ICWP-50K60P-BABRSP

Photometric Data Sheet

Laboratory and Equipment

Test Lab	Industrial Commercial Lighting - St. Louis, Missouri
Spectrometer Manufacturer and Model	LabSpion – Type C, horizontal
Measurement Date	2/25/2026

Measurement Conditions

Tested c-planes	16 planes – 22.5°
Tested Gamma Resolution	5°
Input Power	57.0 W

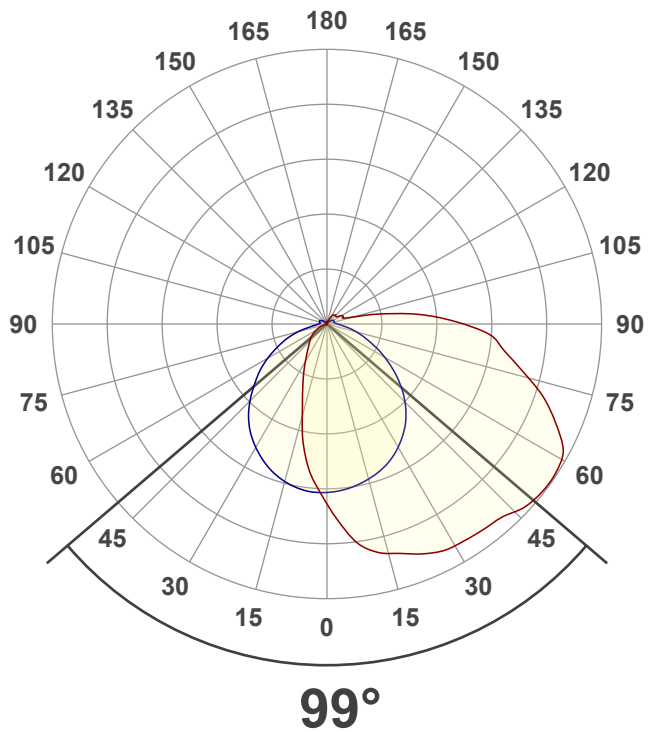
Tested Light Source

Luminaire	ICWP-50K60P-BABRSP
Basic Luminous Shape	NONE
Manufacturer	Industrial Commercial Lighting
Description	60W LED Wall Pack

Main Light Measurement Results

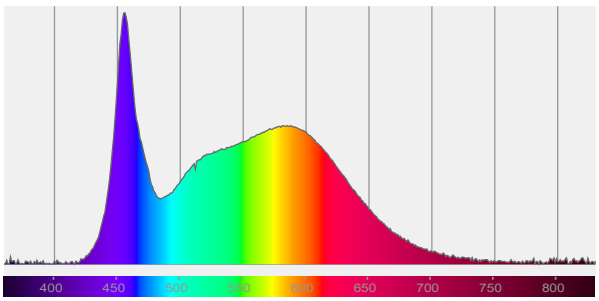
Output – Total Lumen (Up% / Down%)	9300 lm – 11.34% / 88.66%
Efficiency	163 lm/W
Peak Intensity	3540 cd
Correlated Color Temperature, CCT	5228 K
Color Rendering Index	CRI 82.7
TM30	82.1
SDCM	4.4

Polar Light Distribution Diagram



Product Photo

Spectral Power Distribution



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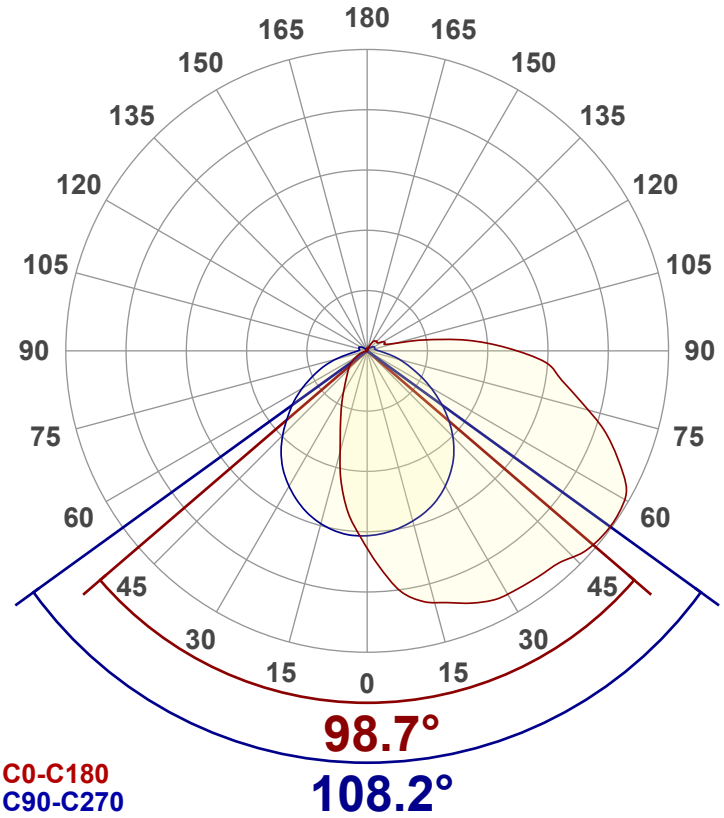
Photometric Data Sheet

Luminous Intensity Diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	9300 lm
Lumen Up% / Down%	11.34% / 88.66%
Peak Intensity	3540 cd
Beam Angle (50%-FWHM)	98.99°
Beam Angle - Horizontal	108.2°
Beam Angle - Vertical	98.7°

Cut-off Angle

Average 2.5%	236.7°

Field Angle

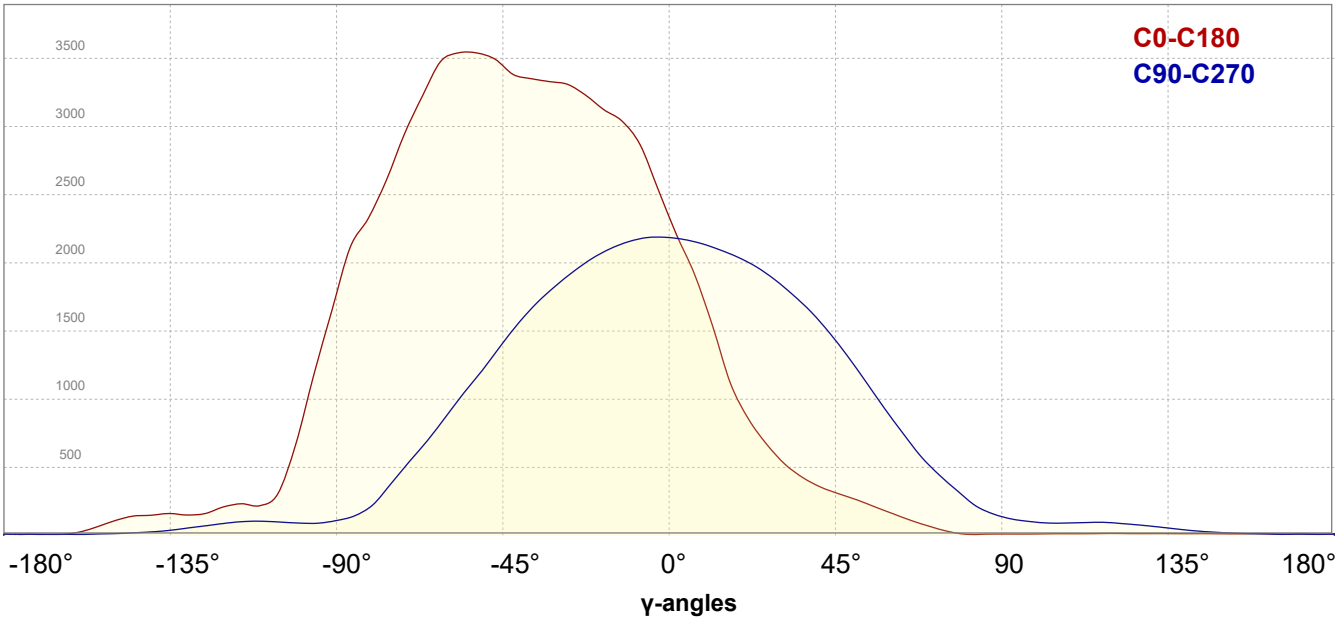
Average 10%	165.8°

Intensity Ratio

In 120° cone	57.4%
In 90° cone	37.0%

Linear Distribution Diagram

Intensity [cd]



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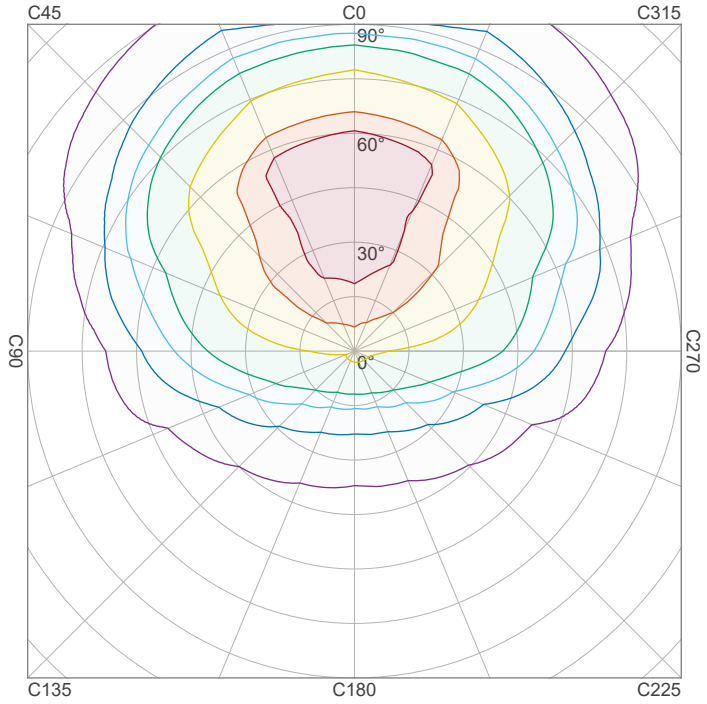
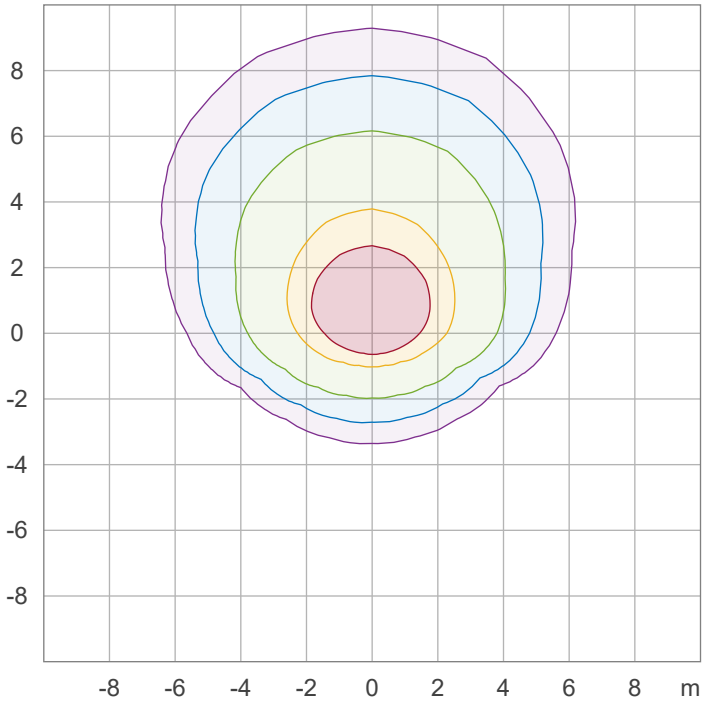
Iso-intensity Diagram (Iso-candela)



90 %	3186.1 cd
80 %	2832.1 cd
70 %	2478.1 cd
60 %	2124.1 cd
50 %	1770.0 cd
40 %	1416.0 cd
30 %	1062.0 cd
20 %	708.0 cd
10 %	354.0 cd

Peak intensity: 3540.1 cd
Number of c-planes: 16

Iso-illuminance Diagram (Iso-lux)



50.0 %	156.6 lx
30.0 %	94.0 lx
10.0 %	31.3 lx
5.0 %	15.7 lx
3.0 %	9.4 lx

Peak illuminance: 313.3 lx
Mounting height: 3.0 m
Number of c-planes: 16

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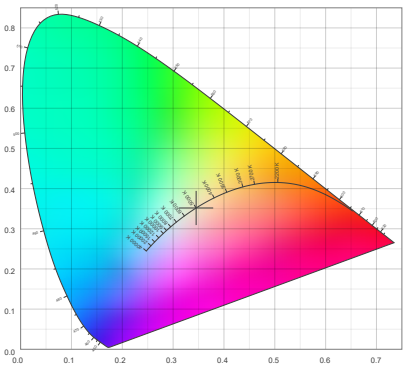
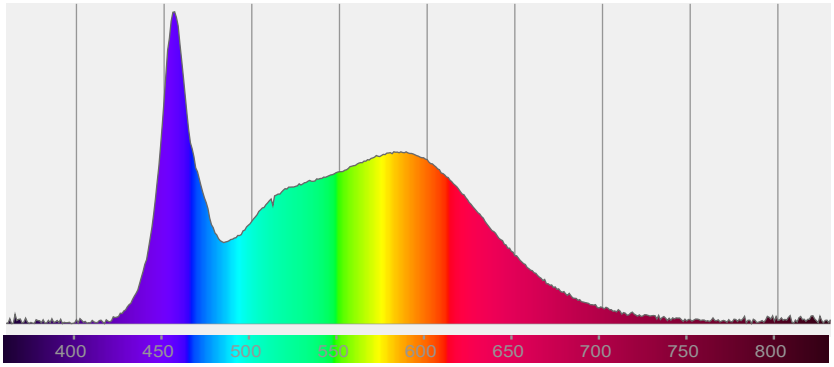
Color Details

Correlated Color Temperature, Measured	CCT = 5228 K	Color deviation from BBL	Duv = 0.0026
Color Rendering Index	CRI 82.7	Color coordinates CIE 1931	(x;y) = (0.345;0.352)
Color Rendering Index, R9 (red)	R9 = 0.8	Color coordinate CIEs 1960	(u;v) = (0.211;0.323)
Color Rendering TM30-18	Rf 82.1	Color coordinate CIEs 1976	(u';v') = (0.211;0.485)
	Rg 91.8	Color Quality Scale	CQS = 79.7

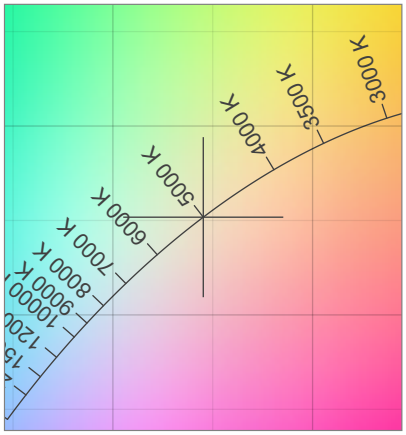
CIE 1931 Chromaticity Diagram



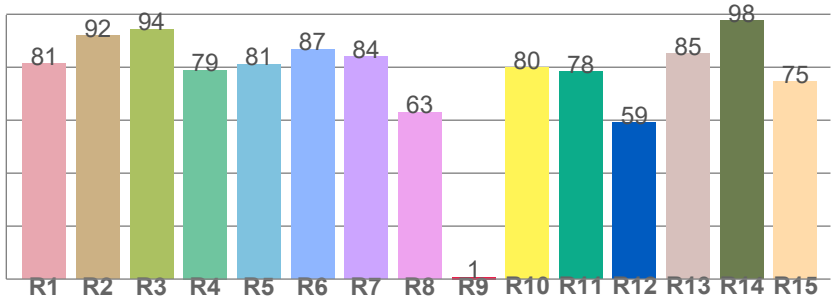
Spectral Power Distribution



CIE 1931 Chromaticity - Zoomed



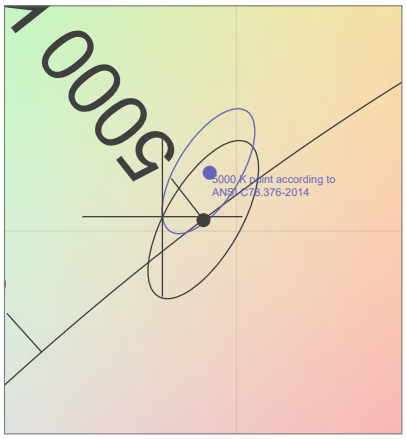
Color Rendering Index per Reference Color (CIE 1995)



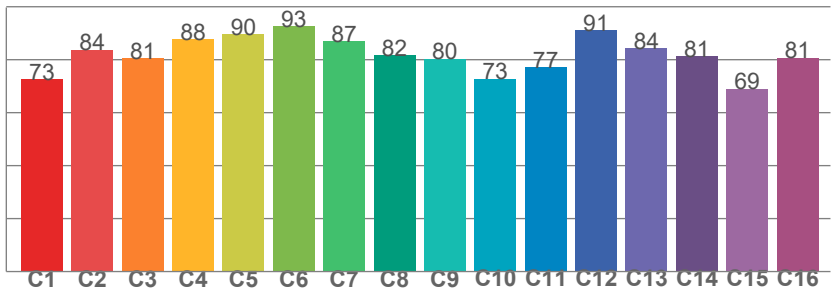
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.4	92.0	94.3	79.0	81.2	86.8	83.9	63.0	0.8	79.8	78.4	59.1	85.1	97.6	74.6

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
72.7	83.7	80.5	87.8	89.5	92.6	87.0	81.7	80.4	72.8	77.2	91.1	84.3	81.3	69.1	80.8

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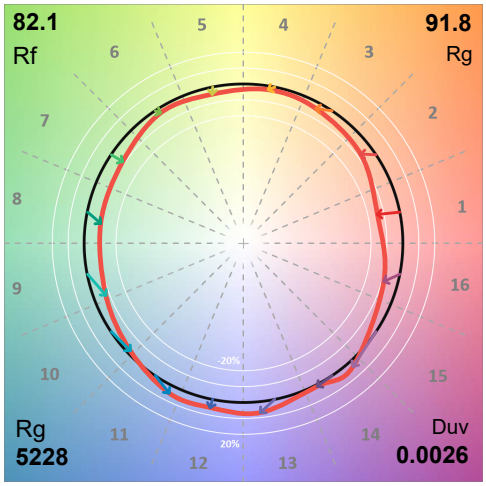
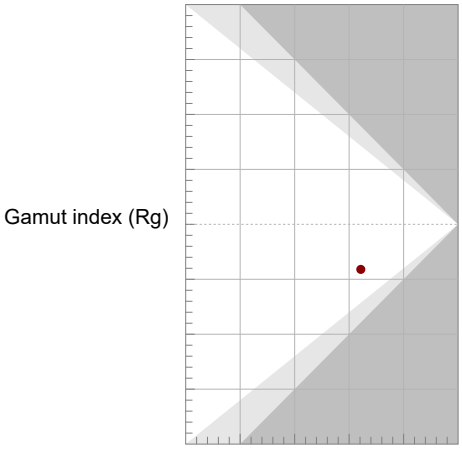
Color details - ANSI/IES TM-30-18 Color Rendition Report

Color Vector Graphic

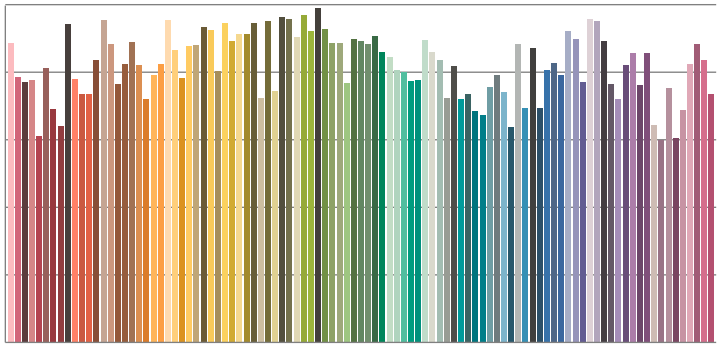


Color Distortion Graphic

Gamut Index vs. Fidelity Index

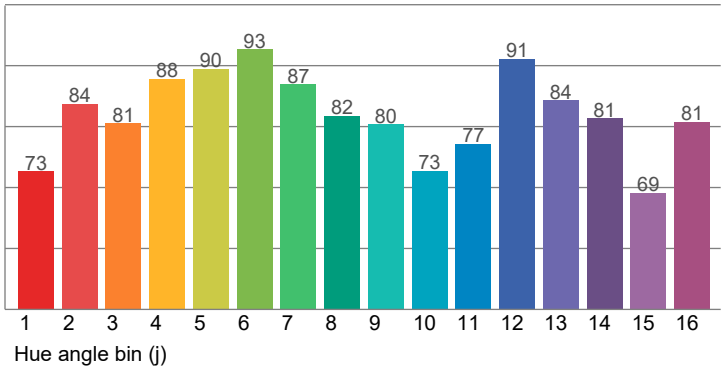


Color Rendition by Color Evaluation Sample (CES)

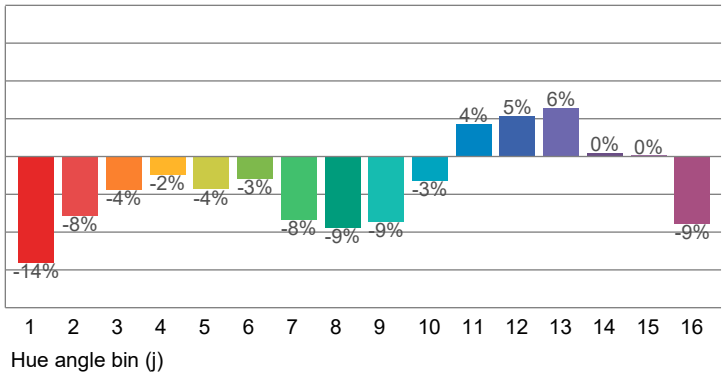


Color evaluation sample CES01 through CES99

Local Color Fidelity (per hue bin)



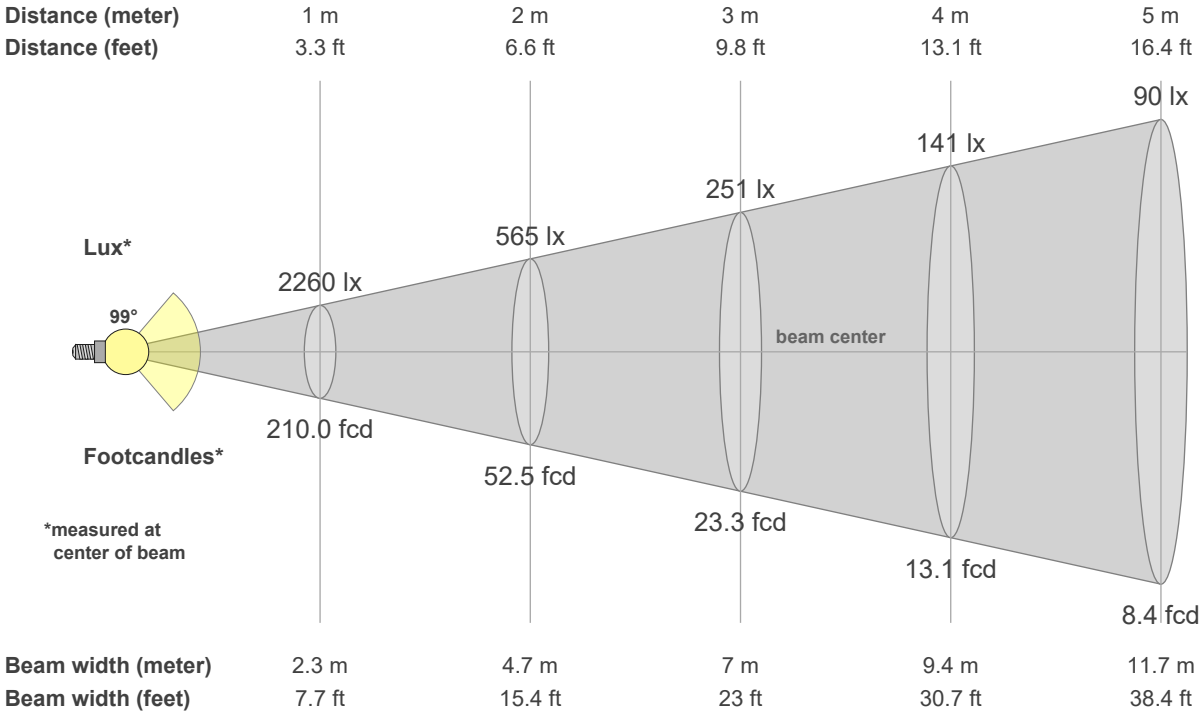
Local Chroma Shift (per hue bin)



x	0.345
y	0.345
u'	0.211
v'	0.485

CIE	13.3-1995
Ra	82.7
R9	0.8

Beam Details



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
2260	565	251	141	90	63	46	35	28	23	19	16	13	12	10	9	8	7	6	6	lux
210	52.5	23.3	13.1	8.4	5.8	4.3	3.3	2.6	2.1	1.7	1.5	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5	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
2260	2673	2942	3078	3173	3268	3319	3340	3367	3445	3520	3540	3501	3314	3038	2711	2407	2170	1768	1290	cd
100%	118%	130%	136%	140%	145%	147%	148%	149%	152%	156%	157%	155%	147%	134%	120%	106%	96%	78%	57%	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
2260	2165	2130	2081	2021	1944	1844	1727	1591	1430	1251	1059	869	689	529	399	283	192	141	113	cd
100%	96%	94%	92%	89%	86%	82%	76%	70%	63%	55%	47%	38%	31%	23%	18%	13%	9%	6%	5%	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
2260	2027	1672	1254	933	722	563	449	370	315	269	218	166	116	72	34	11	10	11	11	cd
100%	90%	74%	56%	41%	32%	25%	20%	16%	14%	12%	10%	7%	5%	3%	1%	0%	0%	0%	0%	of 0°val

Intensities in 270° c-plane

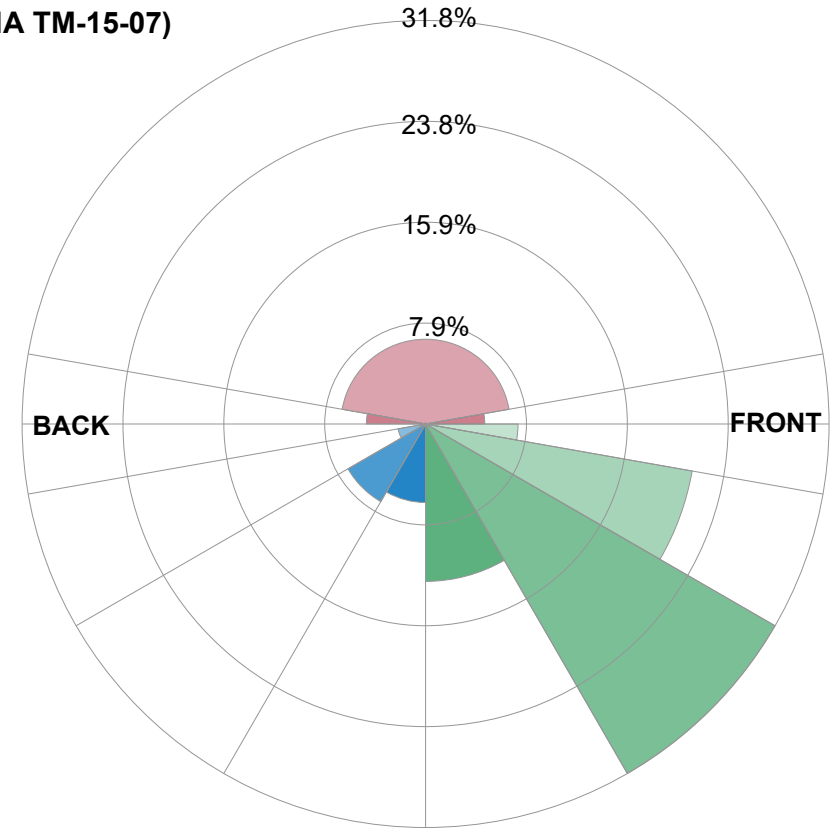
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
2260	2186	2161	2113	2044	1953	1847	1726	1581	1412	1232	1064	887	711	552	389	231	147	110	91	cd
100%	97%	96%	94%	90%	86%	82%	76%	70%	62%	54%	47%	39%	31%	24%	17%	10%	6%	5%	4%	of 0°val

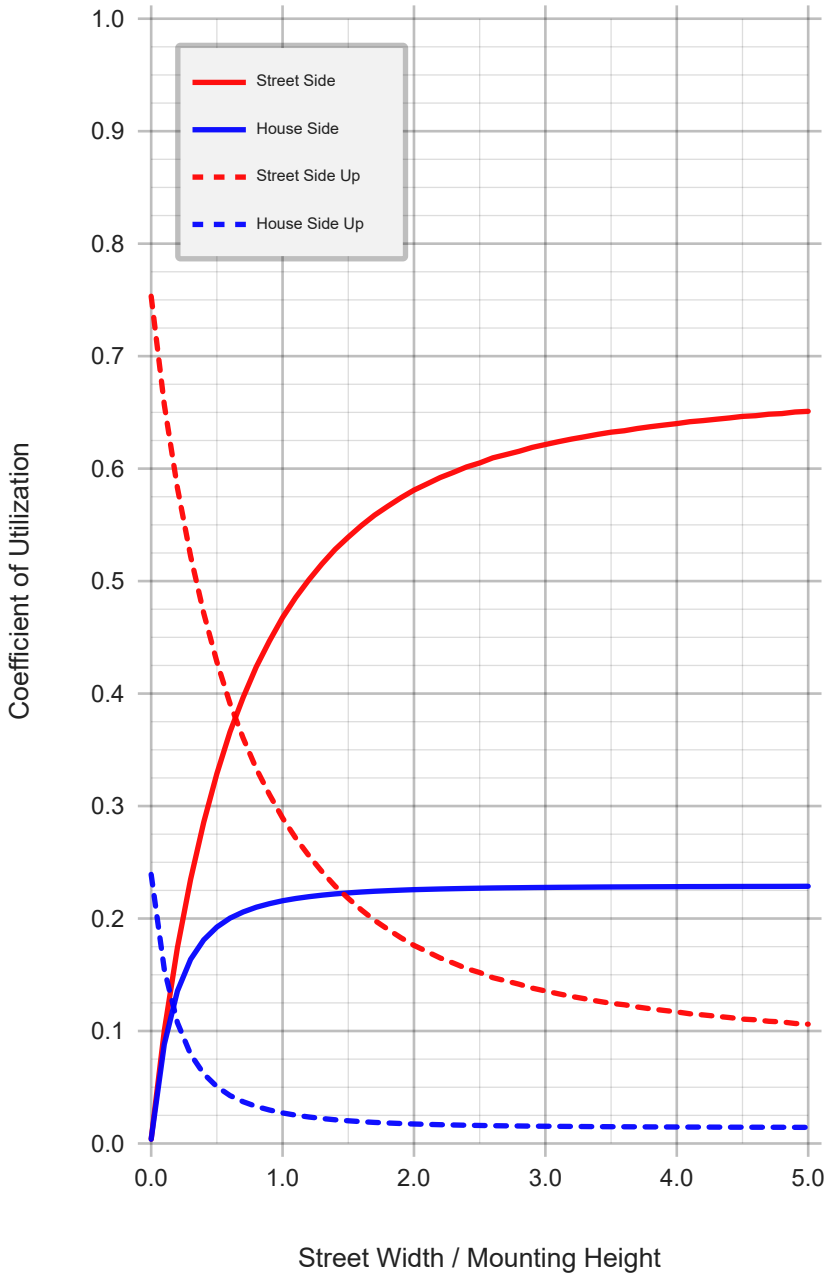
IESNA TM-15-07 Luminaire Classification System for Outdoor Luminaires

IES Classification (Type I, II, III, IV, V)	Type IV
Longitudinal Classification (Short, Medium, Long)	Very Short
Cutoff Classification	Non-Cutoff

Forward Light			
Low (0-30°)	1152.6	lm	12.4%
Medium (30-60°)	2955	lm	31.8%
High (60-80°)	1982.4	lm	21.3%
Very High (80-90°)	677.1	lm	7.3%
Back Light			
Low (0-30°)	574.8	lm	6.2%
Medium (30-60°)	656.3	lm	7.1%
High (60-80°)	204.8	lm	2.2%
Very High (80-90°)	40.8	lm	0.4%
Uplight			
Low (90-100°)	433.4	lm	4.7%
High (100-180°)	620.7	lm	6.7%
Total			
Sum	9300.1	lm	100%

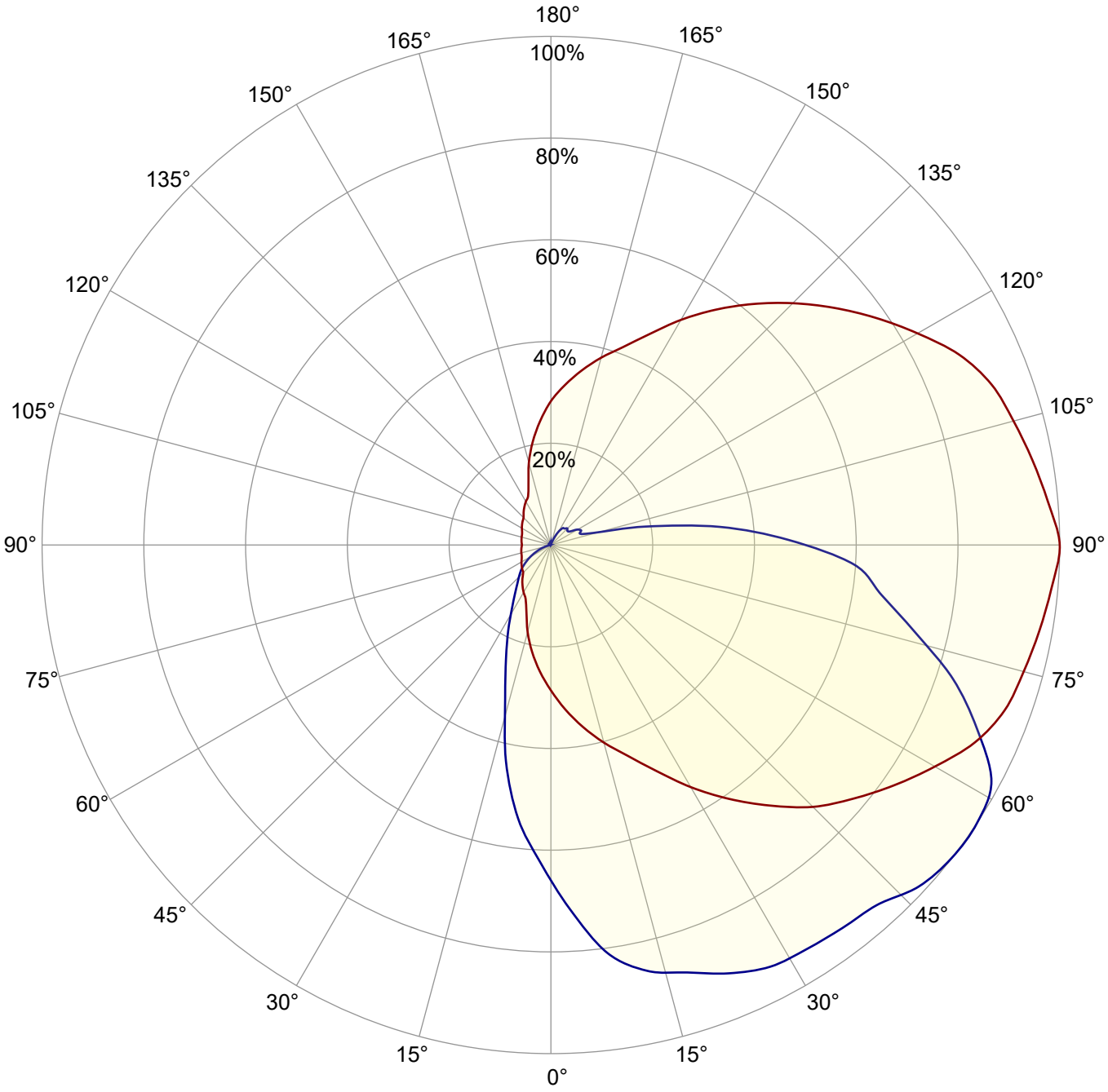
BUG Rating (IESNA TM-15-07)
B2 U4 G4





	Flux	Percent of lamp
Downward Street Side	6767.11 lm	72.76%
Downward House Side	1476.76 lm	15.88%
Downward Total	8243.87 lm	88.64%
Upward Total	1054.08 lm	11.33%
Total Flux	9300.08 lm	100%

Polar Graph - Peak Values



Maximum intensity	3540.4 cd
Max. located at horizontal, vertical angles	0H 55V deg.
Through max.intensity [cd]	Peak plane: C0 - C180
Horizontal cone through vertical angle	55V

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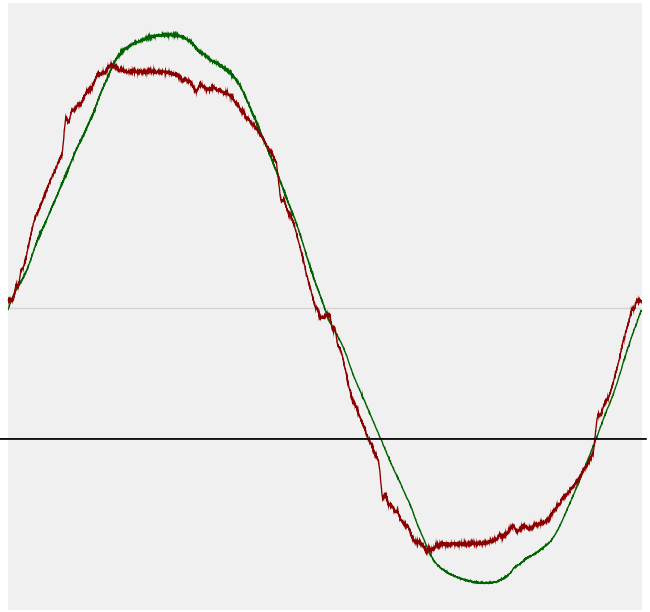
Power Details

Input power

Frequency of input power	60 Hz
Power feed to light source	57.0 W
RMS Input voltage feed V,RMS	121 V
RMS Input current feed I,RMS	0.474 A
Volt-Amp or apparent power = V,RMS*I,RMS	57.51 VA
Displacement factor of AC power feed	1.0
Power factor of AC current feed	0.99
Total harmonic distortion of the current	10.14%
Total harmonic distortion of the voltage	2.96%

Input power curve



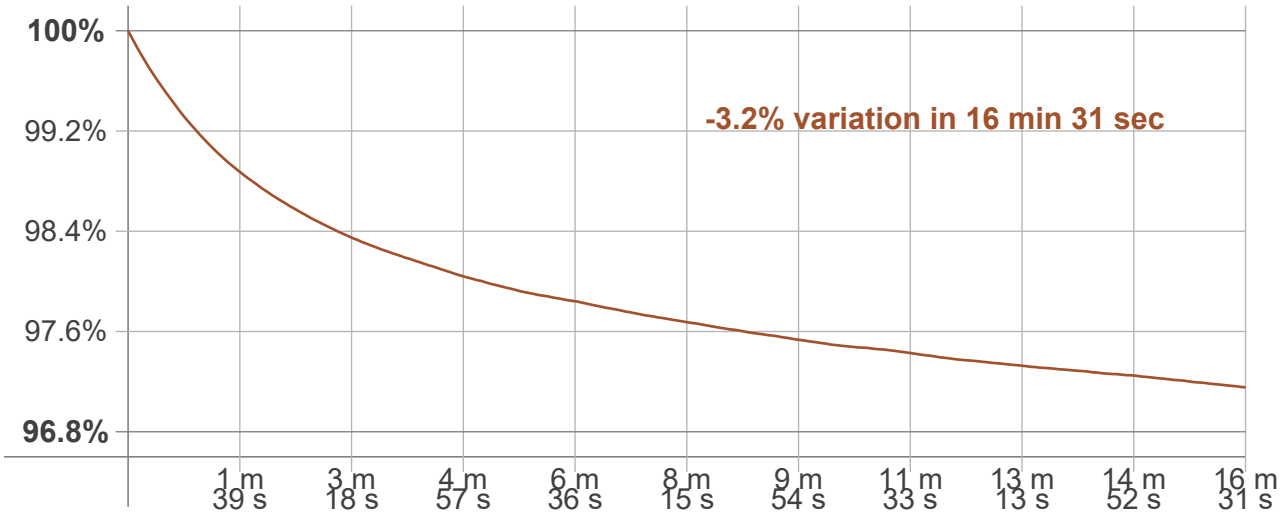
Efficiency

Radiated power efficiency	50.8%
Lumen efficiency	163 lm/W

Stabilzation details

Warmup Conditions		Color Temperature Change	
Stable period	15 min	CCT start	4933 K
Stable change max	2.0%	CCT end	5228 K
Minimum time	15 min		
Warmup Result		**Output Change**	
Total warmup time	Lamp stabilized	Output start	9596 lm
Warmup variation	-3.2%	Output change	-296 lm
		Output end	9300 lm

Stabilization Curve



Flicker T TLA Details

Flicker Meter Type	Viso Systems LabFlicker
Frequency of input power	60 Hz
Flicker/TLA sample rate	20000 samples/s

Measurement time

PstLM	180 sec.
All other indices	1.5 sec.

Flicker indices according to Illuminating Engineering Society

Flicker frequency	120.48 Hz
Percent Flicker	32.84 %
Flicker index	0.1

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

PstLM value (F < 80 Hz)	0.07
SVM value (80 < F < 2000 Hz)	1.17

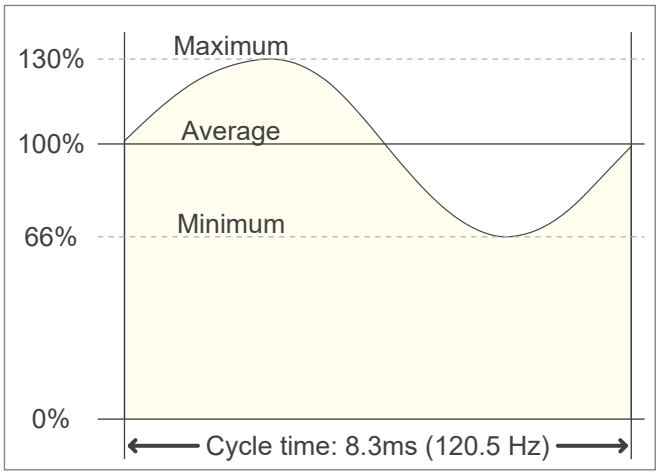
Flicker indices according to California Energy Commission (CEC)

JA8/10 40 Hz	1.44 %
JA8/10 90 Hz	4.22 %
JA8/10 200 Hz	32.81 %
JA8/10 400 Hz	32.82 %
JA8/10 1000 Hz	32.82 %

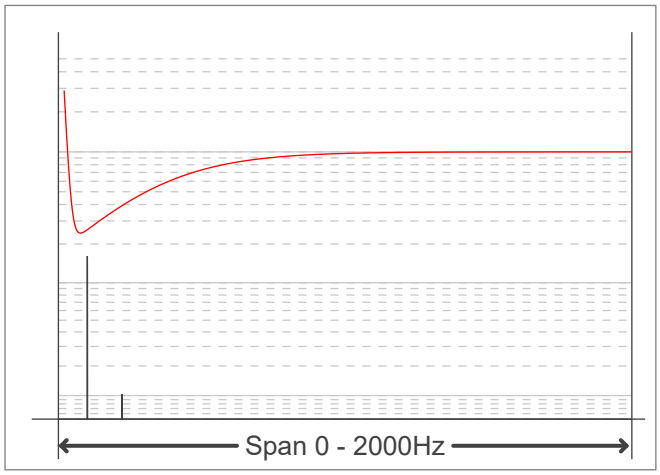
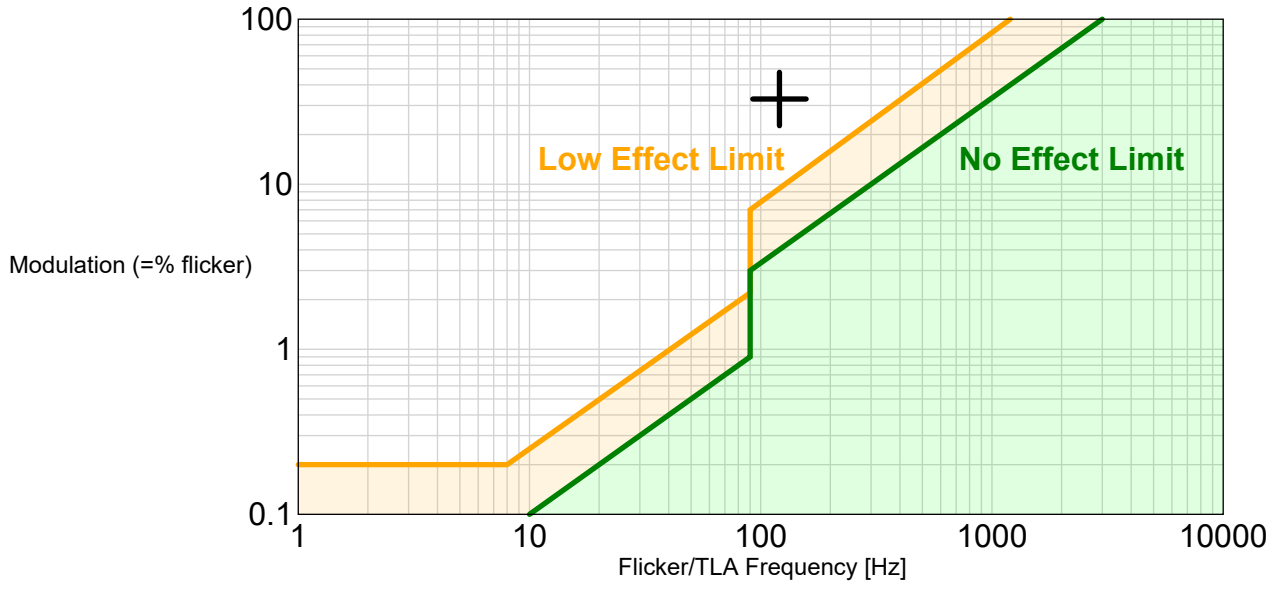
Flicker indices according to Lighting Research Center (2015)

Perception metric, Assist Mp	0.26

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



Flicker FFT (flicker curve in frequency domain)



IEEE 1789 Frequency/modulation Plot