Photometric Test Report

FL25-G2-XXX-3083-3060-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.14-7882-VO
Measurement date	2026-04-14

Measurement Conditions

Tested c-planes	36 planes – 10.00°
Tested gamma resolution	1.00°
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

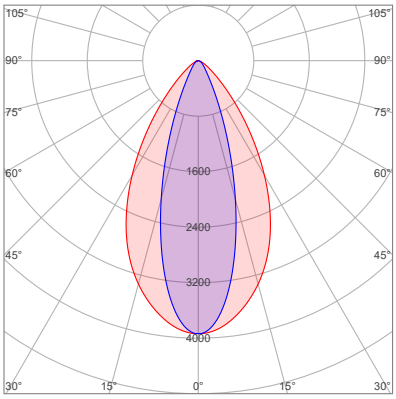
Tested Light Source

Product family	FL25-G2
Luminaire configuration	FL25-G2-XXX-3083-3060-INF-XXXXX-X
Manufacturer	GVA Lighting, Inc.
Size (width x length x height)	87 mm 0 mm x 190 mm

Main Light Measurement Results

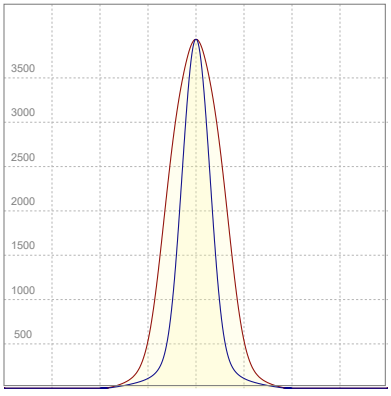
Output – Total Lumen (Up% / Down%)	2467 lm – 0%% / 100%%
Efficiency	86.19 lm/W
Peak Intensity	3937 cd
Correlated Color Temperature, CCT	2942 K
Color Rendering Index	CRI 82.4
Beam Angle (FWHM) | C0/180	58.9°
Beam Angle (FWHM) | C90/270	31.1°
Field Angle (10%) | C0/180	95.9°Unit: 0-100% of peak intensity
Field Angle (10%) | C90/270	58.7°
Optical Power	7412 mW
Peak Wavelength	604 nm
Dominant Wavelength	584 nm

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

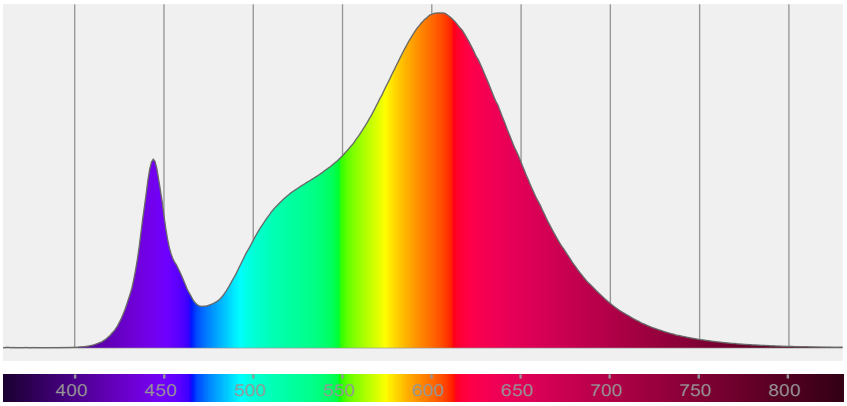


C0 - C180
C90 - C270
η = 100%

Linear distribution Diagram



Spectral Distribution



Color Temperature

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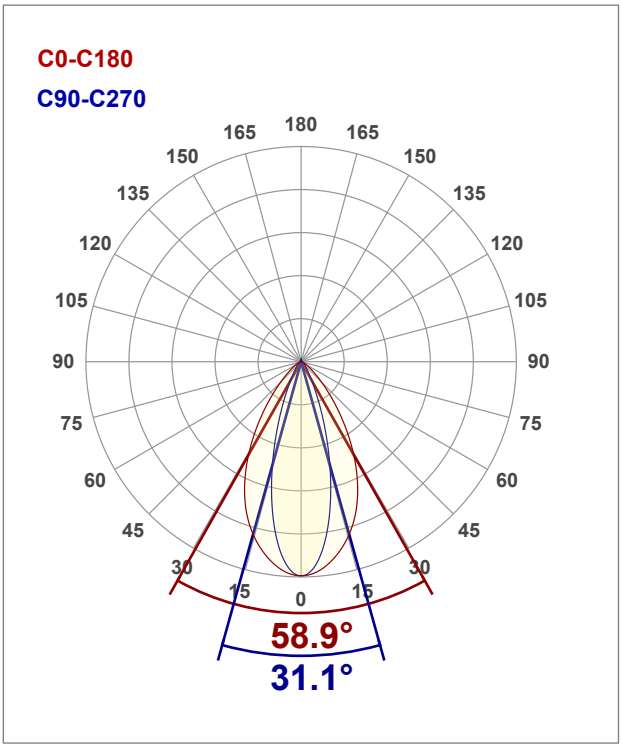
Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2467 lm
Lumen Up% / Down%	0% / 100%
Peak Intensity	3937 cd
Beam Angle (50%-FWHM)	41.9°

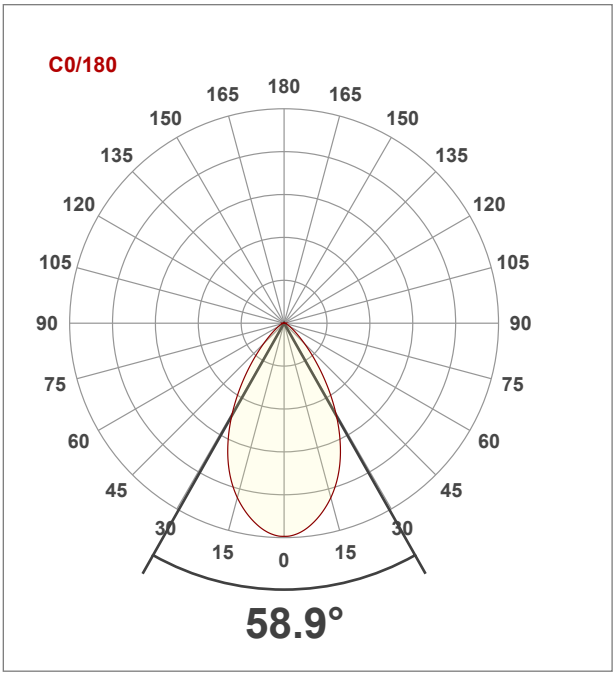
EU Ecodesign parameters

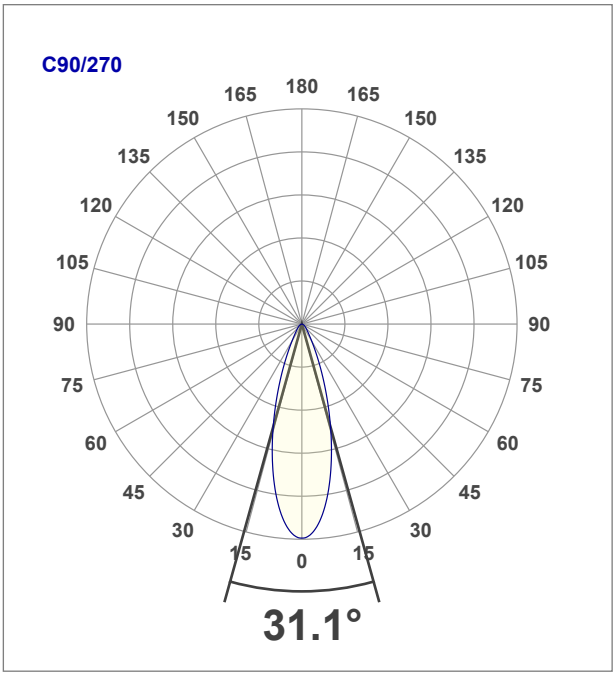
Directionality (DLS or NDLS)	DLS
Ecodesign Useful Luminous Flux	2217 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	96.97%
In 90° cone	89.87%

Angular Distribution





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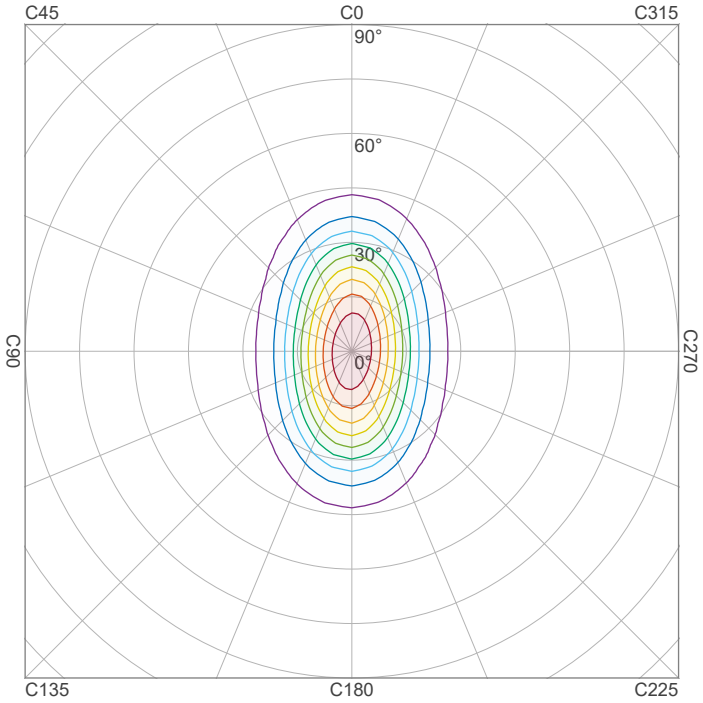
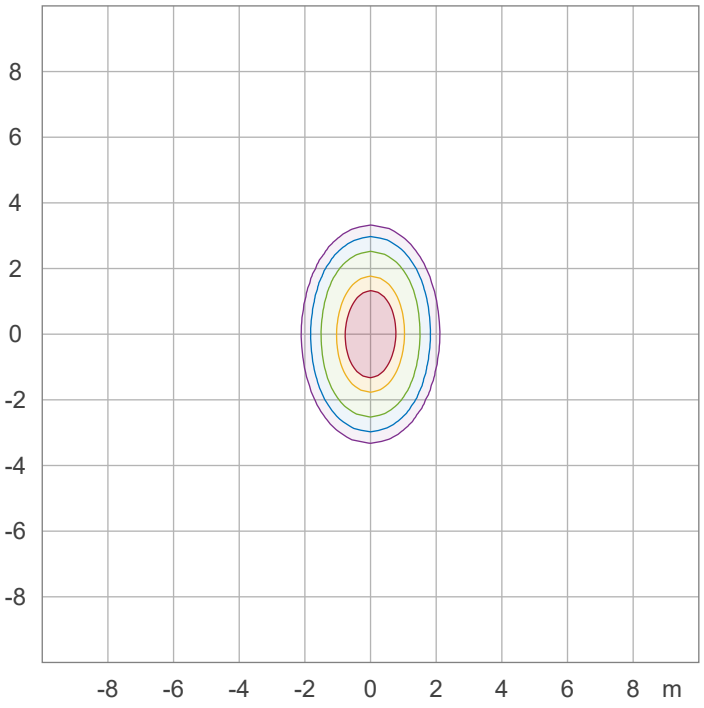
Iso-intensity Diagram (Iso-candela)



90 %	3541.6 cd
80 %	3148.1 cd
70 %	2754.6 cd
60 %	2361.1 cd
50 %	1967.6 cd
40 %	1574.1 cd
30 %	1180.5 cd
20 %	787.0 cd
10 %	393.5 cd

Peak intensity: 3935.1 cd
Number of c-planes: 36

Iso-illuminance Diagram (Iso-lux)



50.0 %	219 lx
30.0 %	131 lx
10.0 %	43.7 lx
5.0 %	21.9 lx
3.0 %	13.1 lx

Peak illuminance: 437 lx
Mounting height: 3 m
Number of c-planes: 36

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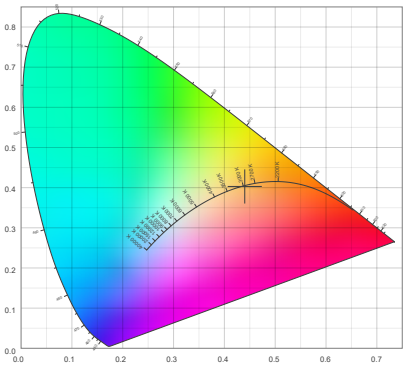
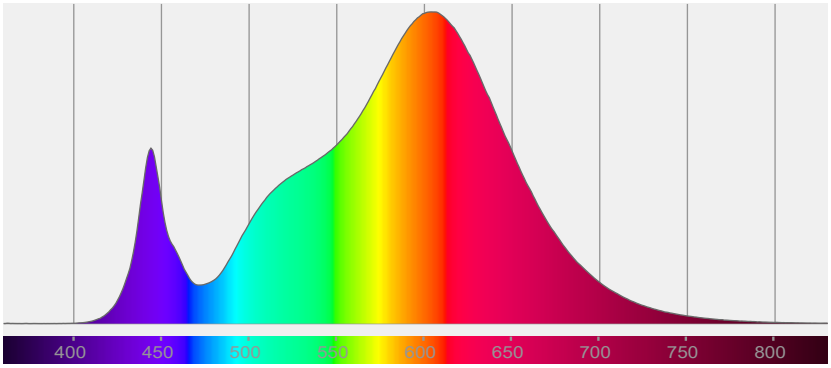
Color details

Correlated Color Temperature, Target	CCT = 2942 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 2942 K	Color deviation from BBL	Duv = -0.0009
Color Rendering Index	CRI 82.4	Color coordinates CIE 1931	(x;y) = (0.4401;0.4030)
Color Rendering Index, R9 (red)	R9 = 2.6	Color coordinate CIEs 1960	(u;v) = (0.2531;0.3476)
Color Rendering TM30-18	Rf 83.2	Color coordinate CIEs 1976	(u';v') = (0.2531;0.5214)
	Rg 98.6	Color Quality Scale	CQS = 81.0

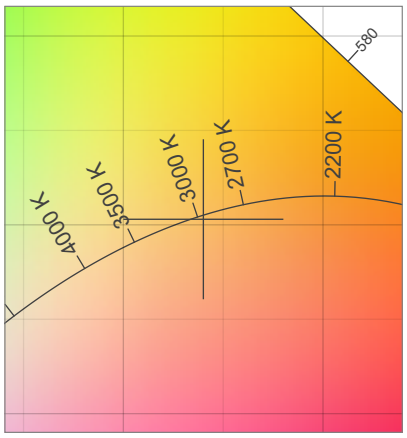
CIE 1931 Chromaticity diagram



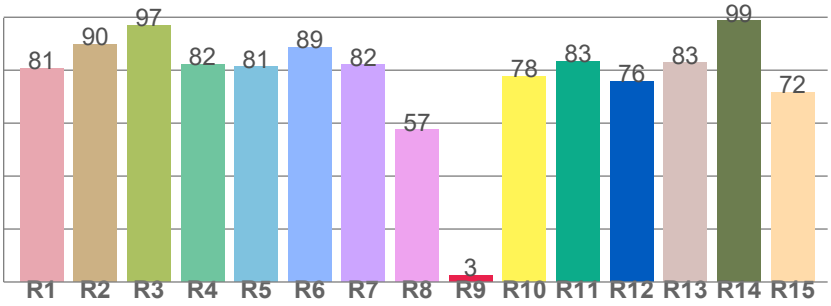
Spectral power distribution



CIE 1931 Chromaticity - zoomed



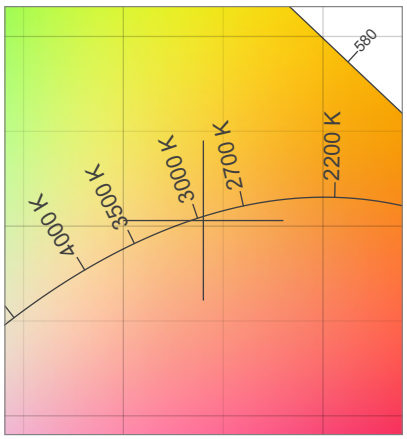
Color Rendering Index per reference color (CIE 1995)



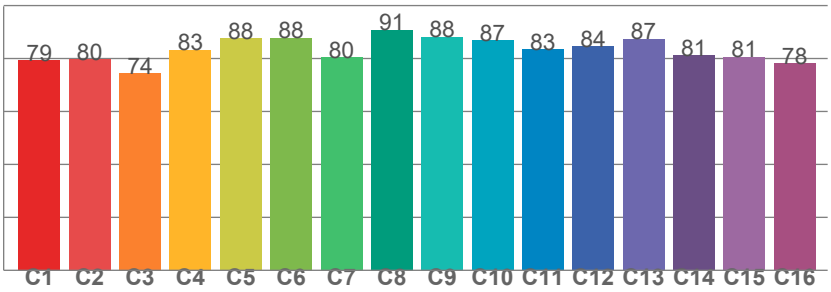
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.8	89.8	96.9	82.3	81.4	88.6	82.1	57.4	2.6	77.7	83.4	75.9	82.8	98.7	71.6

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
79.4	79.8	74.5	83.2	87.6	87.8	80.5	90.8	88.2	86.9	83.4	84.5	87.4	81.1	80.7	78.2

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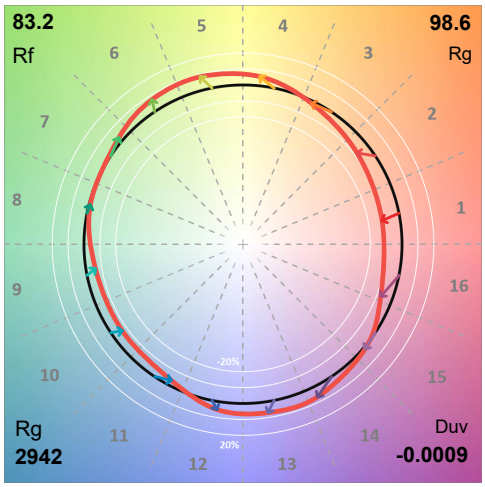
Color details - ANSI/IES TM-30-18 Color Rendition Report

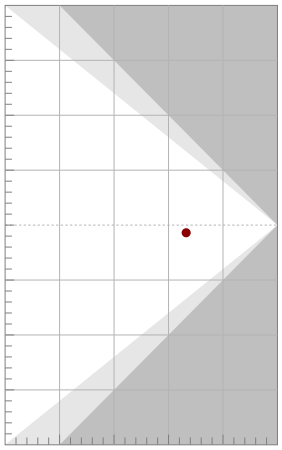
Color Vector Graphic



Color Distortion Graphic

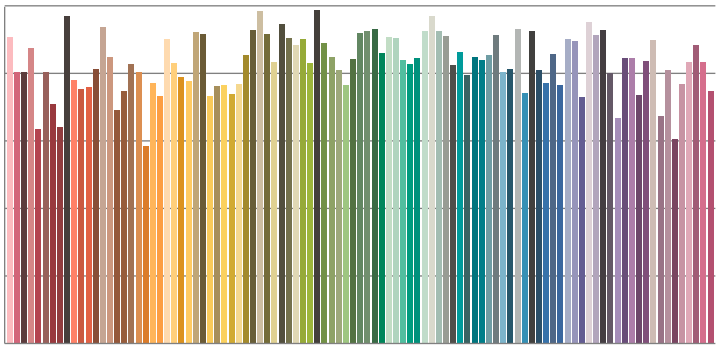
Gamut Index vs. Fidelity Index

Gamut index (Rg)



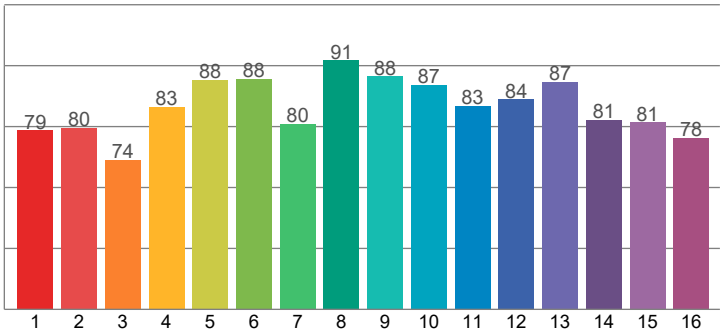
Fidelity index (Rf)

Color Rendition by Color Evaluation Sample (CES)



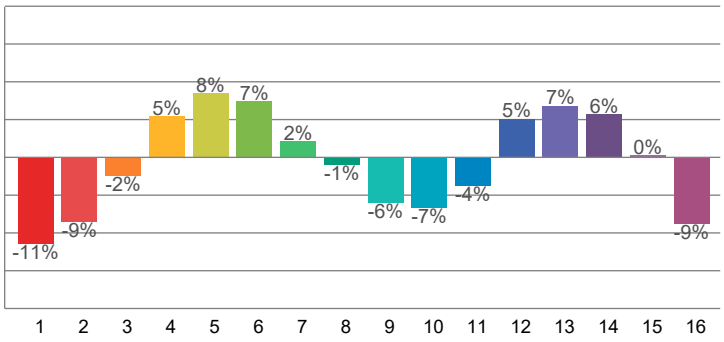
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

CIE x	0.4401
CIE y	0.4401
CIE u'	0.2531
CIE v'	0.5214

CIE	**13.3-1995**
Ra	82.4
R9	2.6

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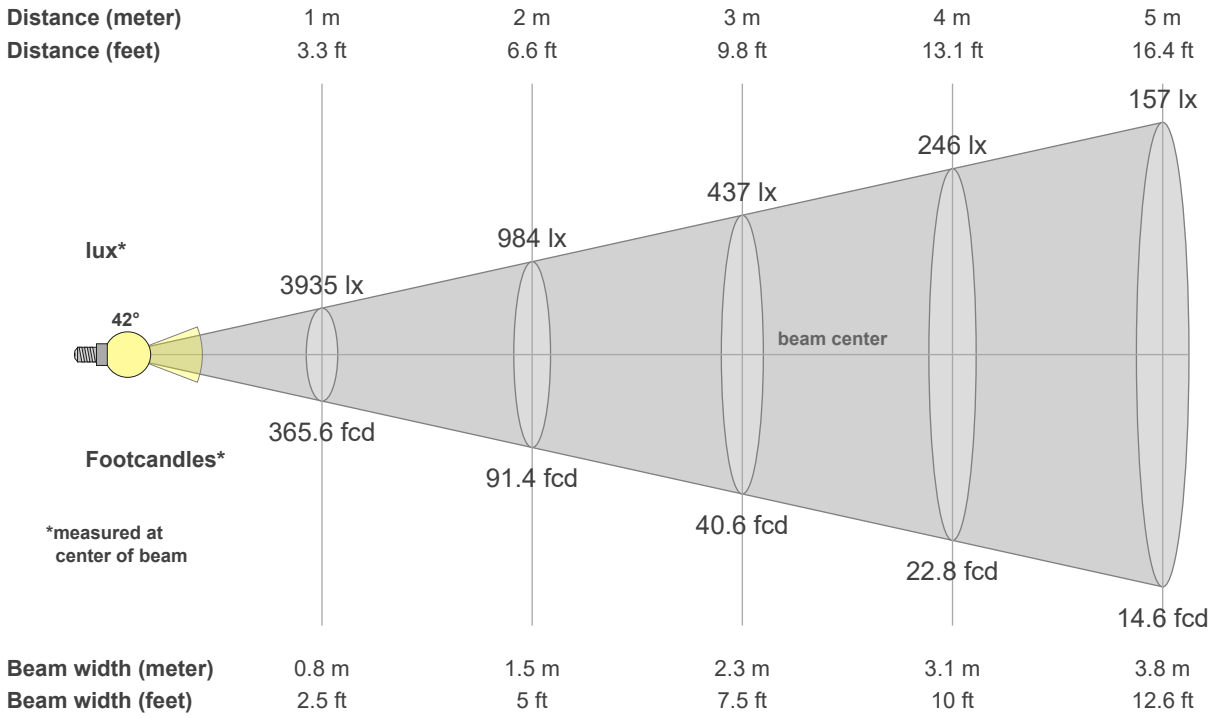
Beam details



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FL25-G2-XXX-3083-3060-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
3935	984	437	246	157	109	80	61	49	39	33	27	23	20	17	15	14	12	11	10	lux
365.6	91.4	40.6	22.8	14.6	10.2	7.5	5.7	4.5	3.7	3	2.5	2.2	1.9	1.6	1.4	1.3	1.1	1	0.9	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
3935	3923	3883	3820	3736	3637	3524	3400	3262	3109	2940	2756	2557	2346	2128	1905	1682	1465	1255	1062	cd
100%	100%	99%	97%	95%	92%	90%	86%	83%	79%	75%	70%	65%	60%	54%	48%	43%	37%	32%	27%	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
3935	3889	3753	3539	3264	2944	2597	2242	1890	1557	1255	992	773	598	464	364	292	239	201	172	cd
100%	99%	95%	90%	83%	75%	66%	57%	48%	40%	32%	25%	20%	15%	12%	9%	7%	6%	5%	4%	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
3935	3923	3883	3820	3736	3637	3524	3400	3262	3109	2940	2756	2557	2346	2128	1905	1682	1465	1255	1062	cd
100%	100%	99%	97%	95%	92%	90%	86%	83%	79%	75%	70%	65%	60%	54%	48%	43%	37%	32%	27%	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
3935	3889	3753	3539	3264	2944	2597	2242	1890	1557	1255	992	773	598	464	364	292	239	201	172	cd
100%	99%	95%	90%	83%	75%	66%	57%	48%	40%	32%	25%	20%	15%	12%	9%	7%	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	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

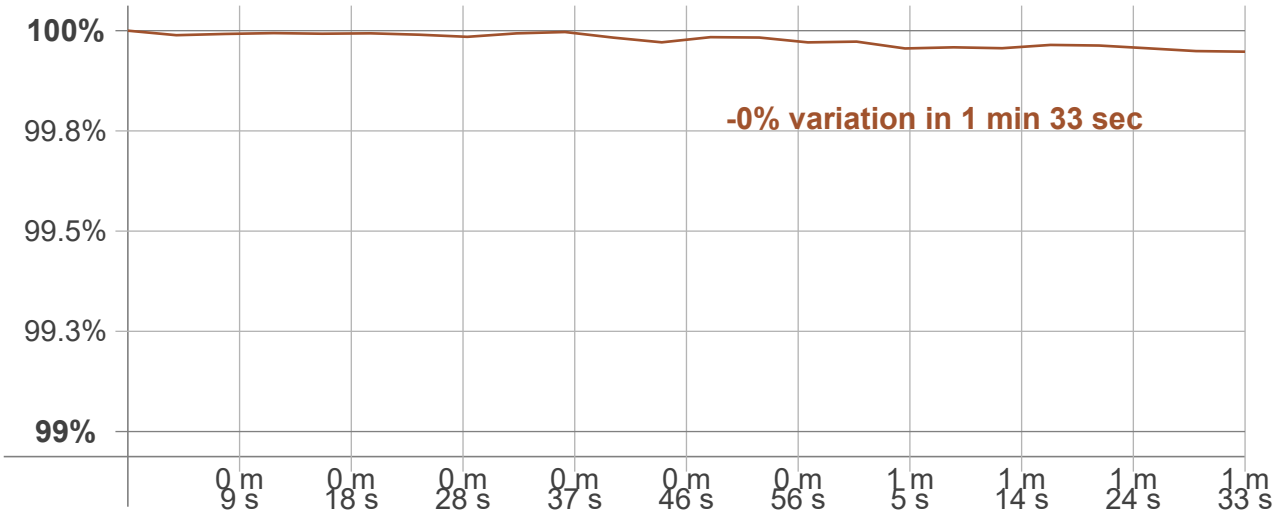
Efficiency

Radiated power efficiency	25.9
Lumen efficiency	86.19 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	2942 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	2942 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	2468 lm
Warmup variation	-0.0492%	Output change	-0.8704 lm
		Output end	2467 lm

Stabilization Curve



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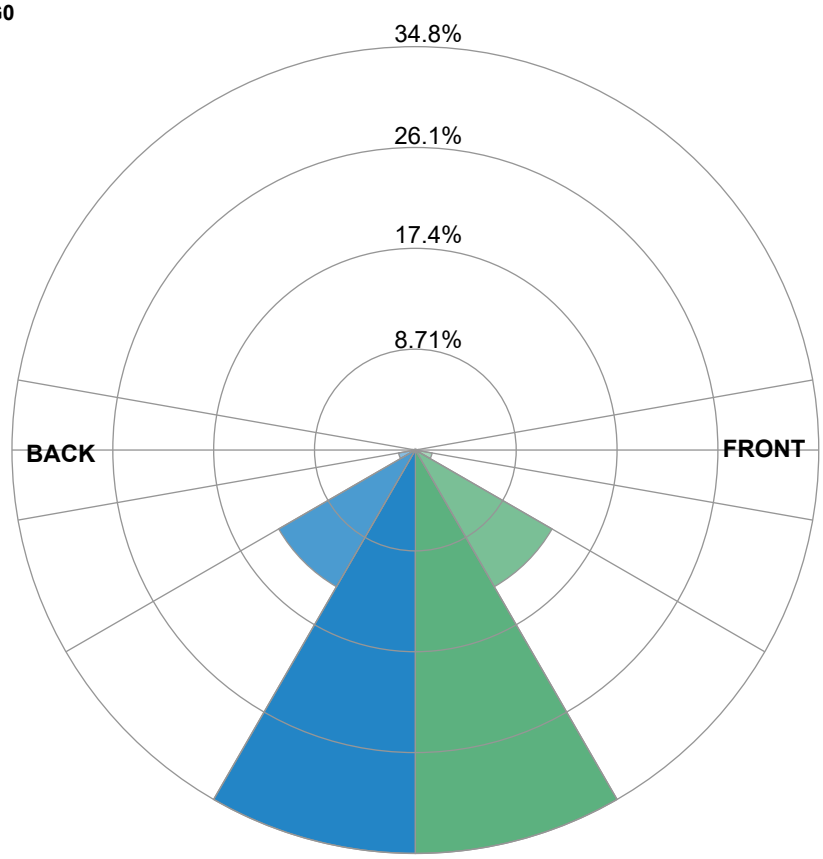
IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light			
Low (0-30°)	860	lm	34.8%
Medium (30-60°)	336	lm	13.6%
High (60-80°)	36.3	lm	1.47%
Very High (80-90°)	1.22	lm	0.0496%
Back Light			
Low (0-30°)	860	lm	34.8%
Medium (30-60°)	336	lm	13.6%
High (60-80°)	36.3	lm	1.47%
Very High (80-90°)	1.22	lm	0.0496%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	2467	lm	100%

BUG RATING B2 U0 G0