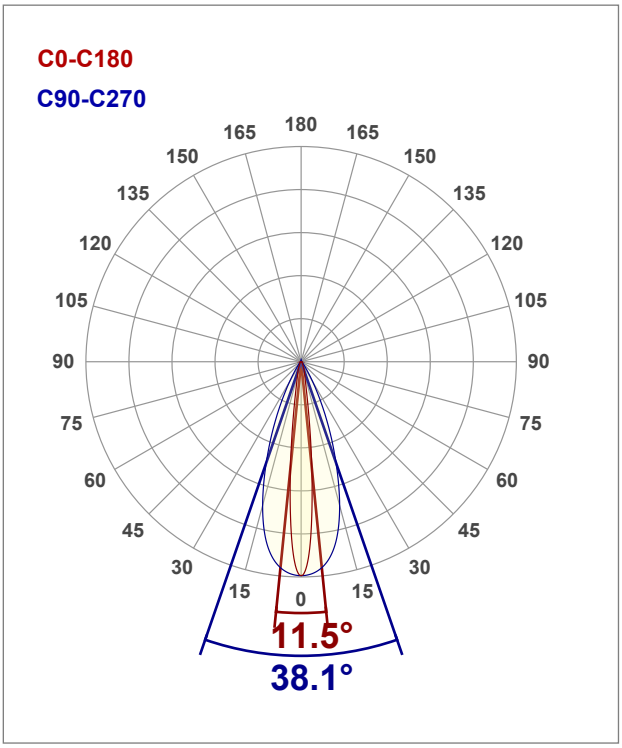
2925 K

Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2486 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	13311 cd
Beam Angle (50%-FWHM)	19.7°

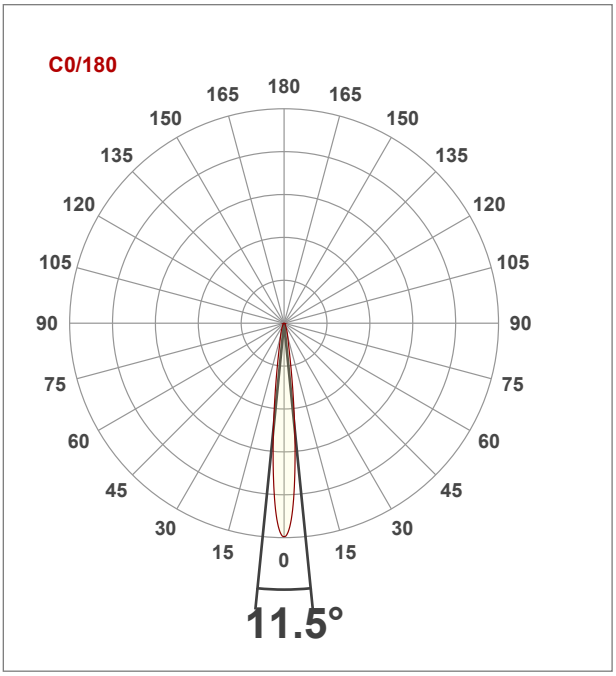
EU Ecodesign parameters

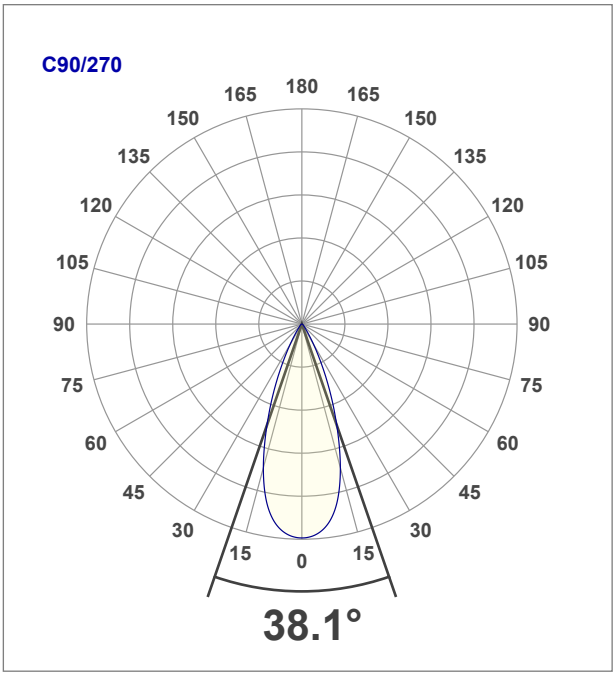
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2365 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	98.57%
In 90° cone	95.15%

Angular Distribution

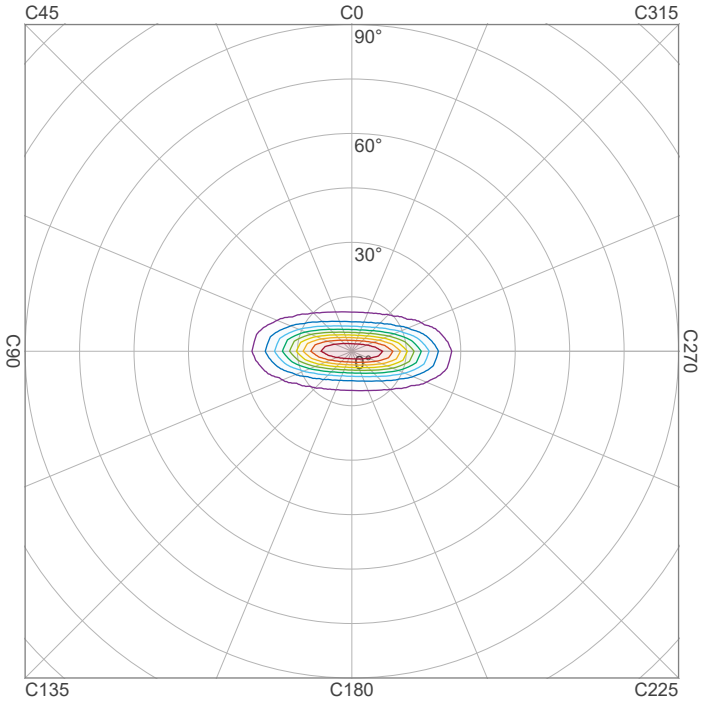




Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

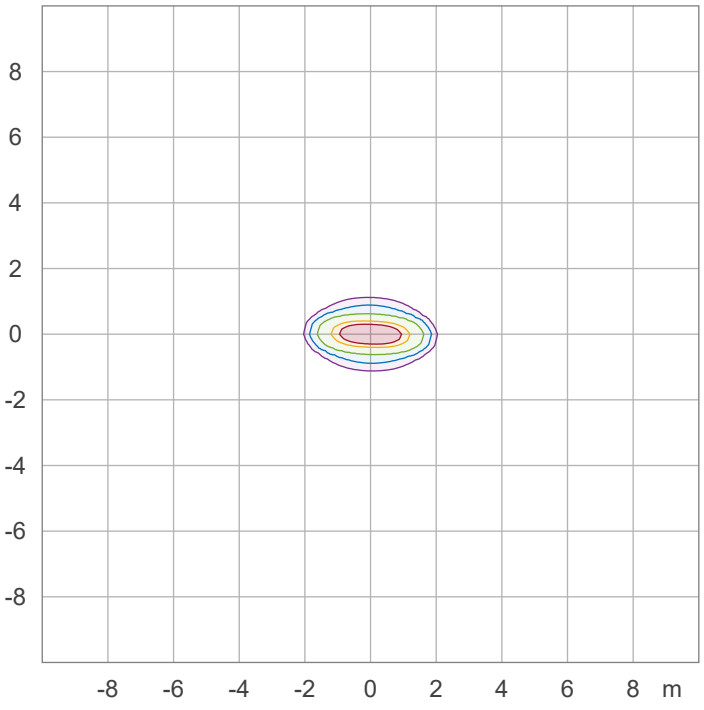
Iso-intensity Diagram (Iso-candela)



90 %	11963.2 cd
80 %	10634.0 cd
70 %	9304.7 cd
60 %	7975.5 cd
50 %	6646.2 cd
40 %	5317.0 cd
30 %	3987.7 cd
20 %	2658.5 cd
10 %	1329.2 cd

Peak intensity: 13292.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	738 lx
30.0 %	443 lx
10.0 %	148 lx
5.0 %	73.8 lx
3.0 %	44.3 lx

Peak illuminance: 1477 lx
Mounting height: 3 m
Number of c-planes: 36

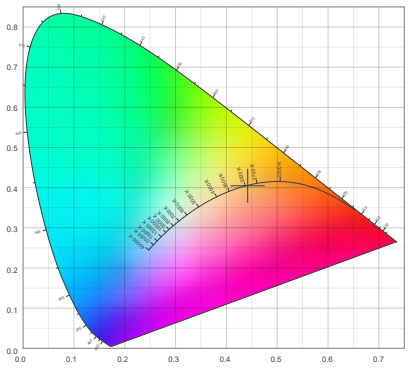
Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

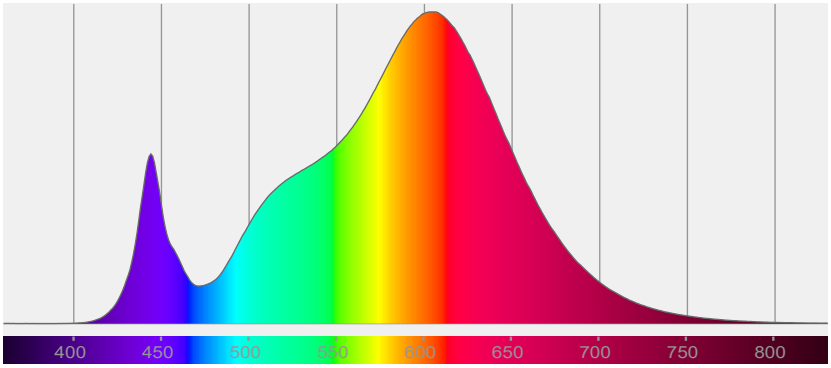
Color details

Correlated Color Temperature, Target	CCT = 2925 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2925 K	Color deviation from BBL	Duv = -0.0004
Color Rendering Index	CRI 82.3	Color coordinates CIE 1931	(x;y) = (0.4419;0.4046)
Color Rendering Index, R9 (red)	R9 = 2.2	Color coordinate CIEs 1960	(u;v) = (0.2536;0.3482)
Color Rendering TM30-18	Rf 83.4	Color coordinate CIEs 1976	(u';v') = (0.2536;0.5223)
	Rg 98.4	Color Quality Scale	CQS = 81.1

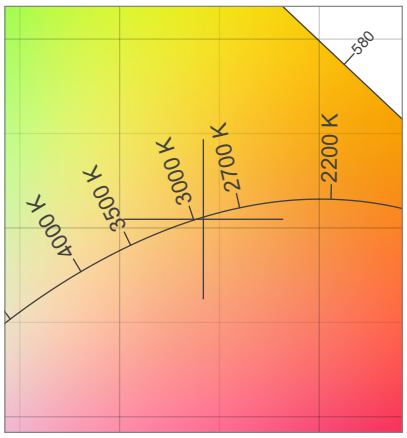
CIE 1931 Chromaticity diagram



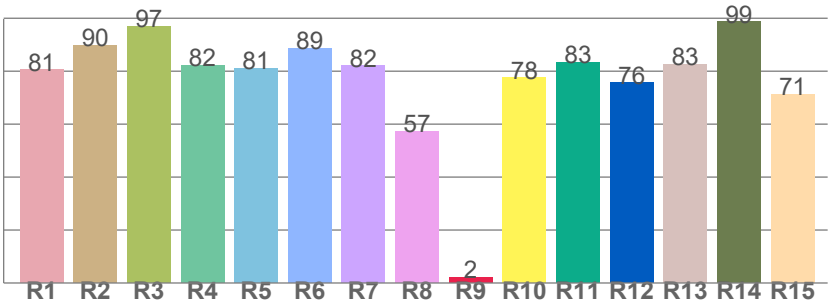
Spectral power distribution



CIE 1931 Chromaticity - zoomed



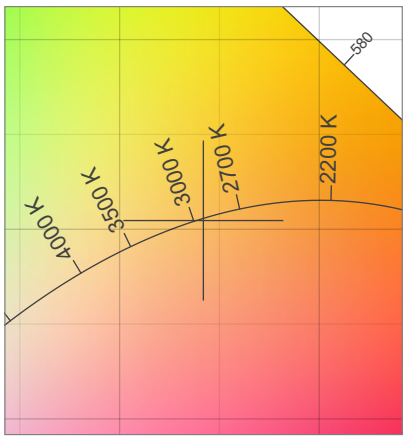
Color Rendering Index per reference color (CIE 1995)



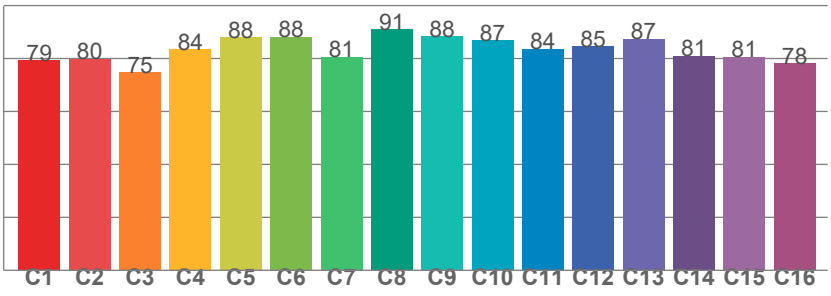
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.6	89.7	97.0	82.3	81.2	88.6	82.1	57.2	2.2	77.5	83.4	75.7	82.7	98.7	71.3

CIE 1931 Chromaticity - SDCM



TM30-18 Rf-values per hue bin



TM30-18 Rf-values per hue bin

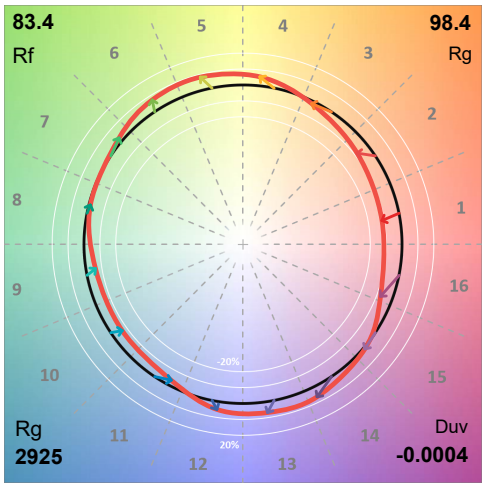
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.3	79.8	74.8	83.5	87.9	88.1	80.6	91.0	88.3	86.9	83.6	84.6	87.4	81.0	80.6	78.1

Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

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

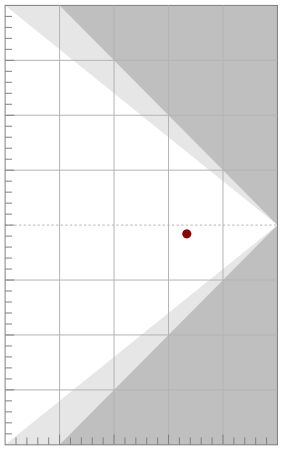
Color Vector Graphic



Color Distortion Graphic

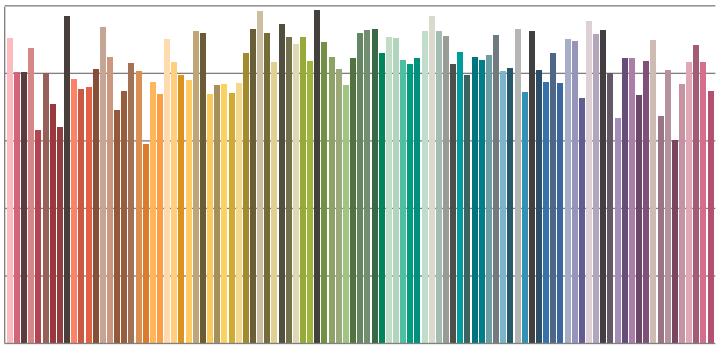
Gamut Index vs. Fidelity Index

Gamut index (Rg)



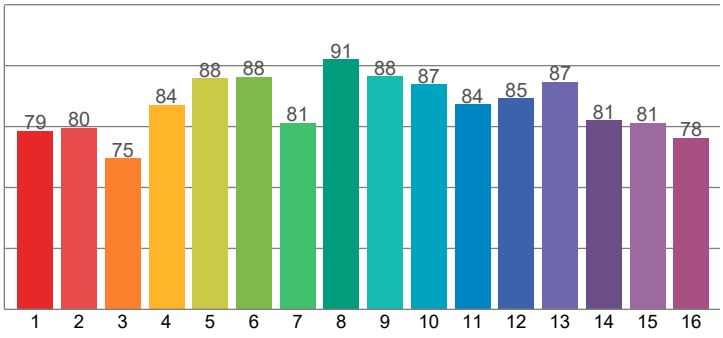
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



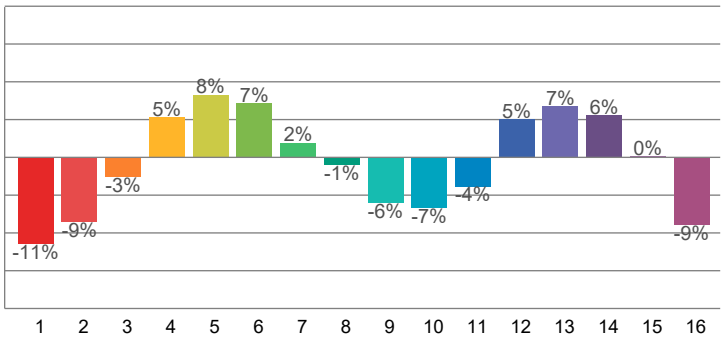
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

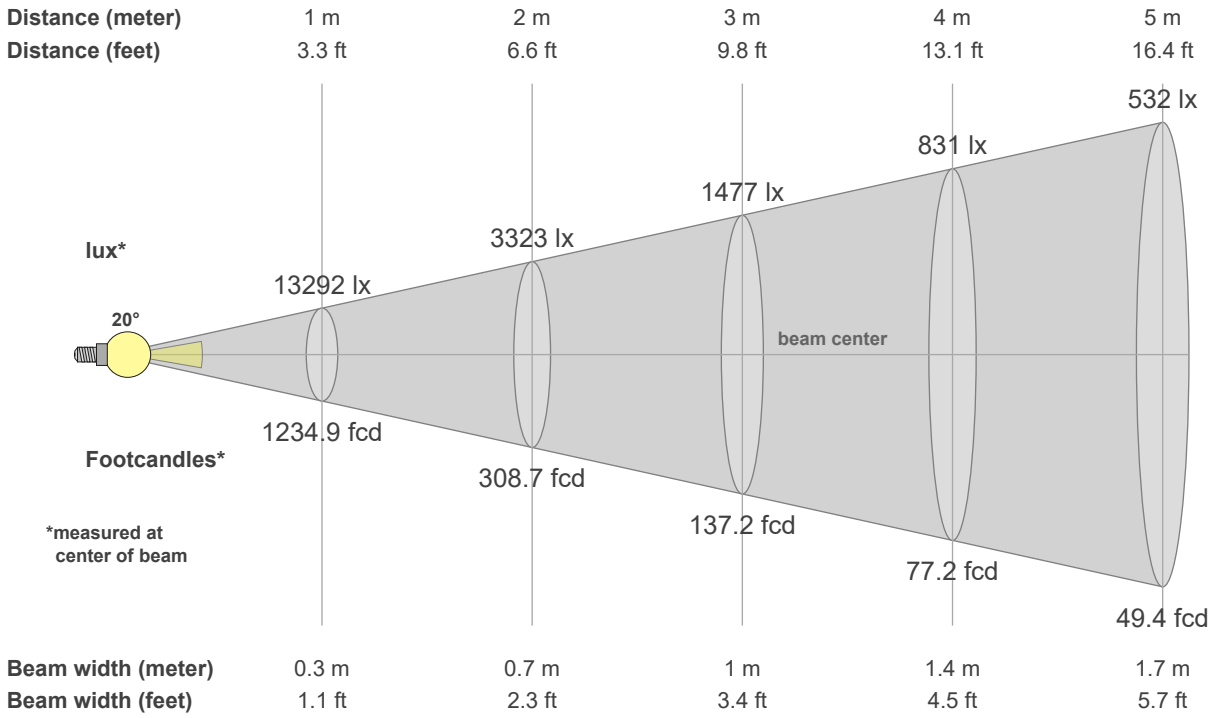
CIE x	0.4419
CIE y	0.4419
CIE u'	0.2536
CIE v'	0.5223

CIE	**13.3-1995**
Ra	82.3
R9	2.2

Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

Beam details



Photometric Test Report

FL25-G2-XXX-3083-4010-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
13292	3323	1477	831	532	369	271	208	164	133	110	92	79	68	59	52	46	41	37	33	lux
1234.9	308.7	137.2	77.2	49.4	34.3	25.2	19.3	15.2	12.3	10.2	8.6	7.3	6.3	5.5	4.8	4.3	3.8	3.4	3.1	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
13.3k	13.0k	12.3k	11.1k	9.5k	7.8k	6.2k	4.8k	3.6k	2.7k	2.0k	1.6k	1.3k	1.1k	1.0k	0.9k	0.8k	0.7k	0.6k	0.6k	cd
100%	98%	93%	84%	72%	59%	47%	36%	27%	20%	15%	12%	10%	8%	7%	7%	6%	5%	5%	4%	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
13.3k	13.3k	13.3k	13.2k	13.1k	13.0k	12.8k	12.6k	12.4k	12.1k	11.8k	11.4k	10.9k	10.4k	9.8k	9.2k	8.6k	8.0k	7.3k	6.7k	cd
100%	100%	100%	99%	99%	98%	96%	95%	93%	91%	88%	86%	82%	78%	74%	70%	65%	60%	55%	50%	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
13.3k	13.0k	12.3k	11.1k	9.5k	7.8k	6.2k	4.8k	3.6k	2.7k	2.0k	1.6k	1.3k	1.1k	1.0k	0.9k	0.8k	0.7k	0.6k	0.6k	cd
100%	98%	93%	84%	72%	59%	47%	36%	27%	20%	15%	12%	10%	8%	7%	7%	6%	5%	5%	4%	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
13.3k	13.3k	13.3k	13.2k	13.1k	13.0k	12.8k	12.6k	12.4k	12.1k	11.8k	11.4k	10.9k	10.4k	9.8k	9.2k	8.6k	8.0k	7.3k	6.7k	cd
100%	100%	100%	99%	99%	98%	96%	95%	93%	91%	88%	86%	82%	78%	74%	70%	65%	60%	55%	50%	of 0°val

Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

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

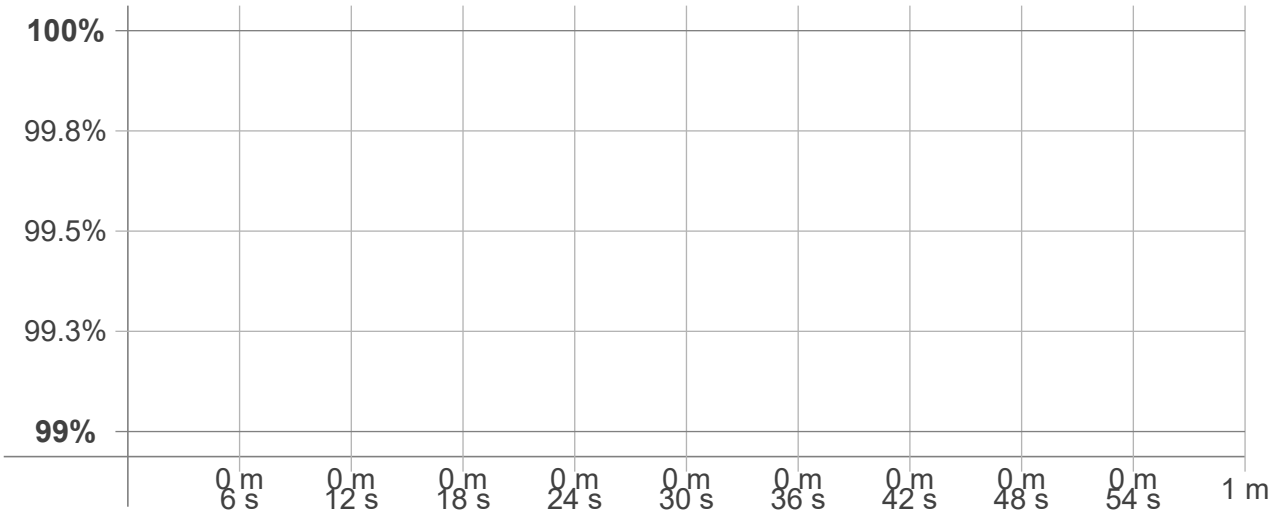
Efficiency

Radiated power efficiency	28.32
Lumen efficiency	94.41 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	2925 K
Warmup Result		**Output Change**	
Total warmup time	n/a	Output start	NaN lm
Warmup variation	NaN%	Output change	NaN lm
		Output end	2486 lm

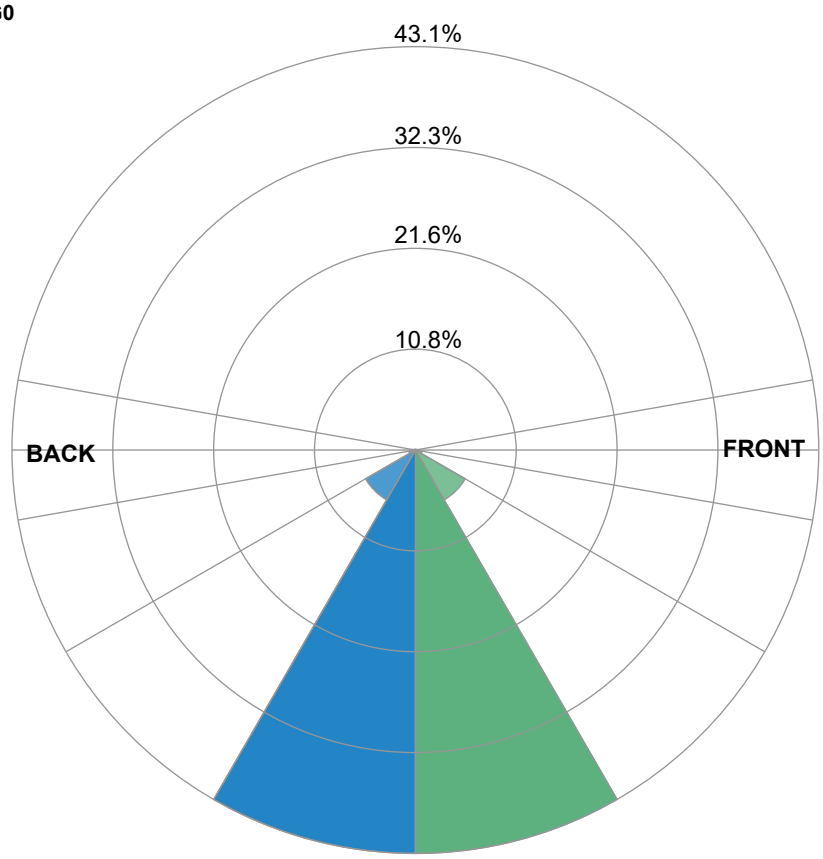
Stabilization Curve



Photometric Test Report

FL25-G2-XXX-3083-4010-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	1070	lm	43.1%
Medium (30-60°)	153	lm	6.16%
High (60-80°)	17.7	lm	0.710%
Very High (80-90°)	0.213	lm	0.00859%
Back Light			
Low (0-30°)	1070	lm	43.1%
Medium (30-60°)	153	lm	6.16%
High (60-80°)	17.7	lm	0.710%
Very High (80-90°)	0.213	lm	0.00859%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2486	lm	100%

BUG RATING B3 U0 G0