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	8/7/2026

Measurement Conditions

Tested c-planes	72 planes – 5.00°
Tested gamma resolution	1.00°
Input Power	32.6 W

Tested Light Source

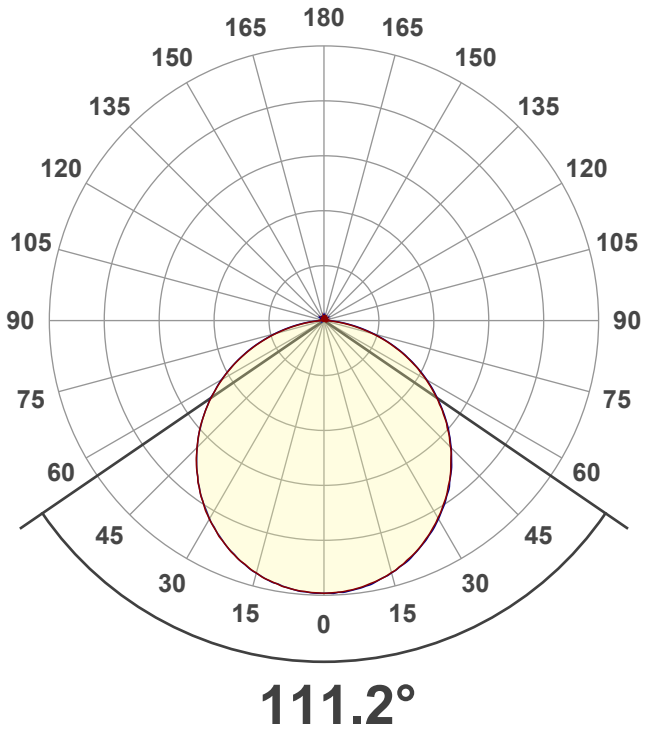
Luminaire	WETBPRO5-LIN-FLSH-LED35-SO-04-SAL-NU-SC-DM01
Basic Luminous Shape	NONE
Item No.	
Manufacturer	Prudential Lighting
Description	

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)	4219 lm – 2.684% / 97.32%
Efficiency	129.4 lm/W
Peak Intensity	1461 cd
Correlated Color Temperature, CCT	3478 K
Color Rendering Index	CRI 84.7

Polar light distribution diagram

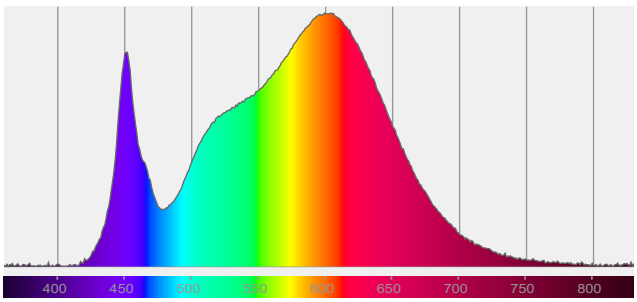
Unit: 0-100% of peak intensity



Zonal Lumen Summary:

VA/HA	0°	22.5°	45°	67.5°	90°
0°	1458 cd	1458 cd	1458 cd	1458 cd	1458 cd
5°	1449 cd	1449 cd	1447 cd	1450 cd	1453 cd
15°	1395 cd	1393 cd	1395 cd	1393 cd	1396 cd
25°	1288 cd	1287 cd	1286 cd	1288 cd	1293 cd
35°	1142 cd	1138 cd	1134 cd	1139 cd	1144 cd
45°	957.3 cd	952.4 cd	948.1 cd	953.9 cd	961.7 cd
55°	745.1 cd	744.4 cd	738.4 cd	742.9 cd	748.2 cd
65°	511.9 cd	511.8 cd	507.8 cd	513.5 cd	518.5 cd
75°	267.9 cd	268.9 cd	270.2 cd	275.9 cd	277.9 cd
85°	54.51 cd	60.93 cd	69.2 cd	70.72 cd	70.07 cd
90°	9.205 cd	11.72 cd	11.83 cd	11.28 cd	9.065 cd

Spectral power distribution



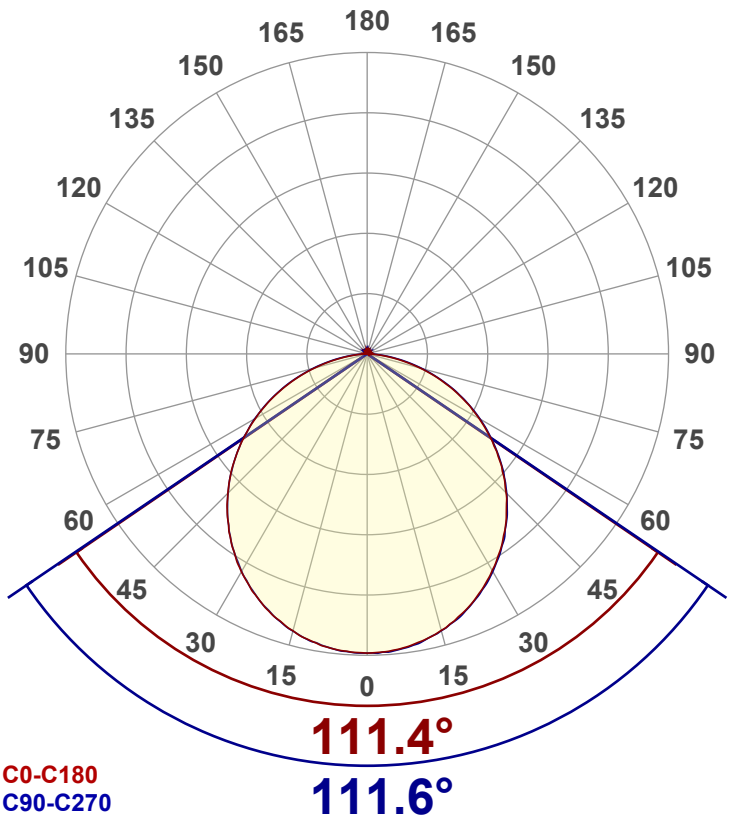
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Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	4219 lm
Lumen Up% / Down%	2.684% / 97.32%
Peak Intensity	1461 cd
Beam Angle (50%-FWHM)	111.2°

EU Ecodesign parameters

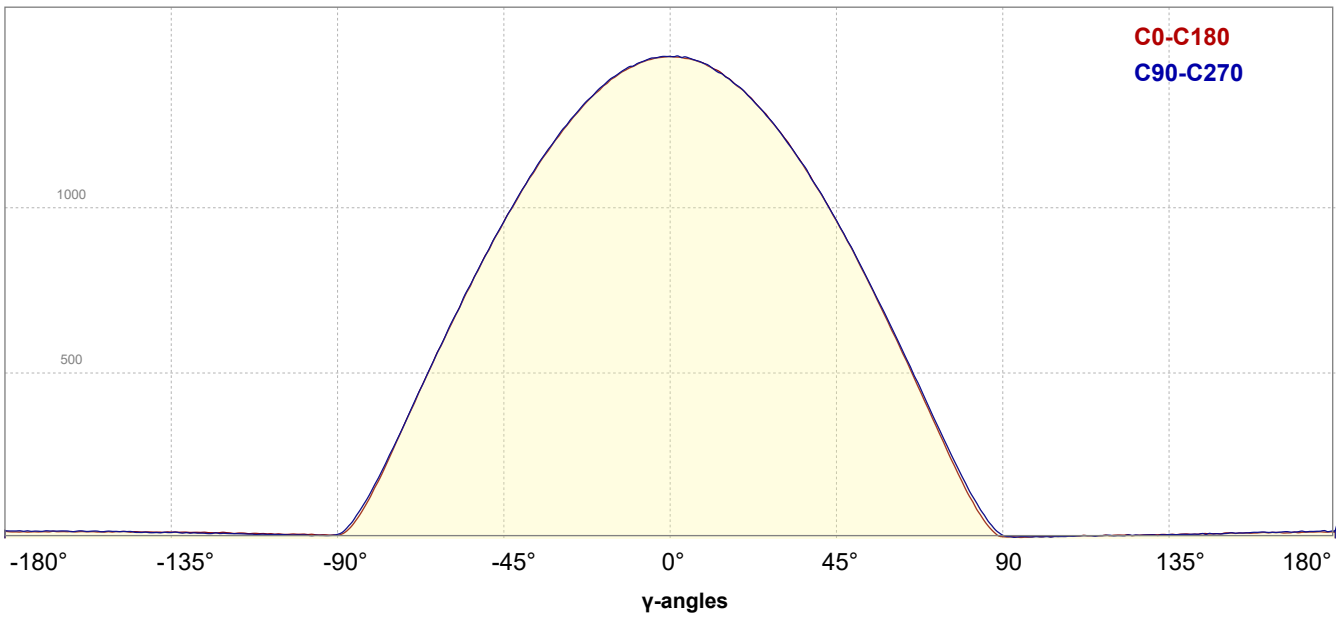
Directionality (DLS or NDLS)	NDLS
Ecodesign Useful Luminous Flux	4219 lm
Ecodesign Energy Class	E

Intensity Ratio

In 120° cone	76.8%
In 90° cone	52.41%

Linear distribution diagram

Intensity [cd]

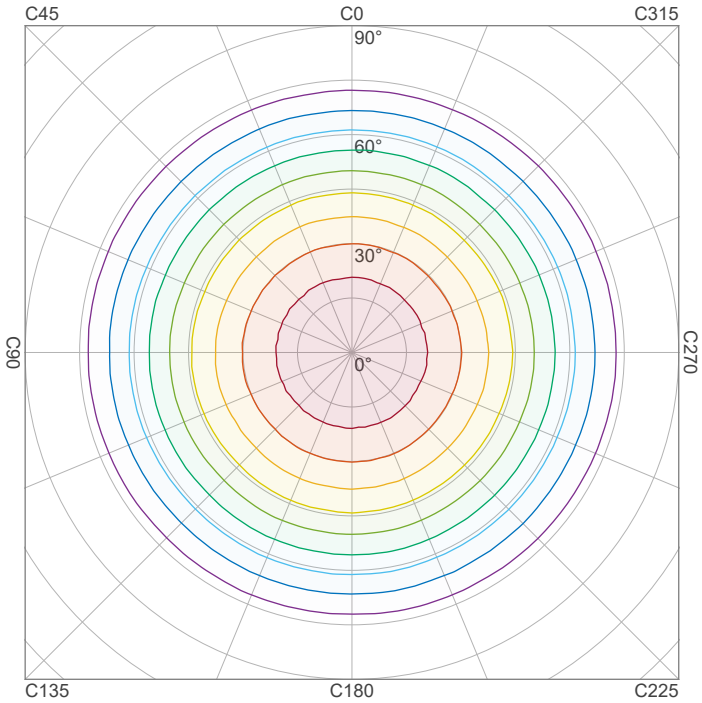


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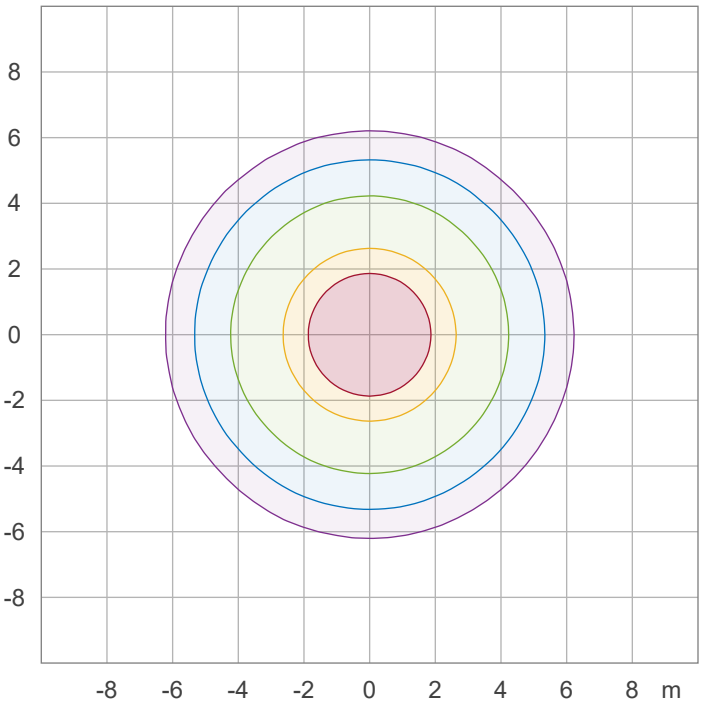
Iso-intensity Diagram (Iso-candela)



90 %	1314.6 cd
80 %	1168.6 cd
70 %	1022.5 cd
60 %	876.4 cd
50 %	730.4 cd
40 %	584.3 cd
30 %	438.2 cd
20 %	292.1 cd
10 %	146.1 cd

Peak intensity: 1460.7 cd
Number of c-planes: 72

Iso-illuminance Diagram (Iso-lux)



50.0 %	81.1 lx
30.0 %	48.7 lx
10.0 %	16.2 lx
5.0 %	8.11 lx
3.0 %	4.87 lx

Peak illuminance: 162 lx
Mounting height: 3 m
Number of c-planes: 72

Prudential Lighting

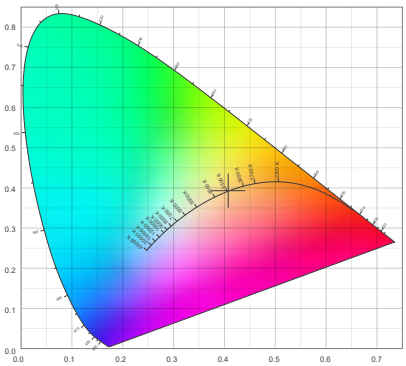
Light measurement results

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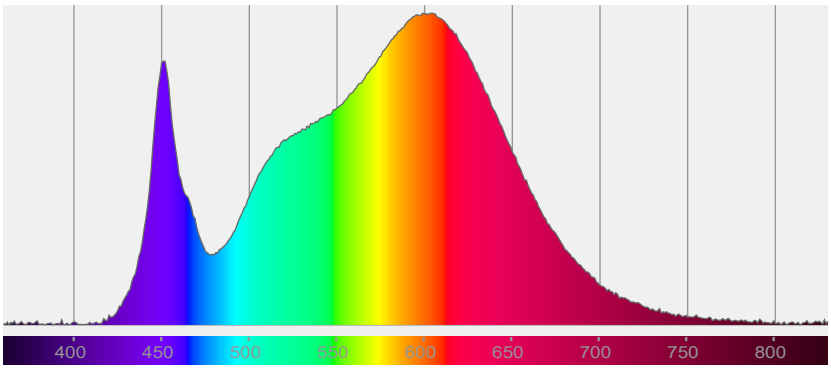
Color details

Correlated Color Temperature, Target	CCT = 3478 K	MacAdam Steps	SDCM = NaN
Correlated Color Temperature, Measured	CCT = 3478 K	Color deviation from BBL	Duv = 0.0006
Color Rendering Index	CRI 84.7	Color coordinates CIE 1931	(x;y) = (0.4074;0.3931)
Color Rendering Index, R9 (red)	R9 = 13.9	Color coordinate CIEs 1960	(u;v) = (0.2361;0.3417)
Color Rendering TM30-18	Rf 85.8	Color coordinate CIEs 1976	(u';v') = (0.2361;0.5125)
	Rg 96.1	Color Quality Scale	CQS = 84.5

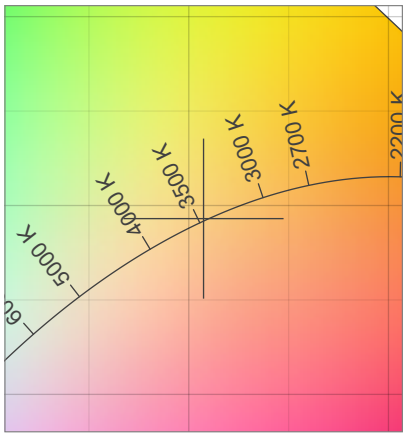
CIE 1931 Chromaticity diagram



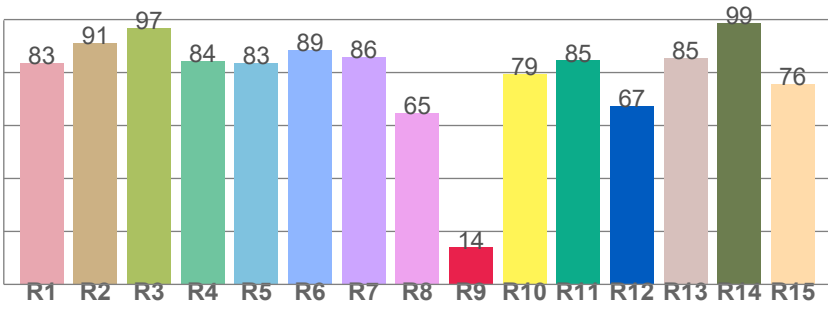
Spectral power distribution



CIE 1931 Chromaticity - zoomed



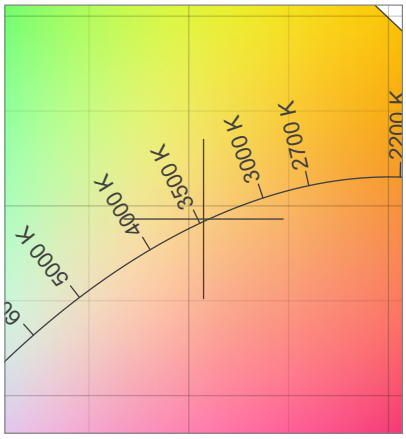
Color Rendering Index per reference color (CIE 1995)



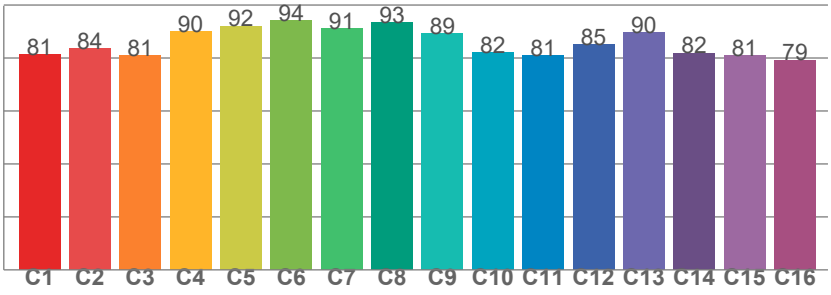
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.5	91.1	96.8	84.3	83.5	88.6	85.7	64.6	13.9	79.3	84.5	67.4	85.5	98.5	75.8

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
81.5	83.7	80.9	89.9	92.1	94.3	91.3	93.5	89.3	82.0	80.9	85.0	89.8	81.9	80.8	79.2

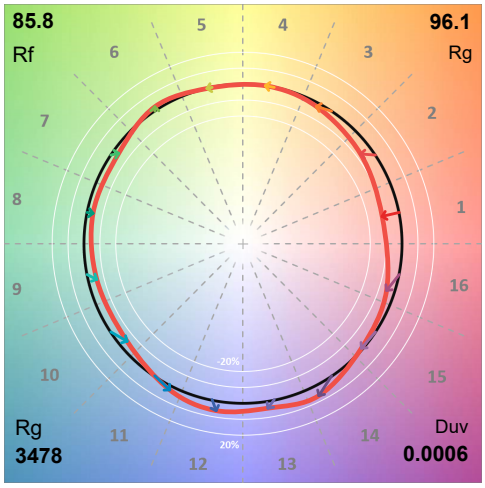
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Color details - ANSI/IES TM-30-18 Color Rendition Report

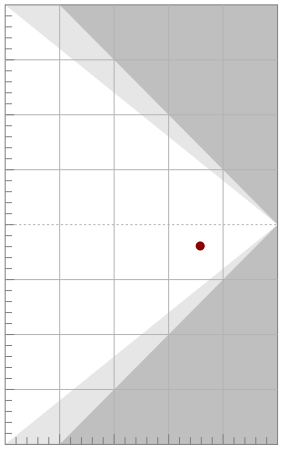
Color Vector Graphic



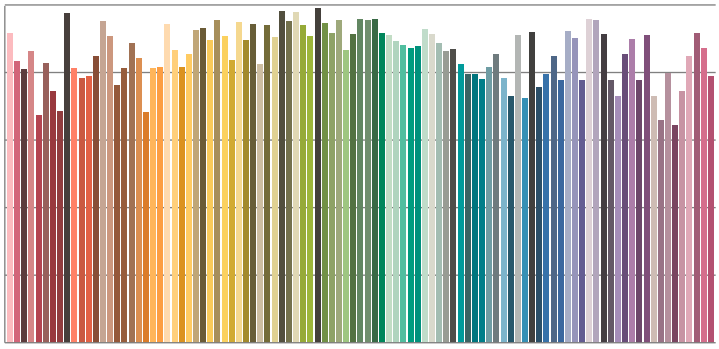
Color Distortion Graphic



Gamut Index vs. Fidelity Index

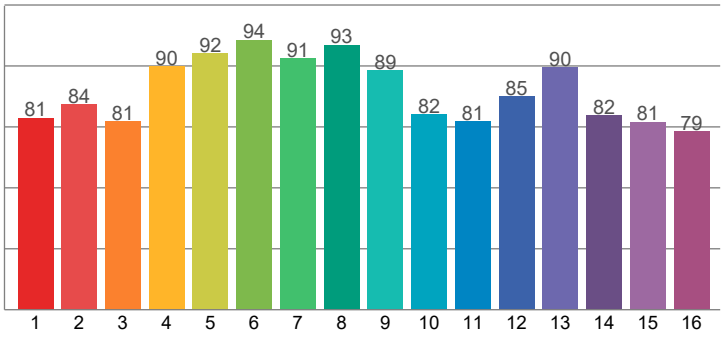


Color Rendition by Color Evaluation Sample (CES)

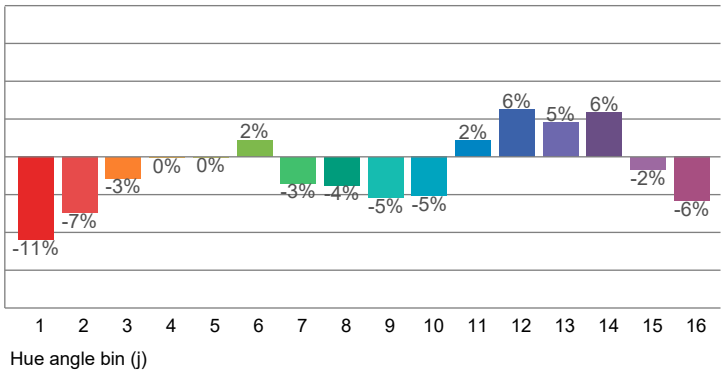


Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



Local Chroma Shift (per hue bin)



CIE x	0.4074
CIE y	0.4074
CIE u'	0.2361
CIE v'	0.5125

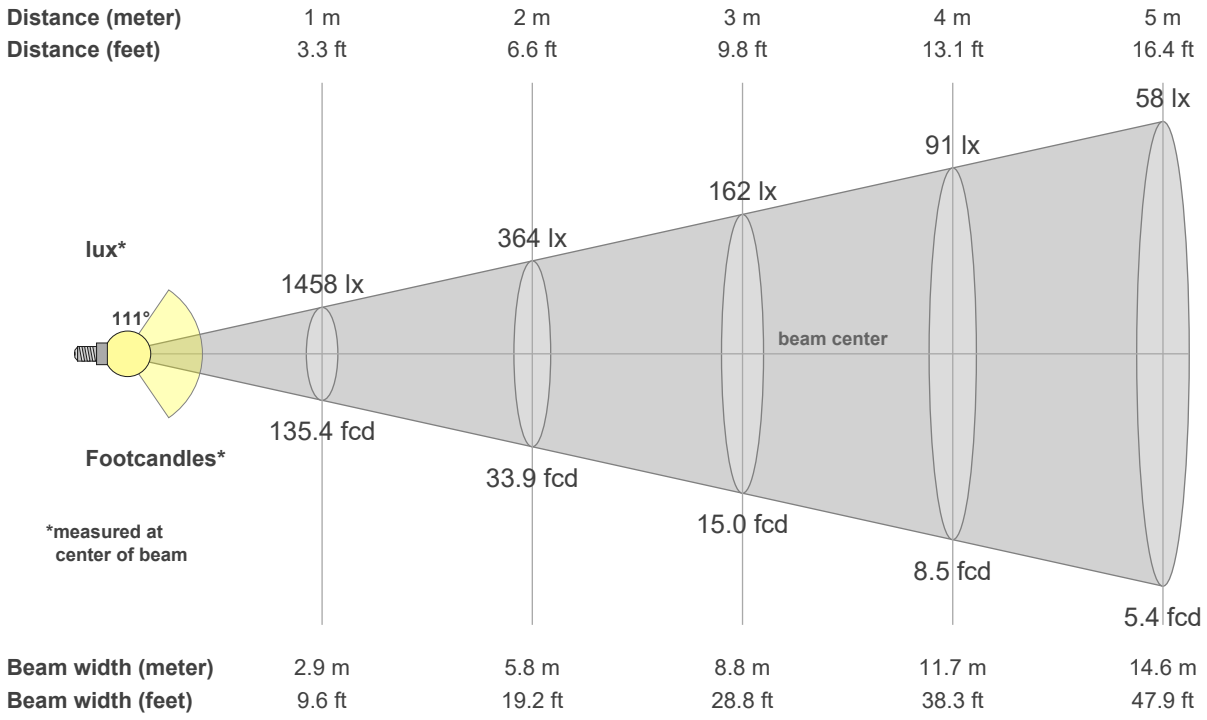
CIE	13.3-1995
Ra	84.7
R9	13.9

Prudential Lighting

Light measurement results

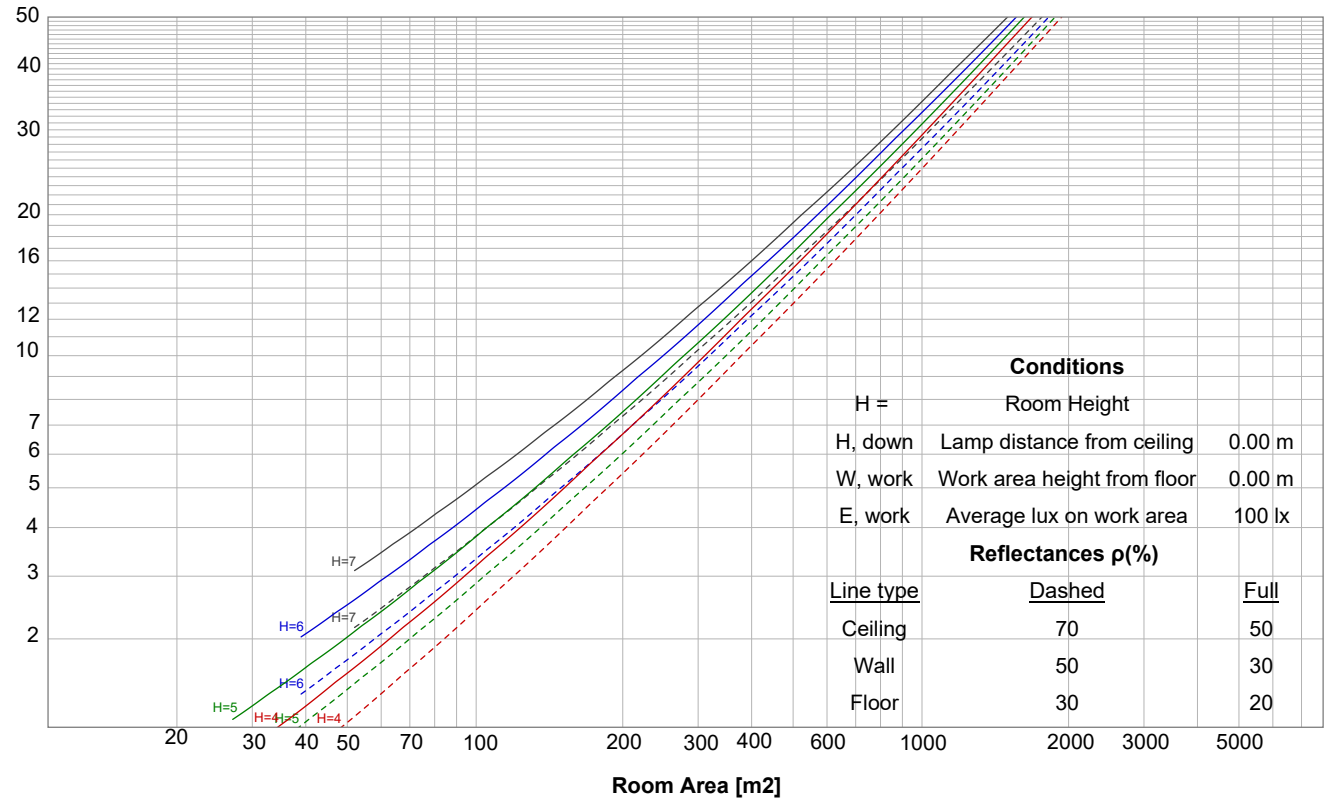
Print date 8/10/2026

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
1458	364	162	91	58	40	30	23	18	15	12	10	9	7	6	6	5	4	4	4	lux
135.4	33.9	15	8.5	5.4	3.8	2.8	2.1	1.7	1.4	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
1458	1449	1427	1395	1348	1288	1218	1142	1054	957	856	745	630	512	390	268	152	55	9	10	cd
100%	99%	98%	96%	92%	88%	84%	78%	72%	66%	59%	51%	43%	35%	27%	18%	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
1458	1453	1433	1396	1353	1293	1224	1144	1057	962	859	748	635	519	397	278	165	70	9	5	cd
100%	100%	98%	96%	93%	89%	84%	79%	73%	66%	59%	51%	44%	36%	27%	19%	11%	5%	1%	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
1458	1451	1430	1397	1352	1293	1225	1146	1056	960	857	746	628	510	388	264	147	53	5	2	cd
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	51%	43%	35%	27%	18%	10%	4%	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
1458	1453	1429	1398	1351	1291	1223	1144	1055	958	855	748	633	513	393	272	161	67	12	9	cd
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	51%	43%	35%	27%	19%	11%	5%	1%	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	109.6	109.6	109.6	104.4	104.4	104.4	99.6	99.6	99.6	97.3
1	108.1	103.4	99.1	95.2	105.1	100.8	96.9	93.4	96.1	92.9	90.0	91.7	89.1	86.7	87.7	85.6	83.7	81.4
2	98.3	90.0	83.2	77.5	95.4	87.9	81.6	76.3	83.9	78.7	74.1	80.2	75.9	72.1	76.8	73.3	70.1	67.8
3	89.6	79.0	70.8	64.3	86.8	77.2	69.7	63.6	73.8	67.4	62.1	70.7	65.3	60.7	67.8	63.2	59.3	57.0
4	82.0	70.0	61.2	54.5	79.4	68.4	60.3	53.9	65.6	58.5	52.9	62.9	56.8	51.9	60.5	55.2	50.9	48.6
5	75.3	62.5	53.5	46.8	73.0	61.2	52.8	46.5	58.8	51.4	45.7	56.5	50.0	44.9	54.4	48.7	44.2	42.0
6	69.5	56.2	47.3	40.8	67.5	55.1	46.7	40.6	53.0	45.6	40.0	51.1	44.5	39.4	49.3	43.4	38.9	36.7
7	64.5	50.9	42.2	36.0	62.6	50.0	41.7	35.8	48.2	40.8	35.4	46.5	39.9	34.9	45.0	39.0	34.5	32.5
8	60.0	46.5	38.0	32.1	58.3	45.7	37.6	31.9	44.1	36.8	31.6	42.7	36.1	31.2	41.3	35.3	30.9	28.9
9	56.0	42.6	34.4	28.9	54.5	41.9	34.1	28.7	40.6	33.4	28.4	39.3	32.8	28.1	38.1	32.2	27.9	26.0
10	52.5	39.3	31.4	26.2	51.1	38.7	31.1	26.0	37.5	30.6	25.8	36.4	30.1	25.6	35.4	29.5	25.3	23.6

Prudential Lighting

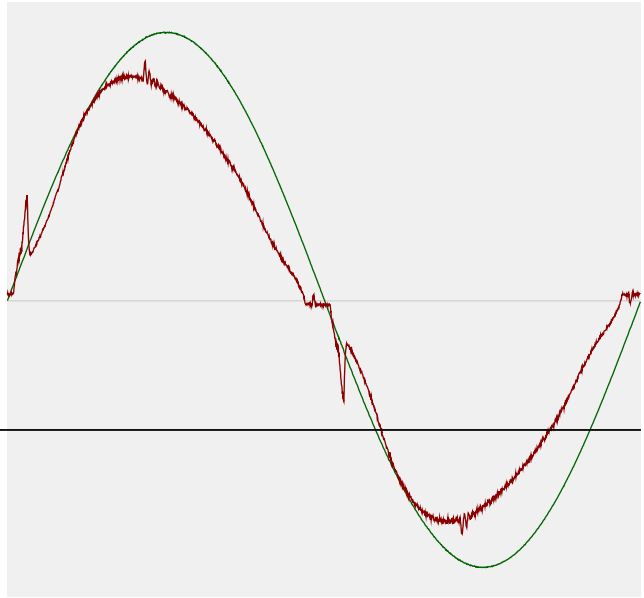
Light measurement results

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Power details

Input power	
Frequency of input power	60.0 Hz
Power feed to light source	32.6 W
RMS Input voltage feed V,RMS	120 V
RMS Input current feed I,RMS	0.28 A
Volt-Amp or apparent power = V,RMS*I,RMS	33.3 VA
Displacement factor of AC power feed	0.99
Power factor of AC current feed	0.98
Total harmonic distortion of the current	11.03%
Total harmonic distortion of the voltage	0.103%

Input power curve



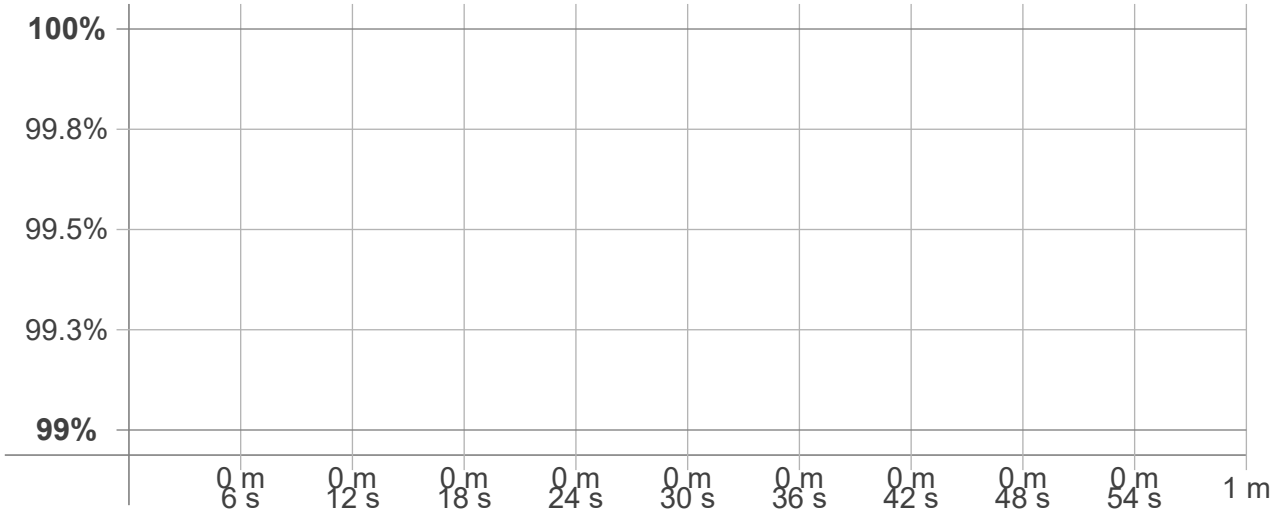
Efficiency

Radiated power efficiency	39.08
Lumen efficiency	129.4 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	3478 K
Warmup Result		**Output Change**	
Total warmup time	n/a	Output start	NaN lm
Warmup variation	NaN%	Output change	NaN lm
		Output end	4219 lm

Stabilization Curve



Prudential Lighting

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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

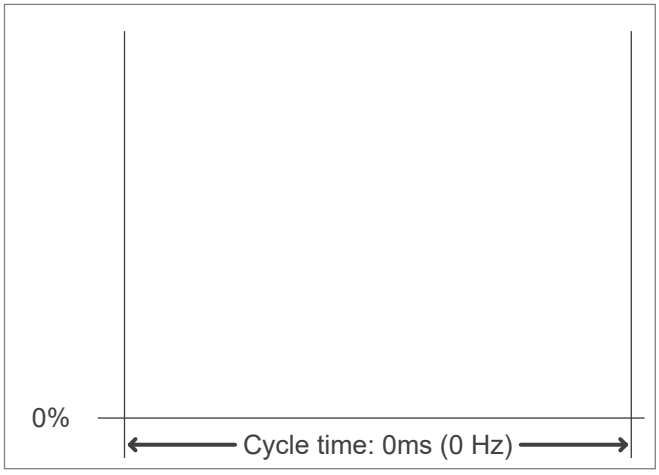
Flicker indices according to California Energy Commission (CEC) 2016b

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 %

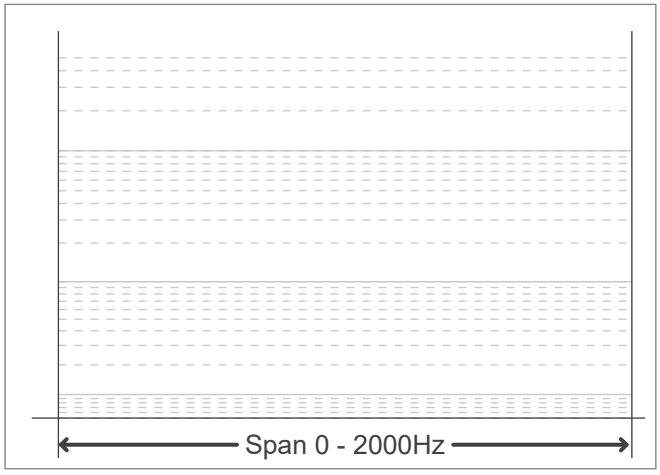
Flicker indices according to Lighting Research Center (2015)

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

