Photometric Test Report

FL25-G2-XXX-3083-6010-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.14-7875-VO
Measurement date	2026-04-14

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

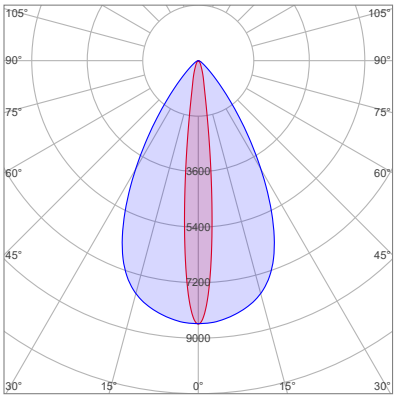
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-6010-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

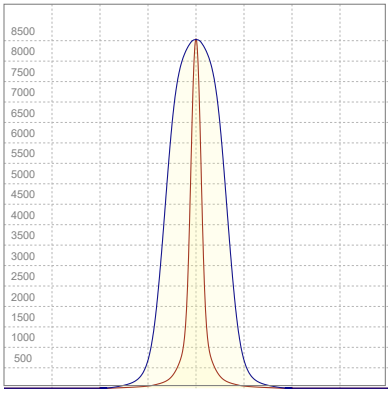
Main Light Measurement Results

Output – Total Lumen (Up% / Down%)	2466 lm – 0.0019%% / 100%%
Efficiency	93.64 lm/W
Peak Intensity	8538 cd
Correlated Color Temperature, CCT	2926 K
Color Rendering Index	CRI 82.3
Beam Angle (FWHM) | C0/180	11.7°
Beam Angle (FWHM) | C90/270	58.8°
Field Angle (10%) | C0/180	26.0°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	86.8°
Optical Power	7400 mW
Peak Wavelength	604 nm
Dominant Wavelength	584 nm

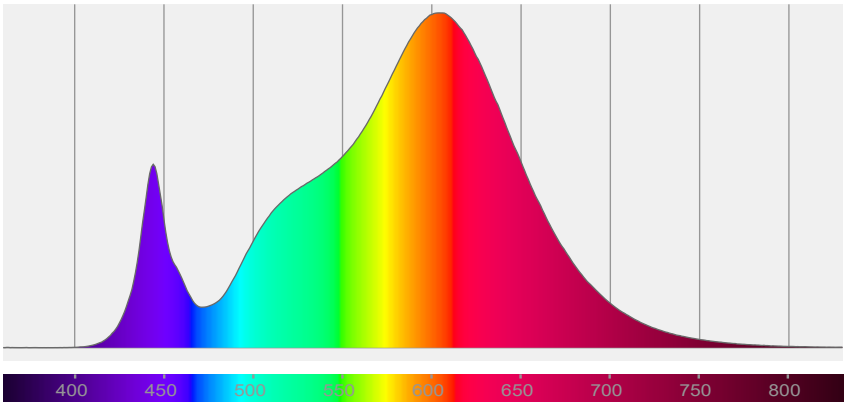
Polar Light Distribution Diagram
Unit: 0-100% of peak intensity



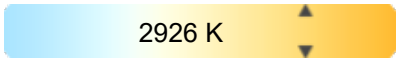
Linear distribution Diagram



Spectral Distribution



Color Temperature



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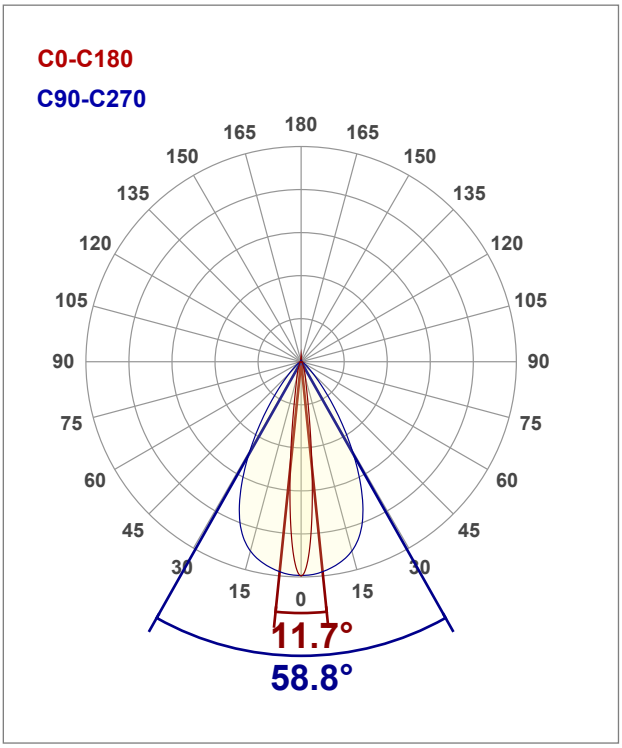
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2466 lm
Lumen Up% / Down%	0.0019% / 100%
Peak Intensity	8538 cd
Beam Angle (50%-FWHM)	23.5°

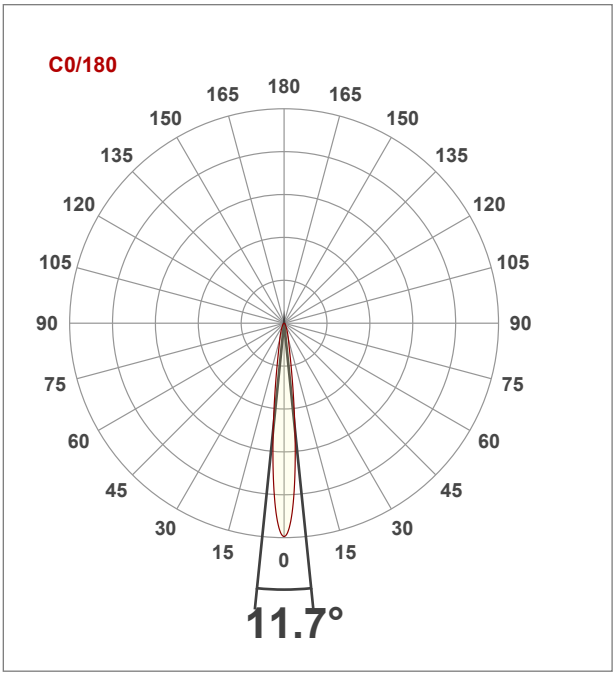
EU Ecodesign parameters

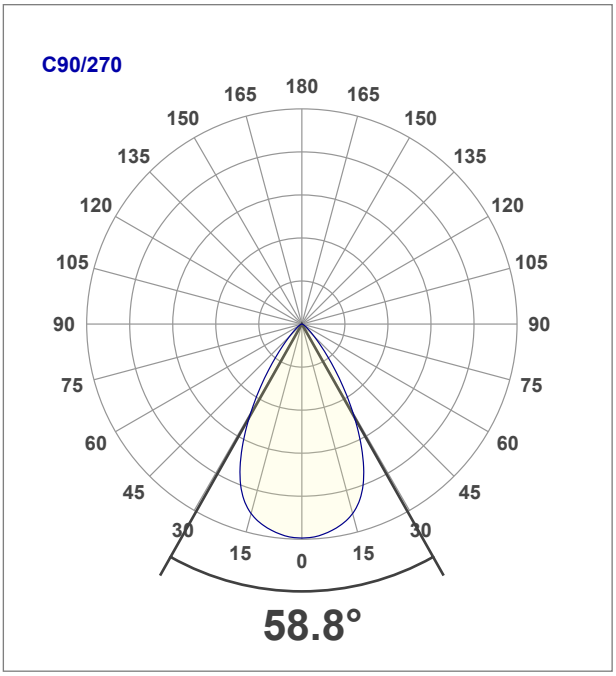
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2276 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	97.73%
In 90° cone	92.32%

Angular Distribution





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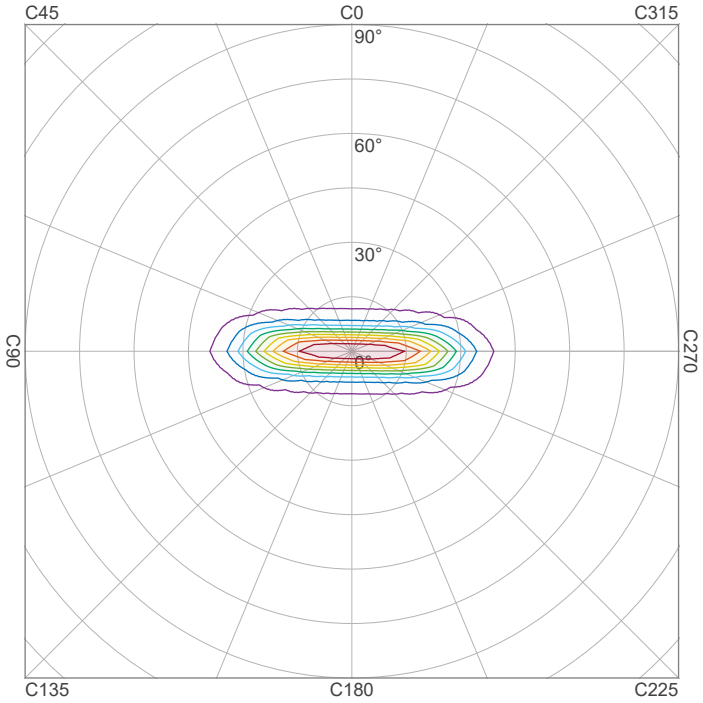
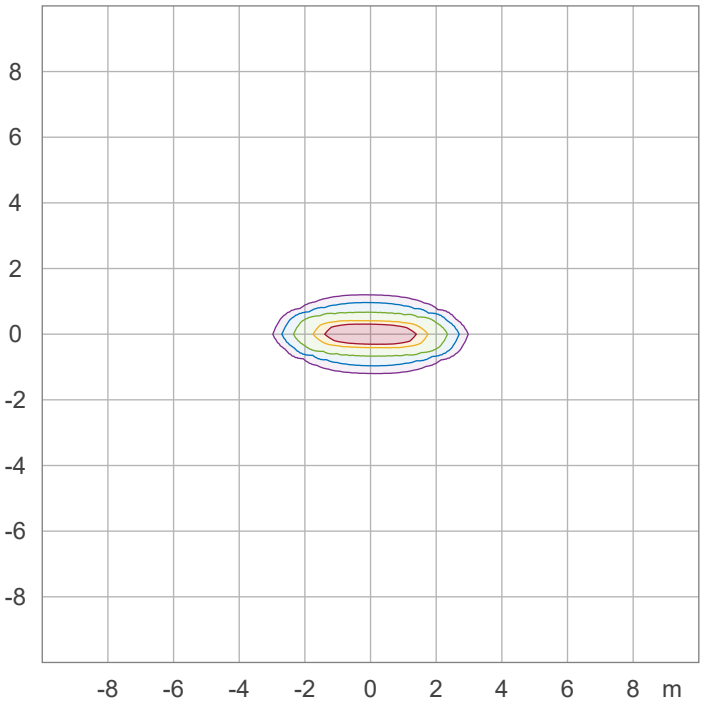
Iso-intensity Diagram (Iso-candela)



90 %	7681.7 cd
80 %	6828.2 cd
70 %	5974.7 cd
60 %	5121.1 cd
50 %	4267.6 cd
40 %	3414.1 cd
30 %	2560.6 cd
20 %	1707.0 cd
10 %	853.5 cd

Peak intensity: 8535.2 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	474 lx
30.0 %	284 lx
10.0 %	94.8 lx
5.0 %	47.4 lx
3.0 %	28.4 lx

Peak illuminance: 948 lx
Mounting height: 3 m
Number of c-planes: 36

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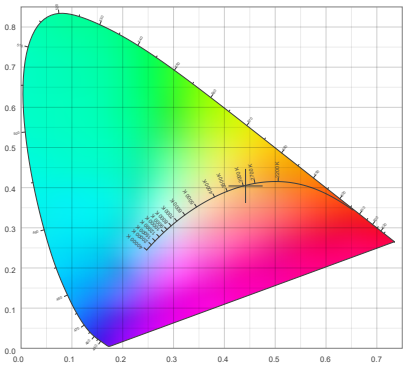
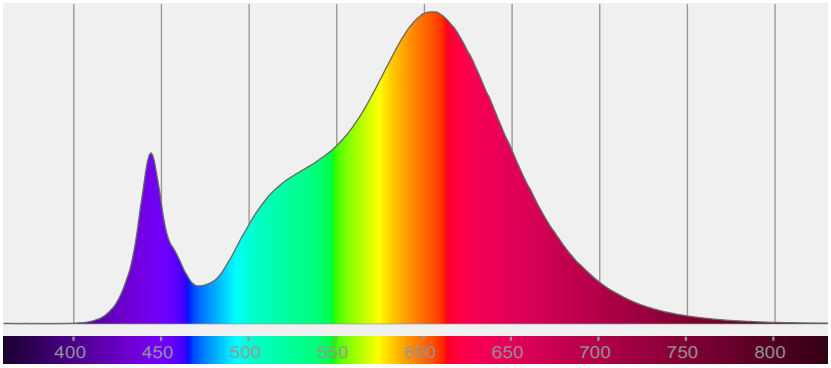
Color details

Correlated Color Temperature, Target	CCT = 2926 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2926 K	Color deviation from BBL	Duv = -0.0006
Color Rendering Index	CRI 82.3	Color coordinates CIE 1931	(x;y) = (0.4417;0.4042)
Color Rendering Index, R9 (red)	R9 = 2.3	Color coordinate CIEs 1960	(u;v) = (0.2536;0.3481)
Color Rendering TM30-18	Rf 83.3	Color coordinate CIEs 1976	(u';v') = (0.2536;0.5222)
	Rg 98.5	Color Quality Scale	CQS = 81.1

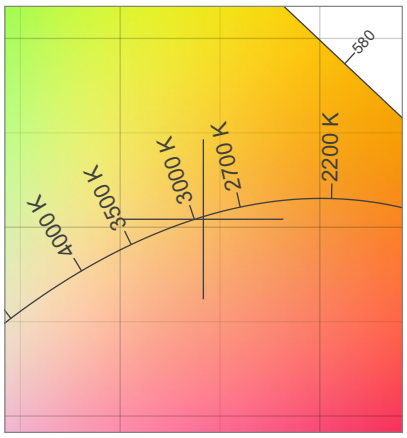
CIE 1931 Chromaticity diagram



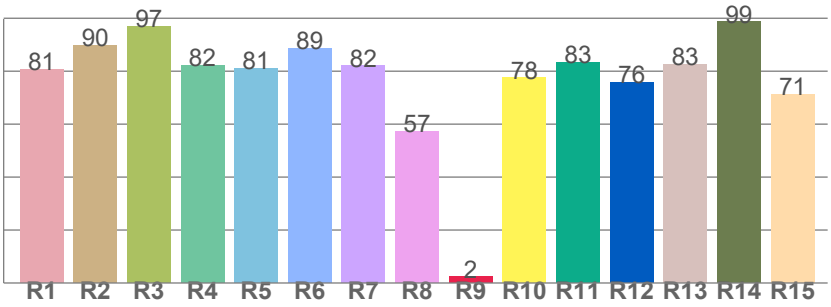
Spectral power distribution



CIE 1931 Chromaticity - zoomed



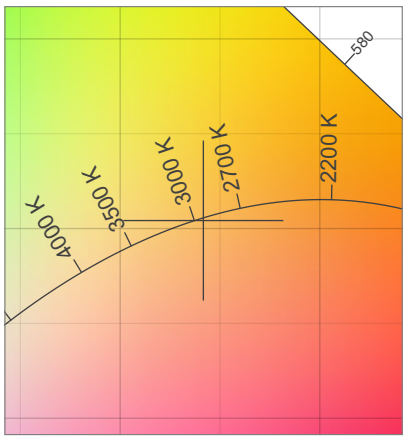
Color Rendering Index per reference color (CIE 1995)



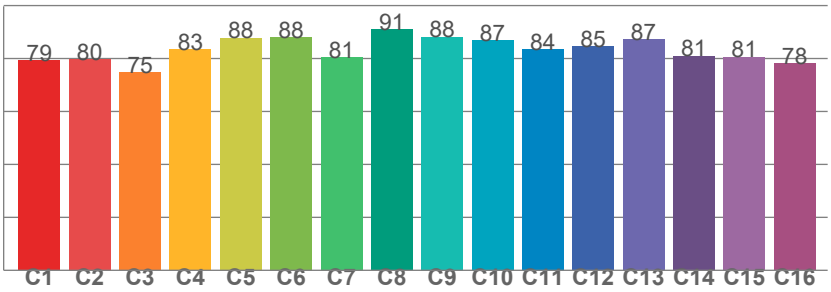
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.6	89.7	96.9	82.3	81.2	88.6	82.1	57.2	2.3	77.6	83.3	75.8	82.7	98.7	71.4

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
79.3	79.8	74.7	83.4	87.8	88.0	80.5	91.0	88.2	86.9	83.6	84.6	87.3	81.0	80.6	78.1

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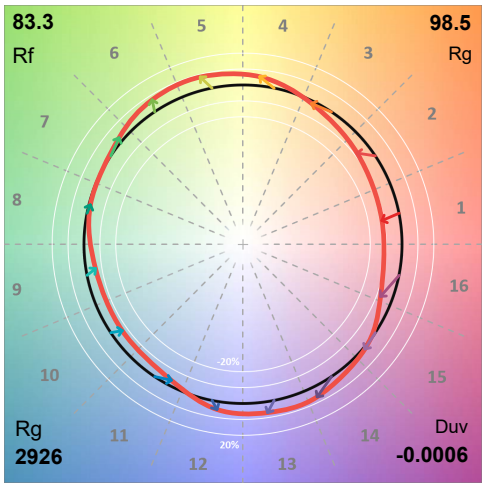
Color details - ANSI/IES TM-30-18 Color Rendition Report

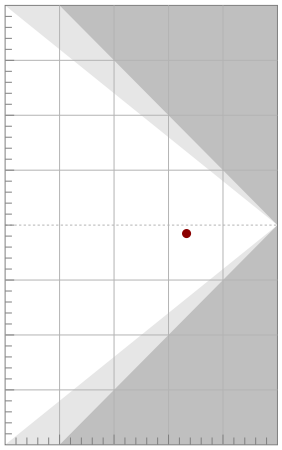
Color Vector Graphic



Color Distortion Graphic

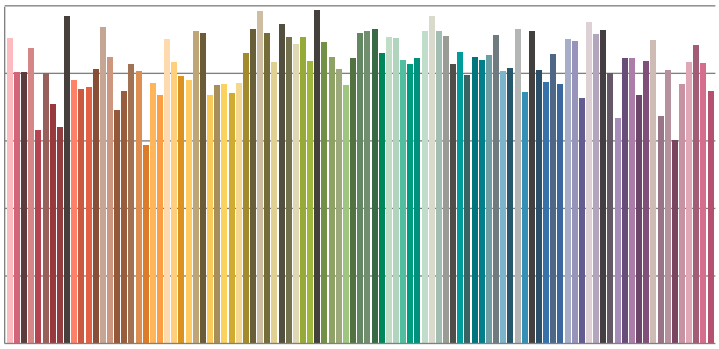
Gamut Index vs. Fidelity Index

Gamut index (Rg)



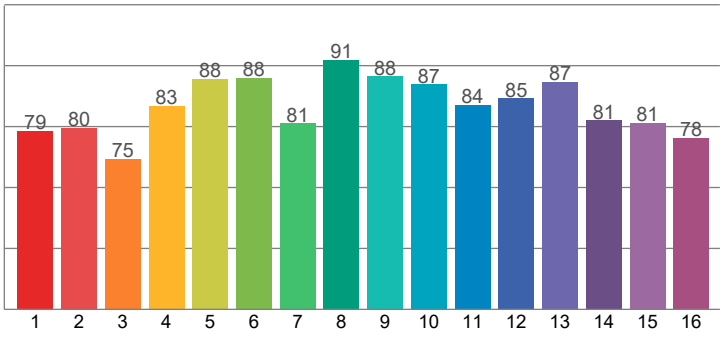
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



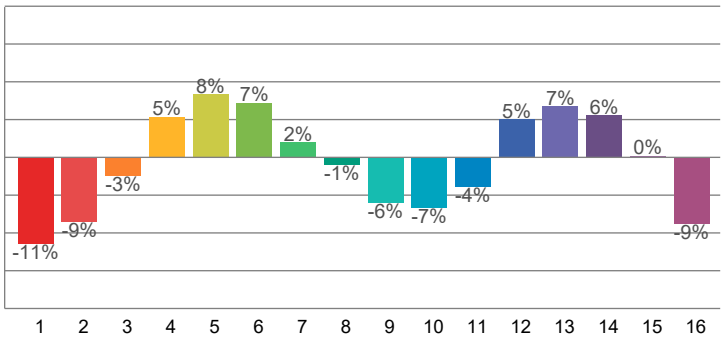
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4417
CIE y	0.4417
CIE u'	0.2536
CIE v'	0.5222

CIE	**13.3-1995**
Ra	82.3
R9	2.3

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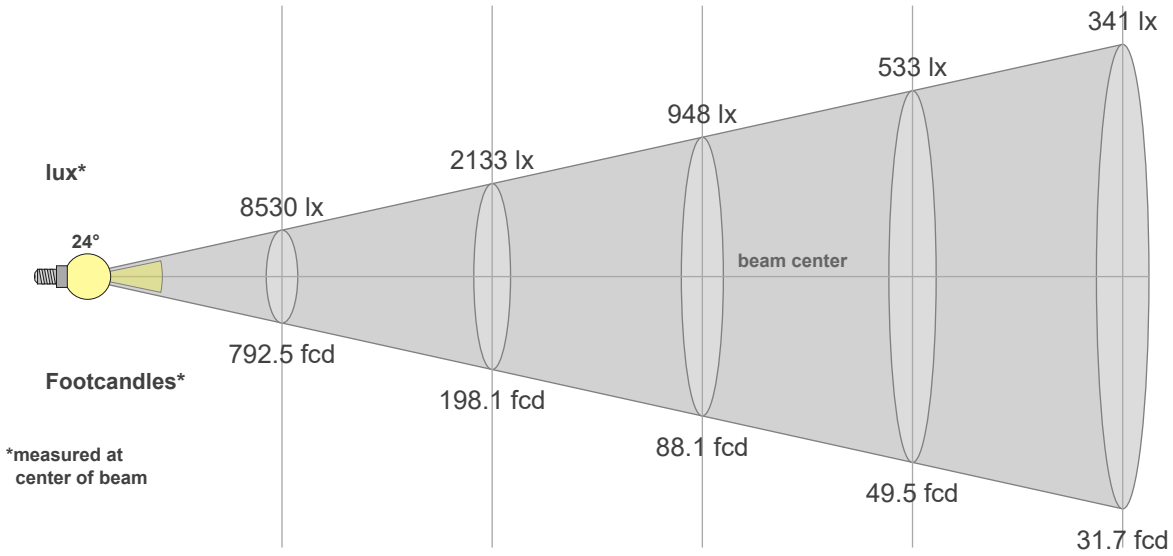
Beam details

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	0.8 m	1.2 m	1.7 m	2.1 m
Beam width (feet)	1.4 ft	2.7 ft	4.1 ft	5.5 ft	6.8 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
8530	2133	948	533	341	237	174	133	105	85	70	59	50	44	38	33	30	26	24	21	lux
792.5	198.1	88.1	49.5	31.7	22	16.2	12.4	9.8	7.9	6.5	5.5	4.7	4	3.5	3.1	2.7	2.4	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
8530	7878	6166	4106	2448	1473	991	749	599	481	386	310	252	208	176	151	131	114	100	87	cd
100%	92%	72%	48%	29%	17%	12%	9%	7%	6%	5%	4%	3%	2%	2%	2%	2%	1%	1%	1%	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
8530	8513	8478	8413	8324	8214	8080	7911	7697	7406	7027	6560	6012	5398	4737	4065	3414	2800	2236	1752	cd
100%	100%	99%	99%	98%	96%	95%	93%	90%	87%	82%	77%	70%	63%	56%	48%	40%	33%	26%	21%	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
8530	7878	6166	4106	2448	1473	991	749	599	481	386	310	252	208	176	151	131	114	100	87	cd
100%	92%	72%	48%	29%	17%	12%	9%	7%	6%	5%	4%	3%	2%	2%	2%	2%	1%	1%	1%	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
8530	8513	8478	8413	8324	8214	8080	7911	7697	7406	7027	6560	6012	5398	4737	4065	3414	2800	2236	1752	cd
100%	100%	99%	99%	98%	96%	95%	93%	90%	87%	82%	77%	70%	63%	56%	48%	40%	33%	26%	21%	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

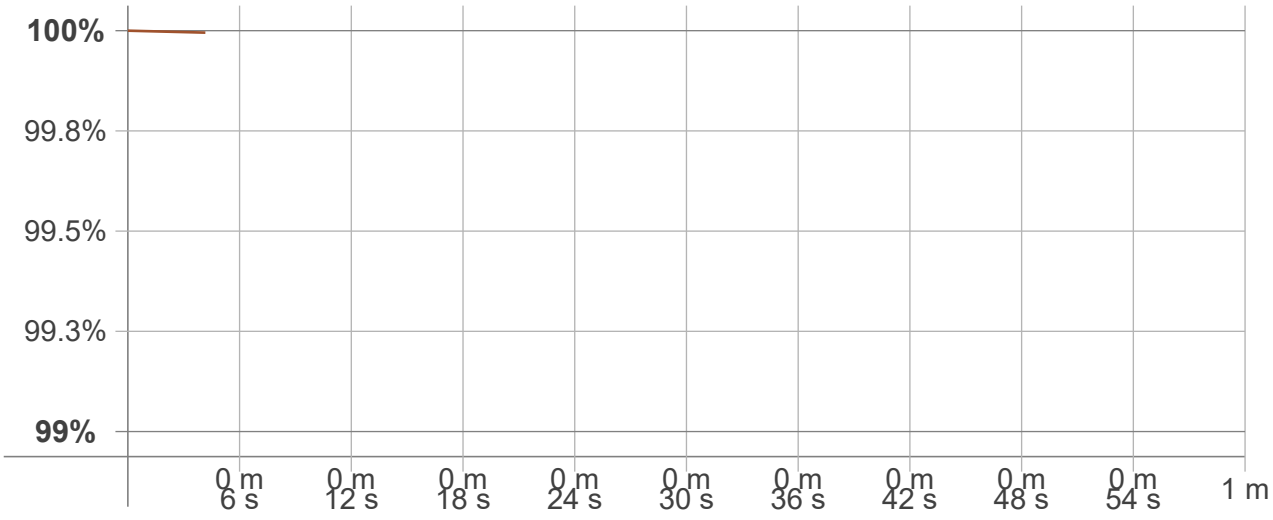
Efficiency

Radiated power efficiency	28.11
Lumen efficiency	93.64 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2926 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2926 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	2466 lm
Warmup variation	-0.0049%	Output change	-0.1204 lm
		Output end	2466 lm

Stabilization Curve



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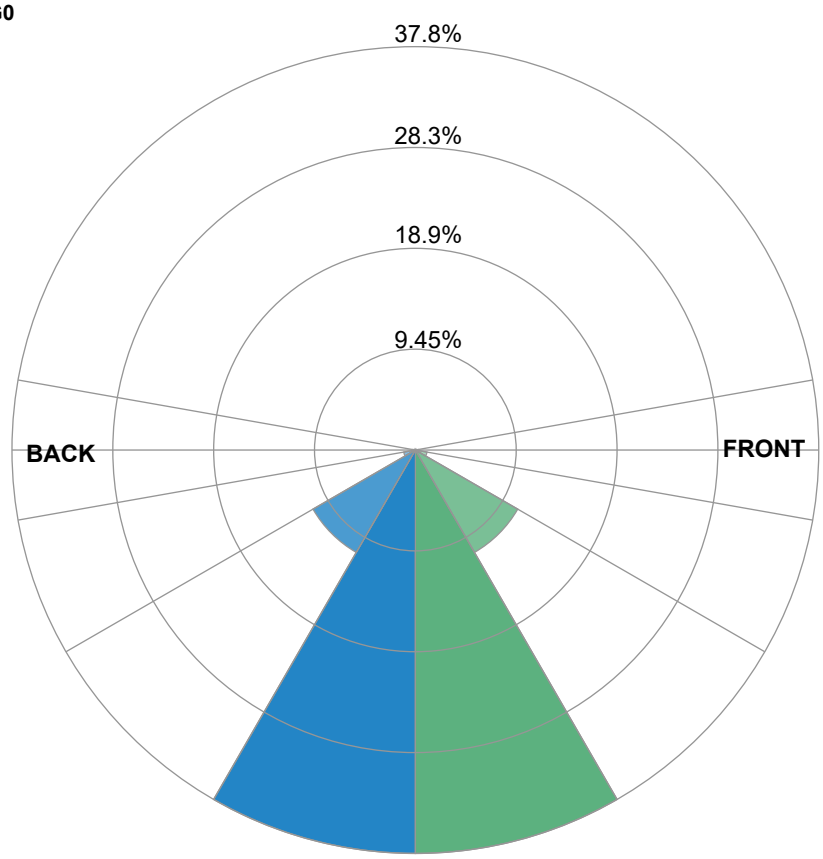
IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	932	lm	37.8%
Medium (30-60°)	273	lm	11.1%
High (60-80°)	27.2	lm	1.10%
Very High (80-90°)	0.782	lm	0.0317%
Back Light			
Low (0-30°)	932	lm	37.8%
Medium (30-60°)	273	lm	11.1%
High (60-80°)	27.2	lm	1.10%
Very High (80-90°)	0.782	lm	0.0317%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2466	lm	100%

BUG RATING B2 U0 G0