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	23.1 W

Tested Light Source

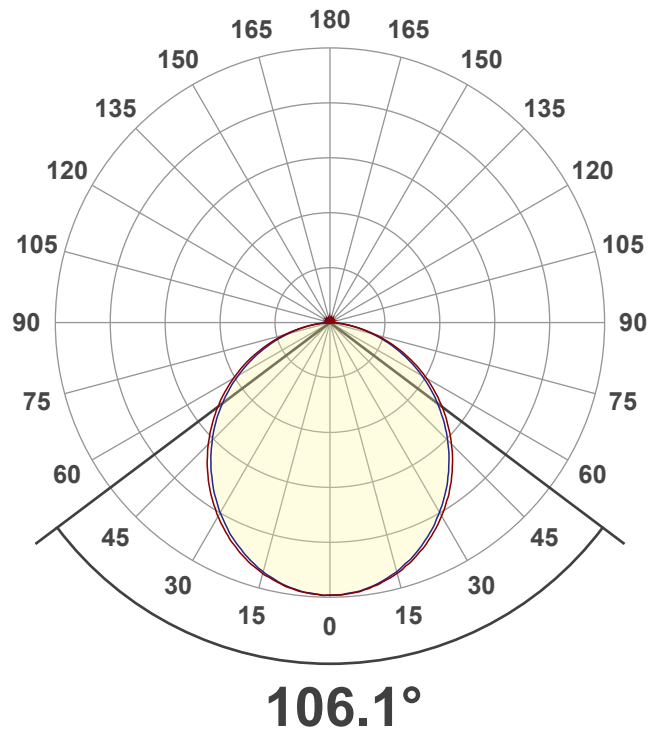
Luminaire	WETBPRO2-LIN-FLSH-LED35-MO-04-SAL-NU-SC-DM01
Basic Luminous Shape	NONE
Item No.	
Manufacturer	Prudential Lighting
Description	

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)	2292 lm – 2.841% / 97.16%
Efficiency	99.2 lm/W
Peak Intensity	837.6 cd
Correlated Color Temperature, CCT	3438 K
Color Rendering Index	CRI 84.6

Polar light distribution diagram

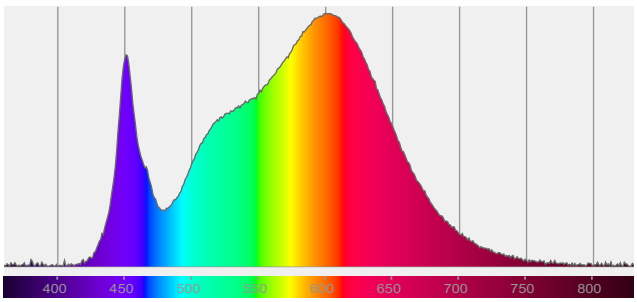
Unit: 0-100% of peak intensity



Zonal Lumen Summary:

VA/HA	0°	22.5°	45°	67.5°	90°
0°	836 cd	836 cd	836 cd	836 cd	836 cd
5°	832.1 cd	831.6 cd	830.7 cd	830.4 cd	830.6 cd
15°	796.3 cd	794.1 cd	793.1 cd	790.5 cd	790.9 cd
25°	728.2 cd	724.9 cd	720 cd	717.6 cd	717.7 cd
35°	637.2 cd	632.1 cd	625.5 cd	620.9 cd	622.2 cd
45°	527 cd	521.3 cd	511.8 cd	509.4 cd	510.2 cd
55°	406.6 cd	400.9 cd	391 cd	389 cd	389.5 cd
65°	277 cd	272.7 cd	264.6 cd	263.7 cd	262.1 cd
75°	145.6 cd	144.5 cd	140.9 cd	138.9 cd	135.7 cd
85°	31.6 cd	36.05 cd	37.55 cd	32.76 cd	29.53 cd
90°	7.208 cd	6.236 cd	7.176 cd	6.637 cd	3.576 cd

Spectral power distribution



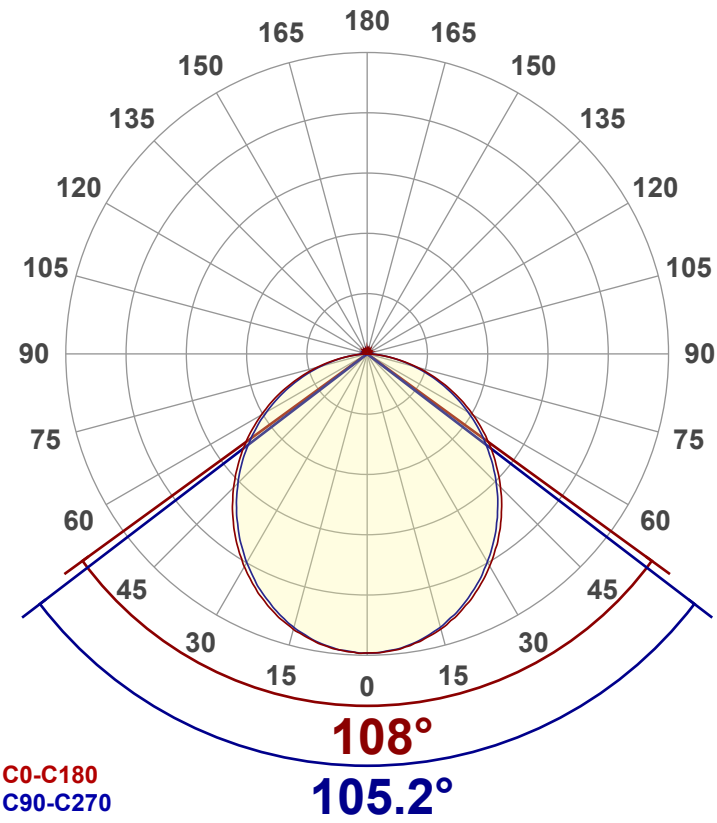
Prudential Lighting

Light measurement results

Print date 8/10/2026

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	2292 lm
Lumen Up% / Down%	2.841% / 97.16%
Peak Intensity	837.6 cd
Beam Angle (50%-FWHM)	106.1°

EU Ecodesign parameters

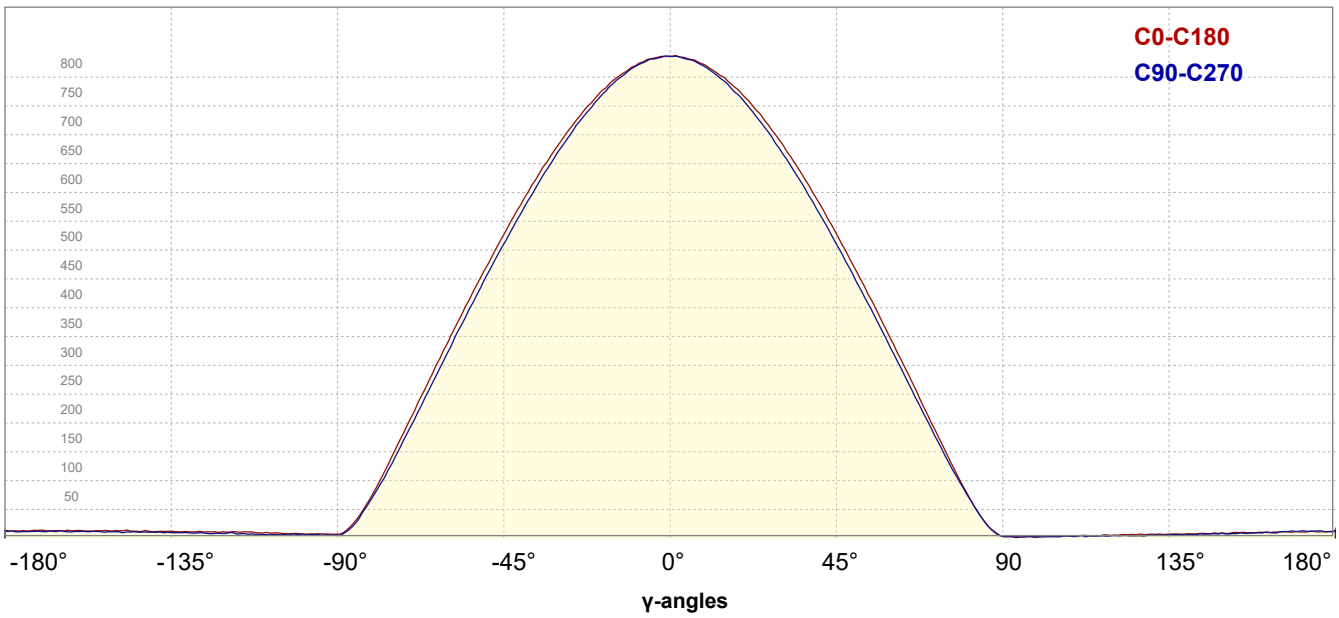
Directionality (DLS or NDLS)	NDLS
Ecodesign Useful Luminous Flux	2292 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	77.56%
In 90° cone	53.62%

Linear distribution diagram

Intensity [cd]

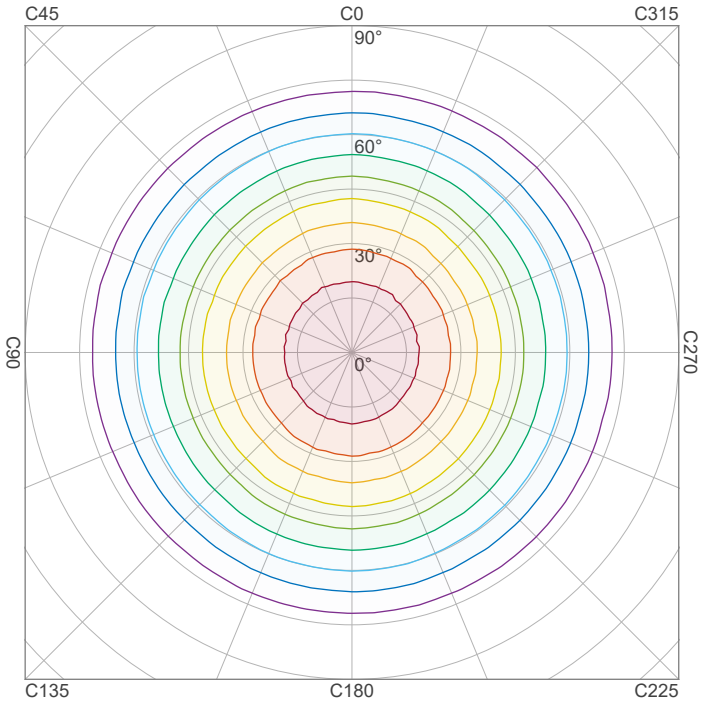


Prudential Lighting

Light measurement results

Print date 8/10/2026

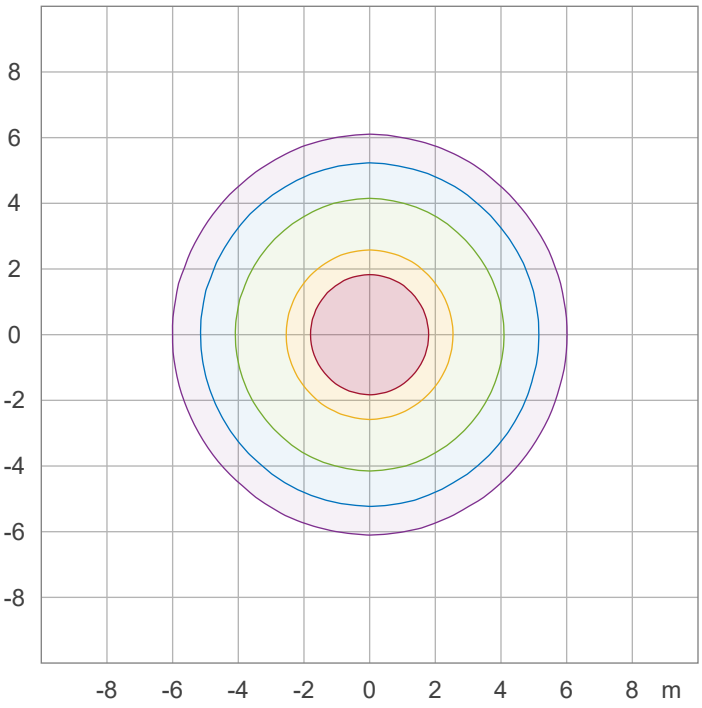
Iso-intensity Diagram (Iso-candela)



90 %	753.7 cd
80 %	670.0 cd
70 %	586.2 cd
60 %	502.5 cd
50 %	418.7 cd
40 %	335.0 cd
30 %	251.2 cd
20 %	167.5 cd
10 %	83.7 cd

Peak intensity: 837.5 cd
Number of c-planes: 72

Iso-illuminance Diagram (Iso-lux)



50.0 %	46.5 lx
30.0 %	27.9 lx
10.0 %	9.3 lx
5.0 %	4.65 lx
3.0 %	2.79 lx

Peak illuminance: 93 lx
Mounting height: 3 m
Number of c-planes: 72

Prudential Lighting

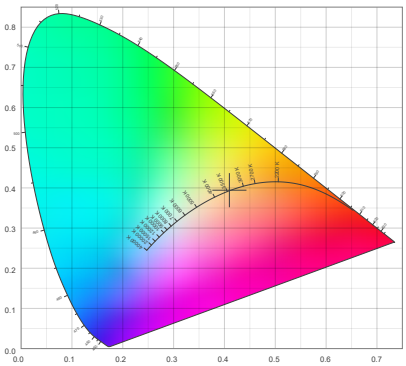
Light measurement results

Print date 8/10/2026

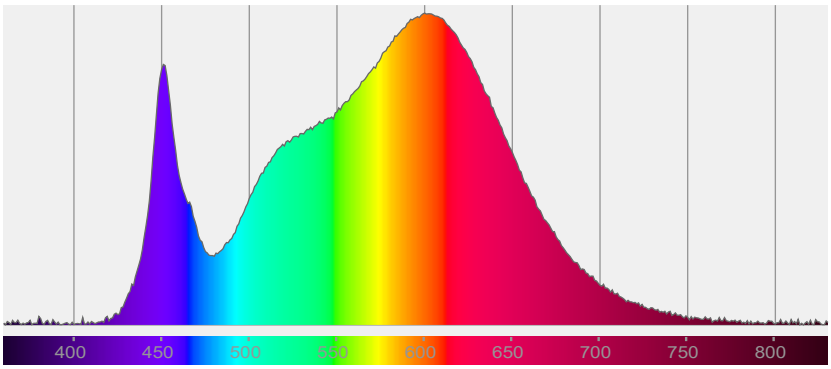
Color details

Correlated Color Temperature, Target	CCT = 3438 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 3438 K	Color deviation from BBL	Duv = 0.0006
Color Rendering Index	CRI 84.6	Color coordinates CIE 1931	(x;y) = (0.4097;0.3943)
Color Rendering Index, R9 (red)	R9 = 12.9	Color coordinate CIEs 1960	(u;v) = (0.2371;0.3423)
Color Rendering TM30-18	Rf 85.7	Color coordinate CIEs 1976	(u';v') = (0.2371;0.5134)
	Rg 96.3	Color Quality Scale	CQS = 84.2

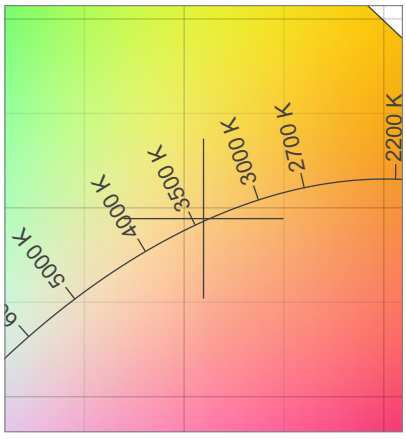
CIE 1931 Chromaticity diagram



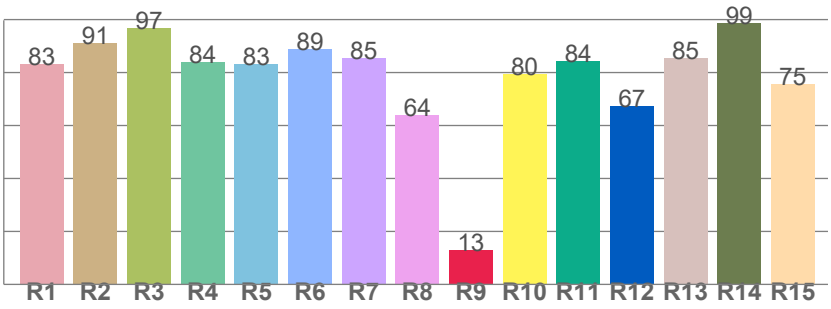
Spectral power distribution



CIE 1931 Chromaticity - zoomed



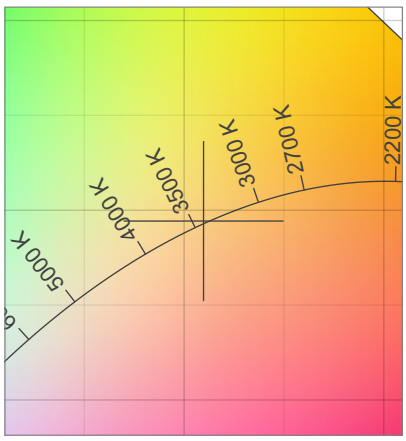
Color Rendering Index per reference color (CIE 1995)



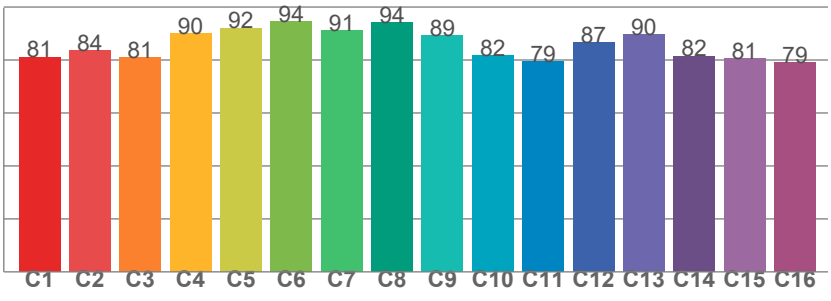
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.3	91.2	96.9	84.0	83.3	88.8	85.4	64.0	12.9	79.5	84.2	67.3	85.4	98.7	75.5

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
81.2	83.5	80.9	90.0	92.1	94.4	91.1	94.1	89.3	81.7	79.4	86.7	89.5	81.6	80.6	79.0

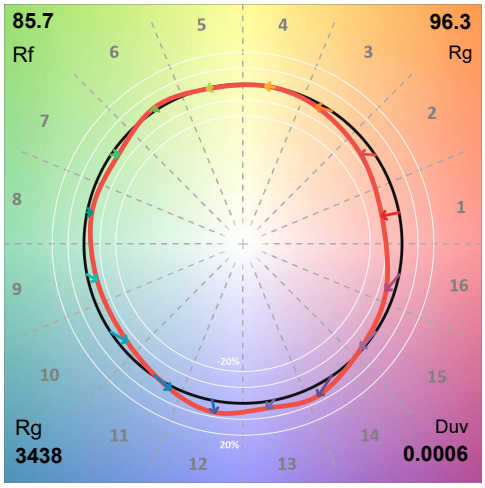
Prudential Lighting

Light measurement results

Print date 8/10/2026

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

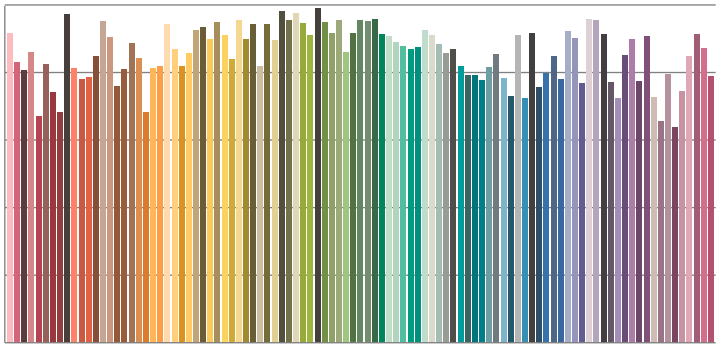
Color Vector Graphic



Color Distortion Graphic

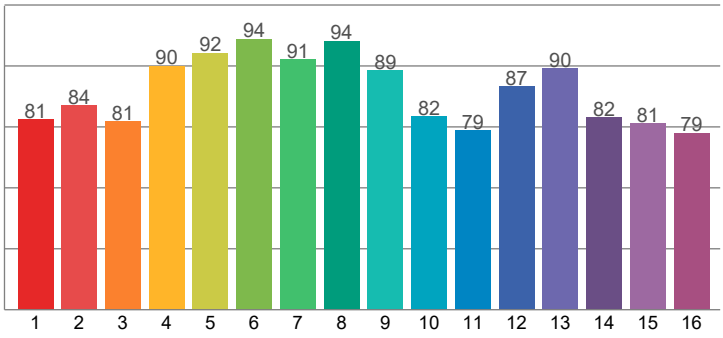


Color Rendition by Color Evaluation Sample (CES)



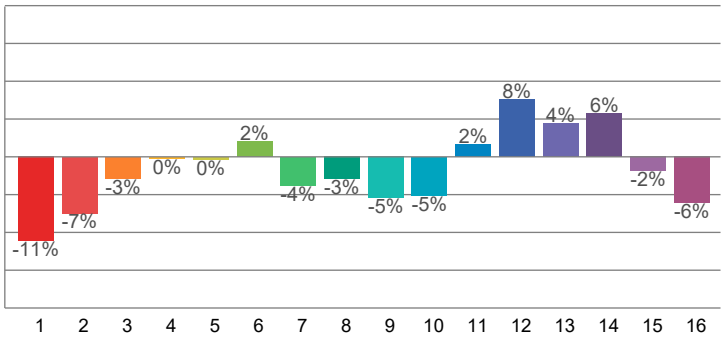
Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



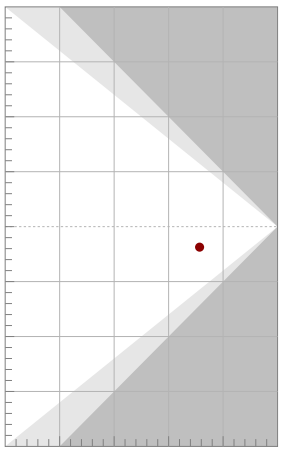
Hue angle bin (j)

Local Chroma Shift (per hue bin)



Hue angle bin (j)

Gamut Index vs. Fidelity Index



Gamut index (Rg)

Fidelity index (Rf)

CIE x	0.4097
CIE y	0.4097
CIE u'	0.2371
CIE v'	0.5134

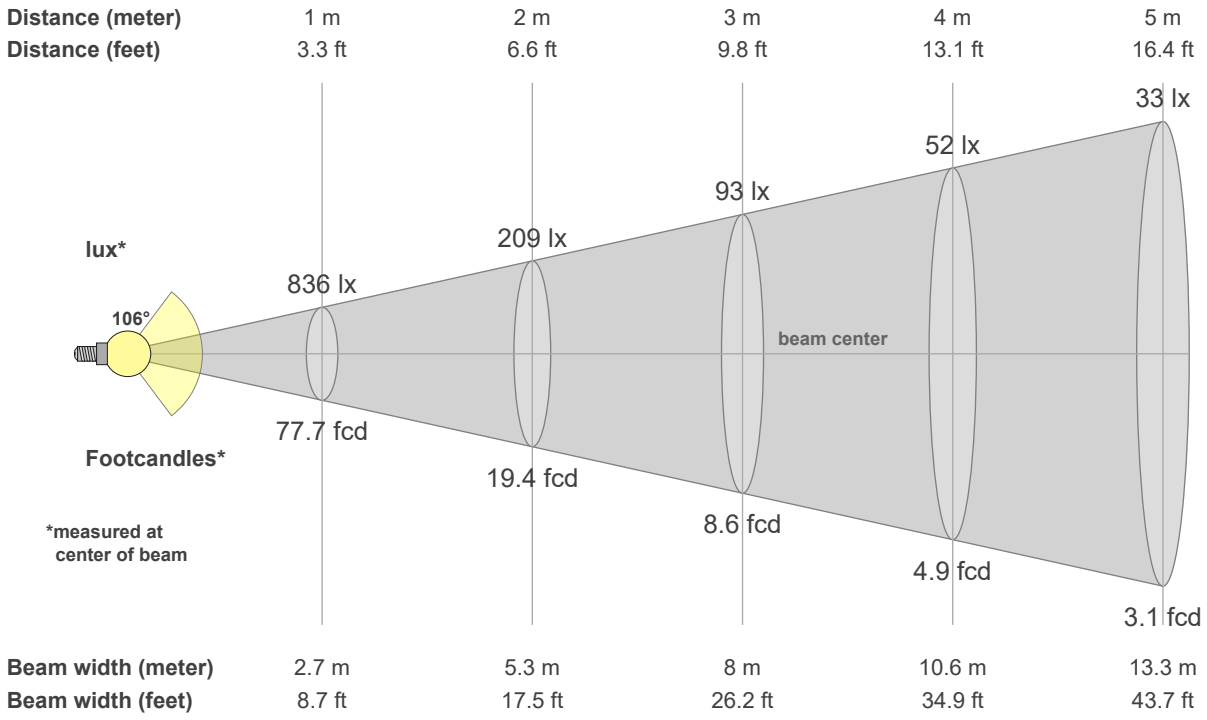
CIE	13.3-1995
Ra	84.6
R9	12.9

Prudential Lighting

Light measurement results

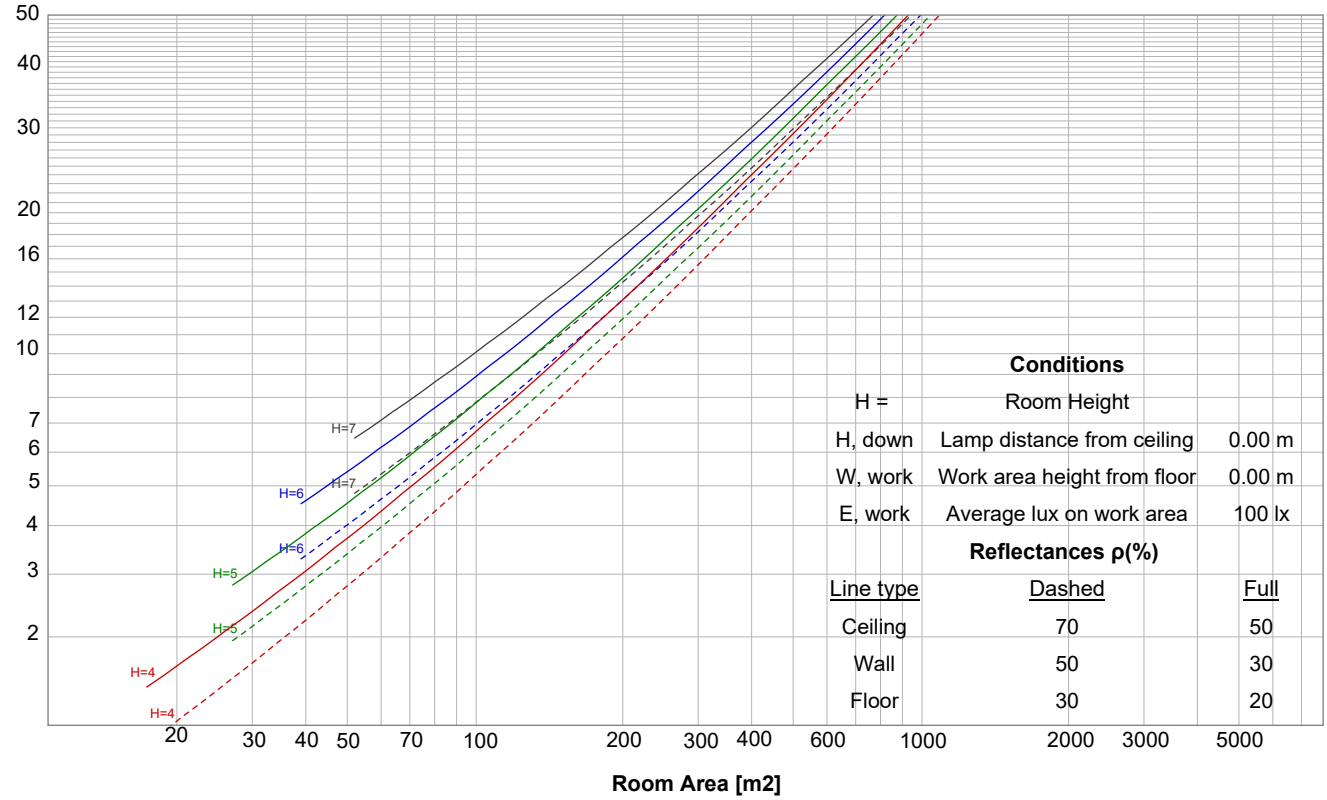
Print date 8/10/2026

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
836	209	93	52	33	23	17	13	10	8	7	6	5	4	4	3	3	3	2	2	lux
77.7	19.4	8.6	4.9	3.1	2.2	1.6	1.2	1	0.8	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	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
836	832	818	796	766	728	685	637	584	527	468	407	342	277	211	146	82	32	7	8	cd
100%	100%	98%	95%	92%	87%	82%	76%	70%	63%	56%	49%	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
836	831	816	791	758	718	672	622	567	510	450	390	326	262	199	136	79	30	4	2	cd
100%	99%	98%	95%	91%	86%	80%	74%	68%	61%	54%	47%	39%	31%	24%	16%	9%	4%	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
836	832	819	797	767	730	687	638	585	528	468	406	342	277	209	144	82	29	3	2	cd
100%	99%	98%	95%	92%	87%	82%	76%	70%	63%	56%	49%	41%	33%	25%	17%	10%	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
836	831	816	791	758	719	673	623	568	511	452	389	325	261	196	133	77	27	6	6	cd
100%	99%	98%	95%	91%	86%	81%	75%	68%	61%	54%	46%	39%	31%	23%	16%	9%	3%	1%	1%	of 0°val

Prudential Lighting

Light measurement results

Print date 8/10/2026

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
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	104.3	104.3	104.3	99.4	99.4	99.4	97.2
1	108.3	103.6	99.4	95.6	105.3	101.0	97.2	93.8	96.3	93.1	90.3	91.9	89.4	87.0	87.9	85.8	84.0	81.7
2	98.6	90.4	83.7	78.1	95.7	88.3	82.1	76.9	84.3	79.1	74.7	80.6	76.3	72.6	77.2	73.7	70.5	68.2
3	89.9	79.5	71.5	65.1	87.2	77.7	70.3	64.3	74.4	68.0	62.8	71.2	65.9	61.3	68.3	63.8	59.9	57.7
4	82.4	70.5	61.9	55.2	79.9	69.0	60.9	54.7	66.2	59.2	53.6	63.5	57.5	52.6	61.0	55.9	51.6	49.3
5	75.8	63.1	54.2	47.6	73.5	61.8	53.5	47.2	59.4	52.1	46.5	57.1	50.7	45.7	55.0	49.4	45.0	42.8
6	70.0	56.8	48.0	41.6	68.0	55.7	47.4	41.3	53.7	46.3	40.7	51.7	45.2	40.2	49.9	44.1	39.6	37.5
7	65.0	51.6	42.9	36.8	63.1	50.6	42.4	36.6	48.8	41.5	36.1	47.2	40.6	35.7	45.6	39.7	35.2	33.2
8	60.5	47.1	38.7	32.9	58.8	46.3	38.3	32.7	44.7	37.5	32.3	43.3	36.7	31.9	41.9	36.0	31.6	29.7
9	56.5	43.2	35.1	29.6	55.0	42.5	34.8	29.5	41.2	34.1	29.1	39.9	33.5	28.9	38.7	32.9	28.6	26.7
10	53.0	39.9	32.1	26.9	51.6	39.3	31.8	26.7	38.1	31.2	26.5	37.0	30.7	26.2	35.9	30.2	26.0	24.2

Prudential Lighting

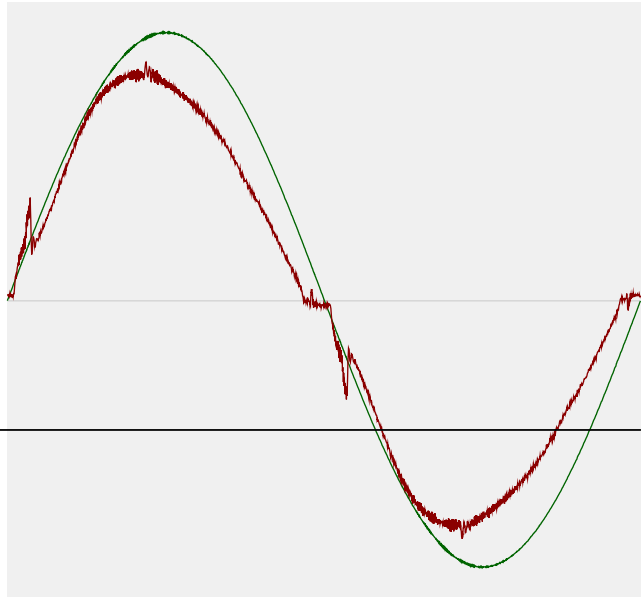
Light measurement results

Print date 8/10/2026

Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	23.1 W
RMS Input voltage feed V,RMS	120 V
RMS Input current feed I,RMS	0.20 A
Volt-Amp or apparent power = V,RMS*I,RMS	23.4 VA
Displacement factor of AC power feed	0.99
Power factor of AC current feed	0.99
Total harmonic distortion of the current	8.457%
Total harmonic distortion of the voltage	0.0547%

Input power curve



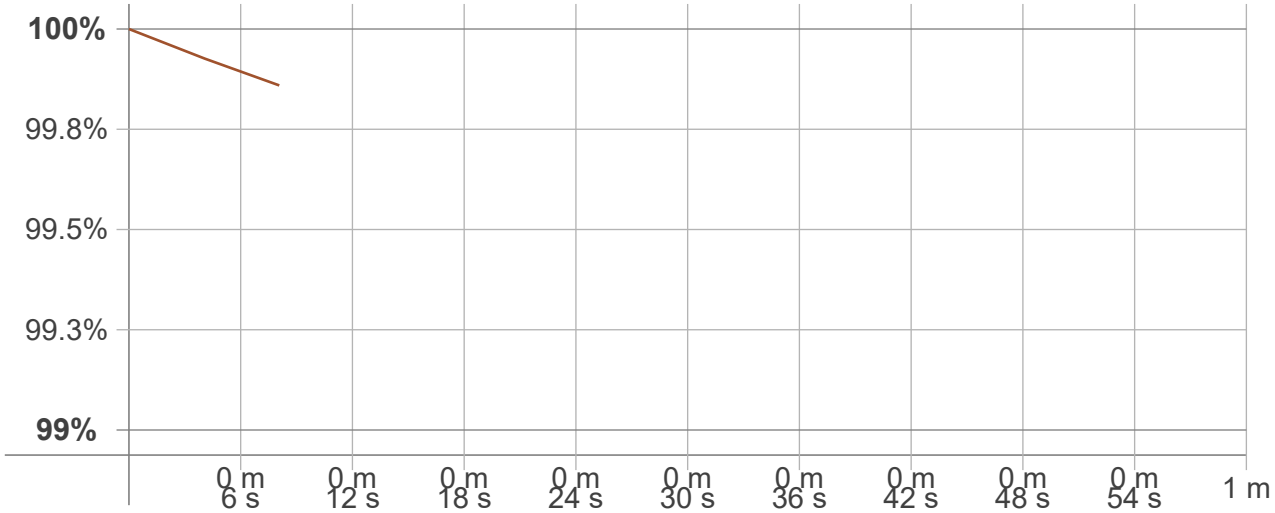
Efficiency

Radiated power efficiency	29.89
Lumen efficiency	99.2 lm/W

Stabilization details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	3437 K
Stable change max	1%	CCT shift	1 K
Minimum time	15 min	CCT end	3438 K
Warmup Result		**Output Change**	
Total warmup time	Not completed	Output start	2295 lm
Warmup variation	-0.1406%	Output change	-3.2276 lm
		Output end	2292 lm

Stabilization Curve



Prudential Lighting

Light measurement results

Print date 8/10/2026

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

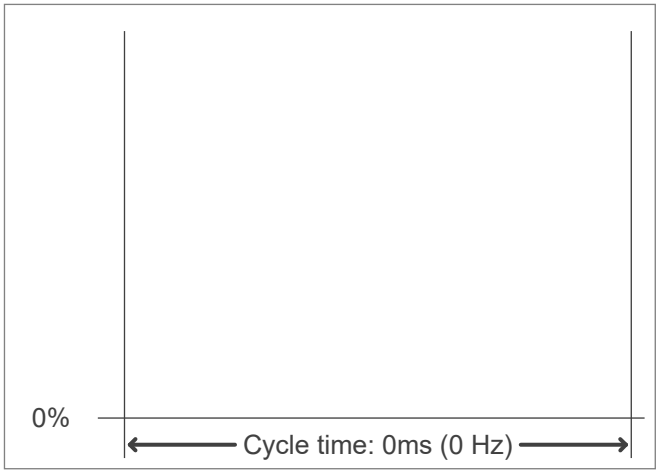
Flicker indices according to California Energy Commission (CEC) 2016b

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 %

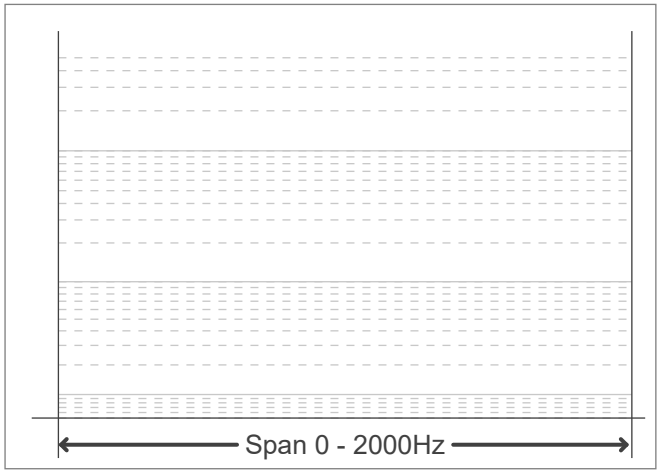
Flicker indices according to Lighting Research Center (2015)

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

