Photometric Test Report

FL25-G2-XXX-3083-40-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.20-7969-VO
Measurement date	2026-04-20

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.50°
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

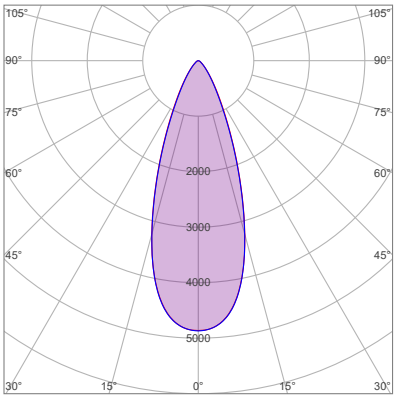
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-40-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

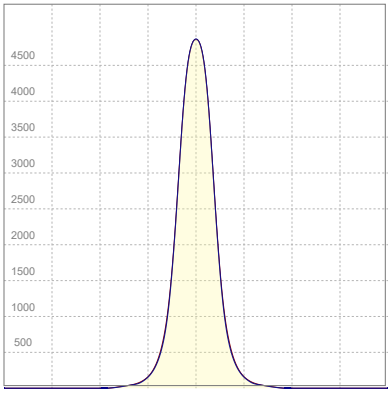
Output – Total Lumen (Up% / Down%)	2416 lm – 0%% / 100%%
Efficiency	91.78 lm/W
Peak Intensity	4865 cd
Correlated Color Temperature, CCT	2973 K
Color Rendering Index	CRI 82.8
Beam Angle (FWHM) | C0/180	37.1°
Beam Angle (FWHM) | C90/270	36.9°
Field Angle (10%) | C0/180	67.7°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	66.6°
Optical Power	7274 mW
Peak Wavelength	606 nm
Dominant Wavelength	584 nm

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

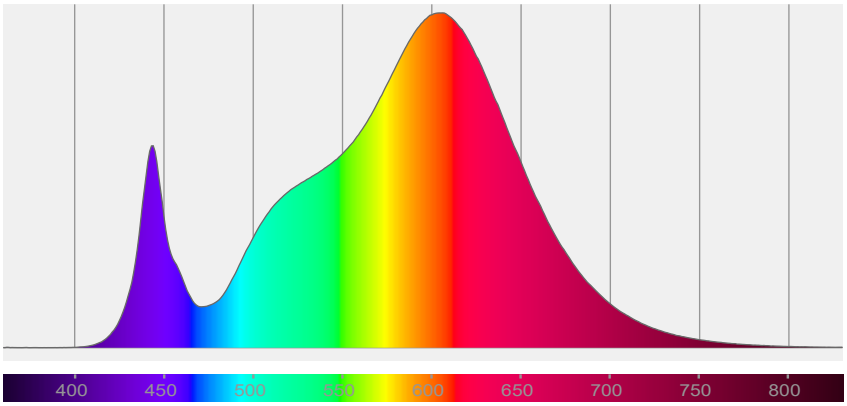


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

2973 K

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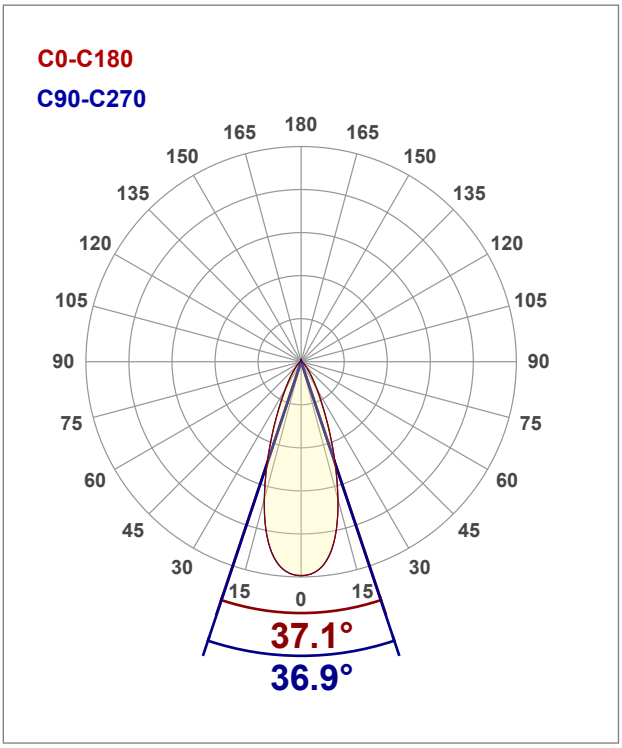
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2416 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	4865 cd
Beam Angle (50%-FWHM)	37.2°

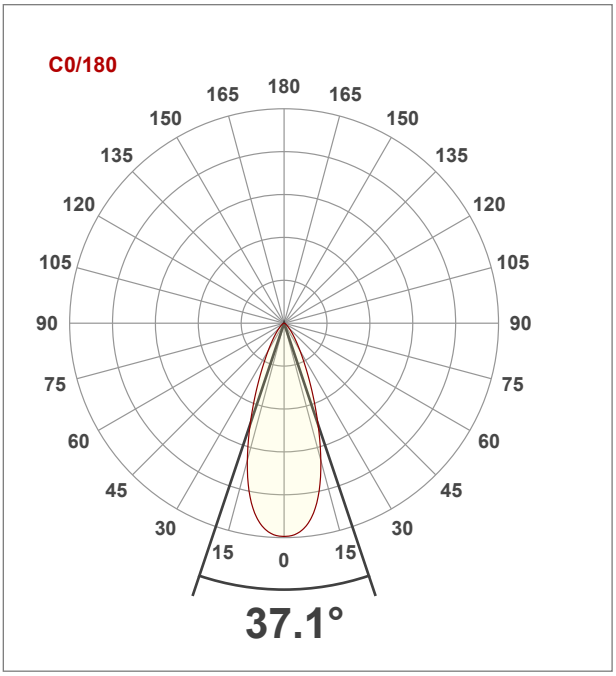
EU Ecodesign parameters

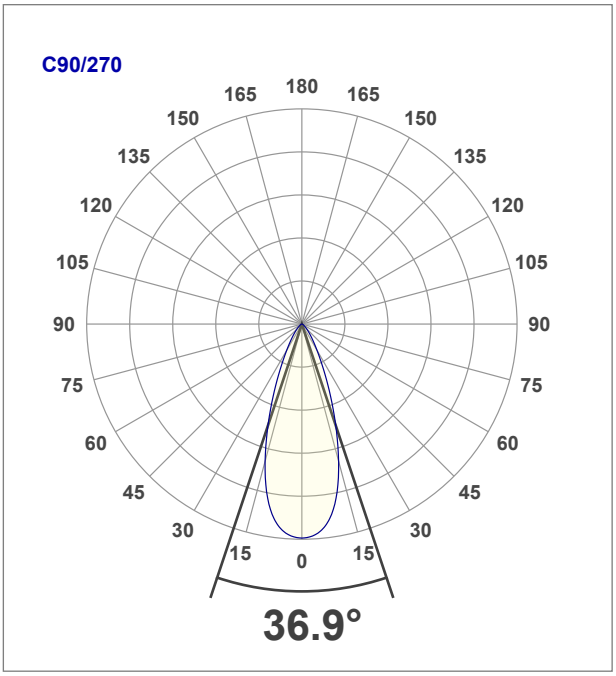
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2255 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	98.01%
In 90° cone	93.3%

Angular Distribution





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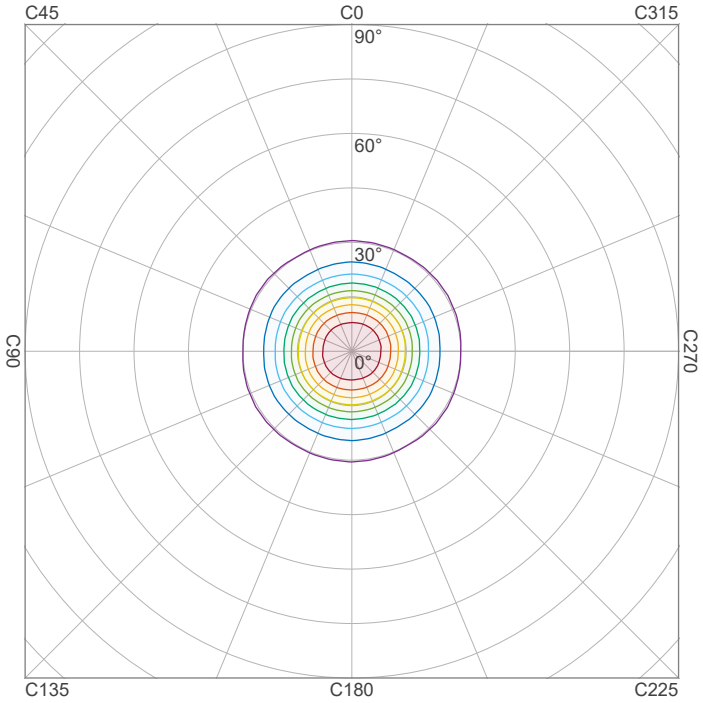
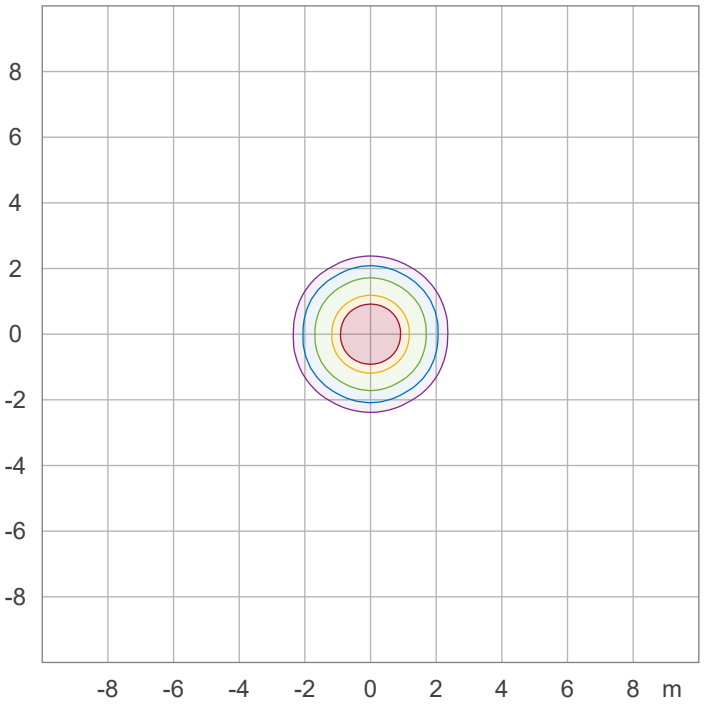
Iso-intensity Diagram (Iso-candela)



90 %	4375.1 cd
80 %	3889.0 cd
70 %	3402.9 cd
60 %	2916.8 cd
50 %	2430.6 cd
40 %	1944.5 cd
30 %	1458.4 cd
20 %	972.3 cd
10 %	486.1 cd

Peak intensity: 4861.3 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	270 lx
30.0 %	162 lx
10.0 %	54 lx
5.0 %	27 lx
3.0 %	16.2 lx

Peak illuminance: 540 lx
Mounting height: 3 m
Number of c-planes: 36

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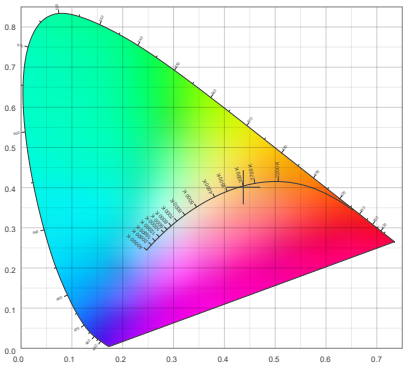
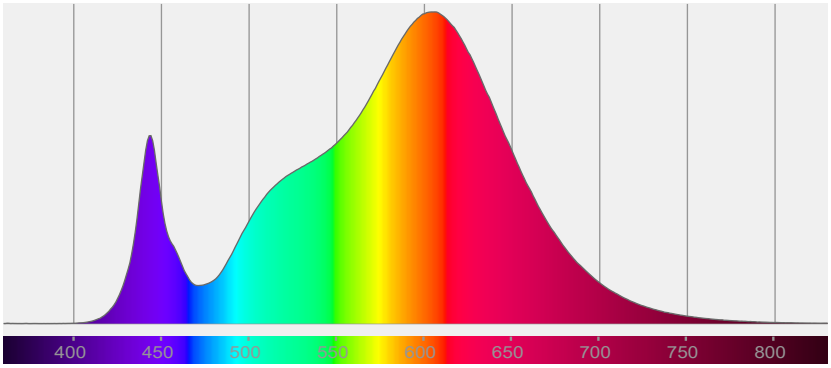
Color details

Correlated Color Temperature, Target	CCT = 2973 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2973 K	Color deviation from BBL	Duv = -0.0013
Color Rendering Index	CRI 82.8	Color coordinates CIE 1931	(x;y) = (0.4372;0.4010)
Color Rendering Index, R9 (red)	R9 = 4.4	Color coordinate CIEs 1960	(u;v) = (0.2521;0.3468)
Color Rendering TM30-18	Rf 83.1	Color coordinate CIEs 1976	(u';v') = (0.2521;0.5202)
	Rg 99.1	Color Quality Scale	CQS = 81.2

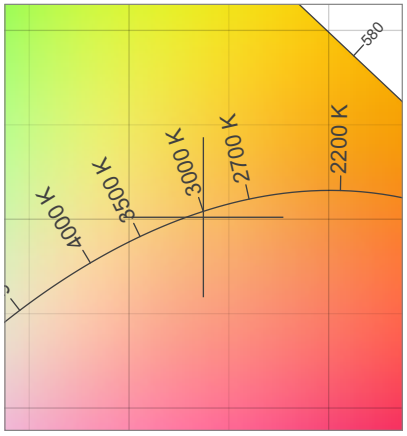
CIE 1931 Chromaticity diagram



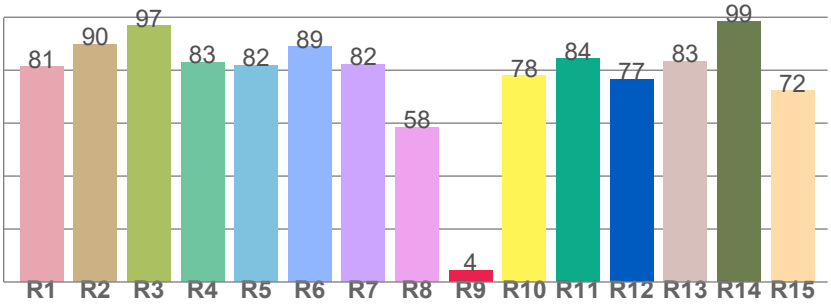
Spectral power distribution



CIE 1931 Chromaticity - zoomed



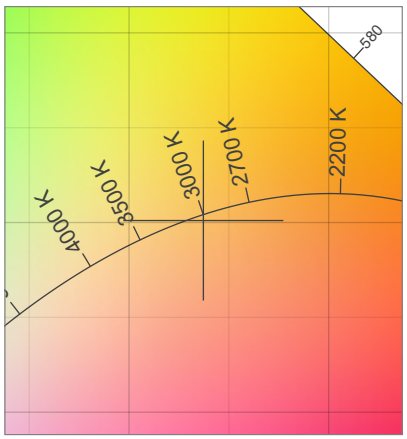
Color Rendering Index per reference color (CIE 1995)



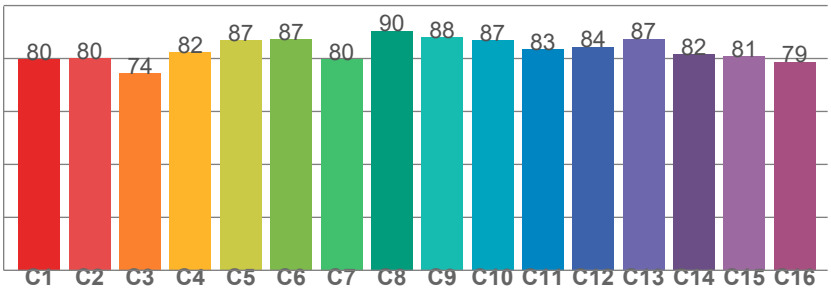
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.3	89.9	96.8	83.0	82.0	88.8	82.3	58.4	4.4	77.9	84.3	76.6	83.3	98.6	72.3

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
79.7	80.0	74.4	82.4	86.9	87.1	79.8	90.4	88.0	86.9	83.5	84.4	87.5	81.6	80.7	78.7

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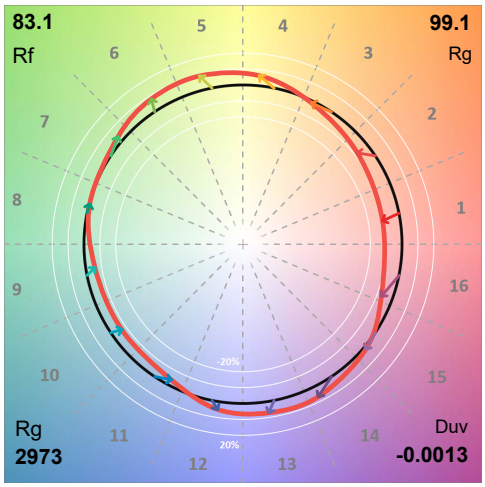
Color details - ANSI/IES TM-30-18 Color Rendition Report

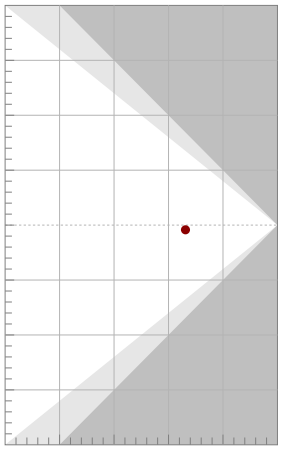
Color Vector Graphic



Color Distortion Graphic

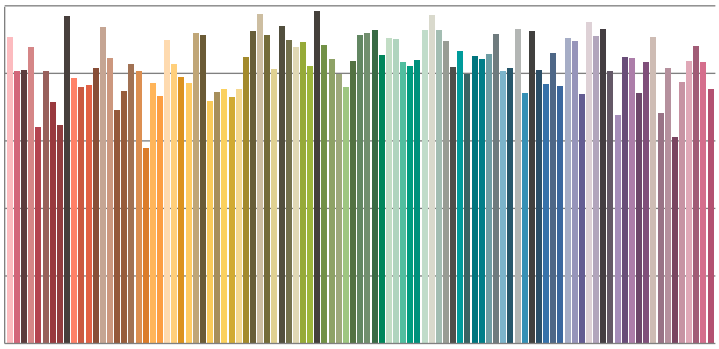
Gamut Index vs. Fidelity Index

Gamut index (Rg)



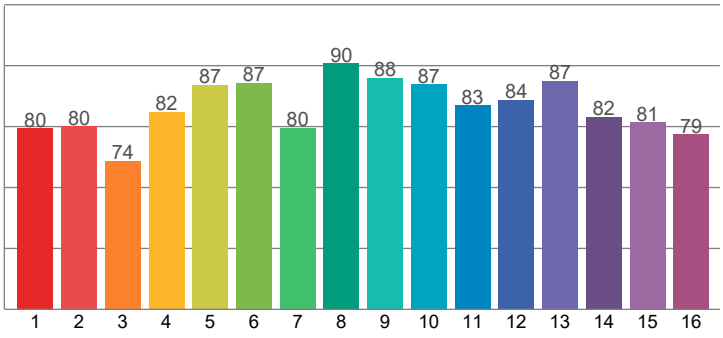
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



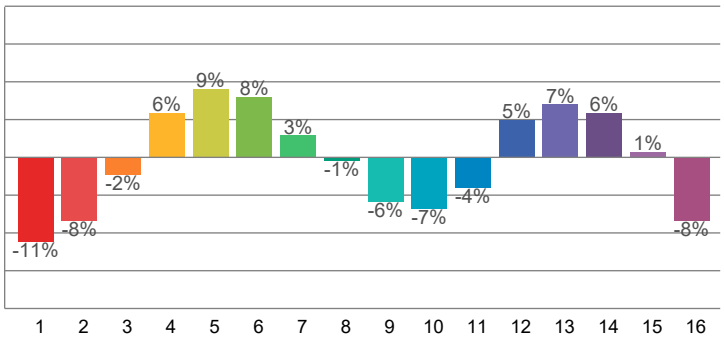
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4372
CIE y	0.4372
CIE u'	0.2521
CIE v'	0.5202

CIE	**13.3-1995**
Ra	82.8
R9	4.4

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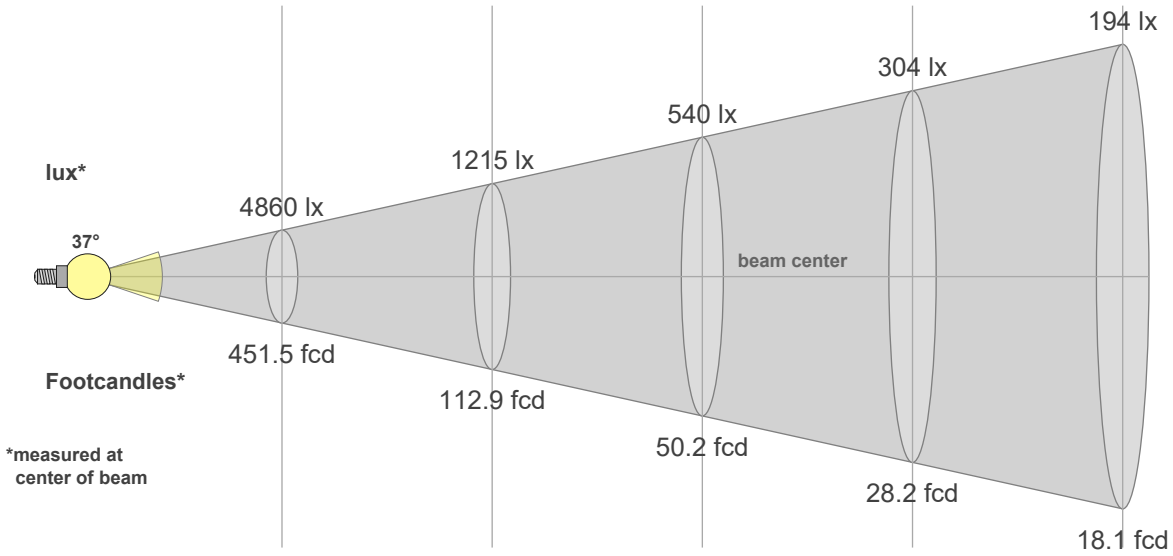
Beam details

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)	0.7 m	1.3 m	2 m	2.7 m	3.4 m
Beam width (feet)	2.2 ft	4.4 ft	6.6 ft	8.8 ft	11.1 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
4860	1215	540	304	194	135	99	76	60	49	40	34	29	25	22	19	17	15	13	12	lux
451.5	112.9	50.2	28.2	18.1	12.5	9.2	7.1	5.6	4.5	3.7	3.1	2.7	2.3	2	1.8	1.6	1.4	1.3	1.1	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
4860	4846	4781	4661	4476	4207	3864	3457	3007	2553	2120	1737	1403	1124	904	731	589	480	390	317	cd
100%	100%	98%	96%	92%	87%	80%	71%	62%	53%	44%	36%	29%	23%	19%	15%	12%	10%	8%	7%	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
4860	4847	4784	4667	4485	4216	3867	3453	2996	2538	2102	1710	1370	1084	863	692	557	453	370	302	cd
100%	100%	98%	96%	92%	87%	80%	71%	62%	52%	43%	35%	28%	22%	18%	14%	11%	9%	8%	6%	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
4860	4846	4781	4661	4476	4207	3864	3457	3007	2553	2120	1737	1403	1124	904	731	589	480	390	317	cd
100%	100%	98%	96%	92%	87%	80%	71%	62%	53%	44%	36%	29%	23%	19%	15%	12%	10%	8%	7%	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
4860	4847	4784	4667	4485	4216	3867	3453	2996	2538	2102	1710	1370	1084	863	692	557	453	370	302	cd
100%	100%	98%	96%	92%	87%	80%	71%	62%	52%	43%	35%	28%	22%	18%	14%	11%	9%	8%	6%	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

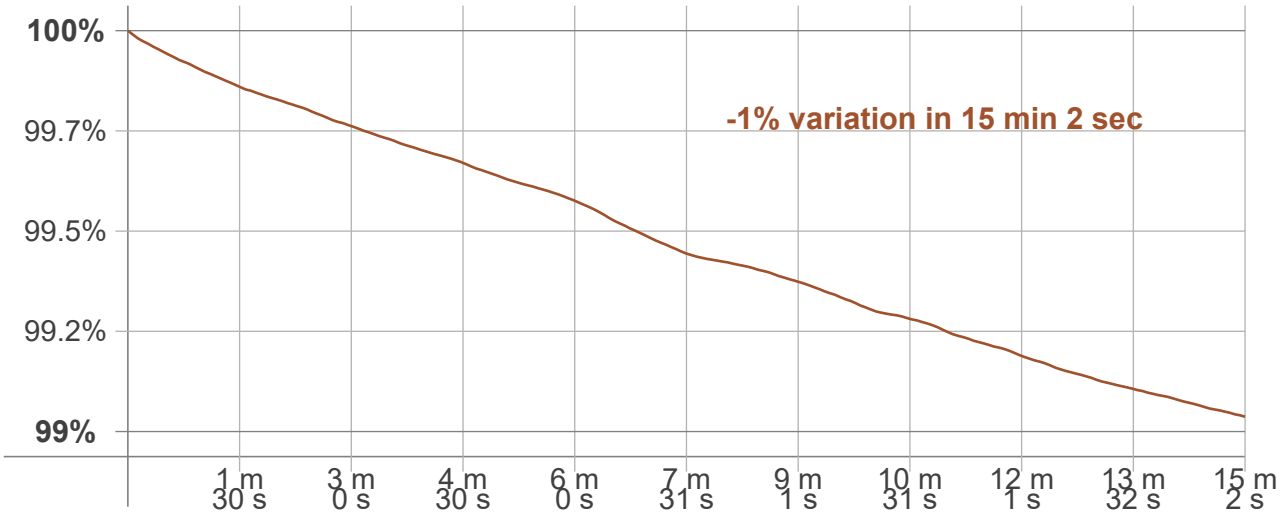
Efficiency

Radiated power efficiency	27.63
Lumen efficiency	91.78 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2970 K
Stable change max	2%	CCT shift	3 K
Minimum time	15 min	CCT end	2973 K
Warmup Result		**Output Change**	
Total warmup time	Lamp stabilized in	Output start	2441 lm
Warmup variation	-1.0132%	Output change	-24.039 lm
		Output end	2416 lm

Stabilization Curve



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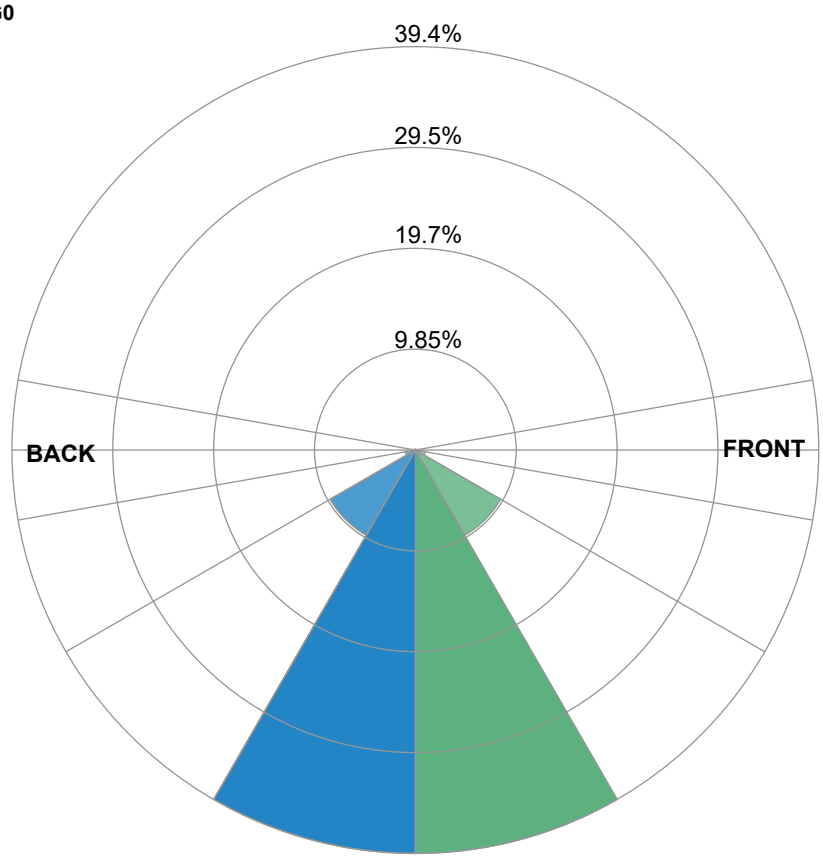
FL25-G2-XXX-3083-40-INF-XXXXX-X

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

Forward Light			
Low (0-30°)	952	lm	39.4%
Medium (30-60°)	232	lm	9.62%
High (60-80°)	23.8	lm	0.984%
Very High (80-90°)	0.374	lm	0.0155%
Back Light			
Low (0-30°)	952	lm	39.4%
Medium (30-60°)	232	lm	9.62%
High (60-80°)	23.8	lm	0.984%
Very High (80-90°)	0.374	lm	0.0155%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2416	lm	100%

BUG RATING B2 U0 G0