Photometric Test Report

FL25-G2-XXX-3083-4-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.30-8250-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

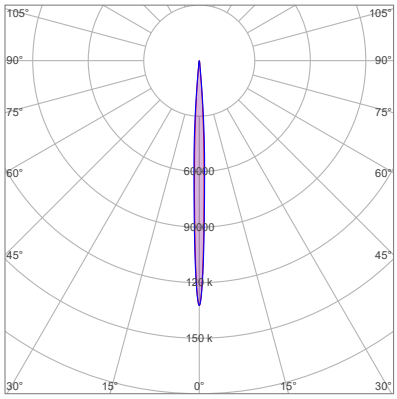
Tested Light Source

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

Main Light Measurement Results

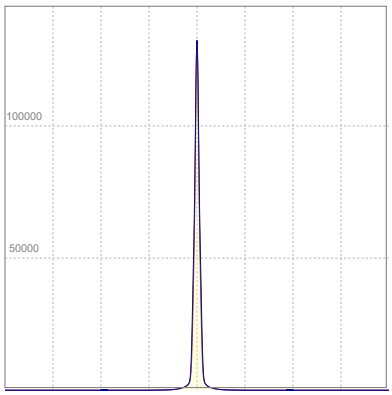
Output – Total Lumen (Up% / Down%)	1778 lm – 0%% / 100%%
Efficiency	62.11 lm/W
Peak Intensity	132091 cd
Correlated Color Temperature, CCT	2889 K
Color Rendering Index	CRI 82.5
Beam Angle (FWHM) | C0/180	4.5°
Beam Angle (FWHM) | C90/270	5.0°
Field Angle (10%) | C0/180	9.8°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	10.5°
Optical Power	5437 mW
Peak Wavelength	607 nm
Dominant Wavelength	584 nm

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

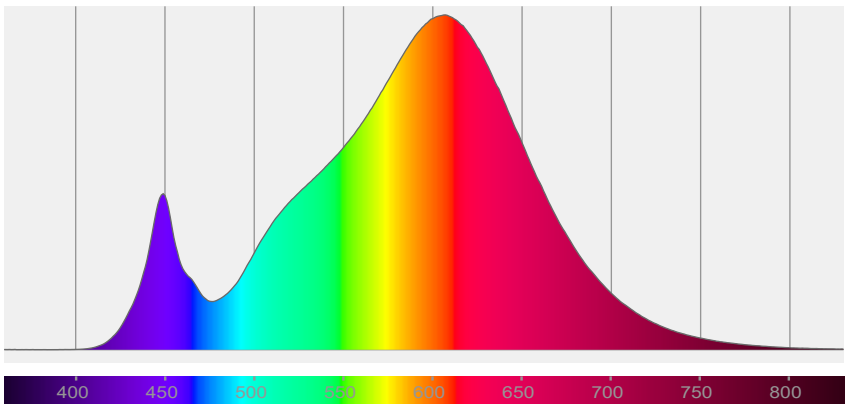


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

2889 K

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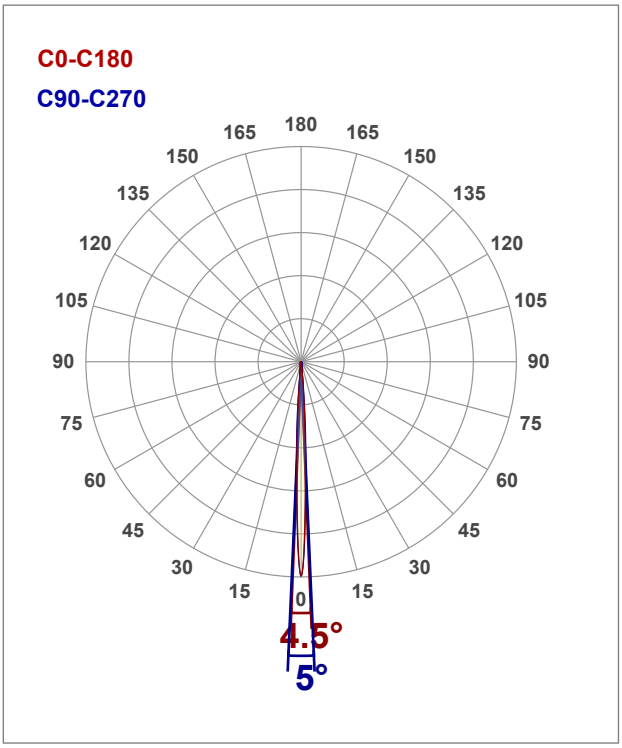
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1778 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	132091 cd
Beam Angle (50%-FWHM)	4.8°

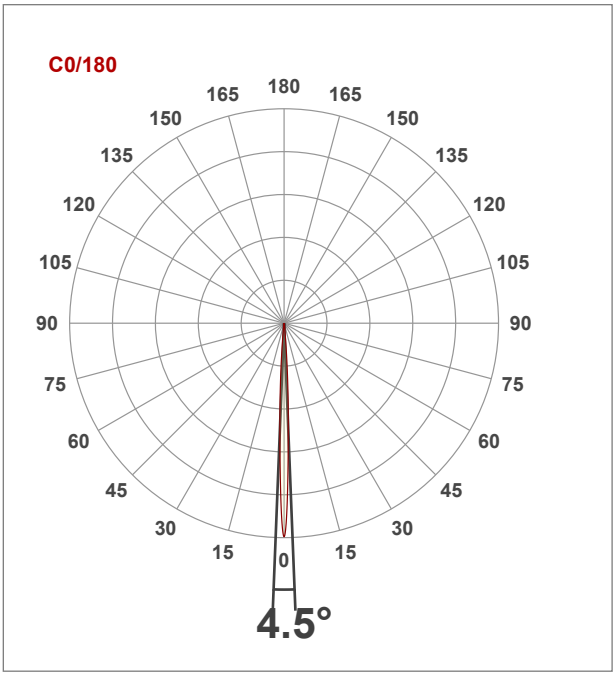
EU Ecodesign parameters

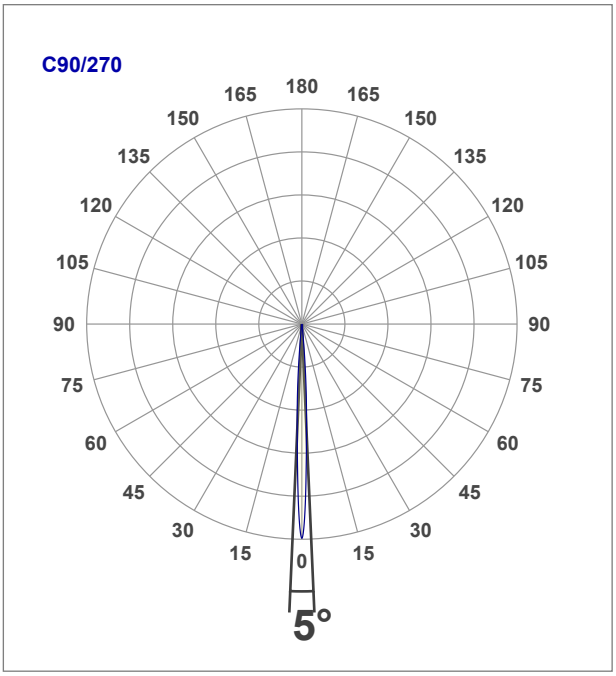
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1775 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	99.84%

Angular Distribution





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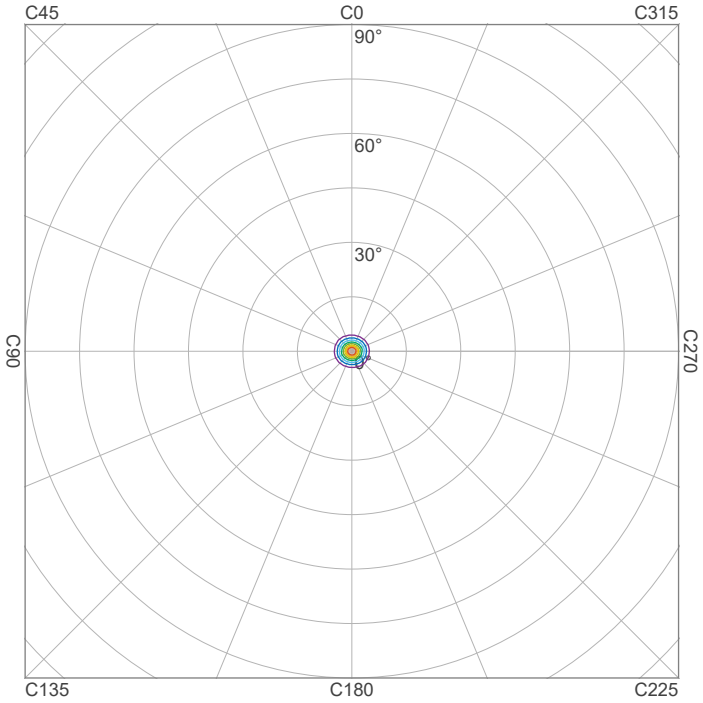
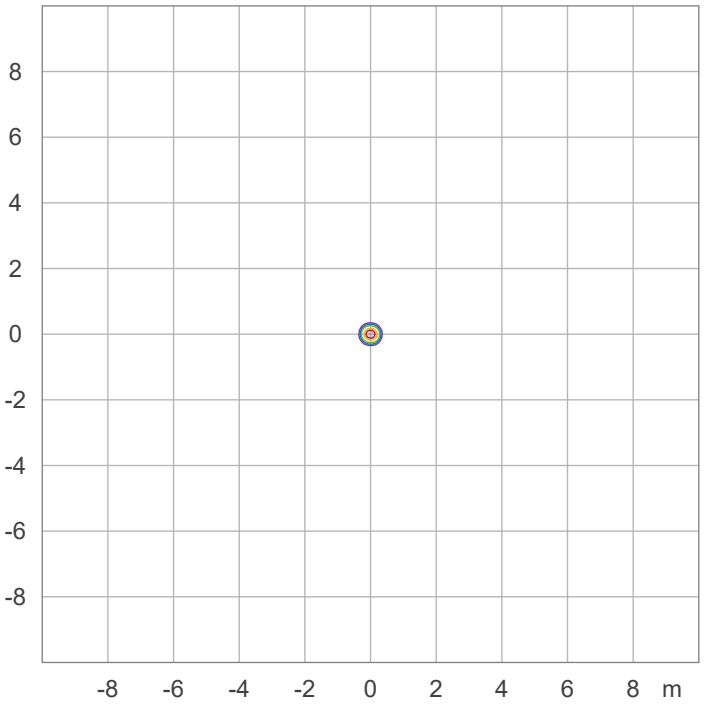
Iso-intensity Diagram (Iso-candela)



90 %	118667.8 cd
80 %	105482.5 cd
70 %	92297.1 cd
60 %	79111.8 cd
50 %	65926.5 cd
40 %	52741.2 cd
30 %	39555.9 cd
20 %	26370.6 cd
10 %	13185.3 cd

Peak intensity: 131853.1 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	7325 lx
30.0 %	4395 lx
10.0 %	1465 lx
5.0 %	733 lx
3.0 %	440 lx

Peak illuminance: 14650 lx
Mounting height: 3 m
Number of c-planes: 36

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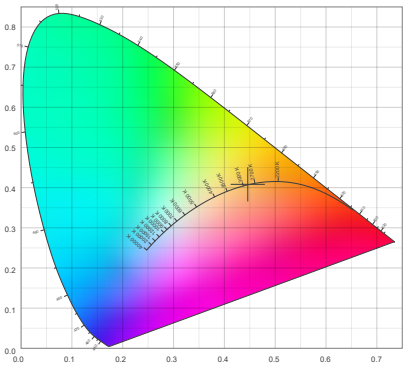
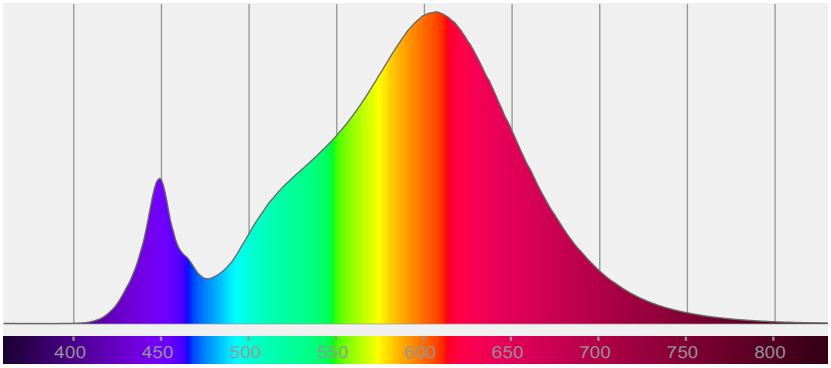
Color details

Correlated Color Temperature, Target	CCT = 2889 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2889 K	Color deviation from BBL	Duv = 0.0005
Color Rendering Index	CRI 82.5	Color coordinates CIE 1931	(x;y) = (0.4460;0.4082)
Color Rendering Index, R9 (red)	R9 = 9.2	Color coordinate CIEs 1960	(u;v) = (0.2546;0.3496)
Color Rendering TM30-18	Rf 84.3	Color coordinate CIEs 1976	(u';v') = (0.2546;0.5244)
	Rg 97.3	Color Quality Scale	CQS = 81.7

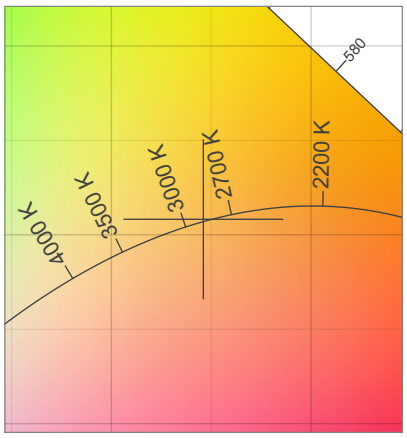
CIE 1931 Chromaticity diagram



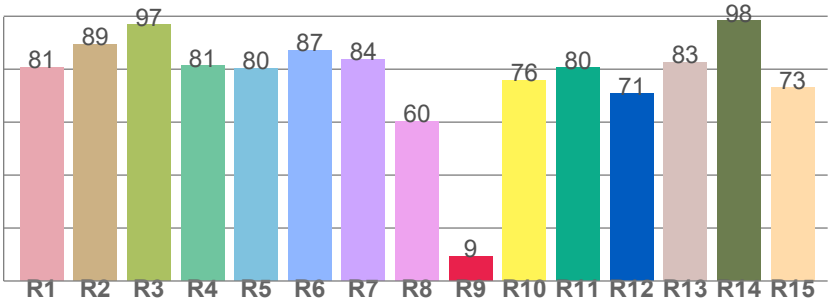
Spectral power distribution



CIE 1931 Chromaticity - zoomed



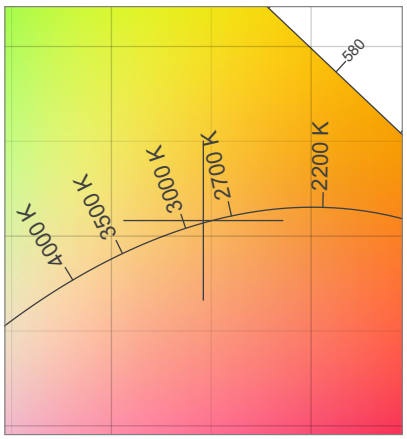
Color Rendering Index per reference color (CIE 1995)



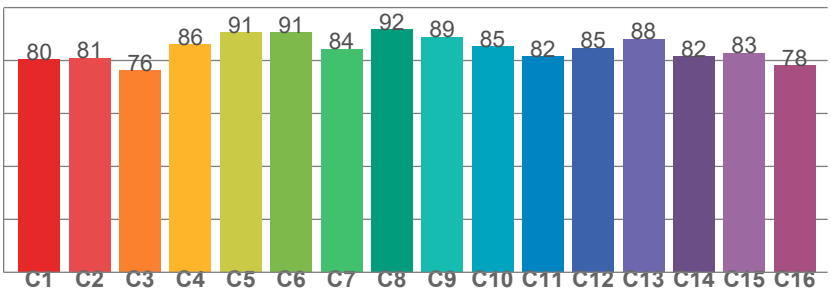
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.6	89.5	96.9	81.3	80.3	87.1	83.8	60.2	9.2	75.9	80.5	70.6	82.5	98.2	72.9

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	81.0	76.3	86.0	90.6	90.5	84.4	91.8	88.9	85.2	81.6	84.8	88.2	81.7	82.8	78.3

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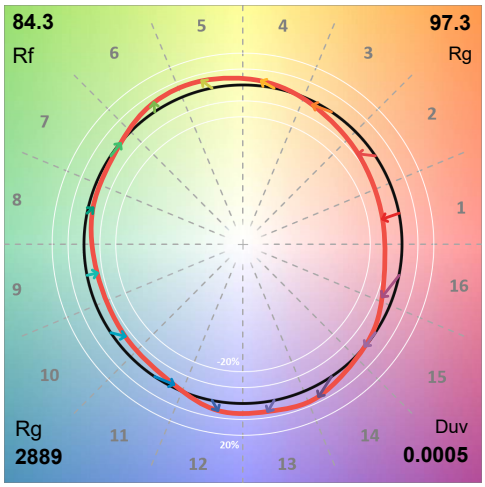
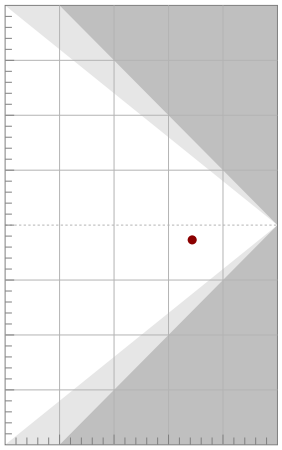
Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic



Color Distortion Graphic

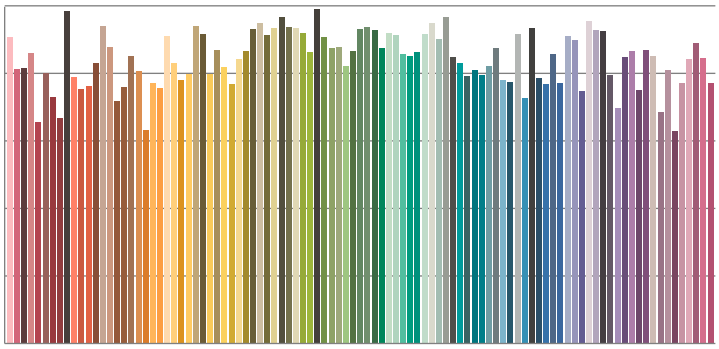
Gamut Index vs. Fidelity Index



Gamut index (Rg)

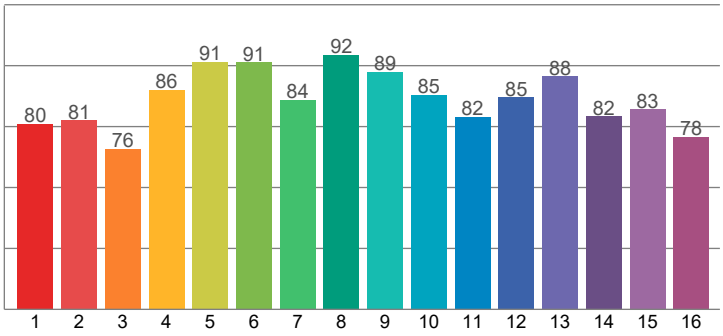
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



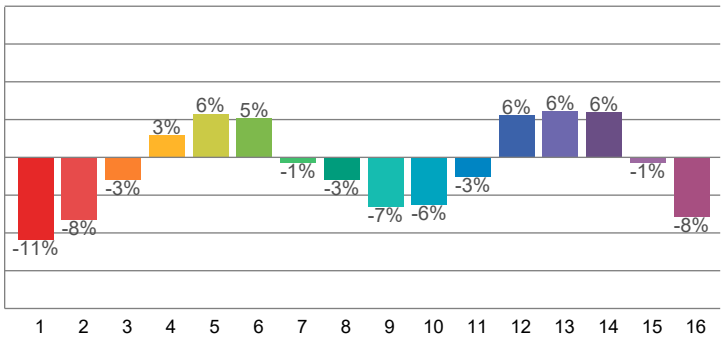
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4460
CIE y	0.4460
CIE u'	0.2546
CIE v'	0.5244

CIE	**13.3-1995**
Ra	82.5
R9	9.2

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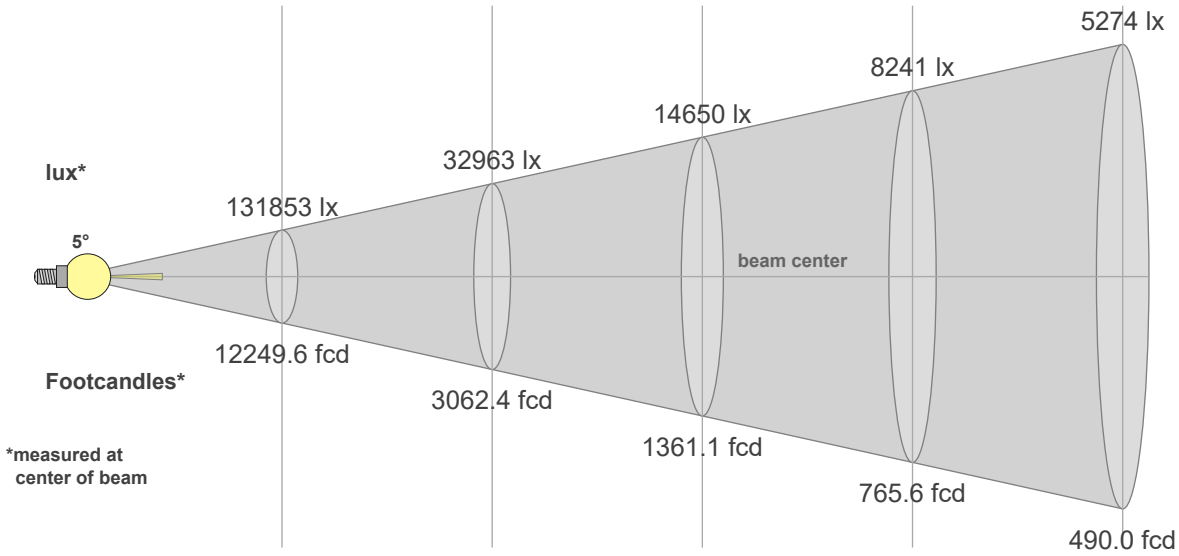
Beam details

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	0.2 m	0.3 m	0.3 m	0.4 m
Beam width (feet)	0.3 ft	0.6 ft	0.8 ft	1.1 ft	1.4 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
131853	32963	14650	8241	5274	3663	2691	2060	1628	1319	1090	916	780	673	586	515	456	407	365	330	lux
12249.6	3062.4	1361.1	765.6	490	340.3	250	191.4	151.2	122.5	101.2	85.1	72.5	62.5	54.4	47.8	42.4	37.8	33.9	30.6	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
132k	111k	74k	47k	27k	12k	5k	3k	2k	2k	2k	1k	1k	1k	1k	1k	1k	1k	0k	0k	cd
100%	84%	56%	36%	20%	9%	4%	2%	2%	1%	1%	1%	1%	1%	1%	1%	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
132k	114k	80k	55k	35k	17k	7k	3k	2k	2k	2k	1k	1k	1k	1k	1k	1k	1k	0k	0k	cd
100%	86%	61%	42%	26%	13%	5%	2%	2%	1%	1%	1%	1%	1%	1%	1%	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
132k	111k	74k	47k	27k	12k	5k	3k	2k	2k	2k	1k	1k	1k	1k	1k	1k	1k	0k	0k	cd
100%	84%	56%	36%	20%	9%	4%	2%	2%	1%	1%	1%	1%	1%	1%	1%	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
132k	114k	80k	55k	35k	17k	7k	3k	2k	2k	2k	1k	1k	1k	1k	1k	1k	1k	0k	0k	cd
100%	86%	61%	42%	26%	13%	5%	2%	2%	1%	1%	1%	1%	1%	1%	1%	0%	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	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

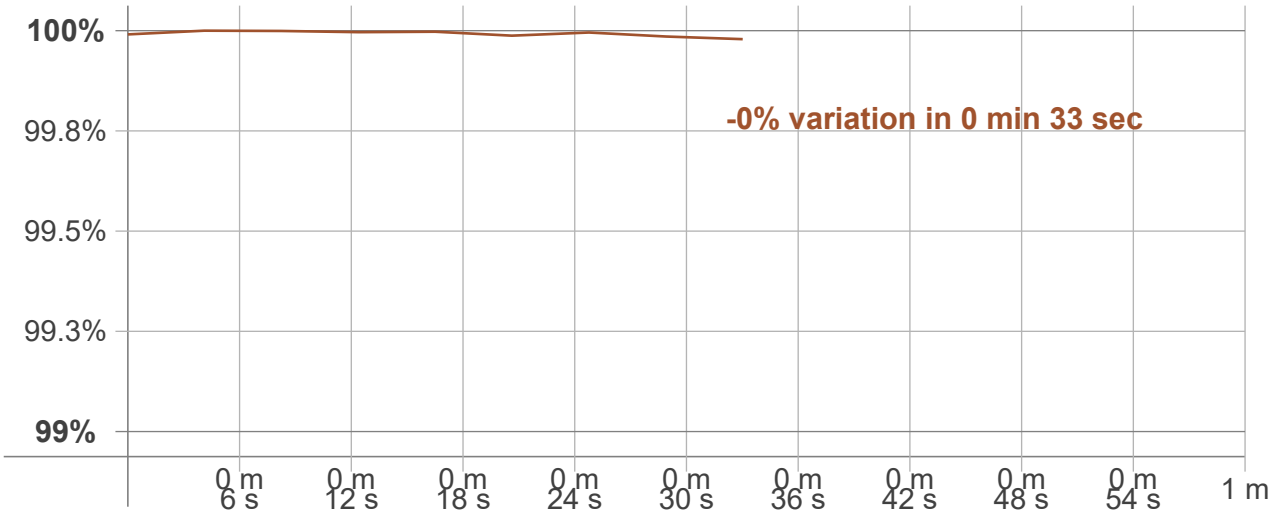
Efficiency

Radiated power efficiency	19
Lumen efficiency	62.11 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2889 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2889 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	1778 lm
Warmup variation	-0.0212%	Output change	-0.1738 lm
		Output end	1778 lm

Stabilization Curve



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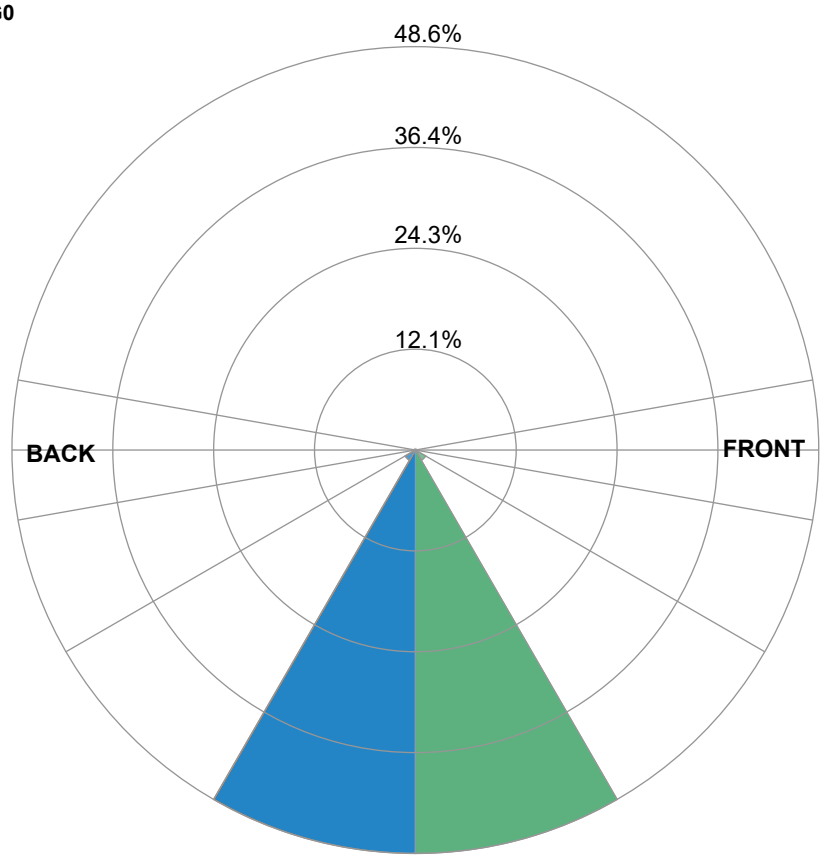
FL25-G2-XXX-3083-4-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	863	lm	48.6%
Medium (30-60°)	25.5	lm	1.44%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	863	lm	48.6%
Medium (30-60°)	25.5	lm	1.44%
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	1778	lm	100%

BUG RATING B2 U0 G0