Photometric Test Report

FL25-G2-XXX-3083-20L-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.20-7975-VO
Measurement date	2026-04-20

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

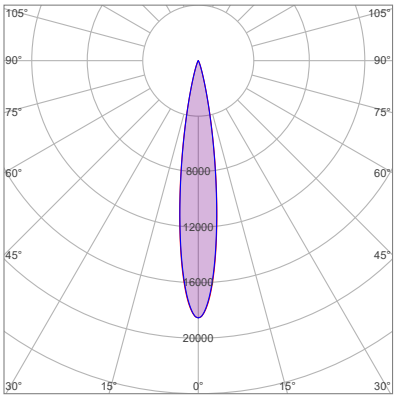
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-20L-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

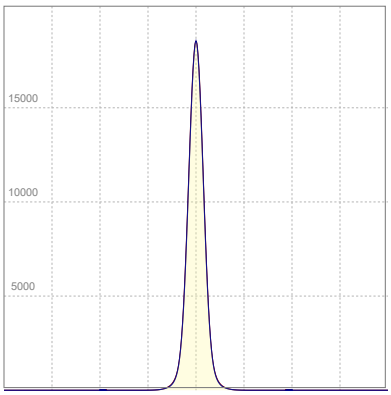
Output – Total Lumen (Up% / Down%)	1819 lm – 0%% / 100%%
Efficiency	69.08 lm/W
Peak Intensity	18539 cd
Correlated Color Temperature, CCT	2959 K
Color Rendering Index	CRI 82.6
Beam Angle (FWHM) | C0/180	16.2°
Beam Angle (FWHM) | C90/270	16.0°
Field Angle (10%) | C0/180	30.2°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	30.1°
Optical Power	5463 mW
Peak Wavelength	606 nm
Dominant Wavelength	584 nm

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

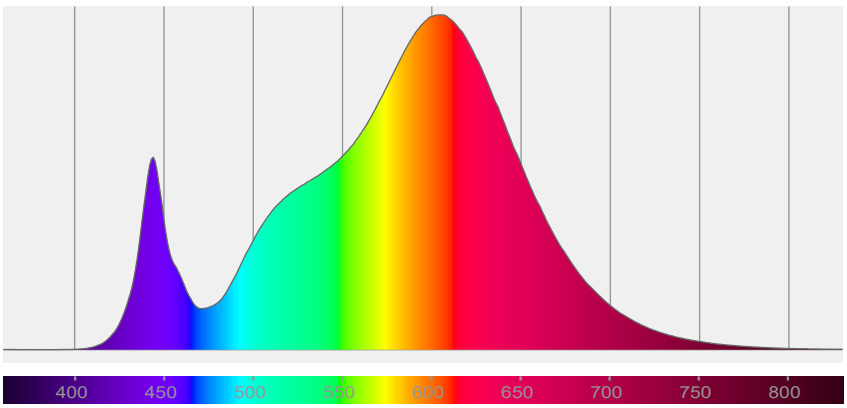


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

2959 K

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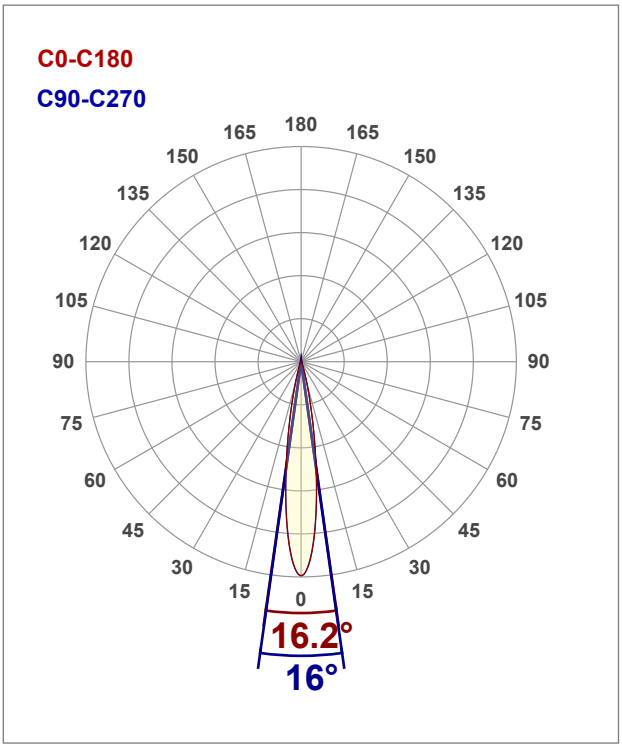
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1819 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	18539 cd
Beam Angle (50%-FWHM)	16.1°

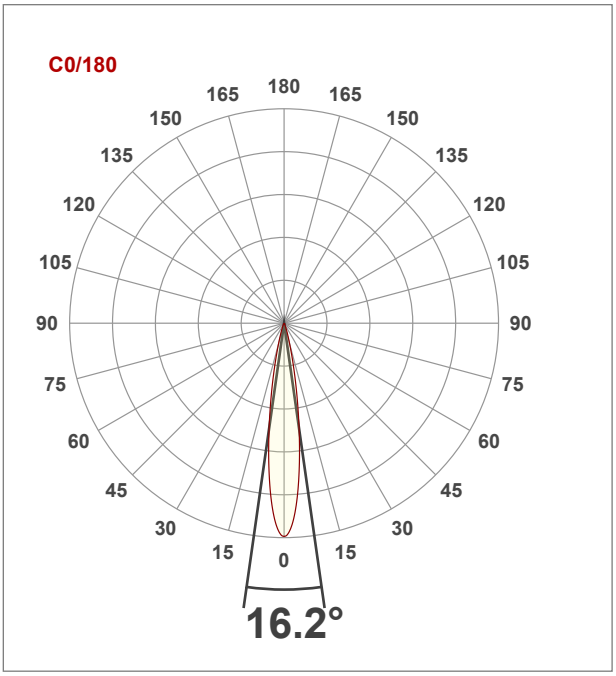
EU Ecodesign parameters

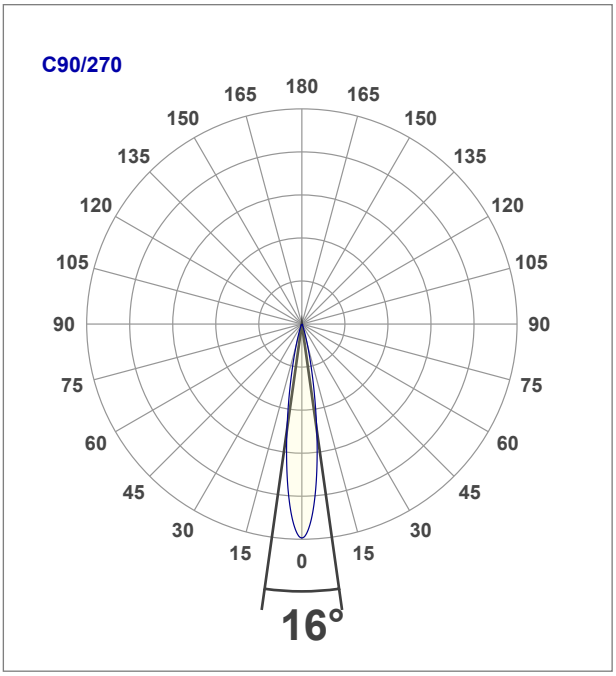
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	1819 lm
Ecodesign Energy Class	G

Intensity Ratio

In 120° cone	100%
In 90° cone	99.99%

Angular Distribution





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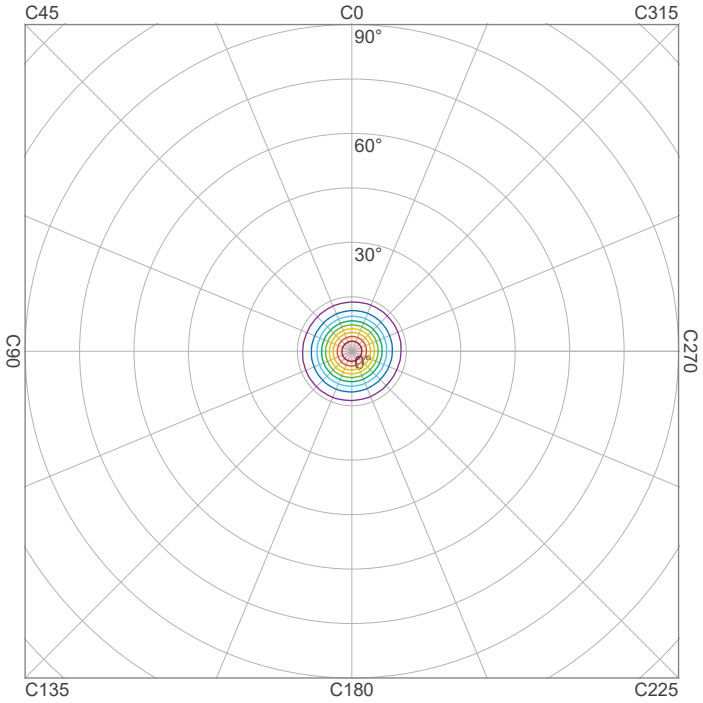
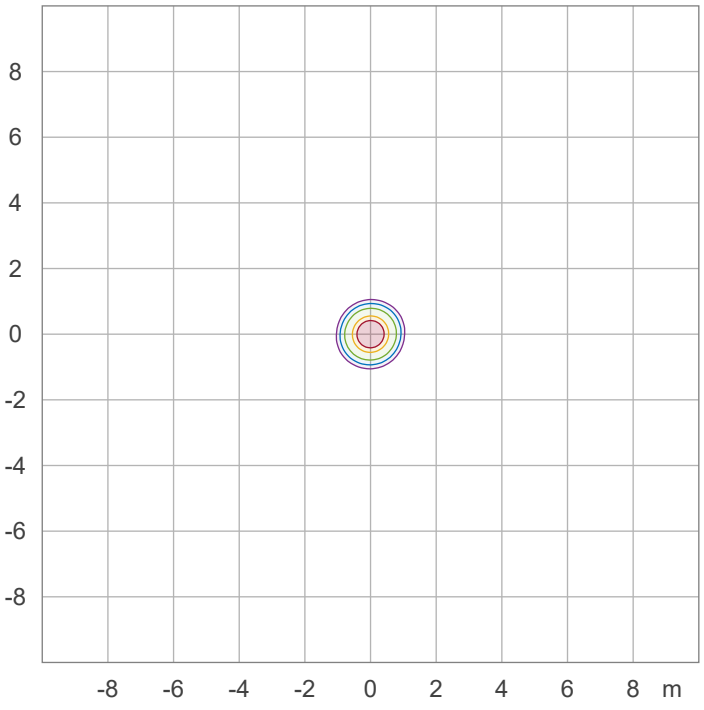
Iso-intensity Diagram (Iso-candela)



90 %	16675.5 cd
80 %	14822.7 cd
70 %	12969.9 cd
60 %	11117.0 cd
50 %	9264.2 cd
40 %	7411.4 cd
30 %	5558.5 cd
20 %	3705.7 cd
10 %	1852.8 cd

Peak intensity: 18528.4 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	1029 lx
30.0 %	618 lx
10.0 %	206 lx
5.0 %	103 lx
3.0 %	61.8 lx

Peak illuminance: 2059 lx
Mounting height: 3 m
Number of c-planes: 36

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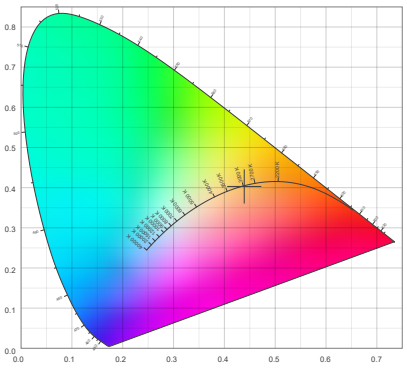
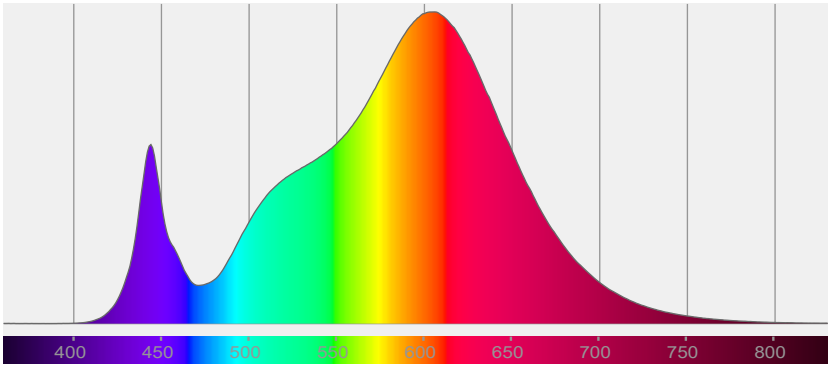
Color details

Correlated Color Temperature, Target	CCT = 2959 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2959 K	Color deviation from BBL	Duv = -0.0007
Color Rendering Index	CRI 82.6	Color coordinates CIE 1931	(x;y) = (0.4391;0.4030)
Color Rendering Index, R9 (red)	R9 = 3.5	Color coordinate CIEs 1960	(u;v) = (0.2524;0.3475)
Color Rendering TM30-18	Rf 83.3	Color coordinate CIEs 1976	(u';v') = (0.2524;0.5213)
	Rg 98.7	Color Quality Scale	CQS = 81.2

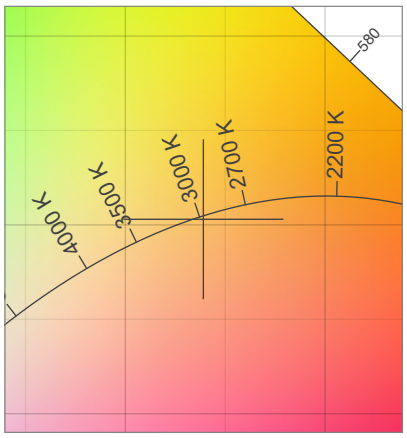
CIE 1931 Chromaticity diagram



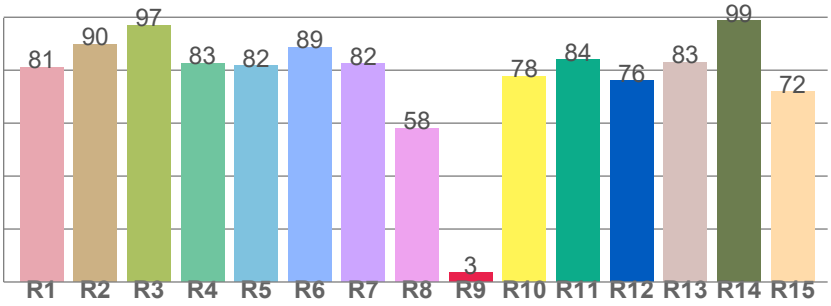
Spectral power distribution



CIE 1931 Chromaticity - zoomed



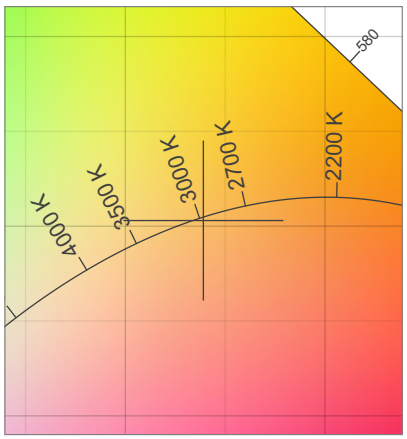
Color Rendering Index per reference color (CIE 1995)



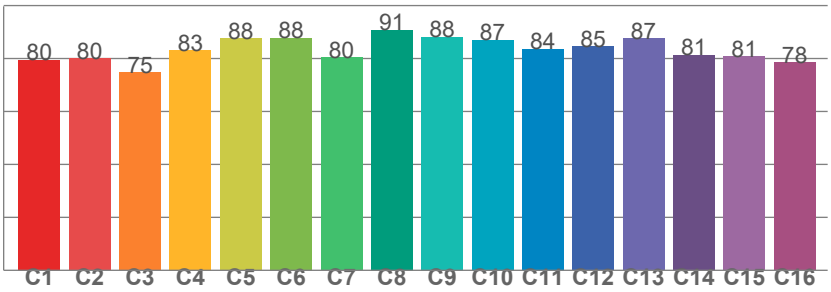
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.0	89.8	96.9	82.7	81.6	88.6	82.4	58.0	3.5	77.6	83.9	76.0	83.0	98.6	71.9

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
79.5	80.0	74.8	83.2	87.5	87.8	80.4	90.9	88.2	87.0	83.6	84.6	87.5	81.4	80.8	78.4

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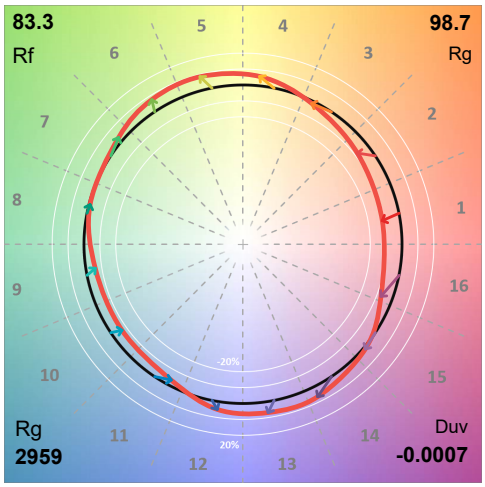
Color details - ANSI/IES TM-30-18 Color Rendition Report

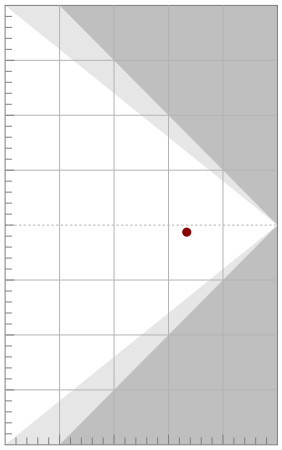
Color Vector Graphic



Color Distortion Graphic

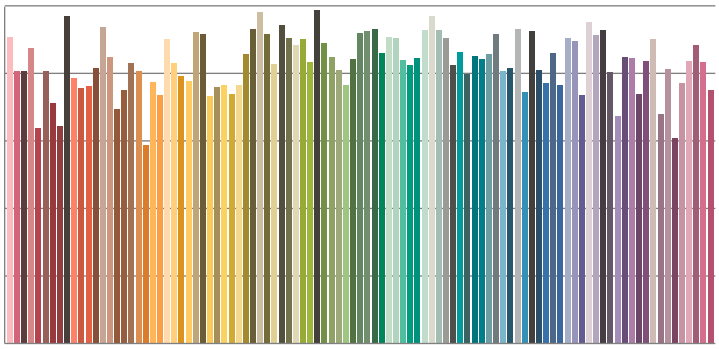
Gamut Index vs. Fidelity Index

Gamut index (Rg)



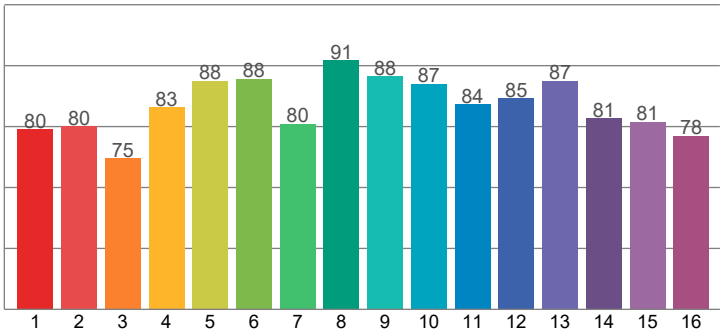
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



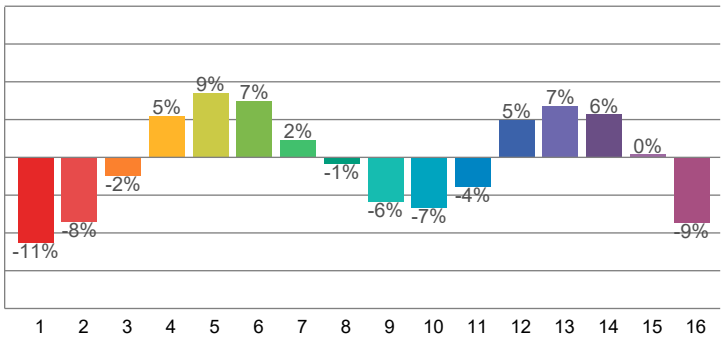
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4391
CIE y	0.4391
CIE u'	0.2524
CIE v'	0.5213

CIE	**13.3-1995**
Ra	82.6
R9	3.5

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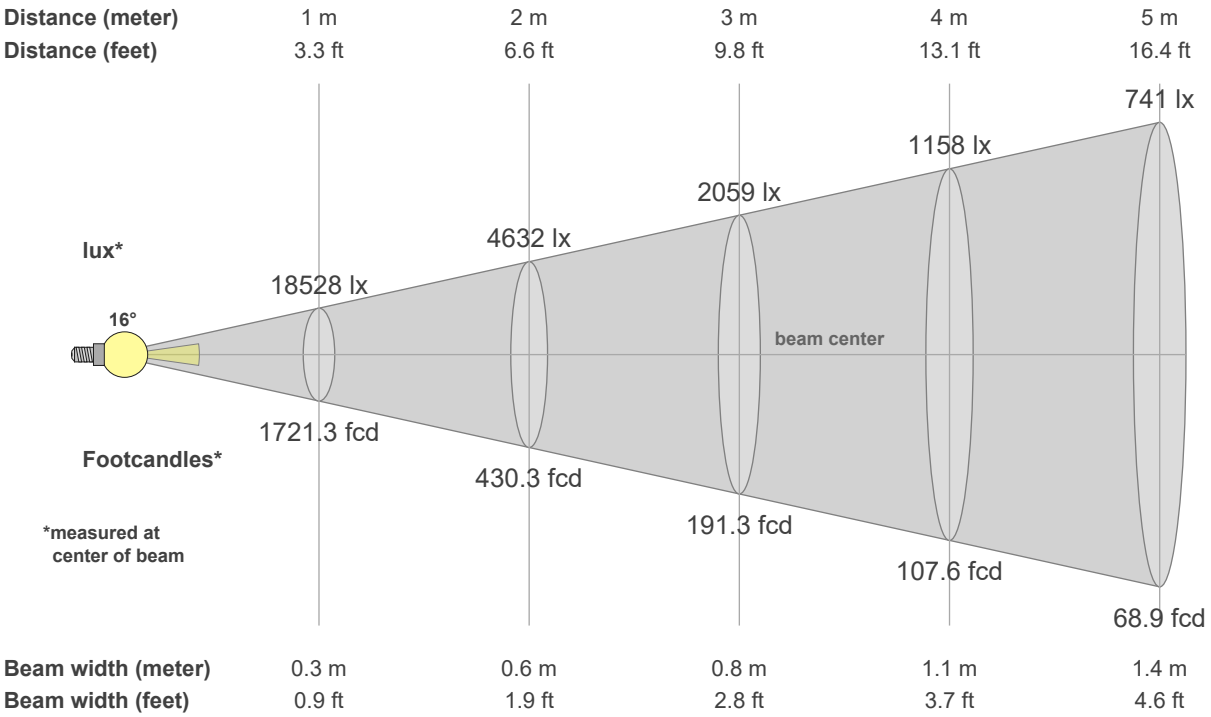
Beam details



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FL25-G2-XXX-3083-20L-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
18528	4632	2059	1158	741	515	378	290	229	185	153	129	110	95	82	72	64	57	51	46	lux
1721.3	430.3	191.3	107.6	68.9	47.8	35.1	26.9	21.3	17.2	14.2	12	10.2	8.8	7.7	6.7	6	5.3	4.8	4.3	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
18.5k	18.3k	17.7k	16.8k	15.6k	14.2k	12.6k	11.0k	9.4k	7.9k	6.5k	5.2k	4.1k	3.2k	2.5k	1.9k	1.5k	1.1k	0.9k	0.7k	cd
100%	99%	96%	91%	84%	76%	68%	59%	51%	43%	35%	28%	22%	17%	13%	10%	8%	6%	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
18.5k	18.3k	17.6k	16.7k	15.5k	14.0k	12.5k	10.9k	9.3k	7.8k	6.4k	5.1k	4.1k	3.2k	2.5k	1.9k	1.4k	1.1k	0.9k	0.7k	cd
100%	99%	95%	90%	83%	76%	67%	59%	50%	42%	34%	28%	22%	17%	13%	10%	8%	6%	5%	4%	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
18.5k	18.3k	17.7k	16.8k	15.6k	14.2k	12.6k	11.0k	9.4k	7.9k	6.5k	5.2k	4.1k	3.2k	2.5k	1.9k	1.5k	1.1k	0.9k	0.7k	cd
100%	99%	96%	91%	84%	76%	68%	59%	51%	43%	35%	28%	22%	17%	13%	10%	8%	6%	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
18.5k	18.3k	17.6k	16.7k	15.5k	14.0k	12.5k	10.9k	9.3k	7.8k	6.4k	5.1k	4.1k	3.2k	2.5k	1.9k	1.4k	1.1k	0.9k	0.7k	cd
100%	99%	95%	90%	83%	76%	67%	59%	50%	42%	34%	28%	22%	17%	13%	10%	8%	6%	5%	4%	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

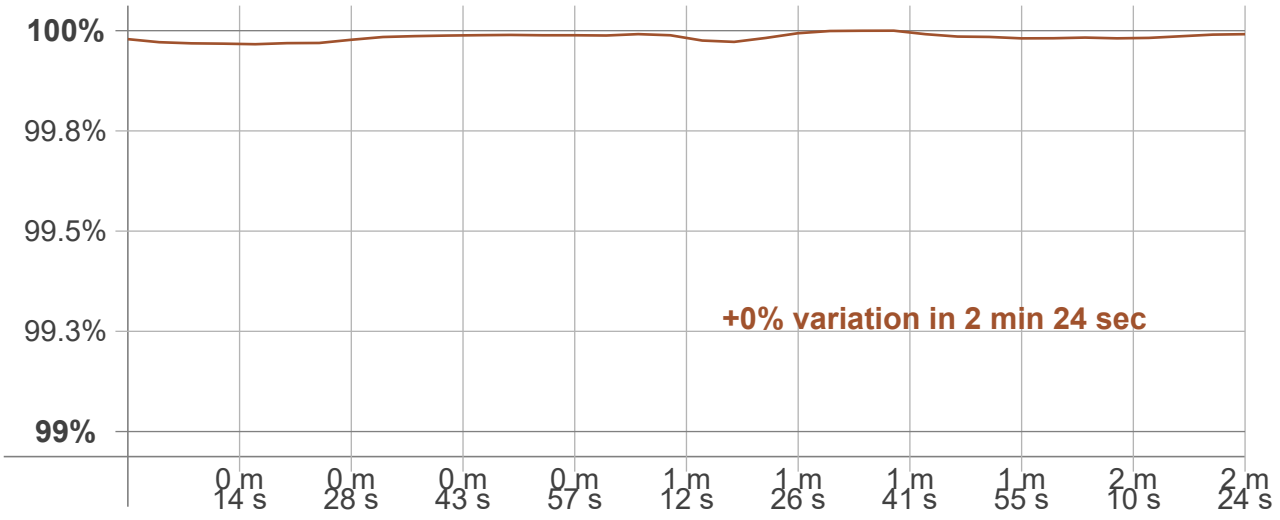
Efficiency

Radiated power efficiency	20.75
Lumen efficiency	69.08 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2958 K
Stable change max	2%	CCT shift	1 K
Minimum time	15 min	CCT end	2959 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	1819 lm
Warmup variation	0.0397%	Output change	0.2088 lm
		Output end	1819 lm

Stabilization Curve



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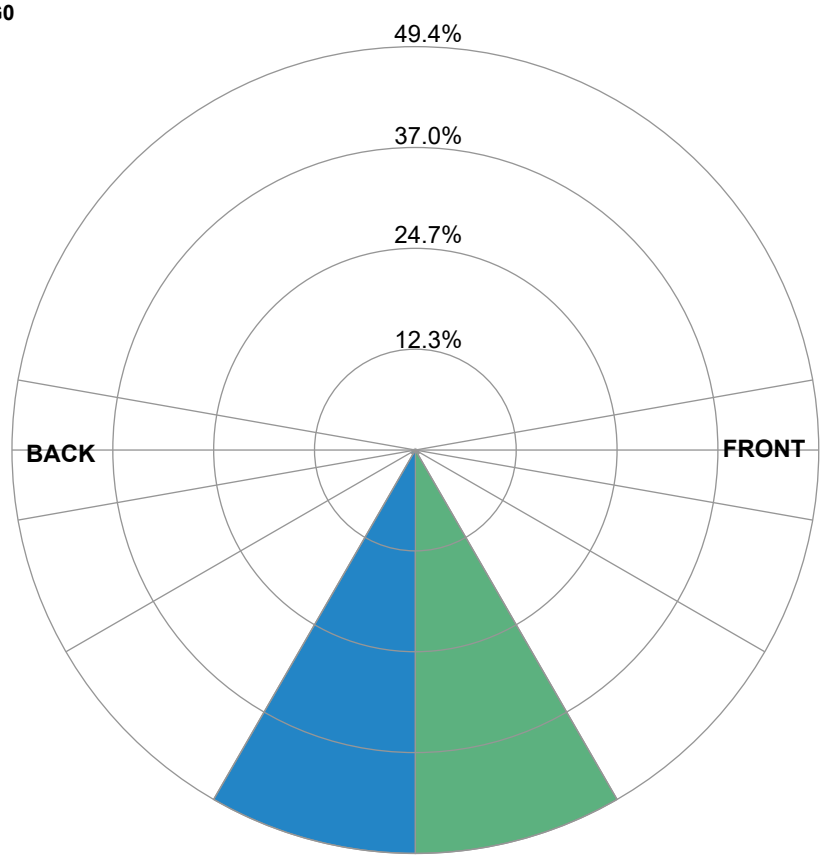
IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	898	lm	49.4%
Medium (30-60°)	11.0	lm	0.604%
High (60-80°)	0	lm	0%
Very High (80-90°)	0	lm	0%
Back Light			
Low (0-30°)	898	lm	49.4%
Medium (30-60°)	11.0	lm	0.604%
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	1819	lm	100%

BUG RATING B2 U0 G0