Photometric Test Report

FL25-G2-XXX-3083-30-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.21-8024-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

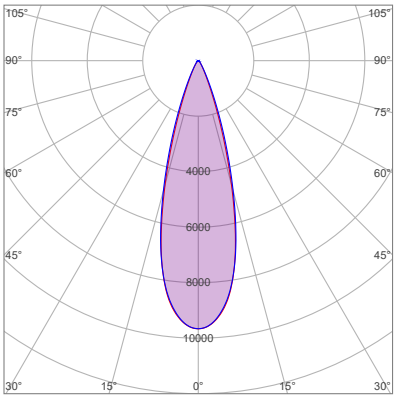
Tested Light Source

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

Main Light Measurement Results

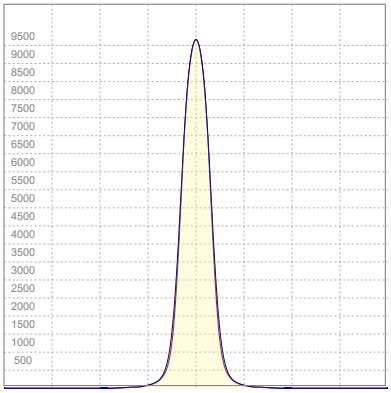
Output – Total Lumen (Up% / Down%)	2790 lm – 0%% / 100%%
Efficiency	106 lm/W
Peak Intensity	9675 cd
Correlated Color Temperature, CCT	2973 K
Color Rendering Index	CRI 82.8
Beam Angle (FWHM) | C0/180	29.3°
Beam Angle (FWHM) | C90/270	30.1°
Field Angle (10%) | C0/180	48.0°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	50.5°
Optical Power	8380 mW
Peak Wavelength	606 nm
Dominant Wavelength	584 nm

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

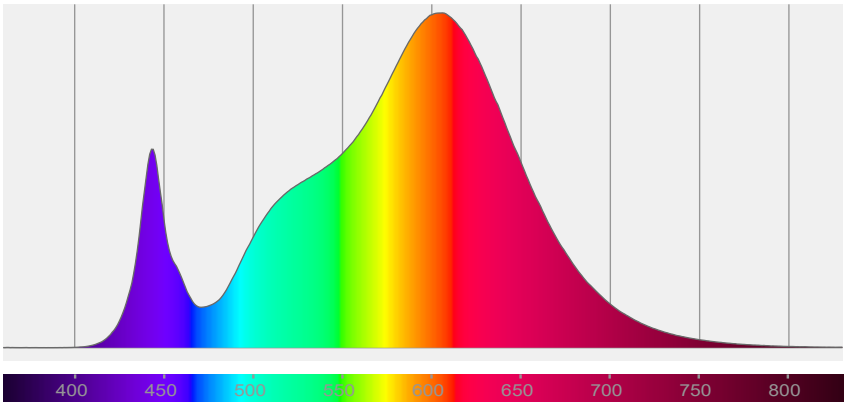


C0 - C180 η = 100%
C90 - C270

Linear distribution Diagram



Spectral Distribution



Color Temperature

2973 K

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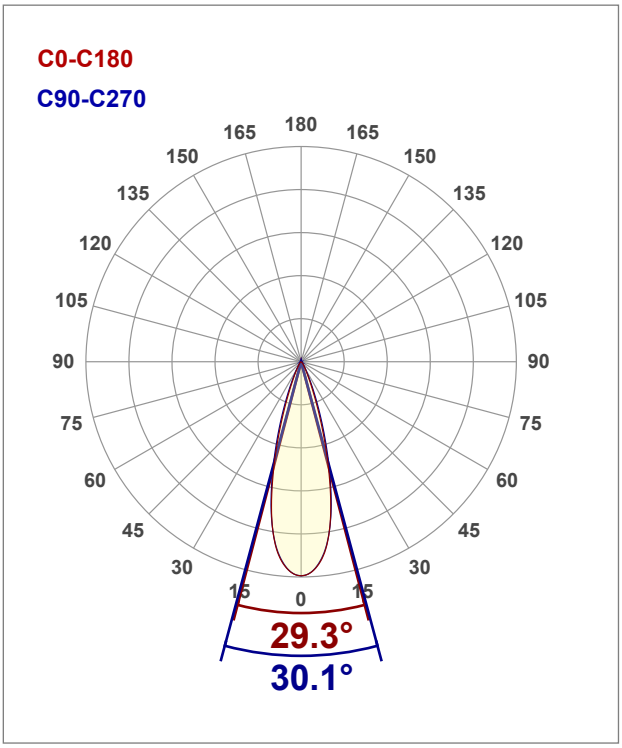
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2790 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	9675 cd
Beam Angle (50%-FWHM)	29.6°

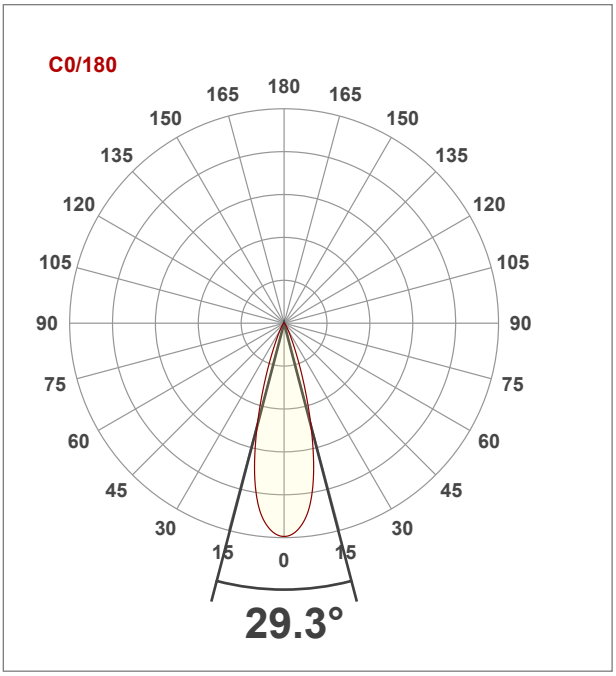
EU Ecodesign parameters

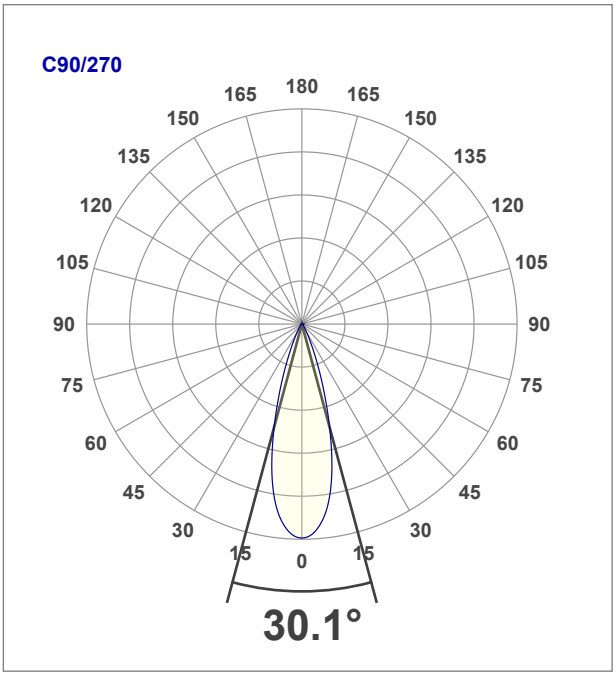
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2710 lm
Ecodesign Energy Class	E

Intensity Ratio

In 120° cone	99.15%
In 90° cone	97.13%

Angular Distribution





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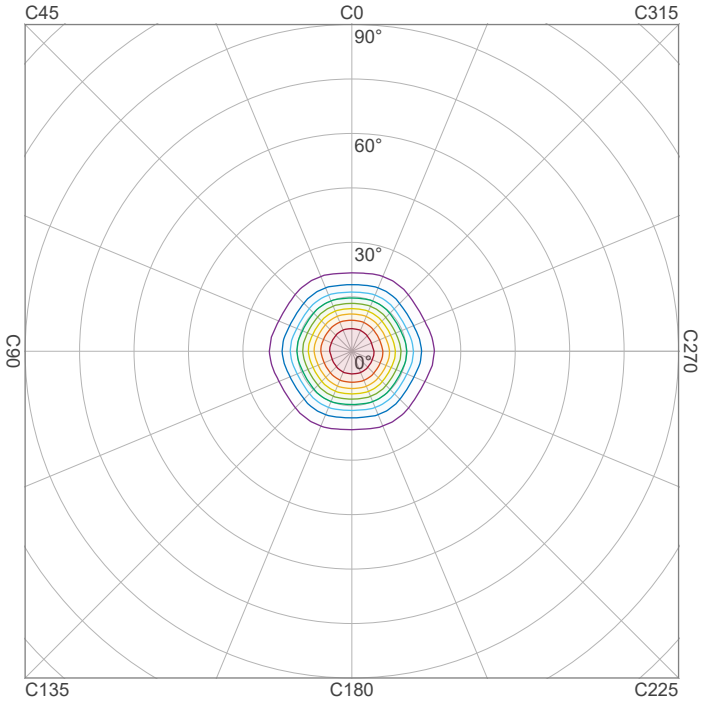
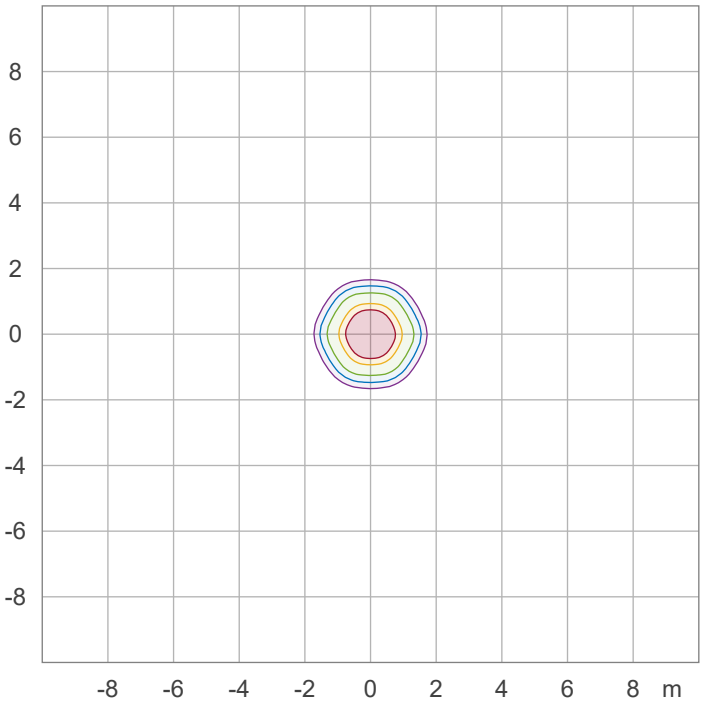
Iso-intensity Diagram (Iso-candela)



90 %	8689.0 cd
80 %	7723.6 cd
70 %	6758.1 cd
60 %	5792.7 cd
50 %	4827.2 cd
40 %	3861.8 cd
30 %	2896.3 cd
20 %	1930.9 cd
10 %	965.4 cd

Peak intensity: 9654.5 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	536 lx
30.0 %	322 lx
10.0 %	107 lx
5.0 %	53.6 lx
3.0 %	32.2 lx

Peak illuminance: 1073 lx
Mounting height: 3 m
Number of c-planes: 36

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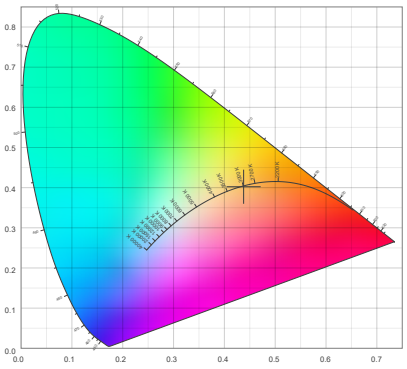
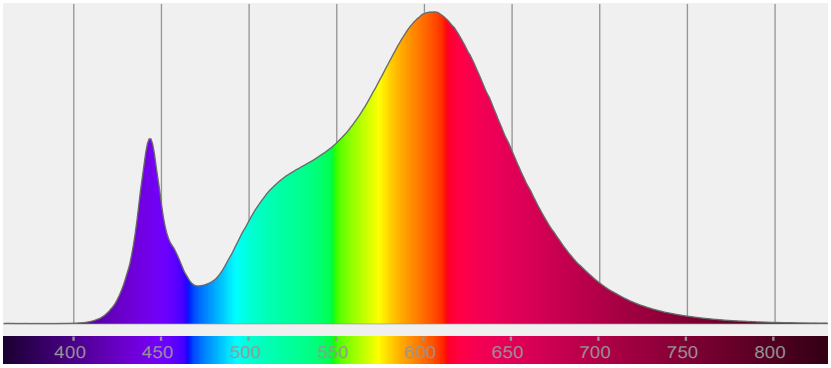
Color details

Correlated Color Temperature, Target	CCT = 2973 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2973 K	Color deviation from BBL	Duv = -0.0008
Color Rendering Index	CRI 82.8	Color coordinates CIE 1931	(x;y) = (0.4379;0.4023)
Color Rendering Index, R9 (red)	R9 = 4.1	Color coordinate CIEs 1960	(u;v) = (0.2519;0.3472)
Color Rendering TM30-18	Rf 83.3	Color coordinate CIEs 1976	(u';v') = (0.2519;0.5208)
	Rg 99.0	Color Quality Scale	CQS = 81.3

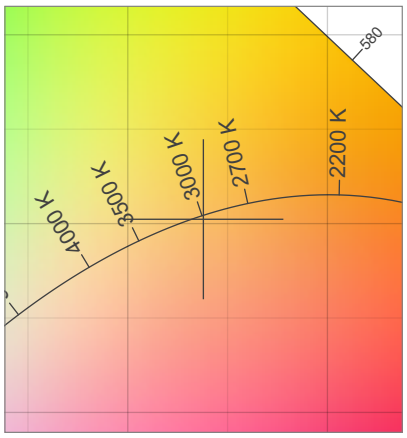
CIE 1931 Chromaticity diagram



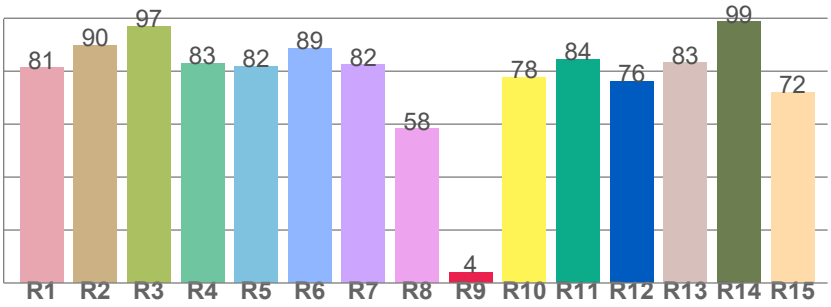
Spectral power distribution



CIE 1931 Chromaticity - zoomed



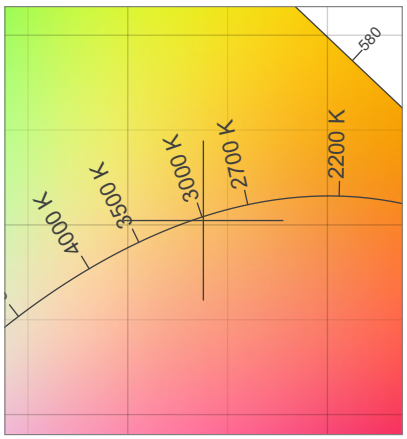
Color Rendering Index per reference color (CIE 1995)



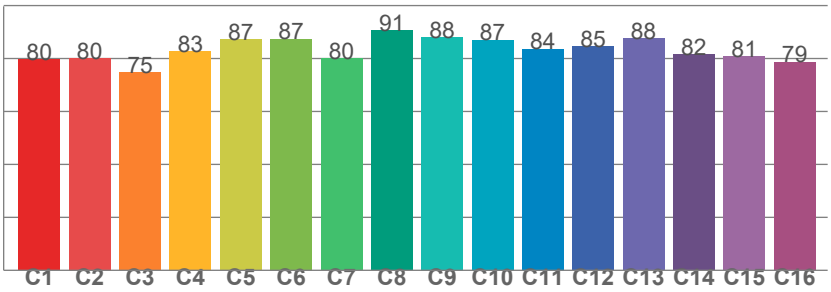
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.3	89.8	96.9	83.0	81.9	88.7	82.5	58.3	4.1	77.7	84.4	76.3	83.2	98.6	72.1

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	80.2	74.8	82.8	87.1	87.5	80.0	90.6	88.1	87.0	83.7	84.5	87.5	81.6	80.8	78.7

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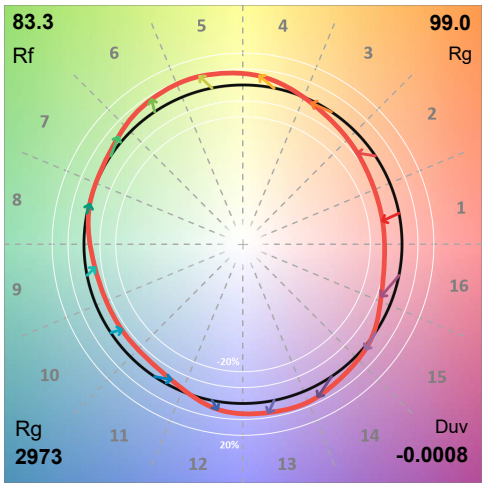
Color details - ANSI/IES TM-30-18 Color Rendition Report

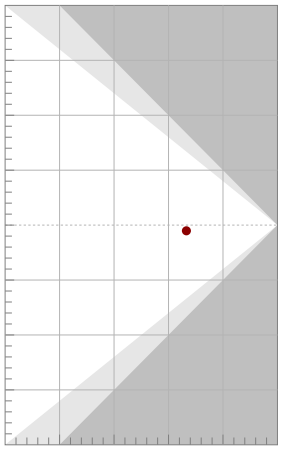
Color Vector Graphic



Color Distortion Graphic

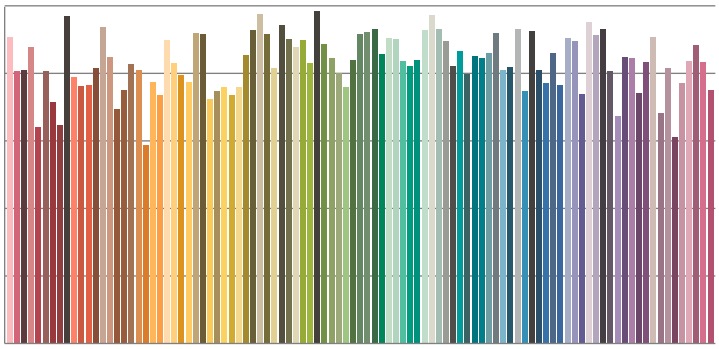
Gamut Index vs. Fidelity Index

Gamut index (Rg)



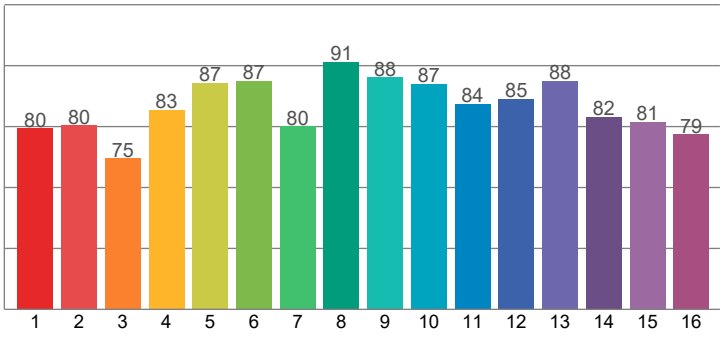
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



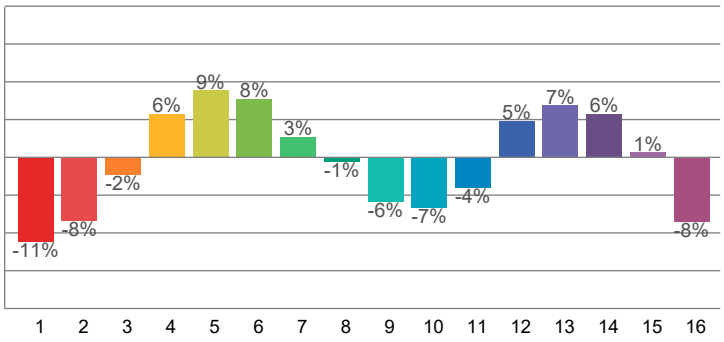
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4379
CIE y	0.4379
CIE u'	0.2519
CIE v'	0.5208

CIE	**13.3-1995**
Ra	82.8
R9	4.1

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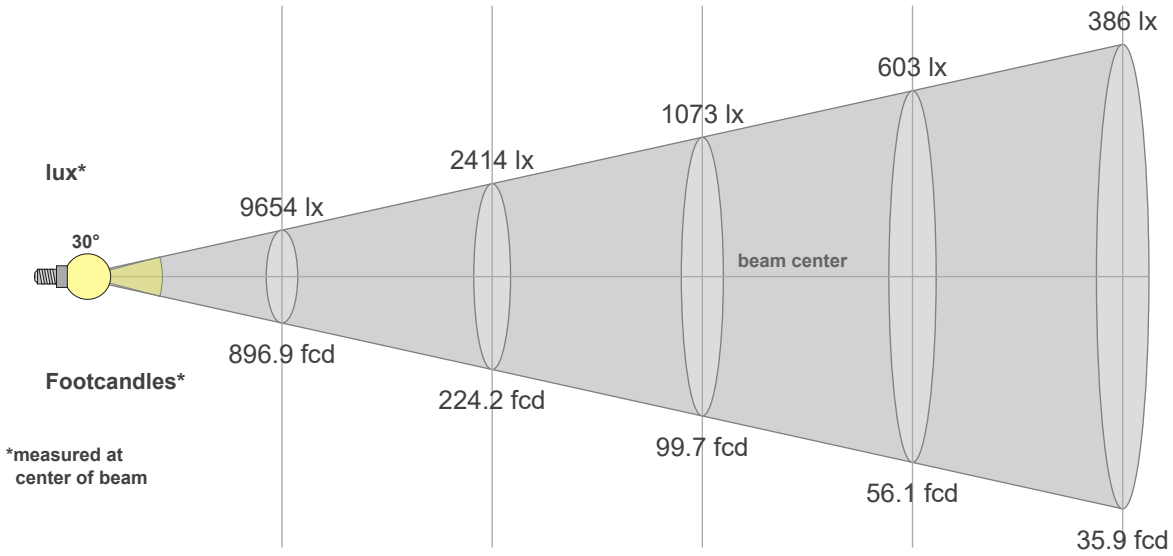
Beam details

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)	0.5 m	1.1 m	1.6 m	2.1 m	2.6 m
Beam width (feet)	1.7 ft	3.5 ft	5.2 ft	6.9 ft	8.7 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
9654	2414	1073	603	386	268	197	151	119	97	80	67	57	49	43	38	33	30	27	24	lux
896.9	224.2	99.7	56.1	35.9	24.9	18.3	14	11.1	9	7.4	6.2	5.3	4.6	4	3.5	3.1	2.8	2.5	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
9654	9579	9341	8942	8340	7492	6424	5219	4029	2947	2065	1409	967	680	496	373	289	228	183	149	cd
100%	99%	97%	93%	86%	78%	67%	54%	42%	31%	21%	15%	10%	7%	5%	4%	3%	2%	2%	2%	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
9654	9573	9318	8900	8307	7508	6523	5413	4301	3282	2417	1721	1208	844	600	435	325	250	199	162	cd
100%	99%	97%	92%	86%	78%	68%	56%	45%	34%	25%	18%	13%	9%	6%	5%	3%	3%	2%	2%	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
9654	9579	9341	8942	8340	7492	6424	5219	4029	2947	2065	1409	967	680	496	373	289	228	183	149	cd
100%	99%	97%	93%	86%	78%	67%	54%	42%	31%	21%	15%	10%	7%	5%	4%	3%	2%	2%	2%	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
9654	9573	9318	8900	8307	7508	6523	5413	4301	3282	2417	1721	1208	844	600	435	325	250	199	162	cd
100%	99%	97%	92%	86%	78%	68%	56%	45%	34%	25%	18%	13%	9%	6%	5%	3%	3%	2%	2%	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

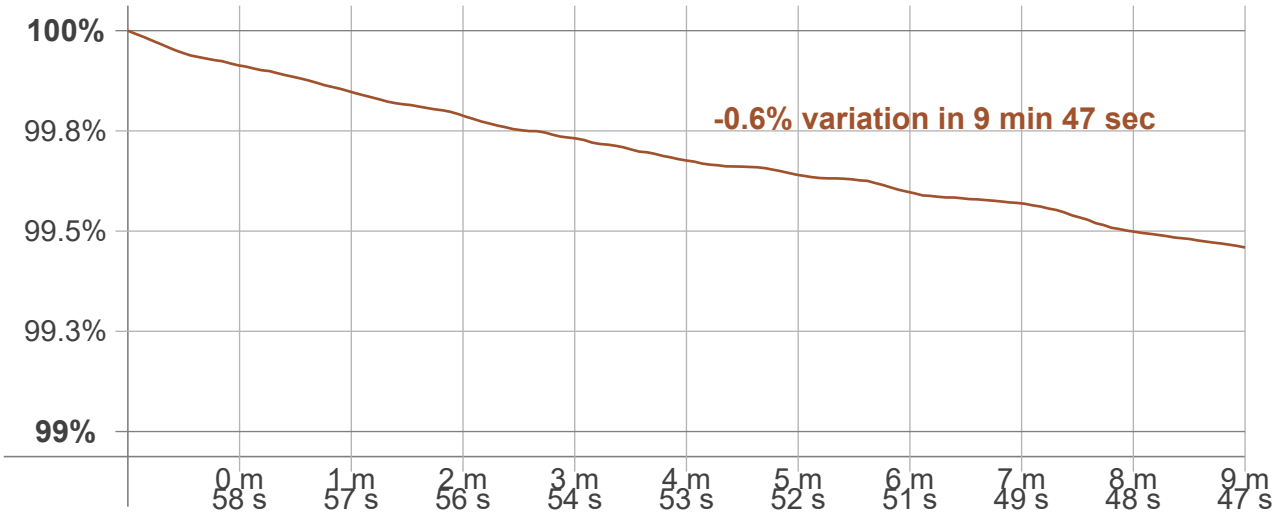
Efficiency

Radiated power efficiency	31.82
Lumen efficiency	106 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2971 K
Stable change max	2%	CCT shift	2 K
Minimum time	15 min	CCT end	2973 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	2805 lm
Warmup variation	-0.5527%	Output change	-14.913 lm
		Output end	2790 lm

Stabilization Curve



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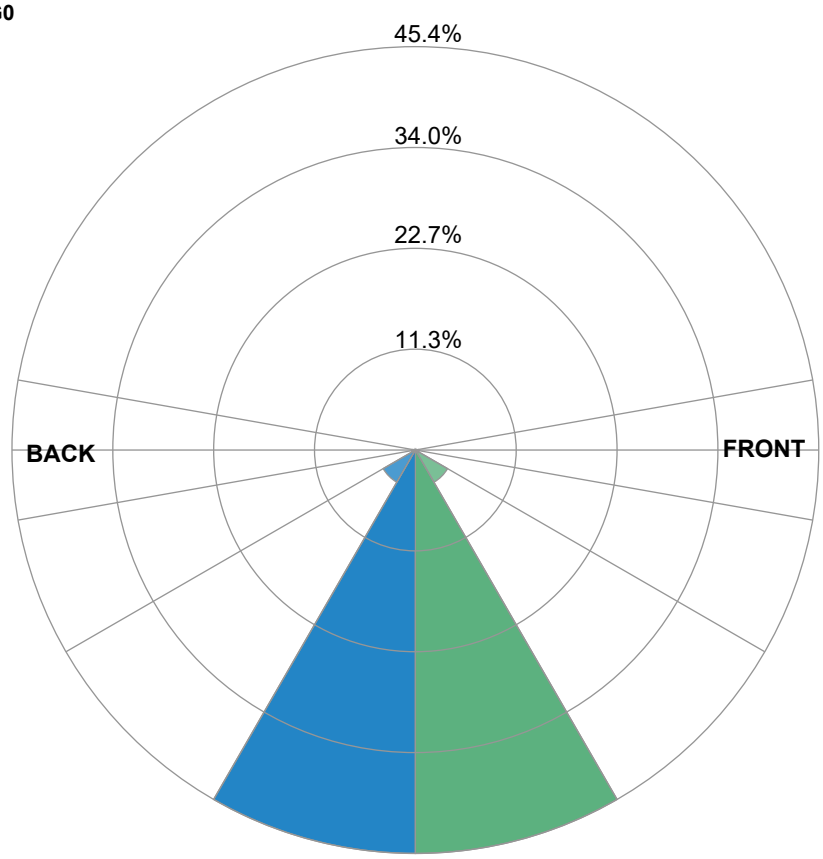
IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	1270	lm	45.4%
Medium (30-60°)	117	lm	4.18%
High (60-80°)	11.9	lm	0.427%
Very High (80-90°)	0.0142	lm	0.000510%
Back Light			
Low (0-30°)	1270	lm	45.4%
Medium (30-60°)	117	lm	4.18%
High (60-80°)	11.9	lm	0.427%
Very High (80-90°)	0.0142	lm	0.000510%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2790	lm	100%

BUG RATING B3 U0 G0