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	43.06 W

Tested Light Source

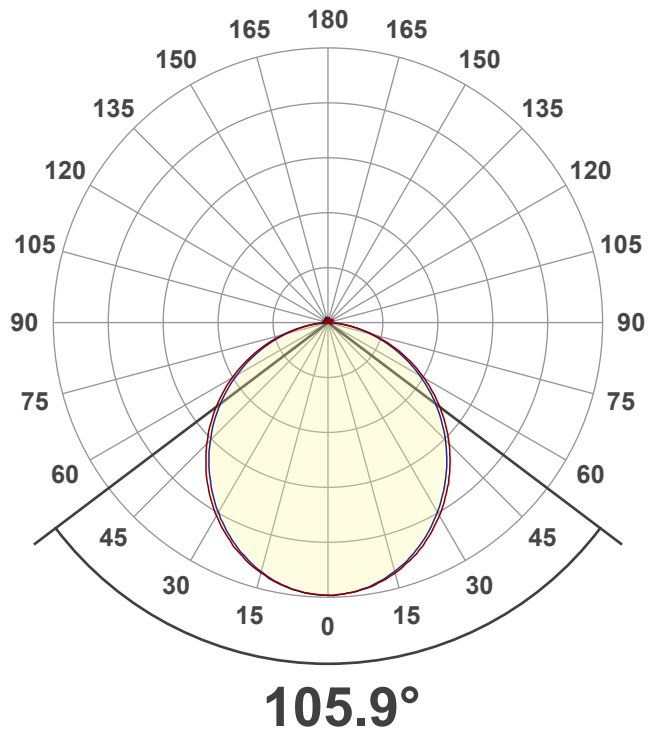
Luminaire	WETBPRO2-LIN-FLSH-LED35-HO-04-SAL-NU-SC-DM01
Basic Luminous Shape	NONE
Item No.	
Manufacturer	Prudential Lighting
Description	

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)	3862 lm – 2.92% / 97.08%
Efficiency	89.69 lm/W
Peak Intensity	1415 cd
Correlated Color Temperature, CCT	3448 K
Color Rendering Index	CRI 84.2

Polar light distribution diagram

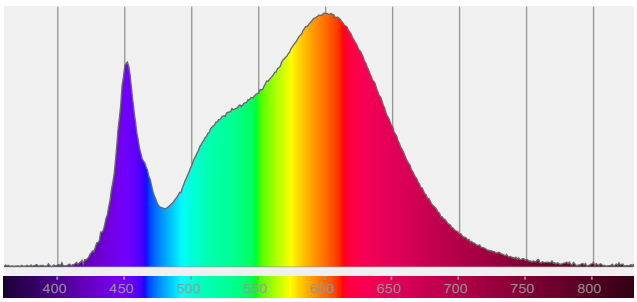
Unit: 0-100% of peak intensity



Zonal Lumen Summary:

VA/HA	0°	22.5°	45°	67.5°	90°
0°	1413 cd	1413 cd	1413 cd	1413 cd	1413 cd
5°	1404 cd	1405 cd	1404 cd	1402 cd	1404 cd
15°	1344 cd	1342 cd	1337 cd	1334 cd	1335 cd
25°	1229 cd	1225 cd	1216 cd	1210 cd	1213 cd
35°	1072 cd	1066 cd	1052 cd	1047 cd	1049 cd
45°	887.9 cd	878.4 cd	863 cd	857.4 cd	860.7 cd
55°	682.5 cd	675.6 cd	657 cd	654.2 cd	656.7 cd
65°	466.6 cd	456.9 cd	442.1 cd	441.4 cd	442.1 cd
75°	243.4 cd	239.7 cd	230.1 cd	231.5 cd	229.2 cd
85°	51.53 cd	57.42 cd	56.74 cd	52.89 cd	47.8 cd
90°	7.474 cd	8.475 cd	9.091 cd	8.946 cd	5.389 cd

Spectral power distribution



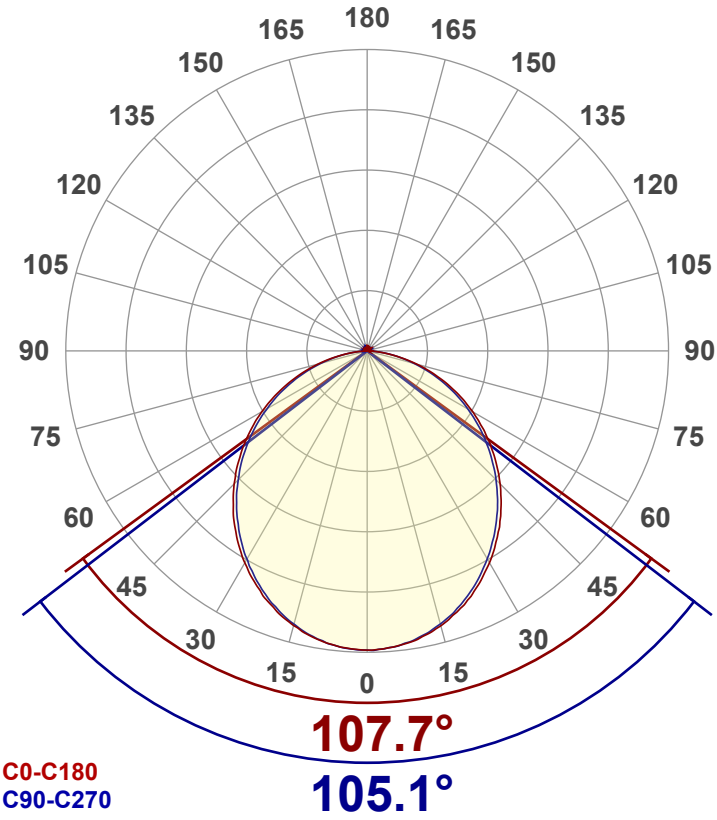
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	3862 lm
Lumen Up% / Down%	2.92% / 97.08%
Peak Intensity	1415 cd
Beam Angle (50%-FWHM)	105.9°

EU Ecodesign parameters

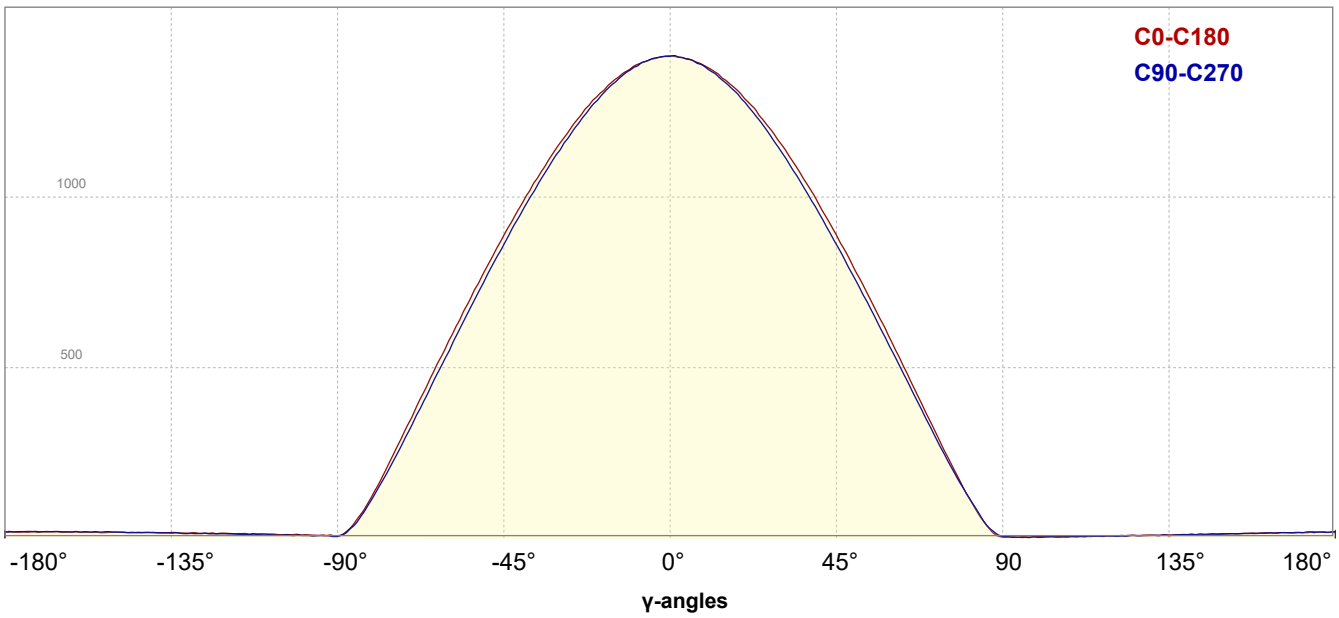
Directionality (DLS or NDLS)	NDLS
Ecodesign Useful Luminous Flux	3862 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	77.63%
In 90° cone	53.71%

Linear distribution diagram

Intensity [cd]

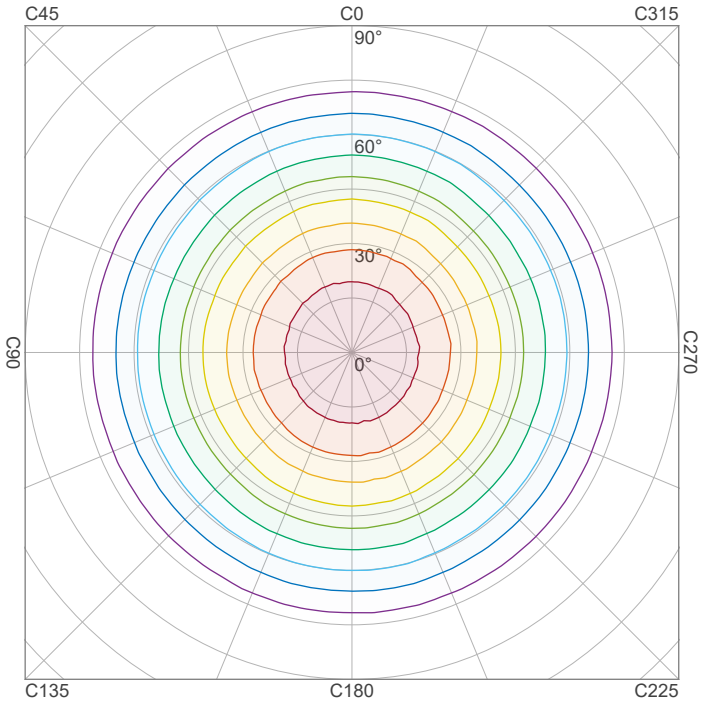


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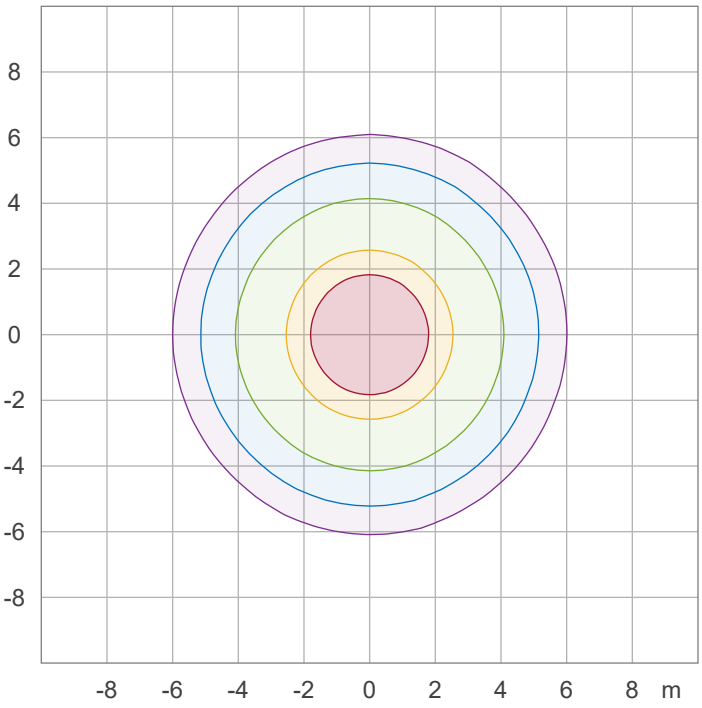
Iso-intensity Diagram (Iso-candela)



90 %	1273.6 cd
80 %	1132.1 cd
70 %	990.6 cd
60 %	849.1 cd
50 %	707.6 cd
40 %	566.0 cd
30 %	424.5 cd
20 %	283.0 cd
10 %	141.5 cd

Peak intensity: 1415.1 cd
Number of c-planes: 72

Iso-illuminance Diagram (Iso-lux)



50.0 %	78.6 lx
30.0 %	47.1 lx
10.0 %	15.7 lx
5.0 %	7.86 lx
3.0 %	4.71 lx

Peak illuminance: 157 lx
Mounting height: 3 m
Number of c-planes: 72

Prudential Lighting

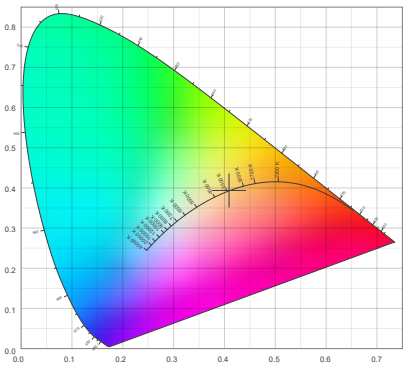
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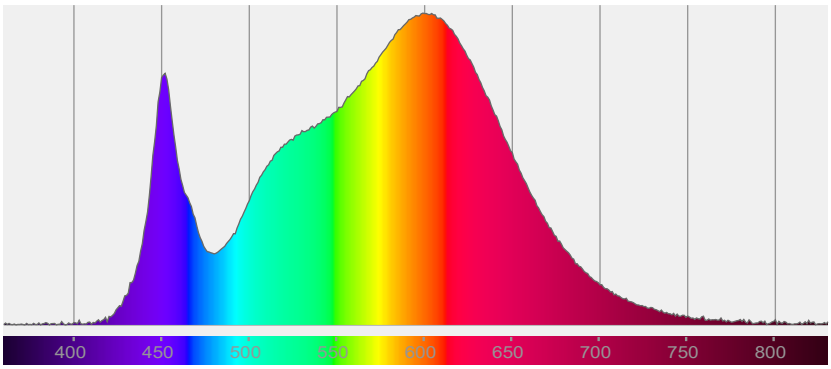
Color details

Correlated Color Temperature, Target	CCT = 3448 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 3448 K	Color deviation from BBL	Duv = 0.0005
Color Rendering Index	CRI 84.2	Color coordinates CIE 1931	(x;y) = (0.4090;0.3937)
Color Rendering Index, R9 (red)	R9 = 11.4	Color coordinate CIEs 1960	(u;v) = (0.2369;0.3420)
Color Rendering TM30-18	Rf 85.4	Color coordinate CIEs 1976	(u';v') = (0.2369;0.5130)
	Rg 95.8	Color Quality Scale	CQS = 83.8

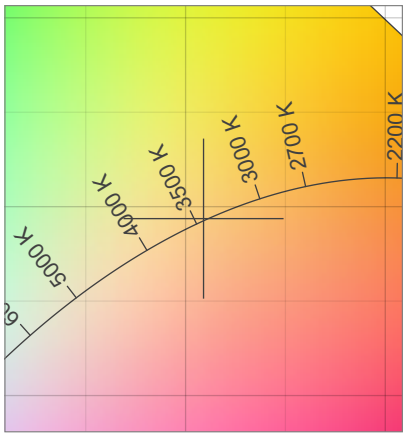
CIE 1931 Chromaticity diagram



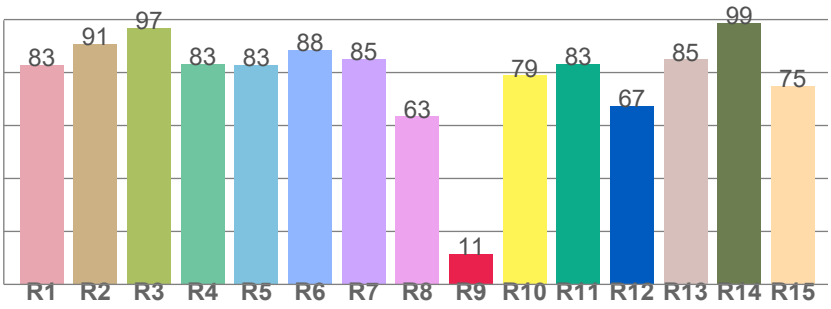
Spectral power distribution



CIE 1931 Chromaticity - zoomed



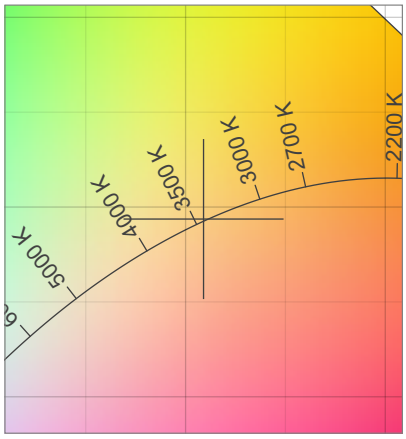
Color Rendering Index per reference color (CIE 1995)



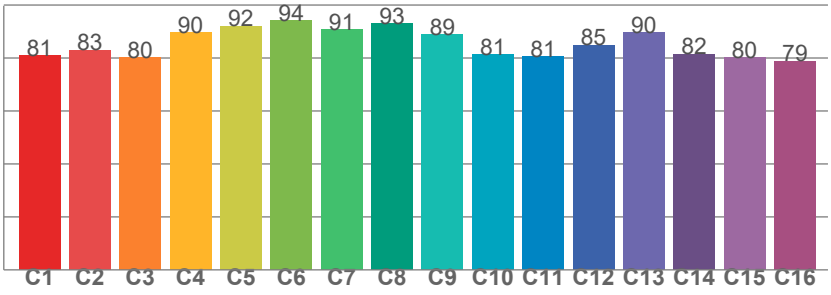
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.8	90.9	96.7	83.4	82.8	88.3	85.2	63.4	11.4	78.9	83.4	67.2	84.9	98.6	75.0

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
80.8	83.0	80.3	89.7	92.1	94.3	90.9	93.0	88.8	81.4	80.7	84.9	89.6	81.5	80.4	78.9

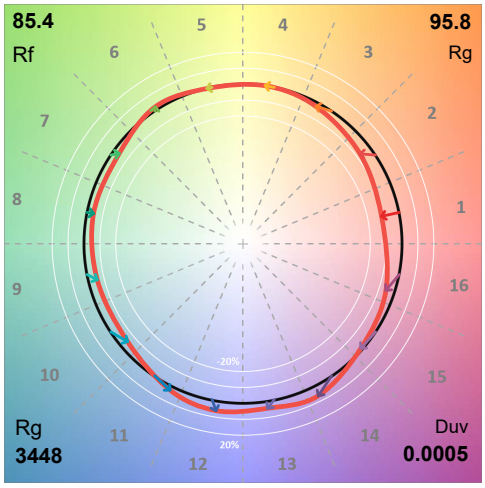
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Color details - ANSI/IES TM-30-18 Color Rendition Report

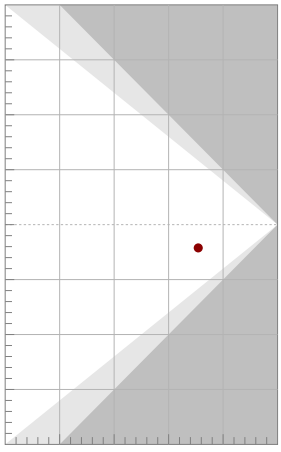
Color Vector Graphic



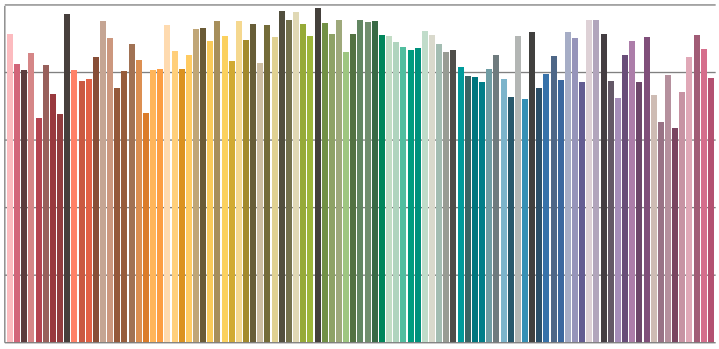
Color Distortion Graphic



Gamut Index vs. Fidelity Index

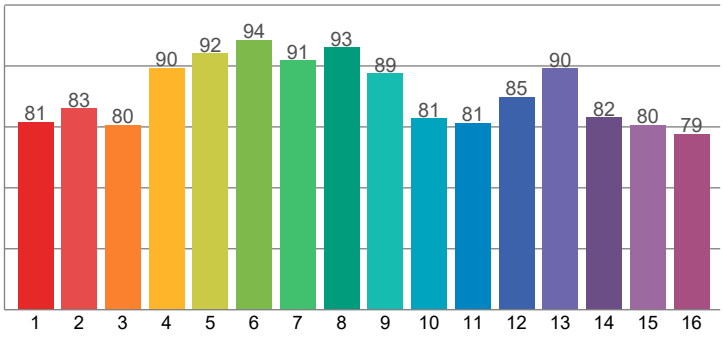


Color Rendition by Color Evaluation Sample (CES)

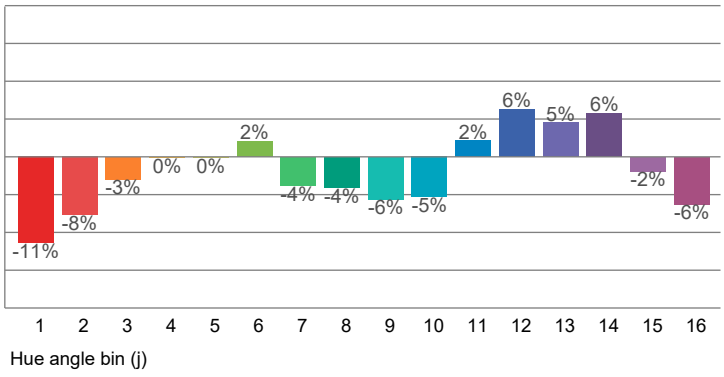


Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Local Chroma Shift (per hue bin)



CIE x	0.4090
CIE y	0.4090
CIE u'	0.2369
CIE v'	0.5130

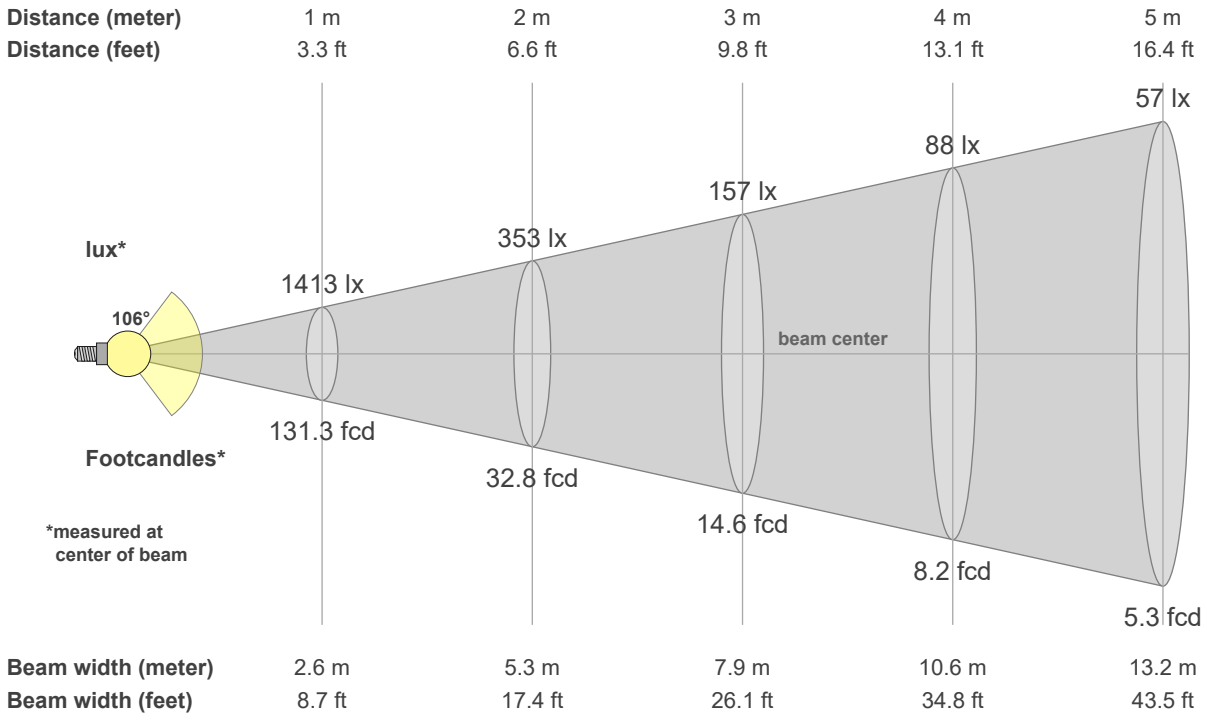
CIE	13.3-1995
Ra	84.2
R9	11.4

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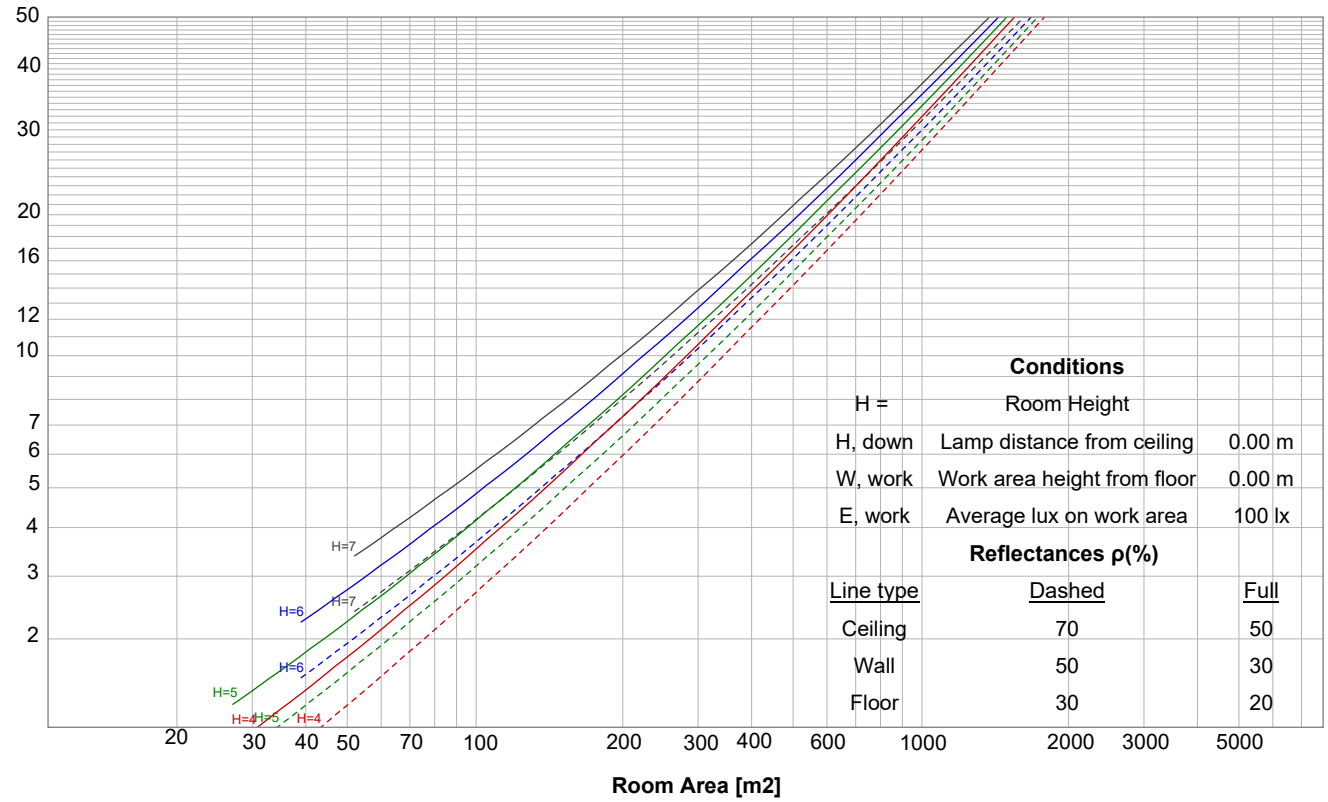
Print date 8/10/2026

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
1413	353	157	88	57	39	29	22	17	14	12	10	8	7	6	6	5	4	4	4	lux
131.3	32.8	14.6	8.2	5.3	3.6	2.7	2.1	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	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
1413	1404	1383	1344	1292	1229	1155	1072	982	888	787	683	576	467	353	243	137	52	7	8	cd
100%	99%	98%	95%	91%	87%	82%	76%	70%	63%	56%	48%	41%	33%	25%	17%	10%	4%	1%	1%	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
1413	1404	1377	1335	1280	1213	1134	1049	958	861	760	657	549	442	334	229	134	48	5	3	cd
100%	99%	97%	94%	91%	86%	80%	74%	68%	61%	54%	46%	39%	31%	24%	16%	10%	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
1413	1405	1381	1343	1290	1228	1156	1074	984	888	786	682	574	462	351	240	133	47	3	4	cd
100%	99%	98%	95%	91%	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
1413	1405	1379	1336	1280	1213	1135	1052	960	861	761	655	545	438	329	225	128	44	6	8	cd
100%	99%	98%	95%	91%	86%	80%	74%	68%	61%	54%	46%	39%	31%	23%	16%	9%	3%	0%	1%	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	118.4	118.4	118.4	118.4	115.3	115.3	115.3	115.3	109.5	109.5	109.5	104.2	104.2	104.2	99.4	99.4	99.4	97.1
1	108.3	103.6	99.4	95.6	105.3	101.1	97.3	93.8	96.3	93.2	90.3	91.9	89.4	87.0	87.9	85.8	84.0	81.7
2	98.6	90.5	83.8	78.1	95.7	88.4	82.2	77.0	84.3	79.2	74.7	80.6	76.4	72.6	77.2	73.7	70.6	68.3
3	90.0	79.6	71.5	65.1	87.3	77.8	70.3	64.4	74.4	68.1	62.8	71.3	65.9	61.4	68.4	63.8	60.0	57.7
4	82.4	70.6	61.9	55.3	79.9	69.1	61.0	54.8	66.2	59.2	53.7	63.5	57.5	52.7	61.1	55.9	51.6	49.4
5	75.9	63.1	54.3	47.7	73.6	61.9	53.5	47.3	59.4	52.1	46.5	57.1	50.8	45.8	55.0	49.5	45.0	42.8
6	70.1	56.9	48.1	41.7	68.0	55.8	47.5	41.4	53.7	46.3	40.8	51.8	45.2	40.2	49.9	44.2	39.6	37.5
7	65.0	51.6	43.0	36.9	63.1	50.7	42.5	36.6	48.9	41.5	36.2	47.2	40.6	35.7	45.6	39.7	35.3	33.2
8	60.5	47.1	38.7	32.9	58.8	46.3	38.3	32.7	44.8	37.5	32.4	43.3	36.8	32.0	41.9	36.0	31.6	29.7
9	56.6	43.3	35.2	29.7	55.0	42.6	34.8	29.5	41.2	34.2	29.2	39.9	33.5	28.9	38.7	32.9	28.6	26.8
10	53.1	40.0	32.1	26.9	51.6	39.3	31.8	26.8	38.2	31.3	26.5	37.0	30.7	26.3	36.0	30.2	26.0	24.3

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Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	43.06 W
RMS Input voltage feed V,RMS	120 V
RMS Input current feed I,RMS	0.36 A
Volt-Amp or apparent power = V,RMS*I,RMS	43.7 VA
Displacement factor of AC power feed	0.99
Power factor of AC current feed	0.99
Total harmonic distortion of the current	8.783%
Total harmonic distortion of the voltage	0.1037%

Input power curve



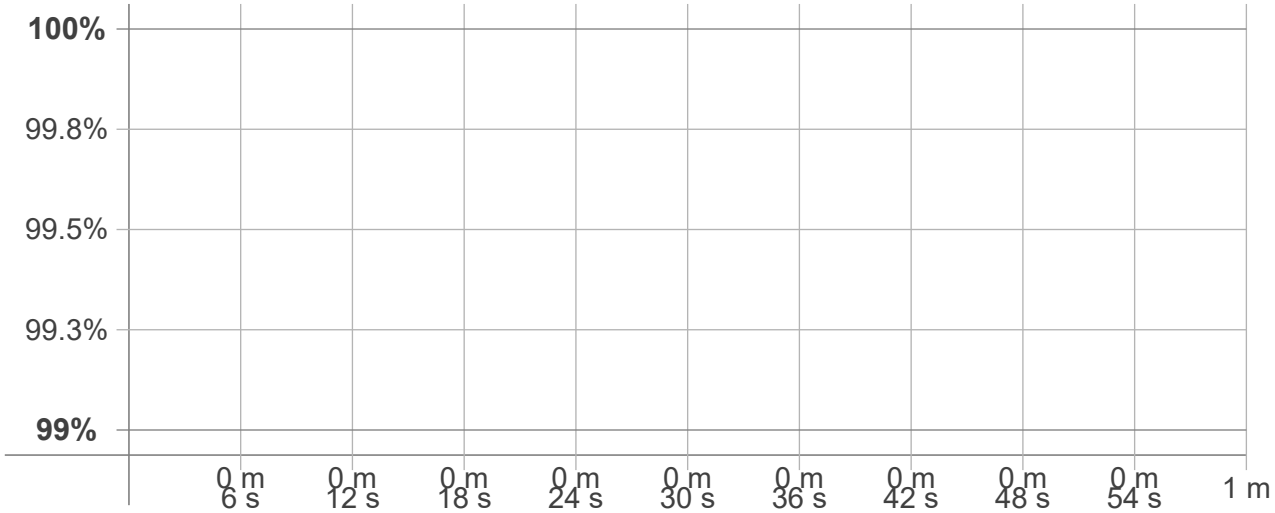
Efficiency

Radiated power efficiency	26.98
Lumen efficiency	89.69 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	n/a	CCT start	NaN K
Stable change max	n/a%	CCT shift	NaN K
Minimum time	n/a	CCT end	3448 K
Warmup Result		**Output Change**	
Total warmup time	n/a	Output start	NaN lm
Warmup variation	NaN%	Output change	NaN lm
		Output end	3862 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

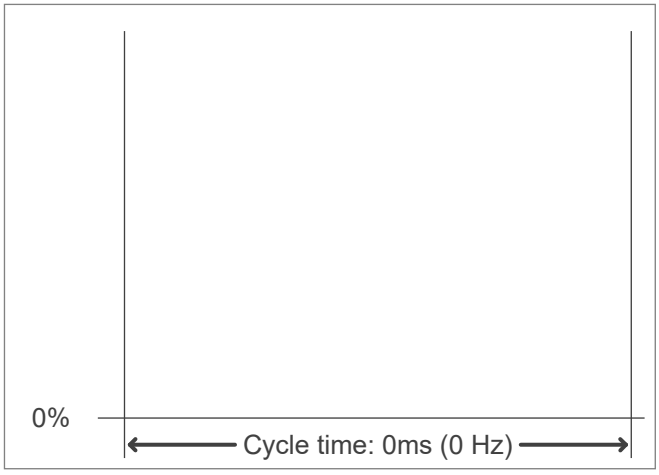
Flicker indices according to California Energy Commission (CEC) 2016b

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 %

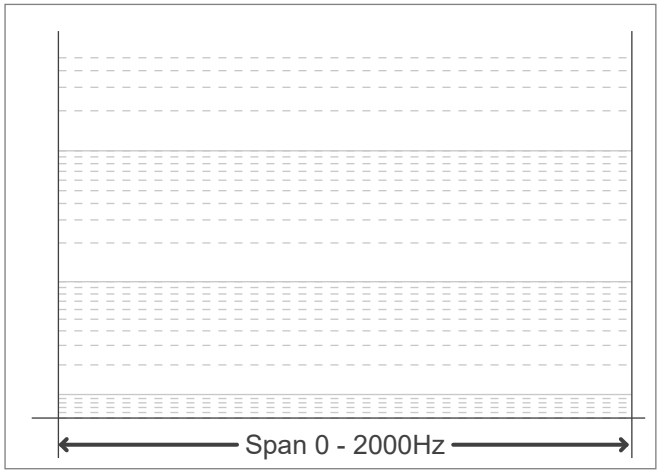
Flicker indices according to Lighting Research Center (2015)

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

