Photometric Test Report

FL25-G2-XXX-3083-30L-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.21-8034-VO
Measurement date	2026-04-21

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
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

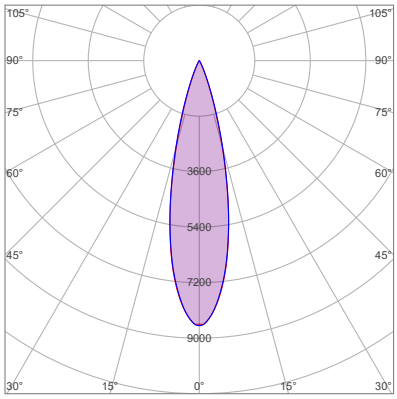
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-30L-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

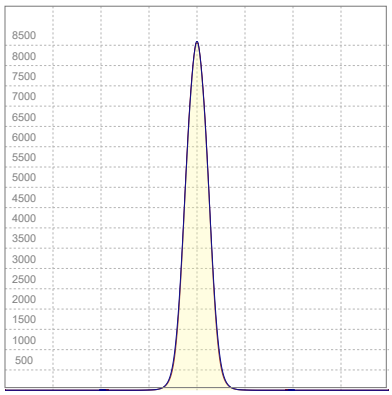
Output – Total Lumen (Up% / Down%)	1655 lm – 0%% / 100%%
Efficiency	62.85 lm/W
Peak Intensity	8601 cd
Correlated Color Temperature, CCT	2961 K
Color Rendering Index	CRI 82.7
Beam Angle (FWHM) | C0/180	24.5°
Beam Angle (FWHM) | C90/270	24.6°
Field Angle (10%) | C0/180	41.7°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	42.7°
Optical Power	4976 mW
Peak Wavelength	606 nm
Dominant Wavelength	584 nm

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

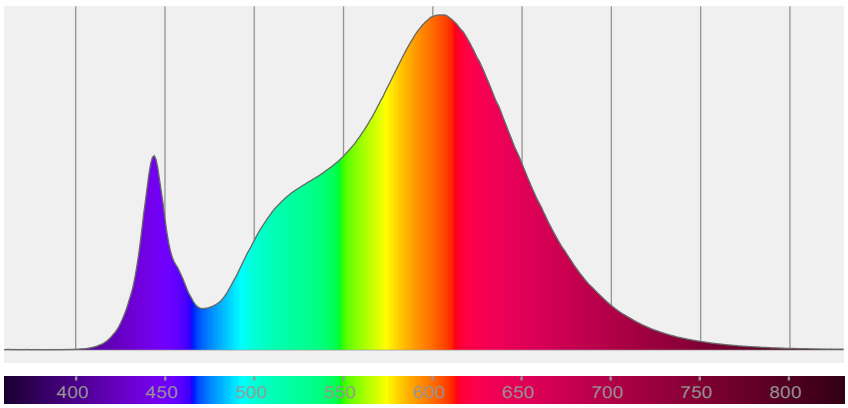


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

2961 K

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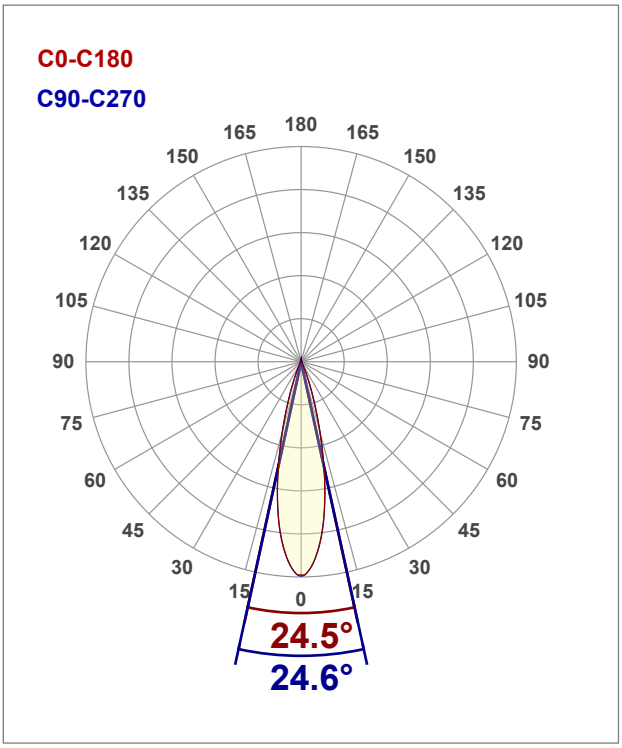
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1655 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	8601 cd
Beam Angle (50%-FWHM)	24.4°

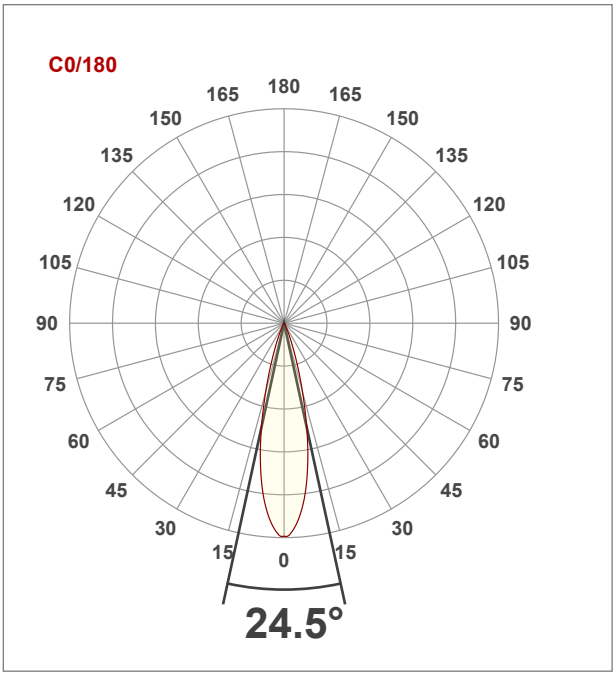
EU Ecodesign parameters

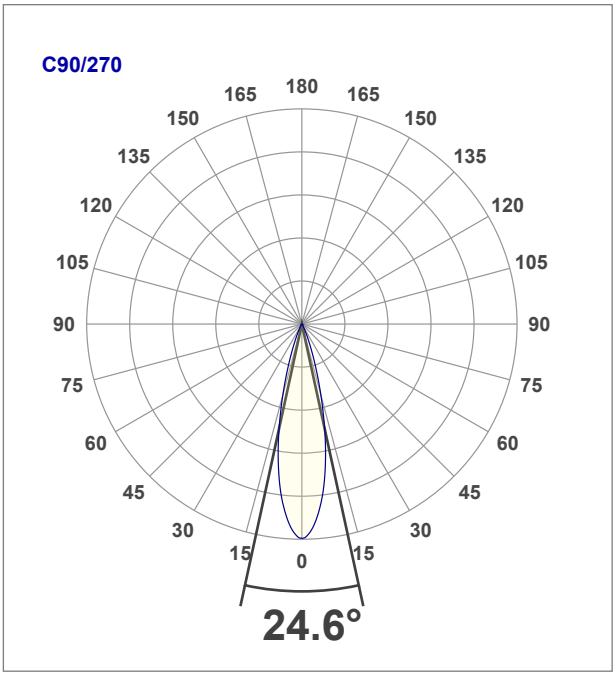
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1653 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	99.88%

Angular Distribution





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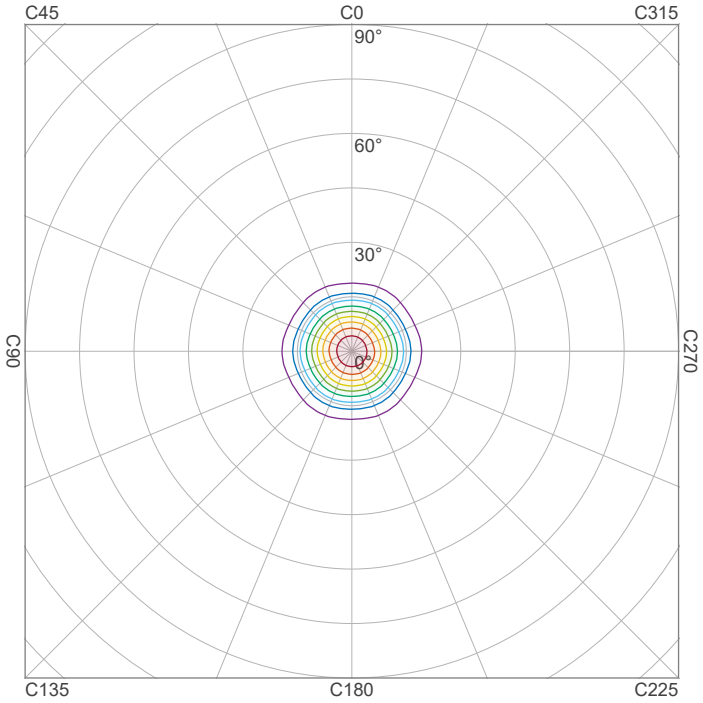
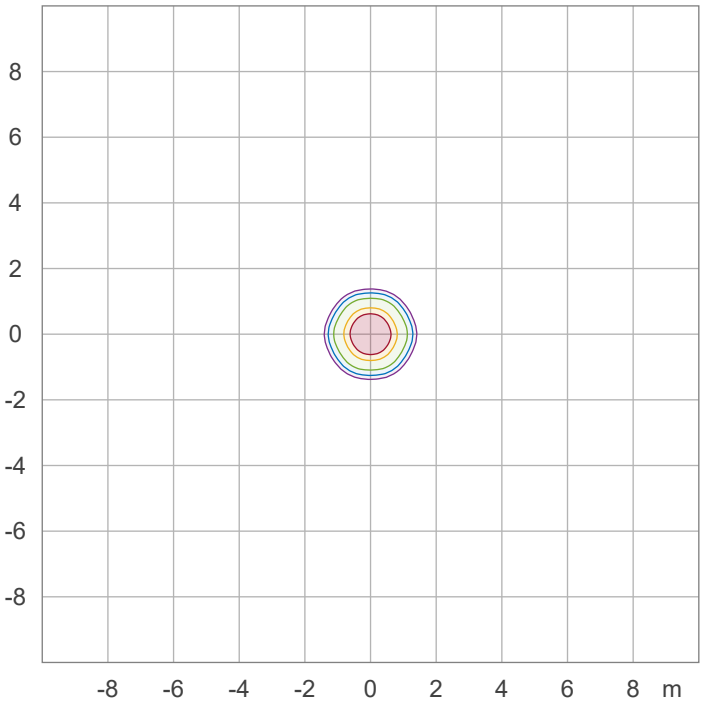
Iso-intensity Diagram (Iso-candela)



90 %	7720.2 cd
80 %	6862.4 cd
70 %	6004.6 cd
60 %	5146.8 cd
50 %	4289.0 cd
40 %	3431.2 cd
30 %	2573.4 cd
20 %	1715.6 cd
10 %	857.8 cd

Peak intensity: 8578.0 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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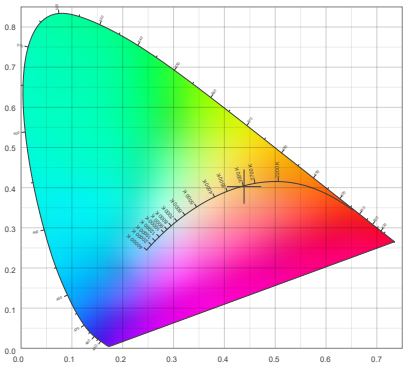
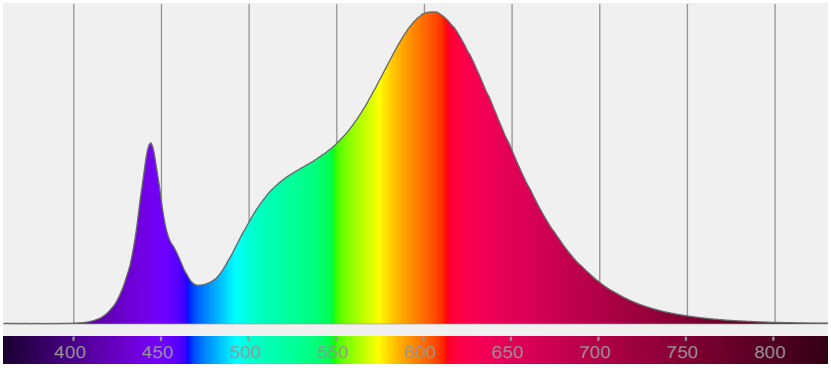
Color details

Correlated Color Temperature, Target	CCT = 2961 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2961 K	Color deviation from BBL	Duv = -0.0009
Color Rendering Index	CRI 82.7	Color coordinates CIE 1931	(x;y) = (0.4387;0.4025)
Color Rendering Index, R9 (red)	R9 = 3.7	Color coordinate CIEs 1960	(u;v) = (0.2524;0.3474)
Color Rendering TM30-18	Rf 83.3	Color coordinate CIEs 1976	(u';v') = (0.2524;0.5210)
	Rg 98.8	Color Quality Scale	CQS = 81.2

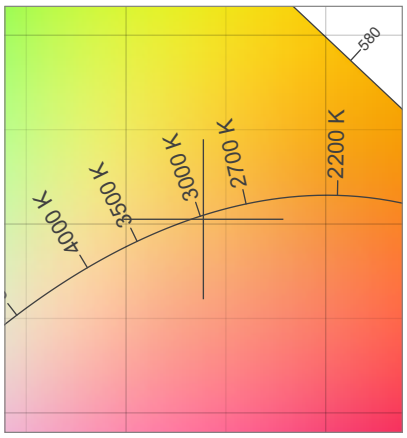
CIE 1931 Chromaticity diagram



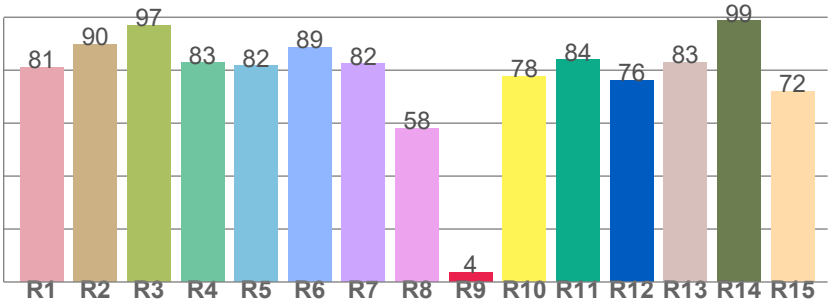
Spectral power distribution



CIE 1931 Chromaticity - zoomed



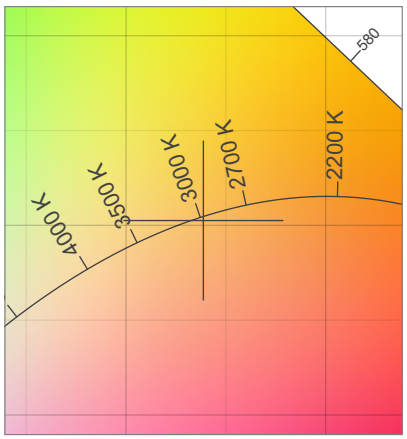
Color Rendering Index per reference color (CIE 1995)



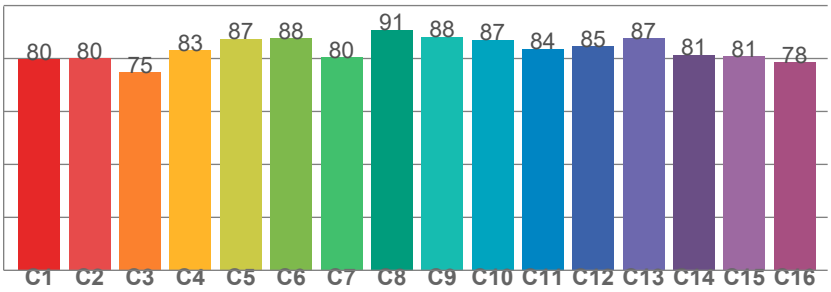
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.1	89.8	96.9	82.8	81.7	88.7	82.4	58.1	3.7	77.7	84.0	76.1	83.1	98.6	72.0

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
79.6	80.0	74.7	83.0	87.4	87.7	80.3	90.8	88.2	87.0	83.6	84.5	87.5	81.4	80.8	78.5

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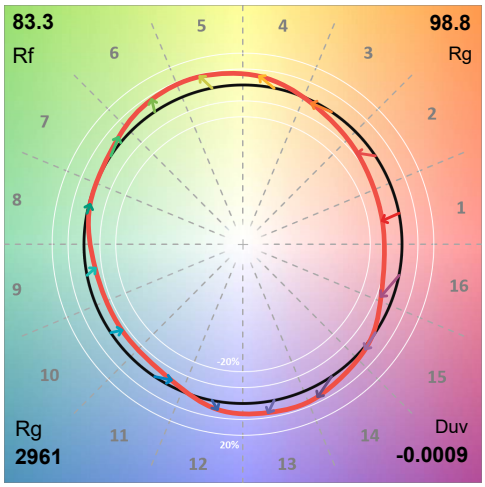
Color details - ANSI/IES TM-30-18 Color Rendition Report

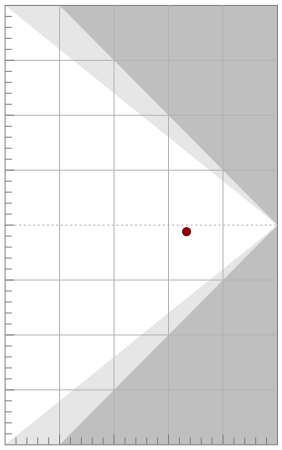
Color Vector Graphic



Color Distortion Graphic

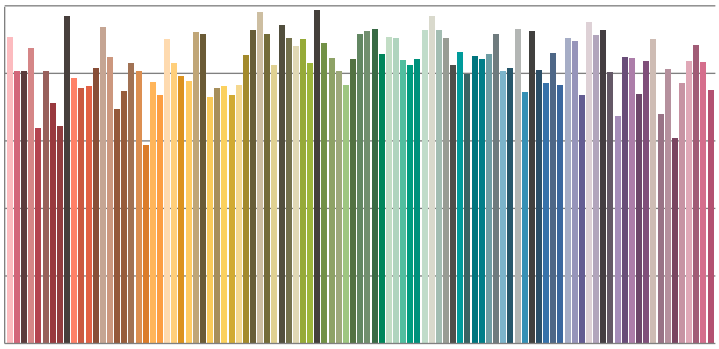
Gamut Index vs. Fidelity Index

Gamut index (Rg)



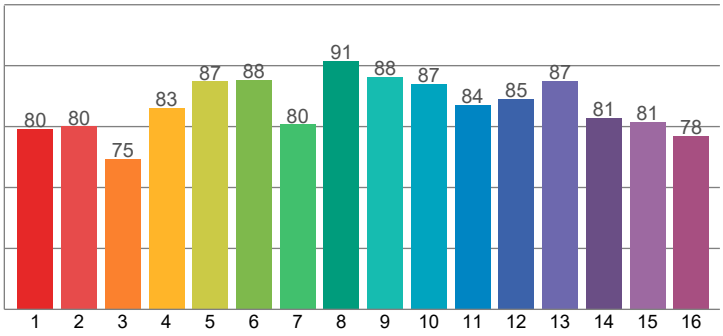
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



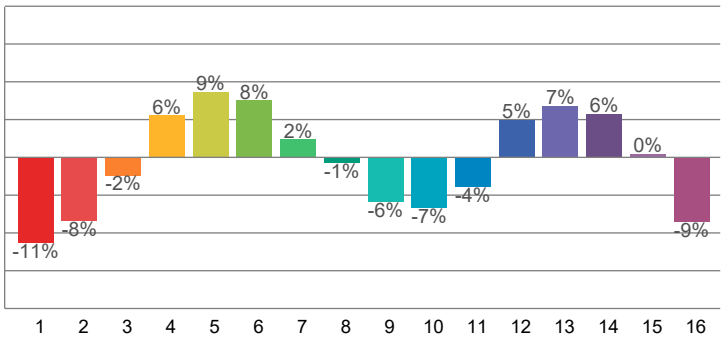
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4387
CIE y	0.4387
CIE u'	0.2524
CIE v'	0.5210

CIE	**13.3-1995**
Ra	82.7
R9	3.7

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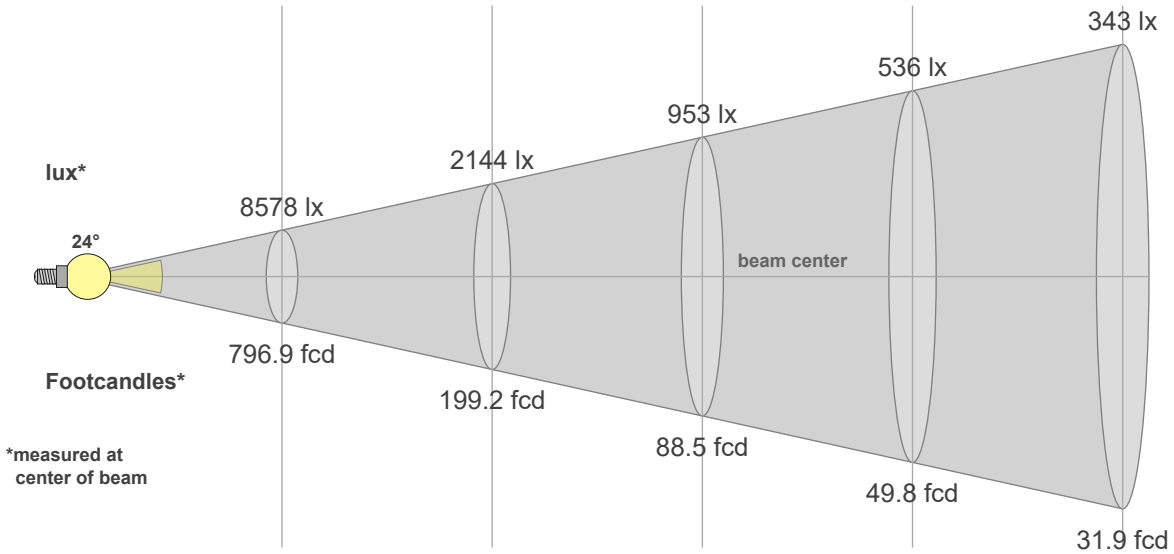
Beam details

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)	0.4 m	0.9 m	1.3 m	1.7 m	2.2 m
Beam width (feet)	1.4 ft	2.8 ft	4.3 ft	5.7 ft	7.1 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
8578	2144	953	536	343	238	175	134	106	86	71	60	51	44	38	34	30	26	24	21	lux
796.9	199.2	88.5	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
8578	8396	7940	7292	6466	5484	4411	3344	2399	1621	1045	648	399	249	157	100	64	41	26	17	cd
100%	98%	93%	85%	75%	64%	51%	39%	28%	19%	12%	8%	5%	3%	2%	1%	1%	0%	0%	0%	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
8578	8392	7918	7249	6425	5463	4440	3424	2507	1746	1164	742	462	284	175	109	67	42	27	17	cd
100%	98%	92%	85%	75%	64%	52%	40%	29%	20%	14%	9%	5%	3%	2%	1%	1%	0%	0%	0%	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
8578	8396	7940	7292	6466	5484	4411	3344	2399	1621	1045	648	399	249	157	100	64	41	26	17	cd
100%	98%	93%	85%	75%	64%	51%	39%	28%	19%	12%	8%	5%	3%	2%	1%	1%	0%	0%	0%	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
8578	8392	7918	7249	6425	5463	4440	3424	2507	1746	1164	742	462	284	175	109	67	42	27	17	cd
100%	98%	92%	85%	75%	64%	52%	40%	29%	20%	14%	9%	5%	3%	2%	1%	1%	0%	0%	0%	of 0°val

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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

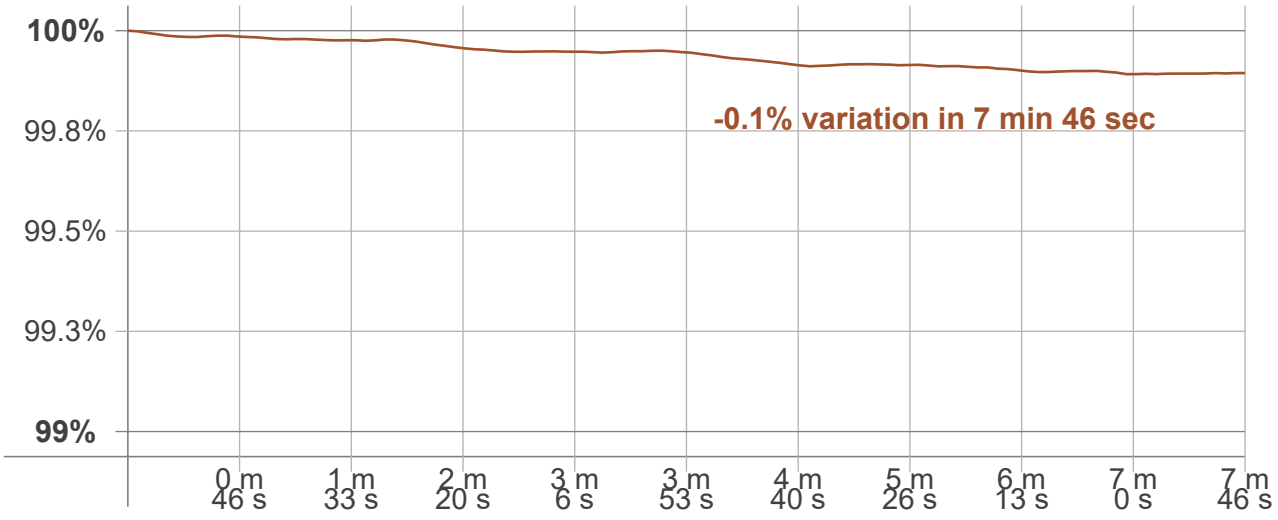
Efficiency

Radiated power efficiency	18.9
Lumen efficiency	62.85 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2961 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2961 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	1657 lm
Warmup variation	-0.1196%	Output change	-1.8338 lm
		Output end	1655 lm

Stabilization Curve



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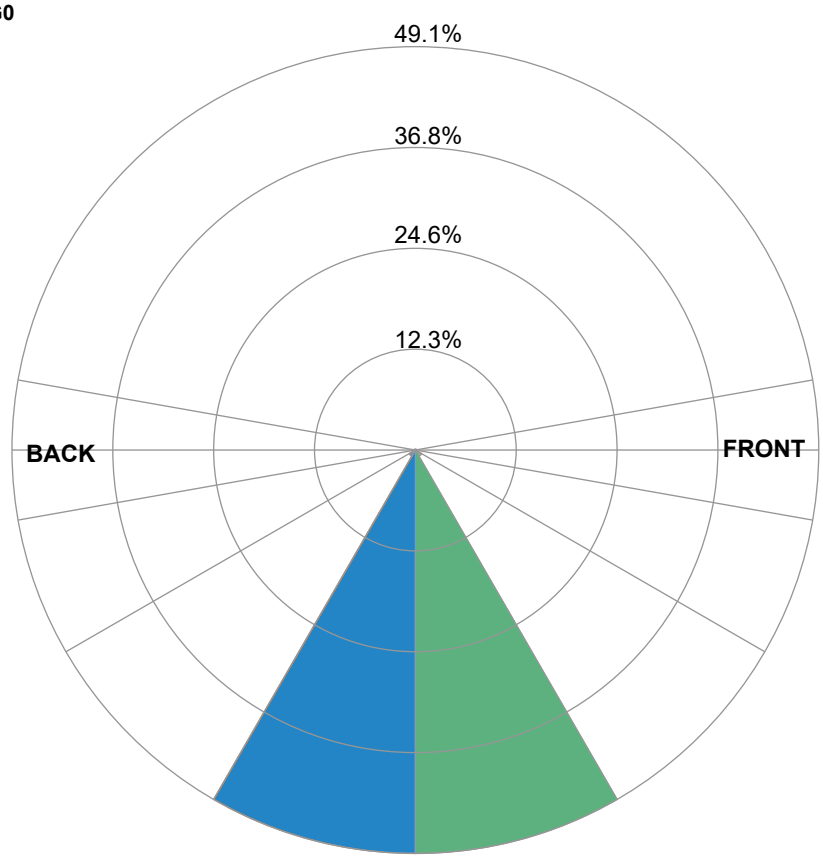
FL25-G2-XXX-3083-30L-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	813	lm	49.1%
Medium (30-60°)	14.6	lm	0.884%
High (60-80°)	0.00180	lm	0.000109%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	813	lm	49.1%
Medium (30-60°)	14.6	lm	0.884%
High (60-80°)	0.00180	lm	0.000109%
Very High (80-90°)	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1655	lm	100%

BUG RATING B2 U0 G0