Prudential Lighting

Light measurement results

Print date 8/10/2026

Laboratory and Equipment

Test lab	Viso LabSpion - serial: 2435469709 sensor serial: 0895736217 - T
Spectrometer Manufacturer and Model	LabSpion – Type C, horizontal
Measurement date	8/6/2026

Measurement Conditions

Tested c-planes	72 planes – 5.00°
Tested gamma resolution	1.00°
Input Power	15.64 W

Tested Light Source

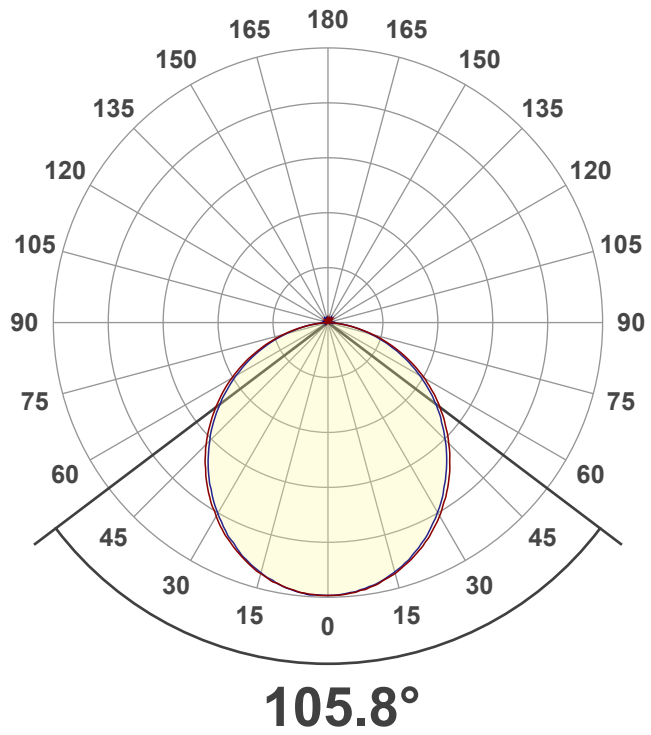
Luminaire	WETBPRO2-LIN-FLSH-LED35-LO-04-SAL-NU-SC-DM01
Basic Luminous Shape	NONE
Item No.	
Manufacturer	Prudential Lighting
Description	

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)	1568 lm – 1.659% / 98.34%
Efficiency	100.2 lm/W
Peak Intensity	583.6 cd
Correlated Color Temperature, CCT	3407 K
Color Rendering Index	CRI 84.4

Polar light distribution diagram

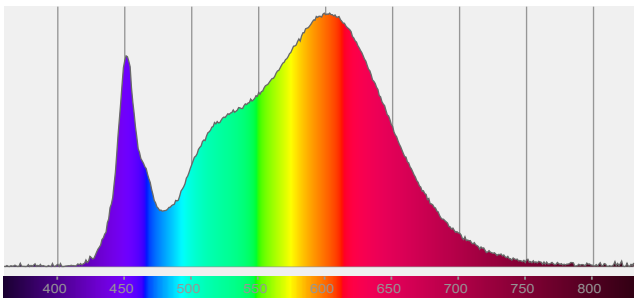
Unit: 0-100% of peak intensity



Zonal Lumen Summary:

VA/HA	0°	22.5°	45°	67.5°	90°
0°	582.1 cd	582.1 cd	582.1 cd	582.1 cd	582.1 cd
5°	579.1 cd	578.2 cd	578.6 cd	578.4 cd	577.7 cd
15°	554.2 cd	552.5 cd	550.6 cd	550 cd	550.8 cd
25°	507.3 cd	504.3 cd	500.3 cd	500.2 cd	500.5 cd
35°	441.7 cd	439.2 cd	433.5 cd	432.3 cd	431.2 cd
45°	364.4 cd	361.8 cd	355.1 cd	353.1 cd	353.6 cd
55°	281.7 cd	277.5 cd	270.2 cd	268.9 cd	271.2 cd
65°	191.7 cd	187.6 cd	181.9 cd	181.4 cd	181.8 cd
75°	99.58 cd	98.34 cd	94.51 cd	94.15 cd	93.69 cd
85°	20.01 cd	23.22 cd	22.58 cd	20.2 cd	19.69 cd
90°	2.133 cd	3.302 cd	2.129 cd	1.762 cd	2.225 cd

Spectral power distribution



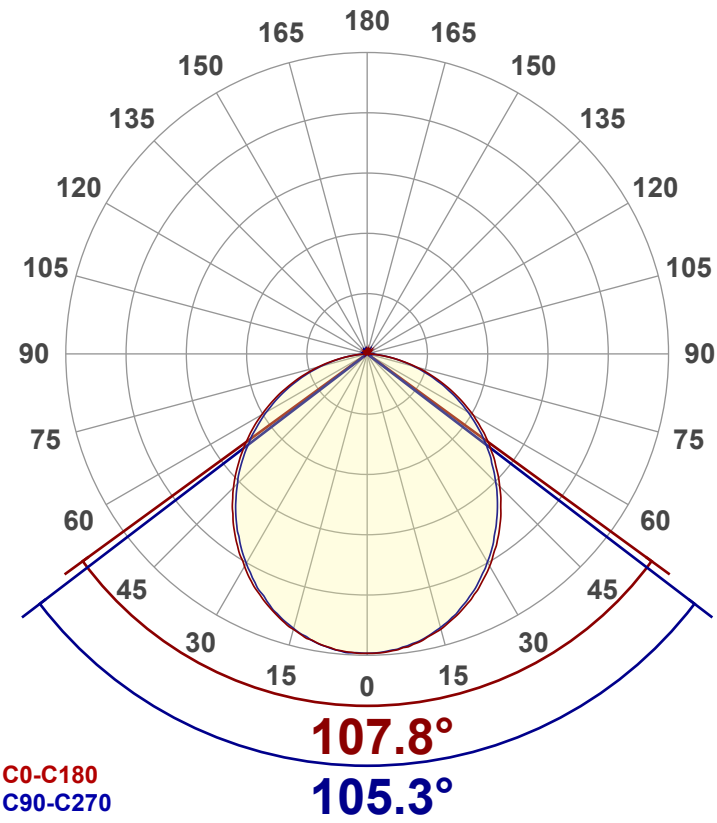
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	1568 lm
Lumen Up% / Down%	1.659% / 98.34%
Peak Intensity	583.6 cd
Beam Angle (50%-FWHM)	105.8°

EU Ecodesign parameters

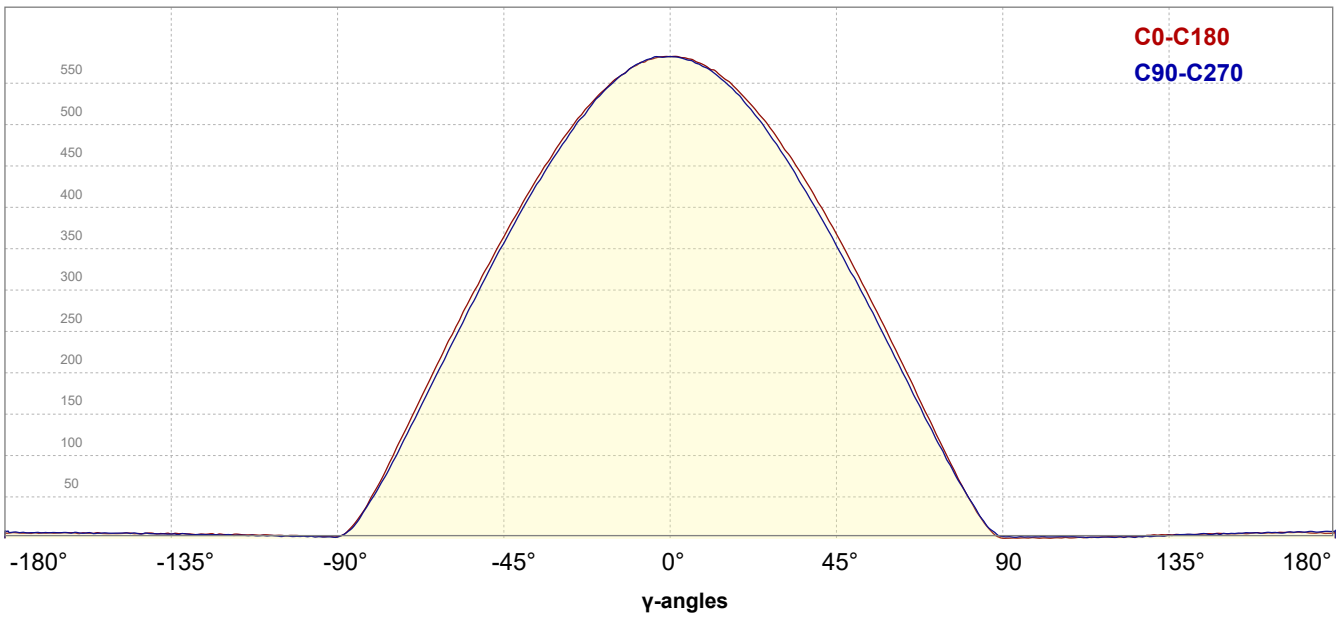
Directionality (DLS or NDLS)	NDLS
Ecodesign Useful Luminous Flux	1568 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	78.79%
In 90° cone	54.53%

Linear distribution diagram

Intensity [cd]

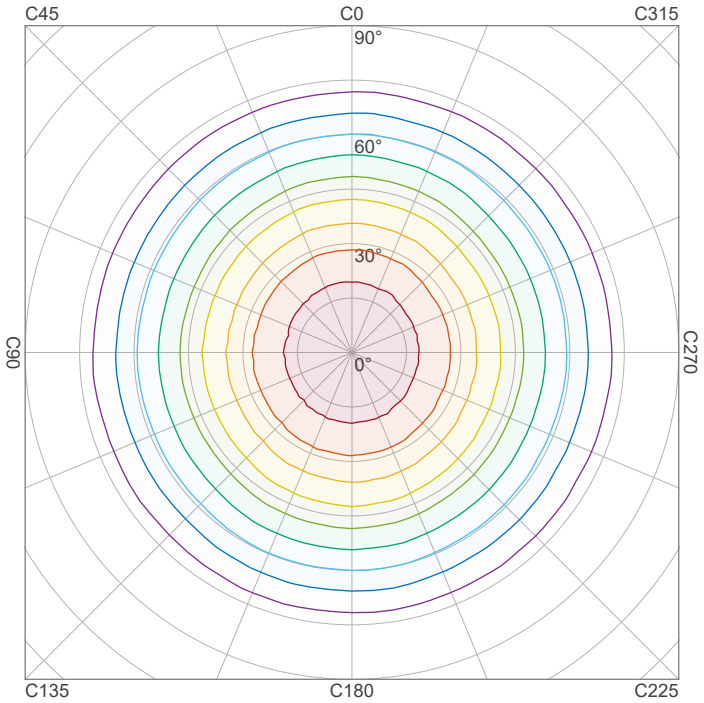


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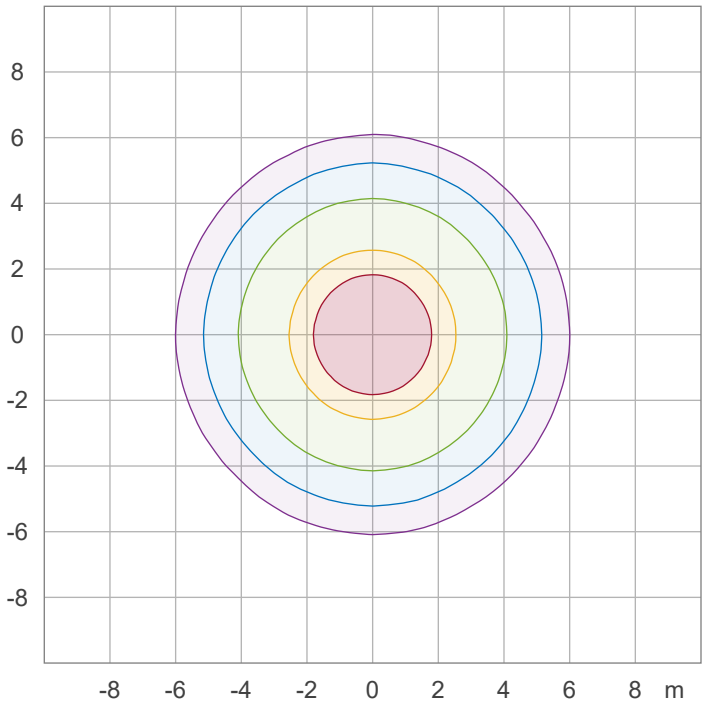
Iso-intensity Diagram (Iso-candela)



90 %	525.0 cd
80 %	466.7 cd
70 %	408.4 cd
60 %	350.0 cd
50 %	291.7 cd
40 %	233.4 cd
30 %	175.0 cd
20 %	116.7 cd
10 %	58.3 cd

Peak intensity: 583.4 cd
Number of c-planes: 72

Iso-illuminance Diagram (Iso-lux)



50.0 %	32.4 lx
30.0 %	19.4 lx
10.0 %	6.48 lx
5.0 %	3.24 lx
3.0 %	1.94 lx

Peak illuminance: 64.8 lx
Mounting height: 3 m
Number of c-planes: 72

Prudential Lighting

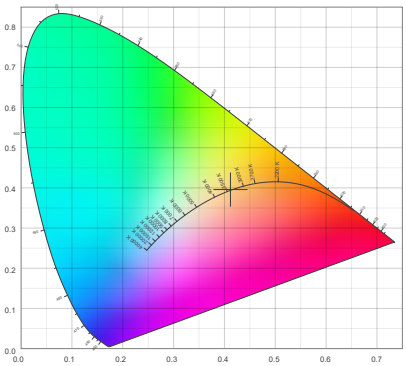
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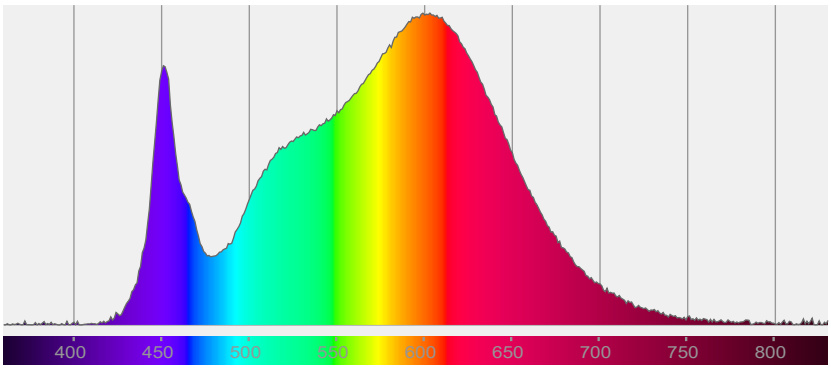
Color details

Correlated Color Temperature, Target	CCT = 3407 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 3407 K	Color deviation from BBL	Duv = 0.0009
Color Rendering Index	CRI 84.4	Color coordinates CIE 1931	(x;y) = (0.4118;0.3959)
Color Rendering Index, R9 (red)	R9 = 12.1	Color coordinate CIEs 1960	(u;v) = (0.2378;0.3429)
Color Rendering TM30-18	Rf 85.5	Color coordinate CIEs 1976	(u';v') = (0.2378;0.5144)
	Rg 96.0	Color Quality Scale	CQS = 83.9

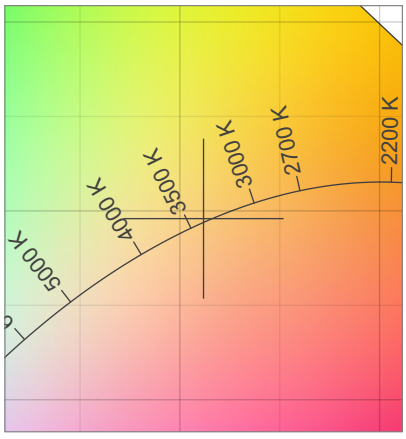
CIE 1931 Chromaticity diagram



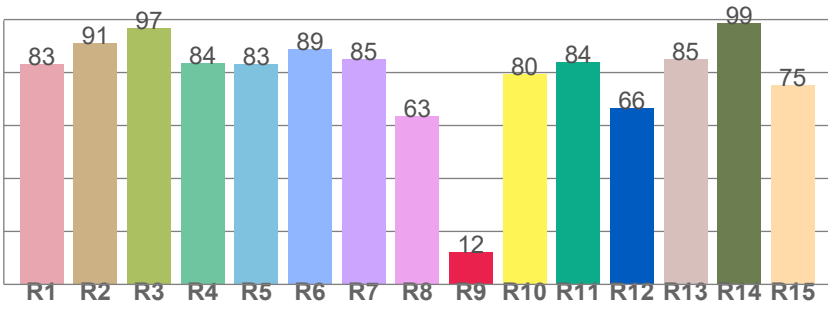
Spectral power distribution



CIE 1931 Chromaticity - zoomed



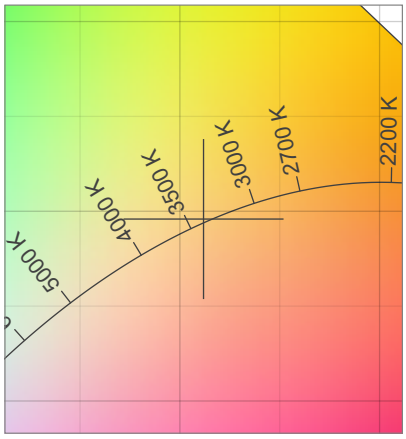
Color Rendering Index per reference color (CIE 1995)



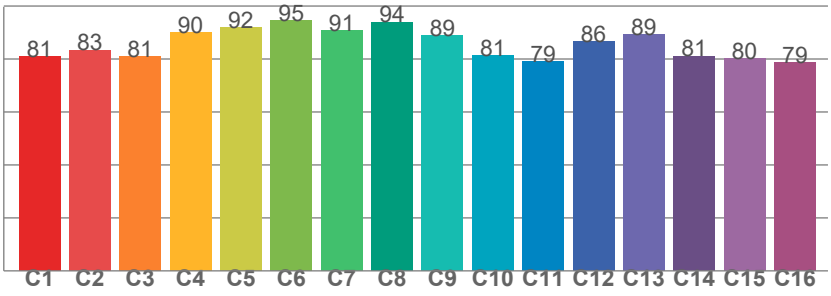
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.1	91.2	97.0	83.7	83.1	88.8	85.2	63.5	12.1	79.5	84.0	66.5	85.2	98.8	75.2

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
80.9	83.4	81.0	90.1	92.0	94.6	90.9	94.0	88.9	81.3	79.2	86.5	89.4	81.2	80.2	78.6

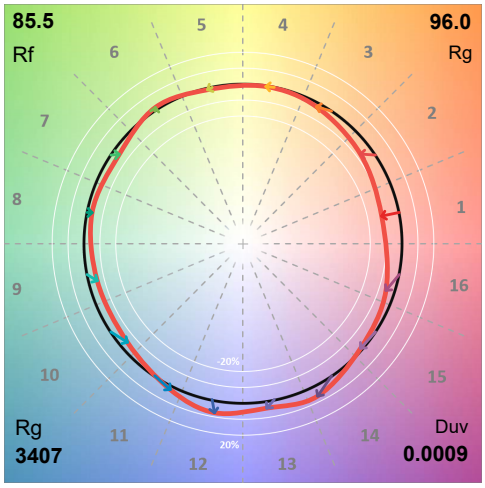
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Color details - ANSI/IES TM-30-18 Color Rendition Report

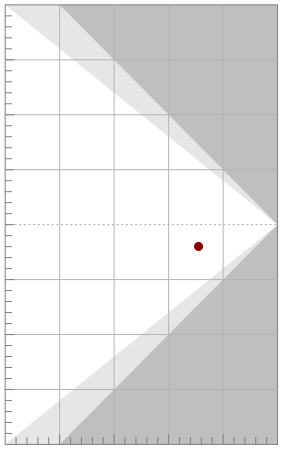
Color Vector Graphic



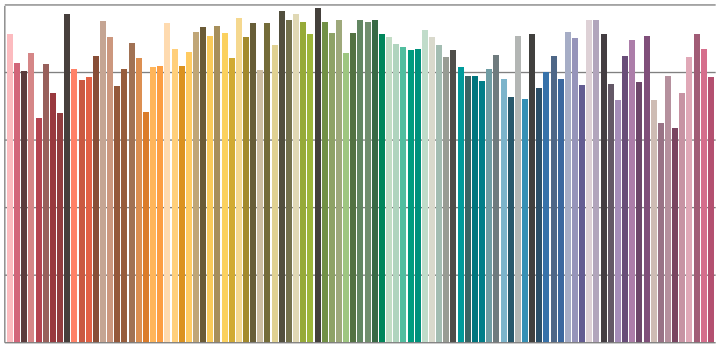
Color Distortion Graphic



Gamut Index vs. Fidelity Index

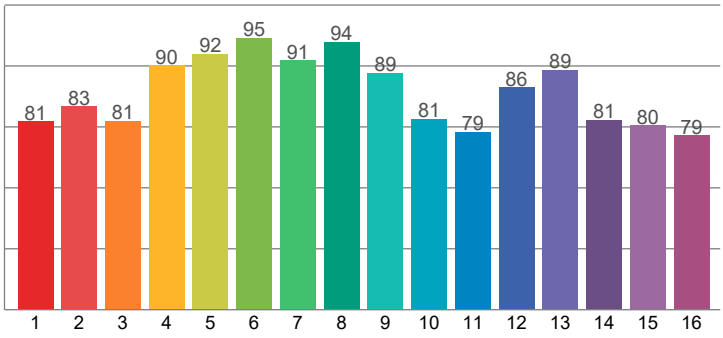


Color Rendition by Color Evaluation Sample (CES)

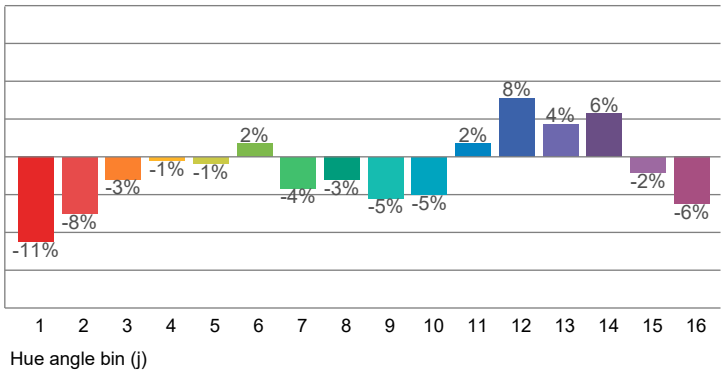


Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Local Chroma Shift (per hue bin)



CIE x	0.4118
CIE y	0.4118
CIE u'	0.2378
CIE v'	0.5144

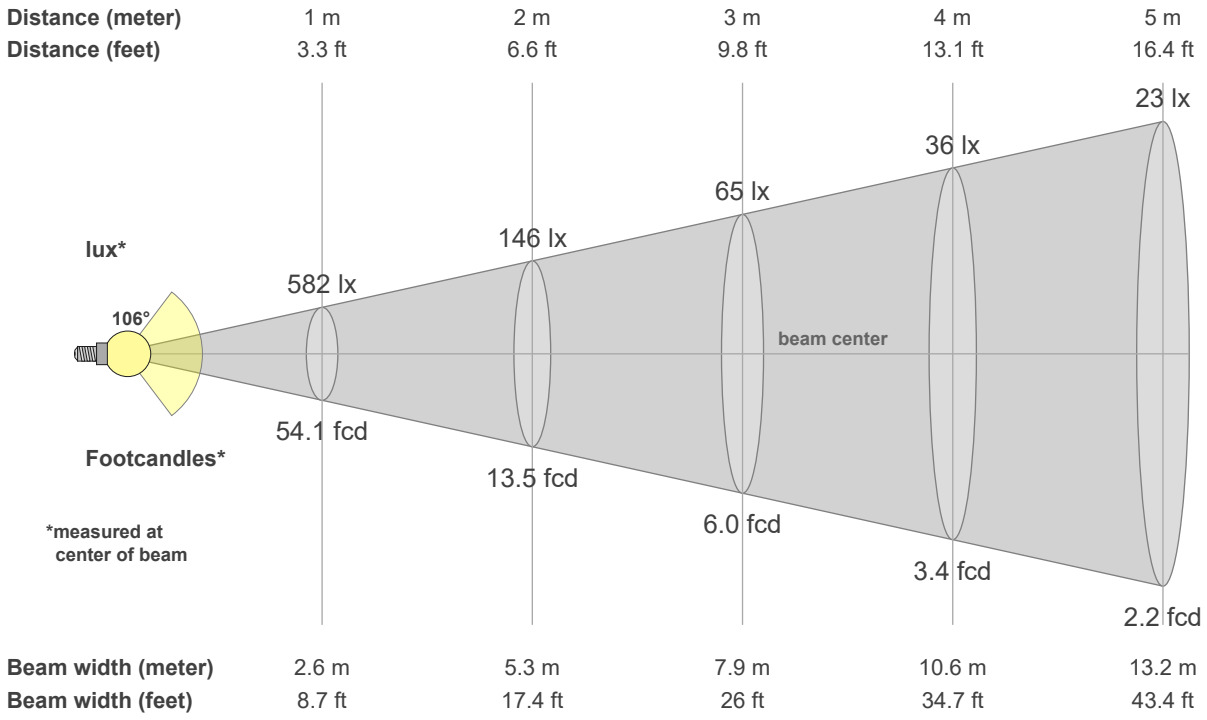
CIE	13.3-1995
Ra	84.4
R9	12.1

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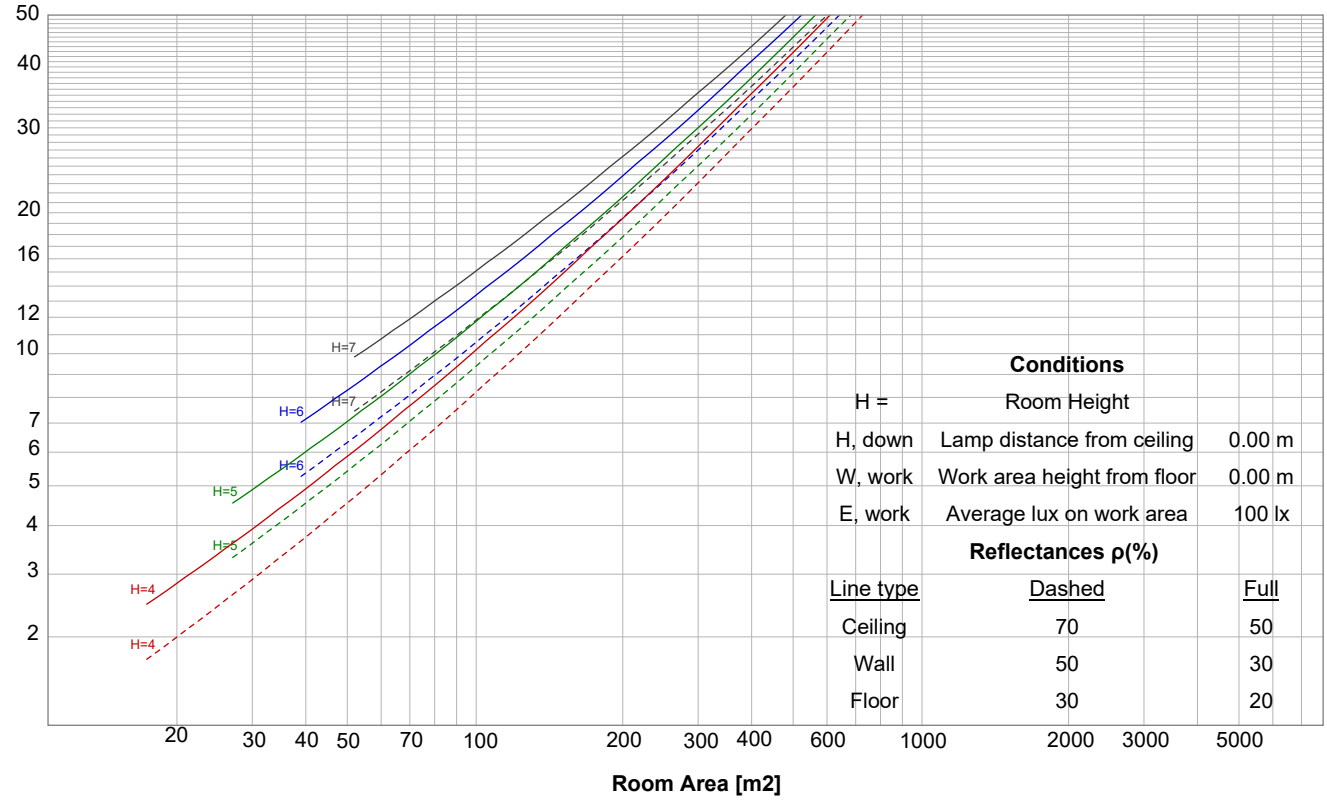
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Beam details



Luminaire budgetary diagram

LAMPS (number of lamps)



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
582	146	65	36	23	16	12	9	7	6	5	4	3	3	3	2	2	2	2	1	lux
54.1	13.5	6	3.4	2.2	1.5	1.1	0.8	0.7	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
582	579	570	554	533	507	476	442	405	364	324	282	238	192	146	100	56	20	2	3	cd
100%	99%	98%	95%	91%	87%	82%	76%	70%	63%	56%	48%	41%	33%	25%	17%	10%	3%	0%	0%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
582	578	568	551	528	501	468	431	394	354	314	271	227	182	137	94	55	20	2	2	cd
100%	99%	98%	95%	91%	86%	80%	74%	68%	61%	54%	47%	39%	31%	24%	16%	9%	3%	0%	0%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
582	579	570	554	533	508	477	444	406	368	325	282	237	192	145	99	55	18	0	0	cd
100%	100%	98%	95%	92%	87%	82%	76%	70%	63%	56%	48%	41%	33%	25%	17%	9%	3%	0%	0%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
582	580	570	553	531	503	470	434	398	357	315	271	227	182	137	93	53	18	1	2	cd
100%	100%	98%	95%	91%	86%	81%	75%	68%	61%	54%	47%	39%	31%	24%	16%	9%	3%	0%	0%	of 0°val

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UGR Table

Corrected, comprehensive UGR table according to 117-1995, S/H ratio=0.25

Reflectances											
ρ Ceiling	70	70	50	50	30	70	70	50	50	30
ρ Walls	50	30	50	30	30	50	30	50	30	30
ρ Floor	20	20	20	20	20	20	20	20	20	20
Room size	**Viewed Crosswise**					**Viewed Endwise**				
H = mouting height above eye level	(Viewing direction orthogonal to lamp length axis)					(Viewing direction parallel to lamp length axis)				
X **Y**										
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variations with the observer position for the luminaire spacings, S:										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				

UGR data could not be calculated due to missing light source dimensions. Go to Edit -> Photometric -> Dimensions and set the source dimensions.

Coefficients of utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
RCR	(Room Cavity Ratio)				Room values are expressed as percentage of Lumen delivered to the task surface													
0	118.7	118.7	118.7	118.7	115.7	115.7	115.7	115.7	110.2	110.2	110.2	105.1	105.1	105.1	100.5	100.5	100.5	98.3
1	108.6	103.9	99.8	96.0	105.7	101.5	97.7	94.3	97.0	93.8	91.0	92.8	90.3	87.9	88.9	86.9	85.0	82.8
2	98.9	90.8	84.1	78.4	96.1	88.8	82.6	77.4	85.0	79.8	75.3	81.4	77.1	73.4	78.2	74.7	71.5	69.3
3	90.3	79.9	71.8	65.4	87.7	78.2	70.7	64.7	75.0	68.6	63.4	72.0	66.6	62.0	69.2	64.7	60.8	58.5
4	82.7	70.9	62.2	55.6	80.3	69.4	61.3	55.1	66.7	59.7	54.1	64.2	58.1	53.2	61.8	56.6	52.3	50.1
5	76.1	63.4	54.5	47.9	73.9	62.2	53.8	47.6	59.9	52.5	46.9	57.7	51.3	46.3	55.7	50.1	45.6	43.5
6	70.3	57.1	48.3	41.9	68.3	56.1	47.7	41.7	54.1	46.7	41.2	52.3	45.7	40.7	50.6	44.7	40.2	38.1
7	65.2	51.8	43.2	37.1	63.4	51.0	42.7	36.9	49.3	41.9	36.5	47.7	41.1	36.1	46.2	40.3	35.7	33.7
8	60.8	47.4	38.9	33.1	59.1	46.6	38.6	33.0	45.1	37.9	32.7	43.8	37.2	32.4	42.5	36.5	32.1	30.2
9	56.8	43.5	35.3	29.8	55.3	42.8	35.0	29.7	41.6	34.5	29.5	40.4	33.9	29.2	39.2	33.3	29.0	27.2
10	53.3	40.2	32.3	27.1	51.9	39.6	32.1	27.0	38.5	31.6	26.8	37.4	31.1	26.6	36.4	30.6	26.4	24.6

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Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	15.64 W
RMS Input voltage feed V,RMS	120 V
RMS Input current feed I,RMS	0.13 A
Volt-Amp or apparent power = V,RMS*I,RMS	15.8 VA
Displacement factor of AC power feed	0.99
Power factor of AC current feed	0.99
Total harmonic distortion of the current	6.516%
Total harmonic distortion of the voltage	0.0913%

Input power curve



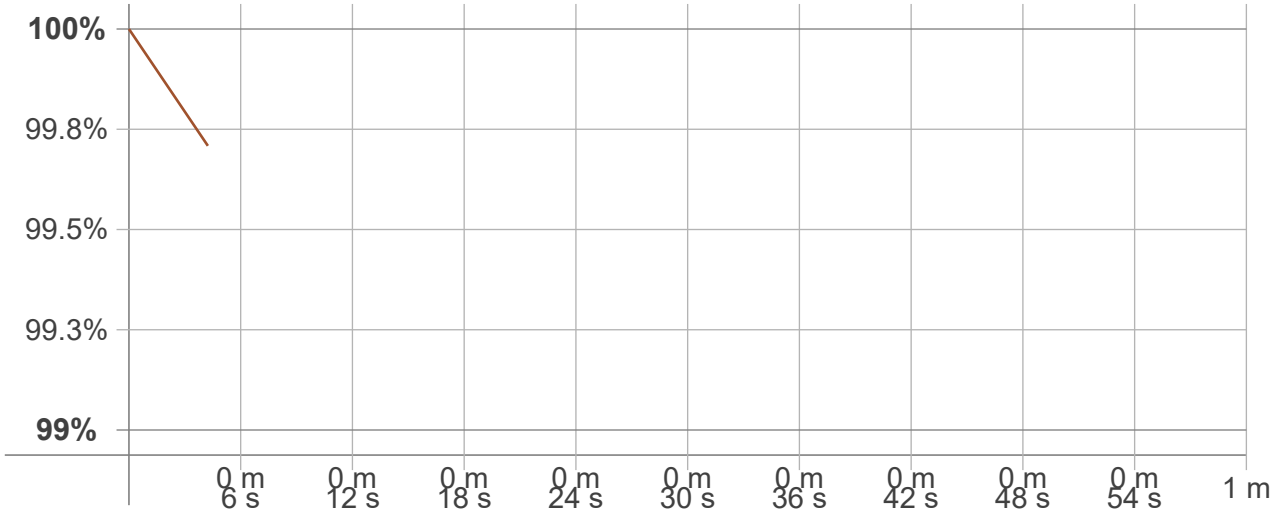
Efficiency

Radiated power efficiency	29.99
Lumen efficiency	100.2 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	3407 K
Stable change max	2%	CCT shift	0 K
Minimum time	15 min	CCT end	3407 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	1572 lm
Warmup variation	-0.2913%	Output change	-4.5807 lm
		Output end	1568 lm

Stabilization Curve



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Flicker TLA details

Flicker Meter Type	Viso Systems LabFlicker
Frequency of input power	60.0 Hz
Flicker/TLA sample rate	NaN samples/s

Measurement time

PstLM	180 sec.
All other indices	1,5 sec,

Flicker indices according to Illuminating Engineering Society (IES)

Flicker frequency	NaN Hz
Percent Flicker	NaN %
Flicker index	NaN

TLA indices (re IEC TR 61547-1, IEC 61000-3-3 and IEC 61000-4-15)

PstLM value (F < 80 Hz)	NaN
SVM value (80 < F < 2000 Hz)	NaN

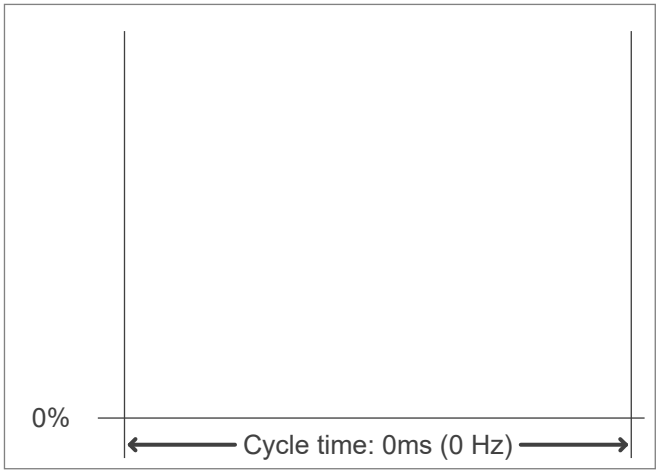
Flicker indices according to California Energy Commission (CEC) 2016b

JA8/10 40 Hz	NaN %
JA8/10 90 Hz	NaN %
JA8/10 200 Hz	NaN %
JA8/10 400 Hz	NaN %
JA8/10 1000 Hz	NaN %

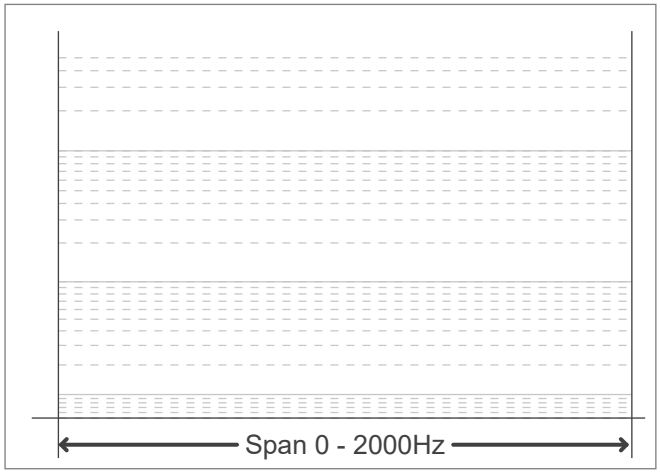
Flicker indices according to Lighting Research Center (2015)

Perception metric, Assist Mp	NaN

Flicker frame (frame of one flicker period in time domain)



Flicker FFT (flicker curve in frequency domain)



IEEE 1789 Frequency/modulation plot

