

PHOTOMETRIC TEST REPORT

TALLINN SINGLE - WITH
DIFFUSER

astro

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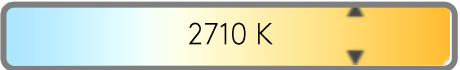
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:



OUTPUT: 610 lm
PEAK: 3085 cd
POWER: 11.0 W
PF: 0.94



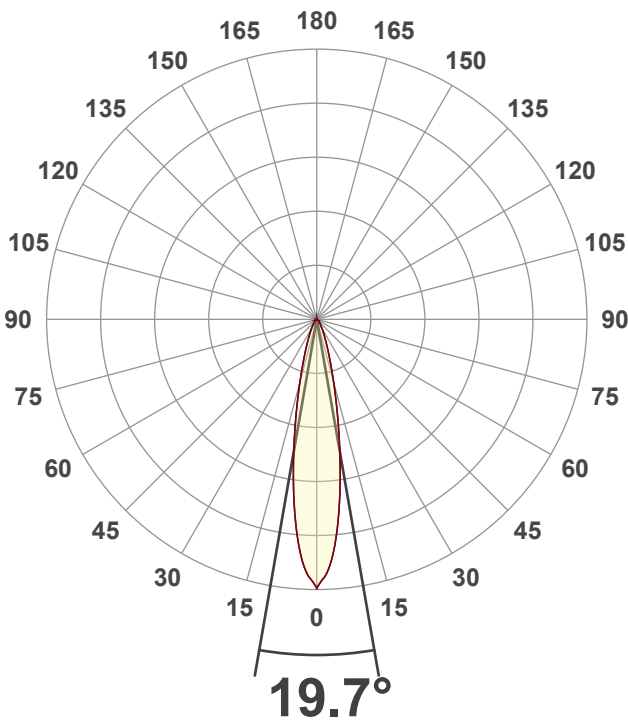
Tracking number: [n/a](#)

Product name:
Tallinn Single - with diffuser

Item number:
1516001

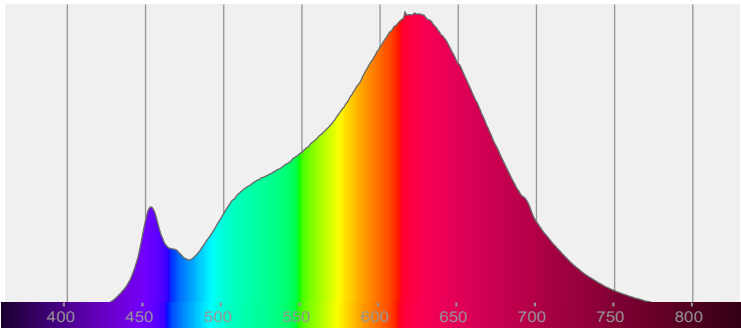
Date and time:
10/12/2025 15:24:58

Description:
Outddor IP65 LED Wall Up / Downlight
With Diffuser Fitted

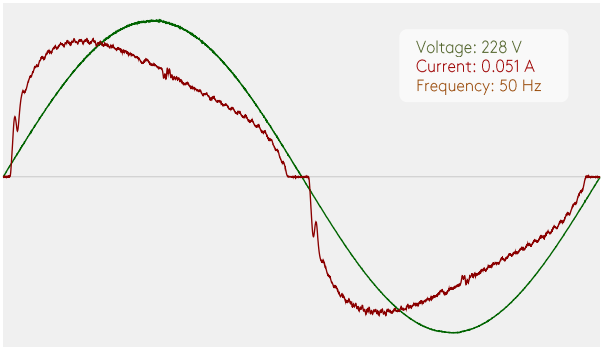


CIE 1931
x: 0.461
y: 0.413

SPECTRA

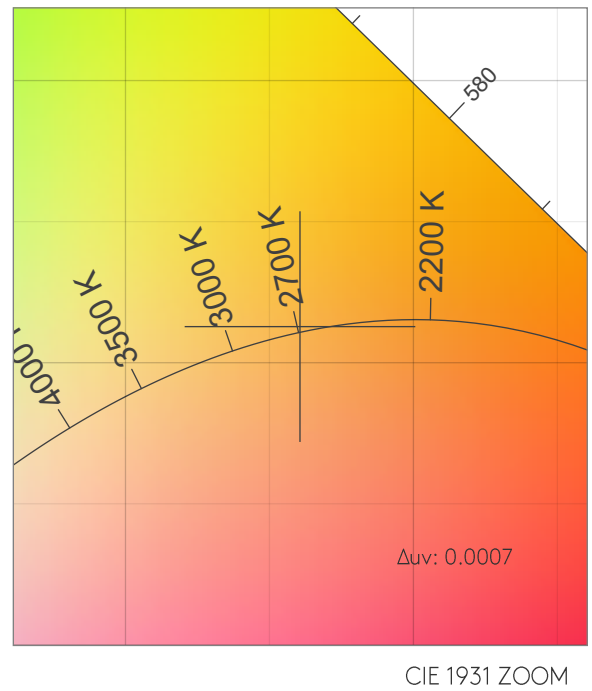
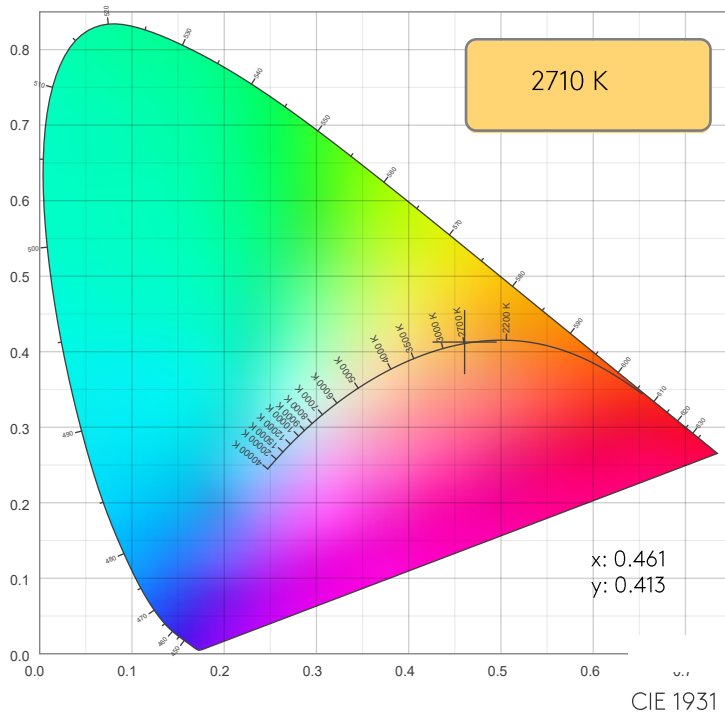


POWER



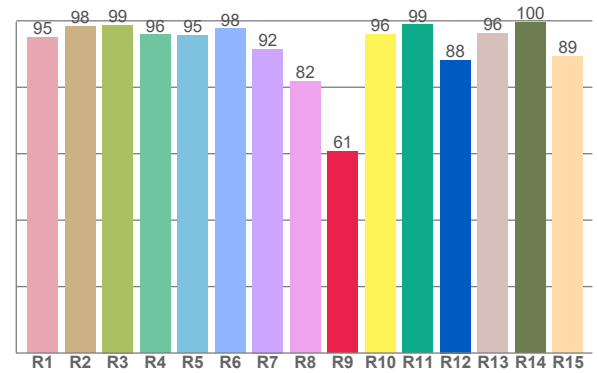
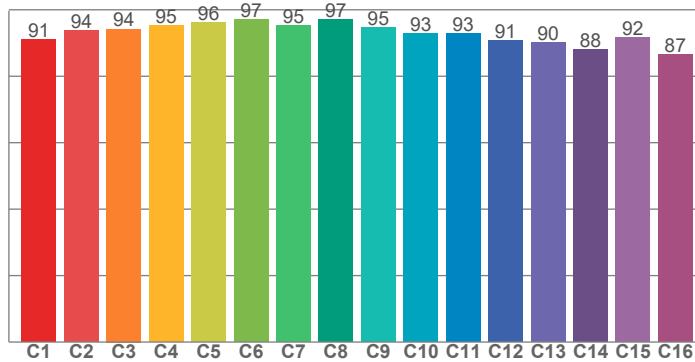
Voltage: 228 V
Current: 0.051 A
Frequency: 50 Hz

COLOR DETAILS



TM30: 93.0

CRI: 94.3 (R1-R8)



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
95.1	98.3	98.7	95.8	95.5	97.6	91.5	81.8	60.8	95.9	98.8	88.2	96.2	99.6	89.3

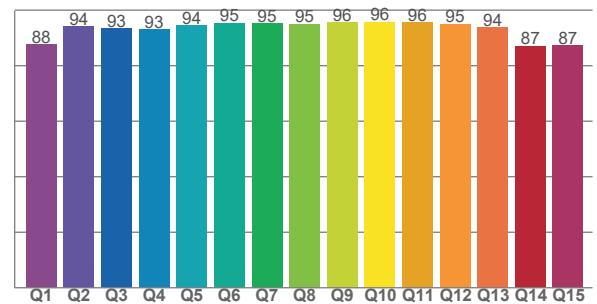
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.1	93.7	94.2	95.4	96.1	97.0	95.3	97.0	94.6	92.8	93.0	90.8	90.2	87.9	91.8	86.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	94.1	93.4	93.0	94.4	95.4	95.2	95.0	95.6	95.7	95.6	95.0	93.8	87.0	87.3

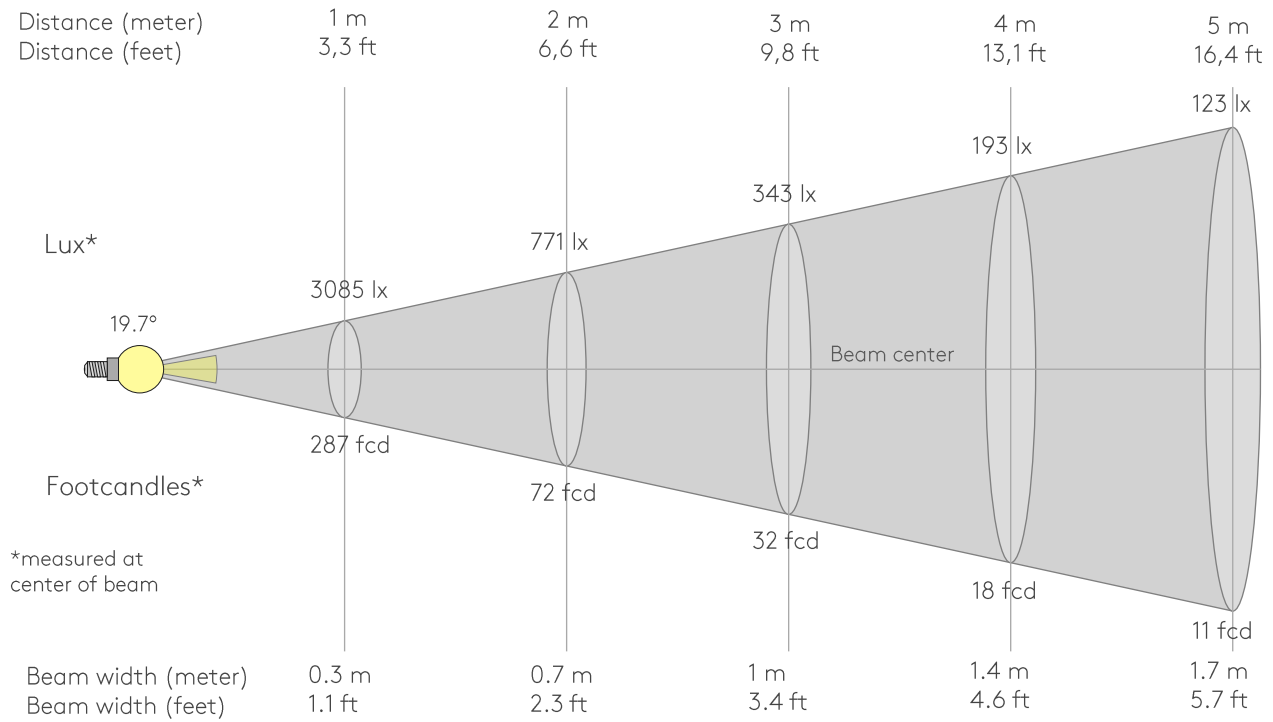
CQS: 92.3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2710 K	94.3	60.8	93.0	98.0	92.3	0.461	0.413	0.262	0.352	0.0007

BEAM DETAILS



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
3085lx	771lx	343lx	193lx	123lx	86lx	63lx	48lx	38lx	31lx	25lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx	8lx
286.6fcd	71.7fcd	31.8fcd	17.9fcd	11.5fcd	8fcd	5.8fcd	4.5fcd	3.5fcd	2.9fcd	2.4fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3085	2942	2695	2335	1923	1516	1158	867	646	484	368	285	223	177	142	115	94	77	65	54
100%	95%	87%	76%	62%	49%	38%	28%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3085	2942	2695	2335	1923	1516	1158	867	646	484	368	285	223	177	142	115	94	77	65	54
100%	95%	87%	76%	62%	49%	38%	28%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

Intensities in 180° c-plane

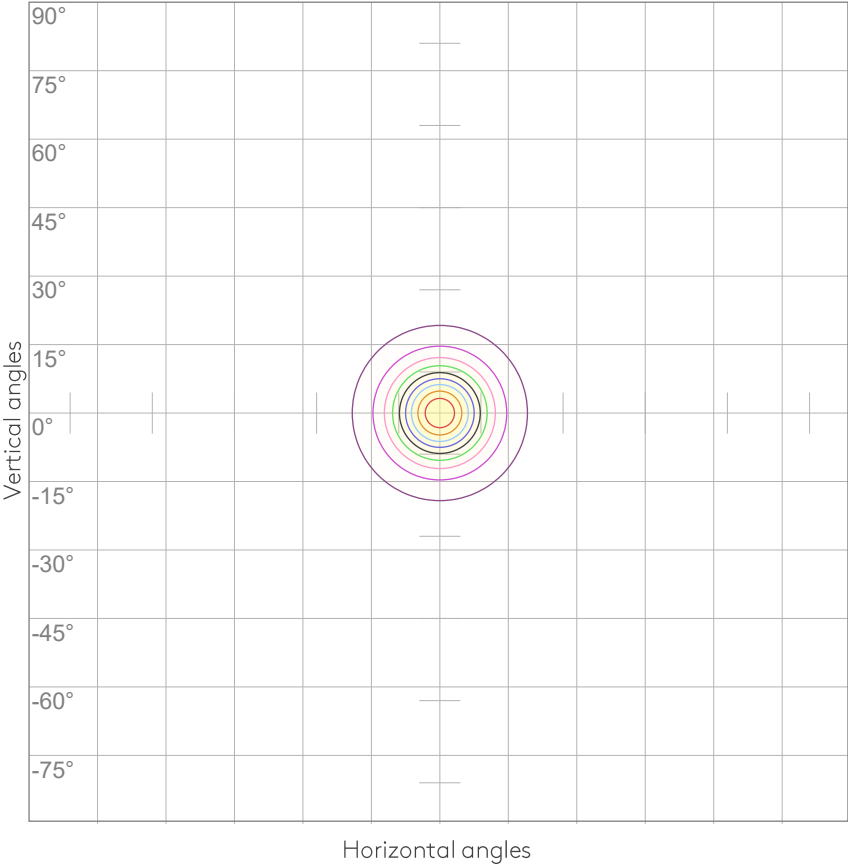
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3085	2942	2695	2335	1923	1516	1158	867	646	484	368	285	223	177	142	115	94	77	65	54
100%	95%	87%	76%	62%	49%	38%	28%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

Intensities in 270° c-plane

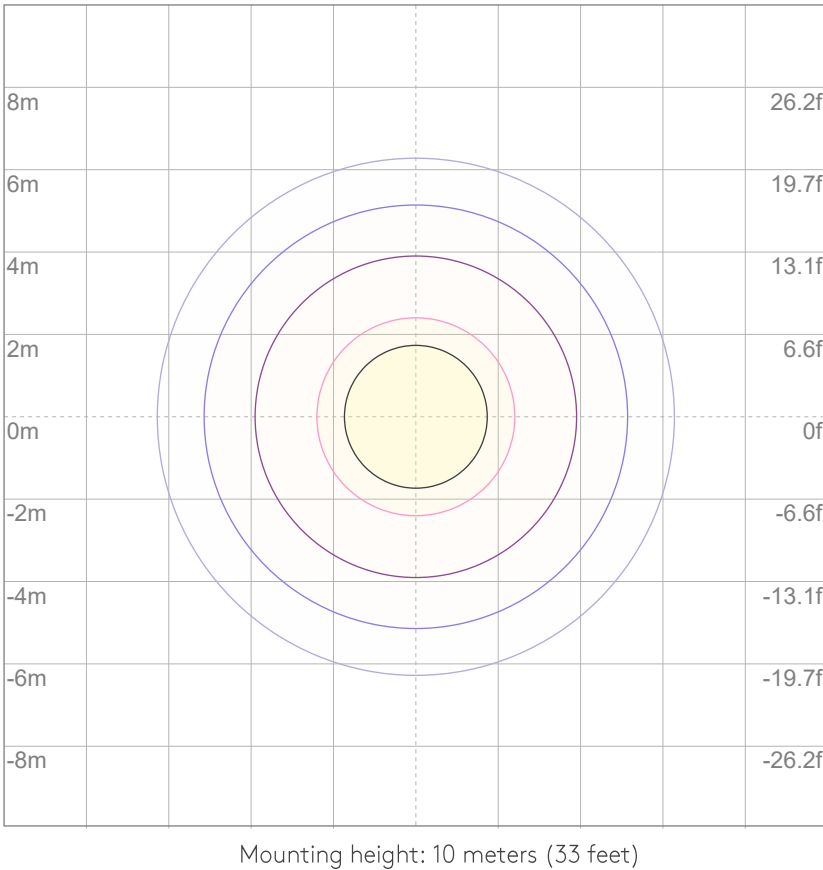
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3085	2942	2695	2335	1923	1516	1158	867	646	484	368	285	223	177	142	115	94	77	65	54
100%	95%	87%	76%	62%	49%	38%	28%	21%	16%	12%	9%	7%	6%	5%	4%	3%	3%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.7°	42.8°	68.1°	98.3%	94.3%

ISO CANDELA DIAGRAM



ISO LUX DIAGRAM



UGR

GLARE EVALUATION ACCORDING TO UGR

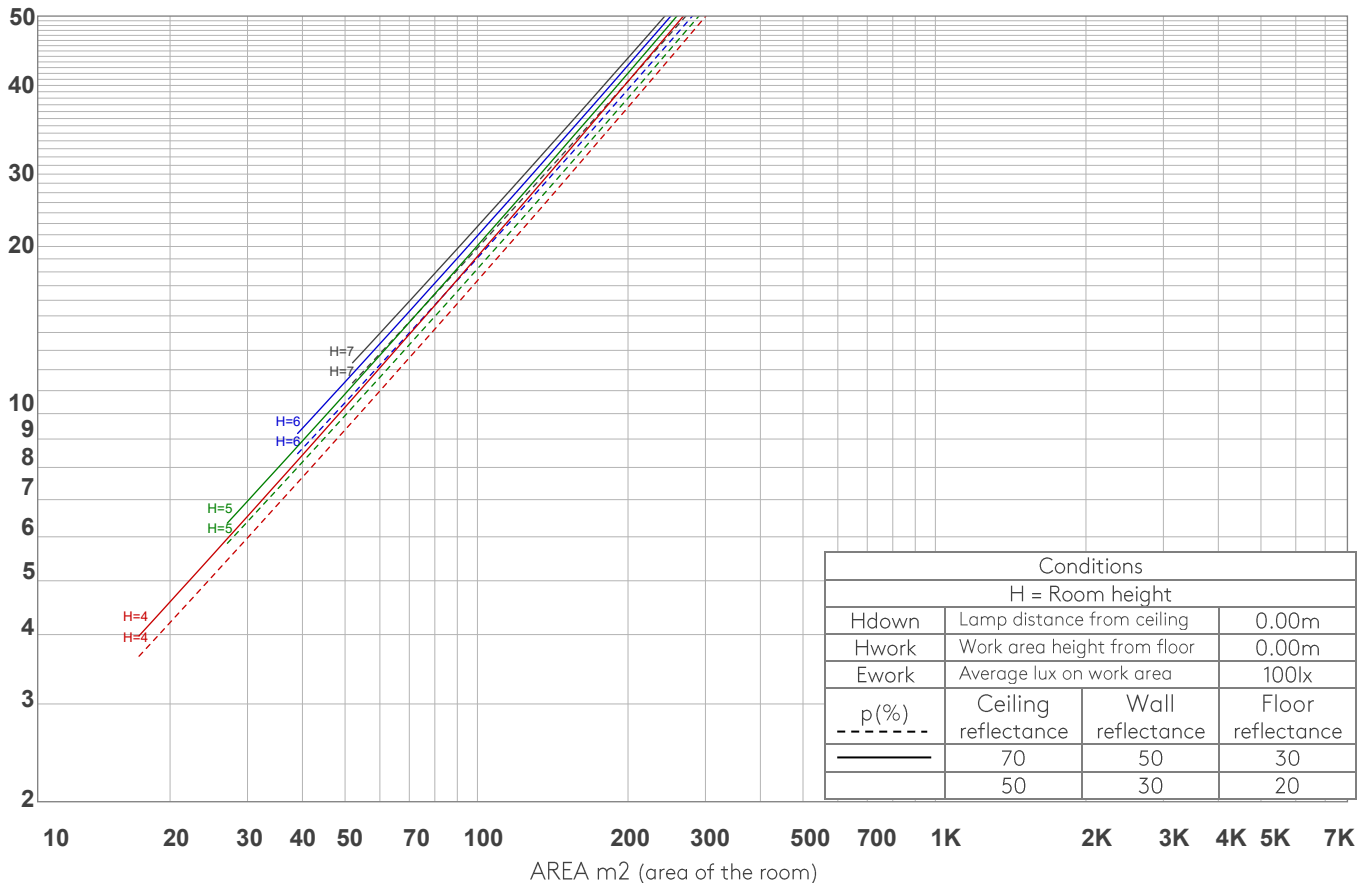
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	15.1	15.6	15.2	15.8	16.0	15.1	15.6	15.2	15.8	16.0
	3H	15.2	15.8	15.6	16.0	16.2	15.2	15.8	15.6	16.0	16.2
	4H	15.2	15.8	15.6	16.1	16.3	15.2	15.8	15.6	16.1	16.3
	6H	15.3	15.8	15.6	16.1	16.4	15.3	15.8	15.6	16.1	16.4
	8H	15.2	15.7	15.6	16.1	16.5	15.2	15.7	15.6	16.1	16.5
	12H	15.2	15.7	15.5	16.0	16.5	15.2	15.7	15.5	16.0	16.5
4H	2H	15.0	15.7	15.4	15.9	16.1	15.0	15.7	15.4	15.9	16.1
	3H	15.4	15.9	15.8	16.3	16.7	15.4	15.9	15.8	16.3	16.7
	4H	15.4	15.9	15.9	16.3	16.8	15.4	15.9	15.9	16.3	16.8
	6H	15.4	15.9	15.9	16.3	16.6	15.4	15.9	15.9	16.3	16.6
	8H	15.4	15.9	15.9	16.2	16.6	15.4	15.9	15.9	16.2	16.6
	12H	15.4	15.7	15.9	16.1	16.6	15.4	15.7	15.9	16.1	16.6
8H	4H	15.4	15.8	15.9	16.2	16.5	15.4	15.8	15.9	16.2	16.5
	6H	15.4	15.7	15.9	16.2	16.7	15.4	15.7	15.9	16.2	16.7
	8H	15.5	15.7	16.0	16.2	16.8	15.5	15.7	16.0	16.2	16.8
	12H	15.4	15.6	16.0	16.1	16.7	15.4	15.6	16.0	16.1	16.7
12H	4H	15.3	15.7	15.8	16.1	16.5	15.3	15.7	15.8	16.1	16.5
	6H	15.4	15.7	16.0	16.2	16.8	15.4	15.7	16.0	16.2	16.8
	8H	15.4	15.6	16.0	16.1	16.7	15.4	15.6	16.0	16.1	16.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.8 / -1.5					1.8 / -1.5				
S = 1.5H		3.5 / -2.6					3.5 / -2.6				
S = 2.0H		5.1 / -3.9					5.1 / -3.9				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 610 lm total luminous flux											

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	0
RCR	(RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	86	84	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	85	80	77	91	84	80	76	83	79	76	82	78	76	81	78	75	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69
10	84	76	72	69	83	76	72	69	75	71	69	75	71	69	74	71	68	67

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



ZONAL LUMEN SUMMARY

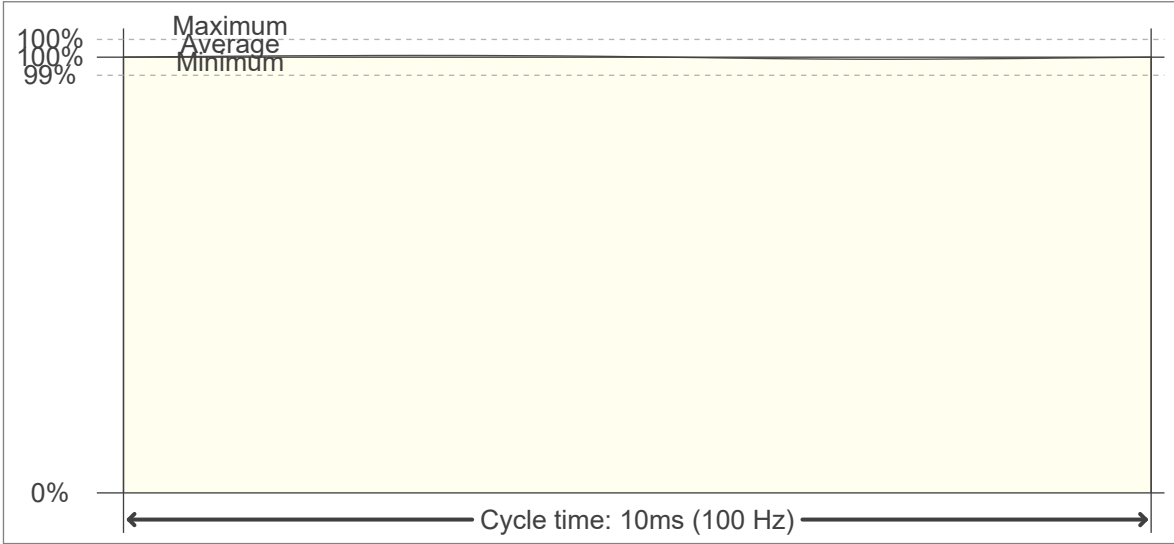
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
207 lm	214 lm	94.9 lm	45.6 lm	24.5 lm	13.5 lm	6.56 lm	2.27 lm	0.334 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.009 lm	0.007 lm	0.014 lm	0.065 lm	0.191 lm	0.315 lm	0.394 lm	0.318 lm	0.064 lm

FLICKER

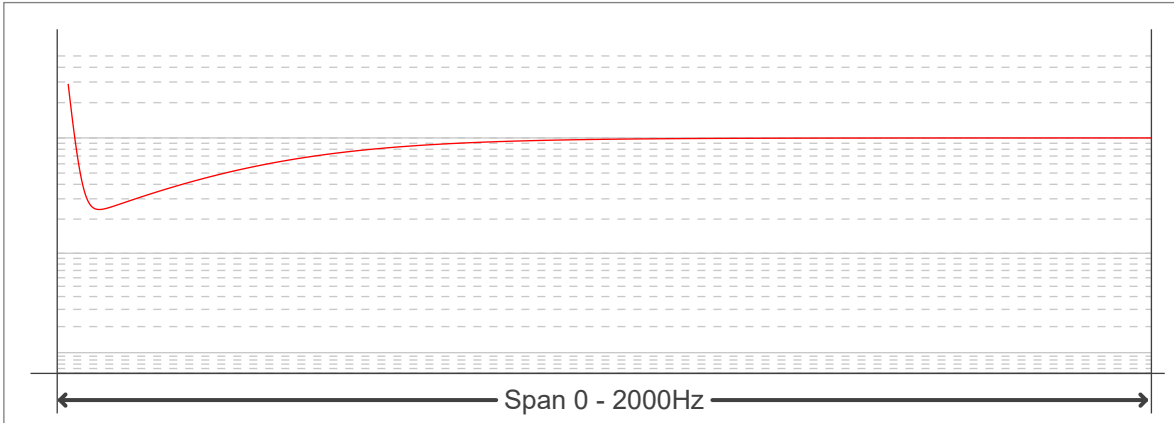
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	100 Hz
Flicker index:	0
Flicker percentage:	0.5 %
SVM: (Visual flicker)	0.02

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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