

PHOTOMETRIC TEST REPORT

TALLINN SURFACE - WITH
DIFFUSER

astro

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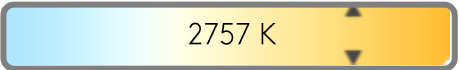
LIGHT EFFICIENCY:



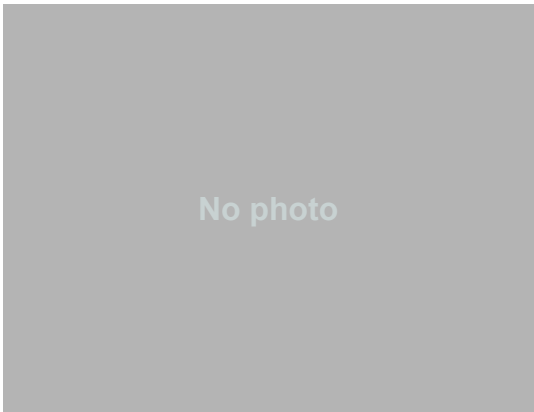
LIGHT QUALITY:



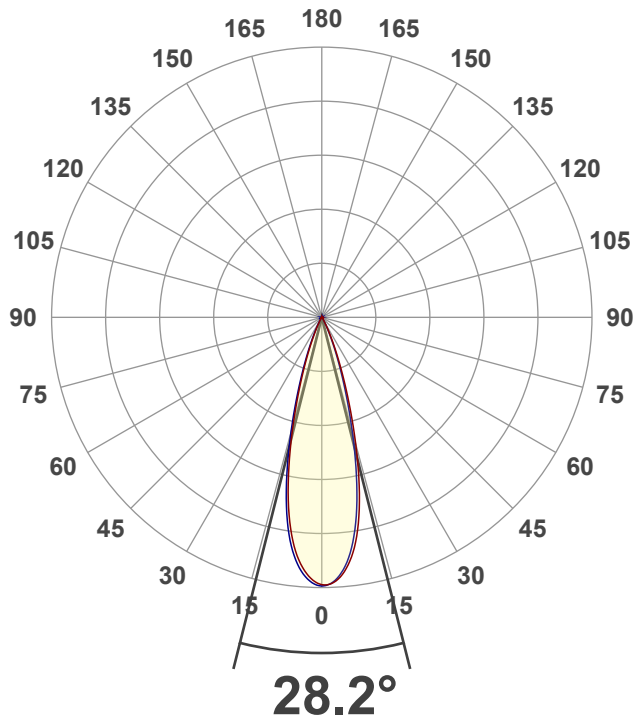
COLOR TEMPERATURE:



OUTPUT: 775 lm
PEAK: 3155 cd
POWER: 10.9 W
PF: 0.94

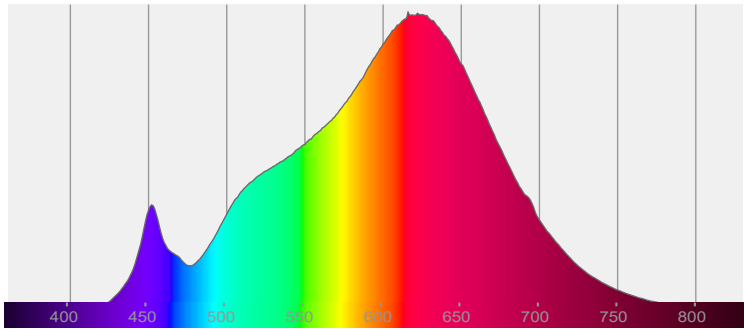


Tracking number: [n/a](#)
Product name:
Tallinn Surface - with diffuser
Item number:
1516003
Date and time:
08/12/2025 16:33:43
Description:
Outside IP65 LED Surface Mounted Light
Diffuser Fitted

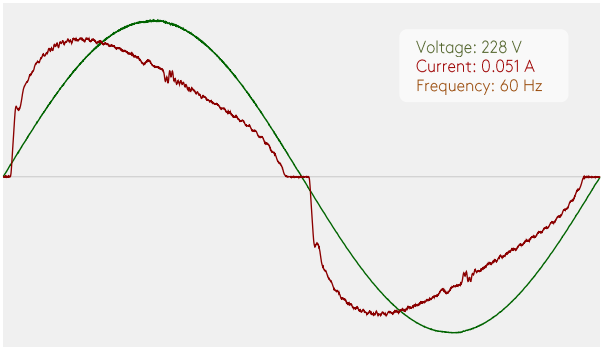


CIE 1931
x: 0.458
y: 0.414

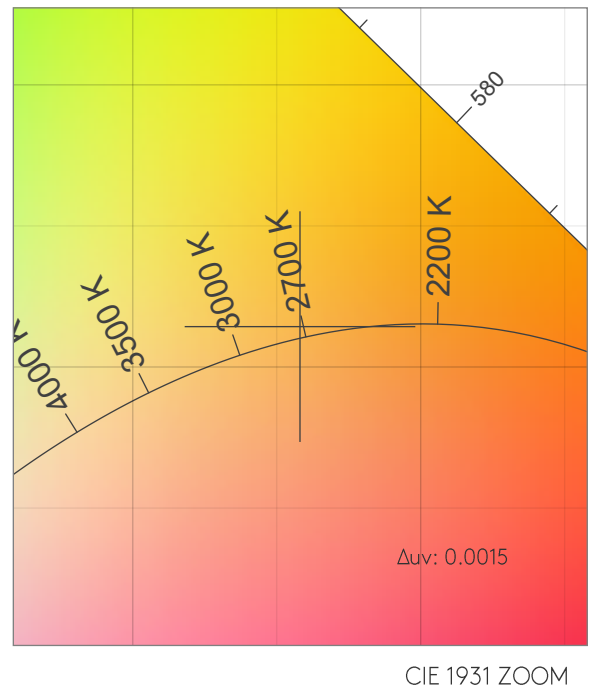
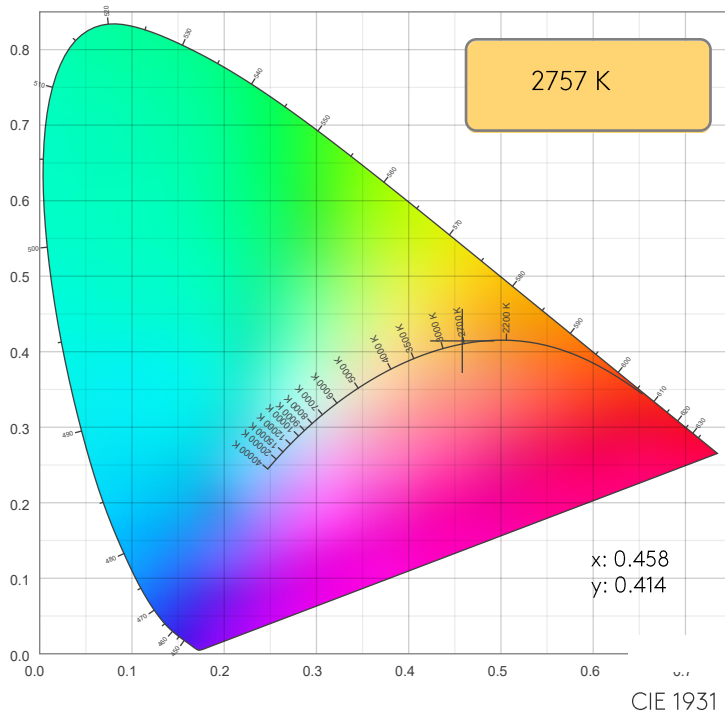
SPECTRA



POWER

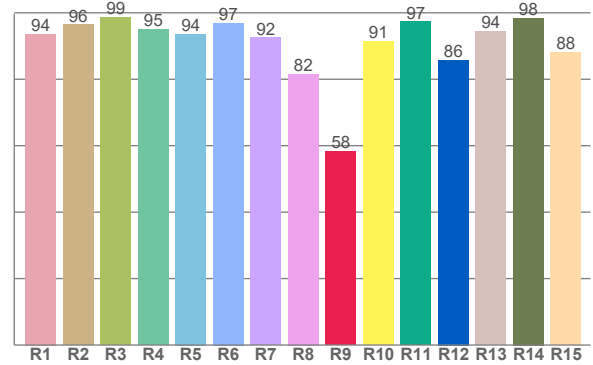
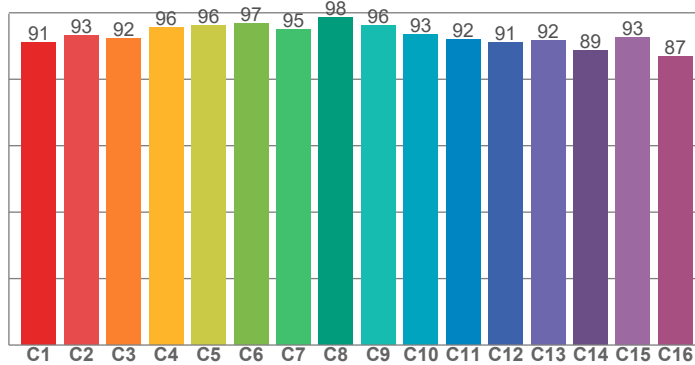


COLOR DETAILS



TM30: 93.2

CRI: 93.5 (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
93.6	96.4	98.7	95.1	93.6	96.9	92.5	81.6	58.3	91.3	97.3	85.8	94.4	98.4	88.1

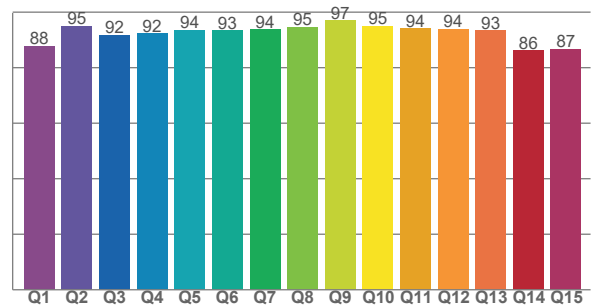
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.2	93.1	92.3	95.7	96.2	96.8	94.9	98.5	96.2	93.5	92.1	91.0	91.6	88.6	92.6	86.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	95.0	91.8	92.4	93.6	93.4	93.7	94.6	97.0	95.0	94.0	94.0	93.4	86.2	86.7

CQS: 91.7



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
2757 K	93.5	58.3	93.2	98.7	91.7	0.458	0.414	0.260	0.352	0.0015

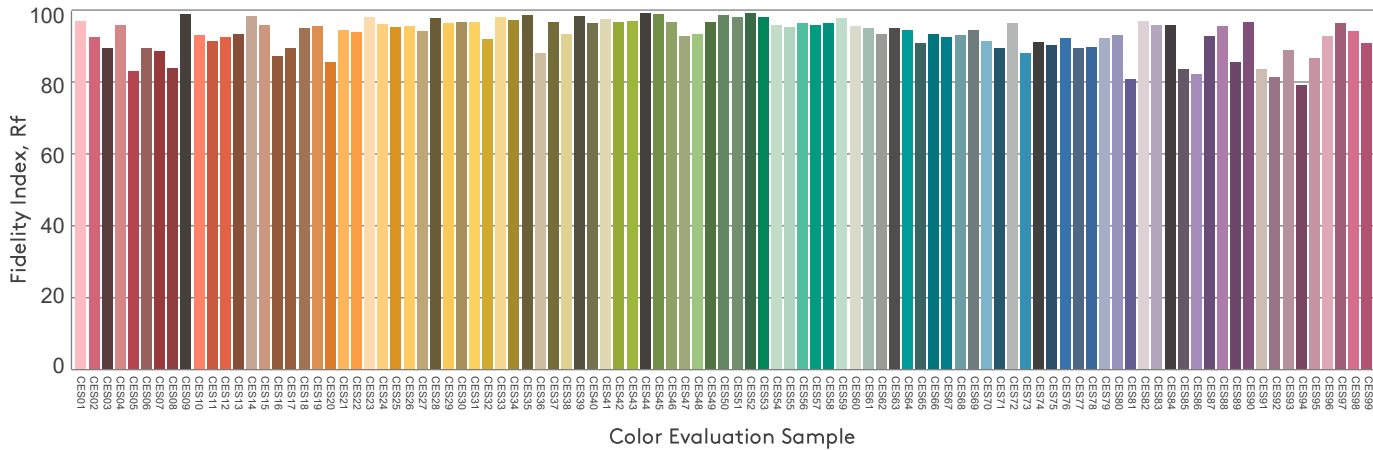
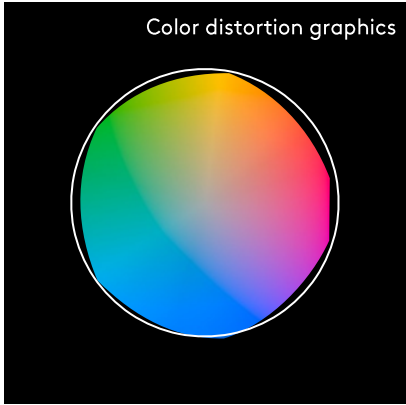
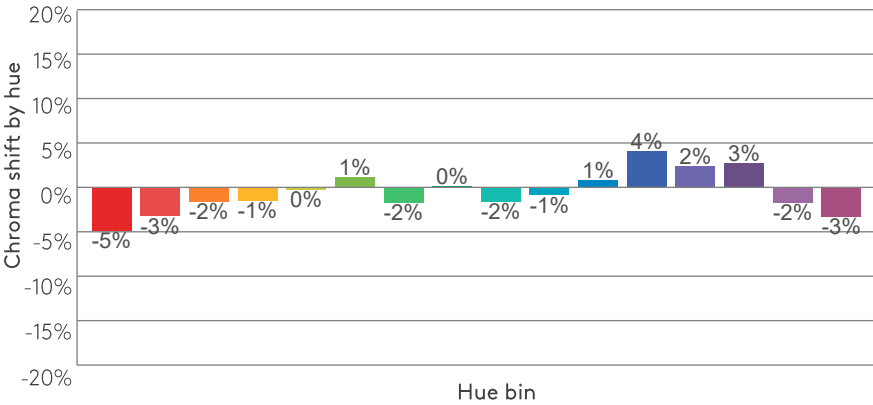
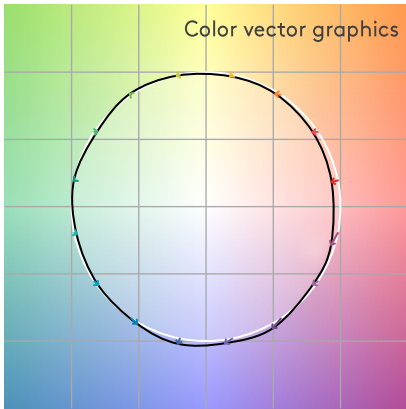
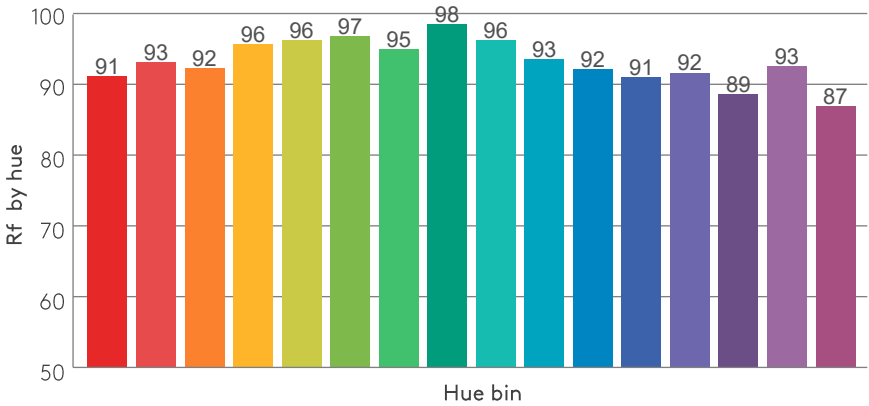
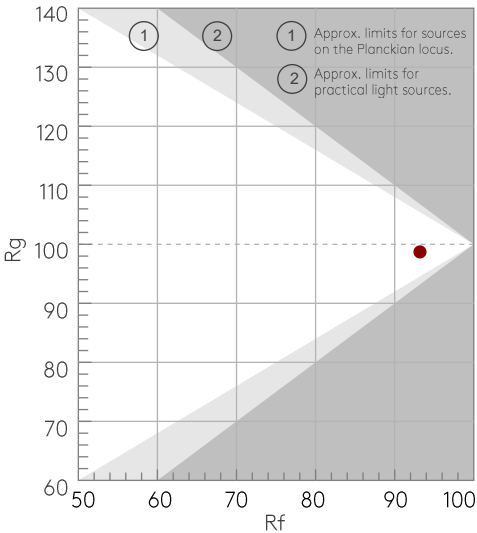
Rf 93.2

Fidelity index Rf

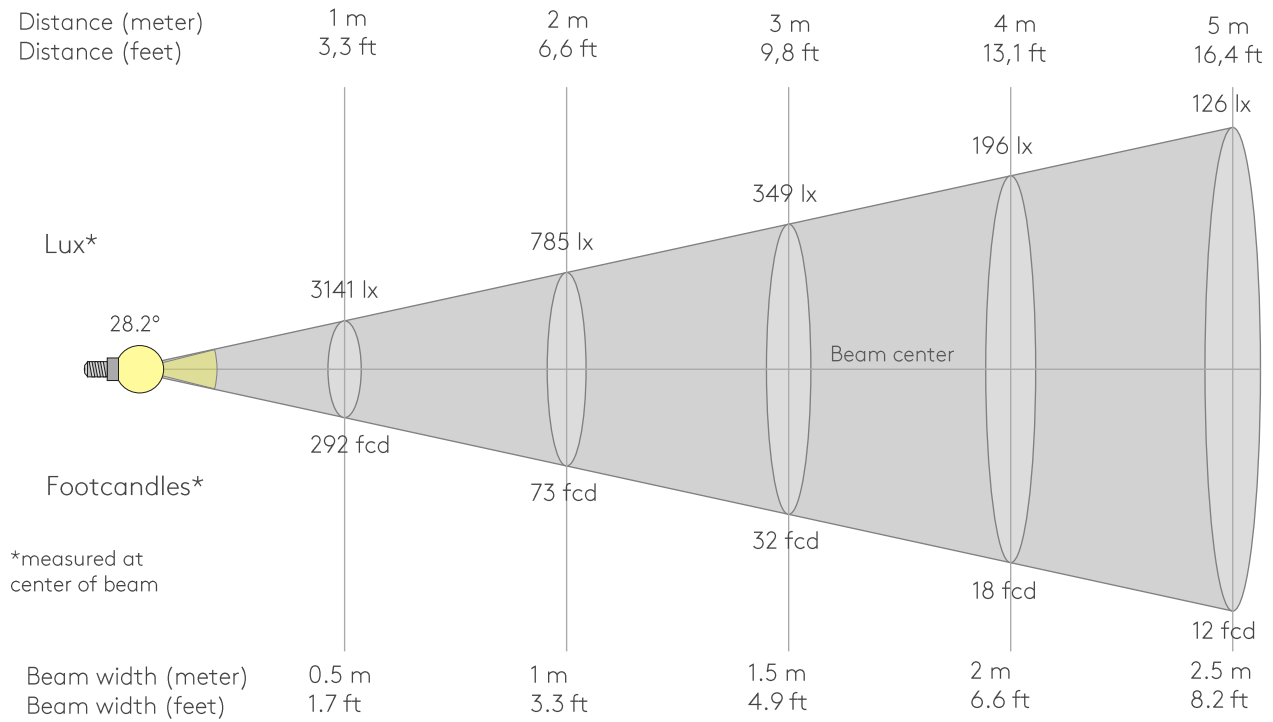
Rg 98.7

Gammut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-2%	4%
4	96	-1%	1%
5	96	0%	2%
6	97	1%	1%
7	95	-2%	-2%
8	98	0%	0%
9	96	-2%	1%
10	93	-1%	4%
11	92	1%	6%
12	91	4%	-1%
13	92	2%	-6%
14	89	3%	-9%
15	93	-2%	-4%
16	87	-3%	-10%



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
3141lx	785lx	349lx	196lx	126lx	87lx	64lx	49lx	39lx	31lx	26lx	22lx	19lx	16lx	14lx	12lx	11lx	10lx	9lx	8lx
291.8fcd	73fcd	32.4fcd	18.2fcd	11.7fcd	8.1fcd	6fcd	4.6fcd	3.6fcd	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°
3141	3130	3060	2929	2735	2465	2125	1737	1348	998	710	486	317	195	115	67	41	28	21	16
100%	100%	97%	93%	87%	78%	68%	55%	43%	32%	23%	15%	10%	6%	4%	2%	1%	1%	1%	1%

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°
3141	3125	3033	2876	2645	2341	1971	1575	1197	872	612	412	262	156	88	50	31	22	17	13
100%	99%	97%	92%	84%	75%	63%	50%	38%	28%	19%	13%	8%	5%	3%	2%	1%	1%	1%	0%

Intensities in 180° c-plane

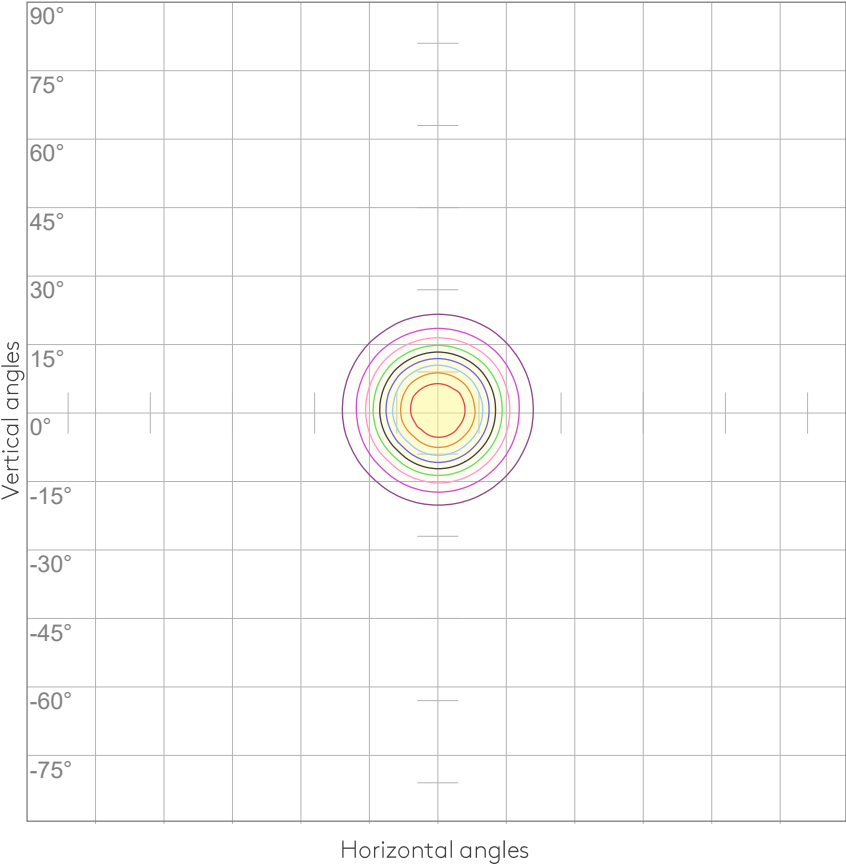
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3141	3085	2973	2804	2561	2249	1877	1483	1111	796	543	350	211	120	67	40	27	20	16	13
100%	98%	95%	89%	82%	72%	60%	47%	35%	25%	17%	11%	7%	4%	2%	1%	1%	1%	1%	0%

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°
3141	3121	3029	2876	2656	2358	1995	1596	1215	883	618	415	263	157	89	51	32	22	17	14
100%	99%	96%	92%	85%	75%	64%	51%	39%	28%	20%	13%	8%	5%	3%	2%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.2°	46.5°	56.9°	99.4%	98.8%

ISO CANDELA DIAGRAM



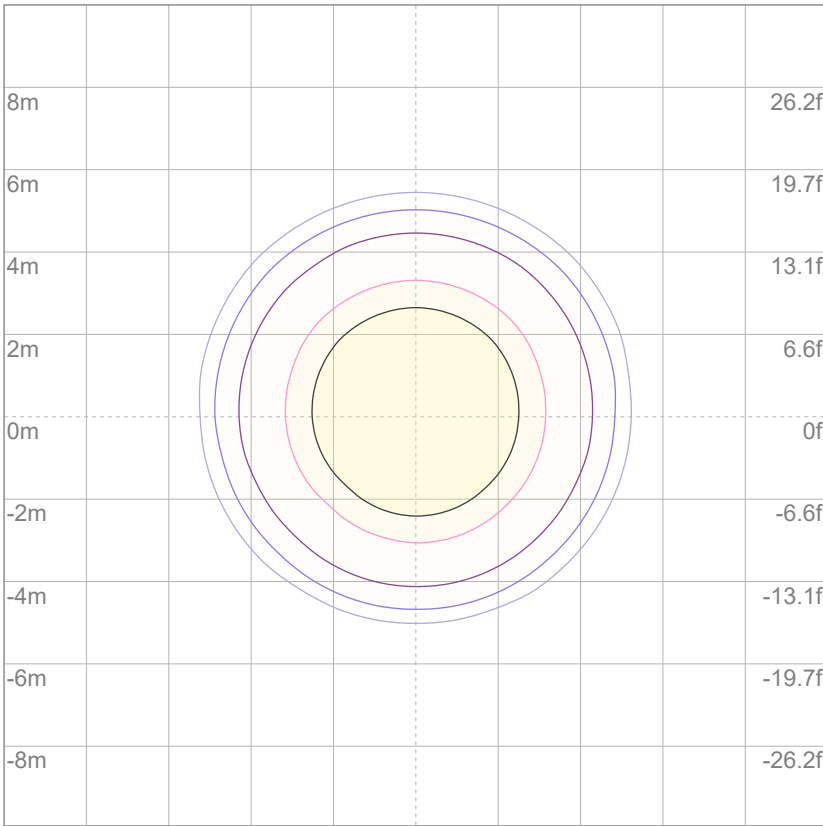
10%	314 cd
20%	628 cd
30%	942 cd
40%	1257 cd
50%	1571 cd
60%	1885 cd
70%	2199 cd
80%	2513 cd
90%	2827 cd

Conditions:

Number of c-planes: 8

Candela at center: 3141 cd

ISO LUX DIAGRAM



3%	0.942 lx
5%	1.57 lx
10%	3.14 lx
30%	9.42 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 31.4 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters (33 feet)

GLARE EVALUATION ACCORDING TO UGR

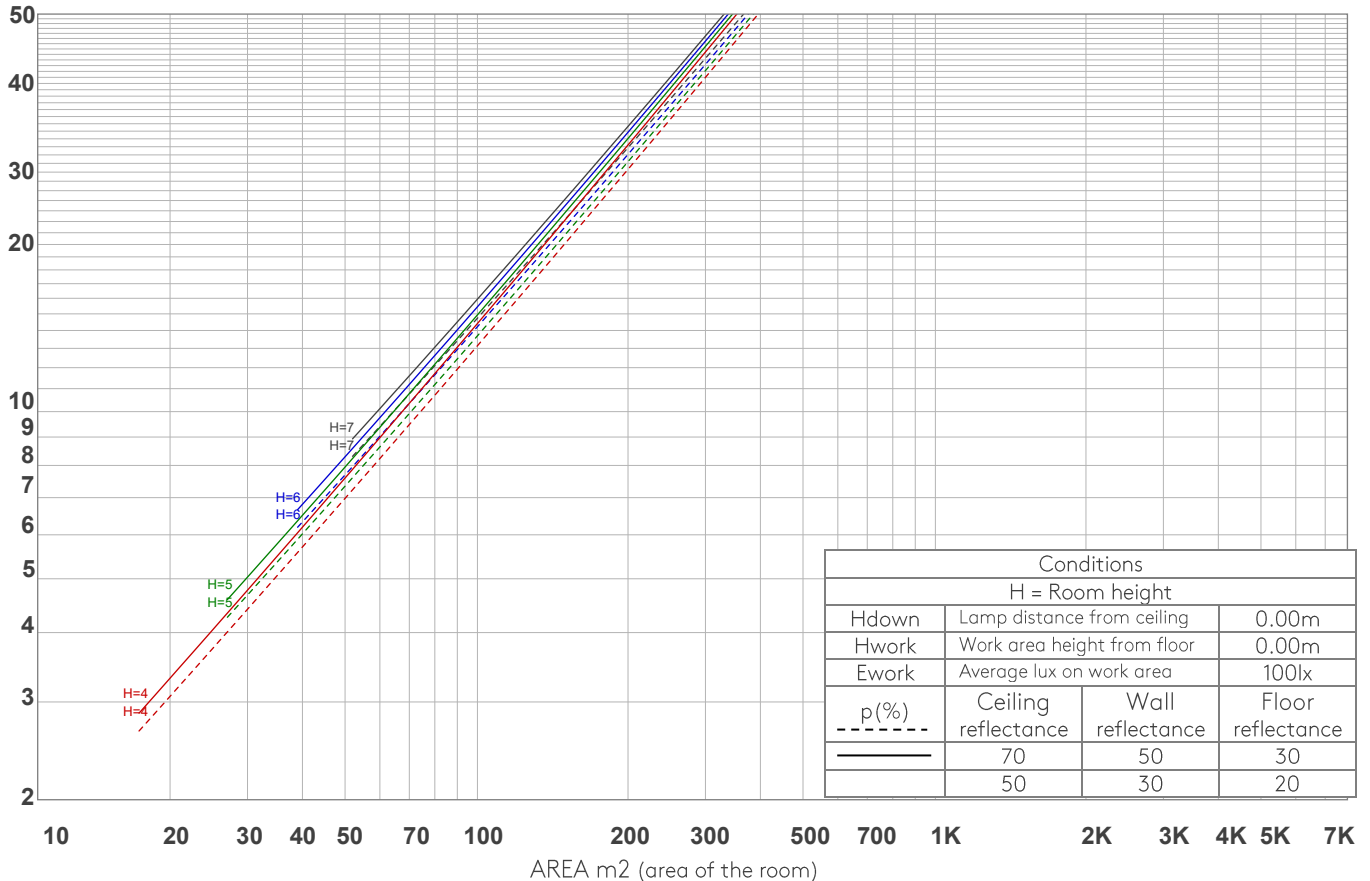
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	115	113	111	109	113	111	109	108	107	105	104	103	102	101	100	99	98	96
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87
5	101	96	92	89	100	95	91	88	93	90	87	92	89	87	90	88	86	85
6	99	92	88	85	97	92	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	88	84	82	87	84	81	86	83	81	80
8	93	87	83	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78
9	91	84	80	78	90	84	80	77	83	80	77	82	79	77	82	79	77	76
10	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	75	74

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



ZONAL LUMEN SUMMARY

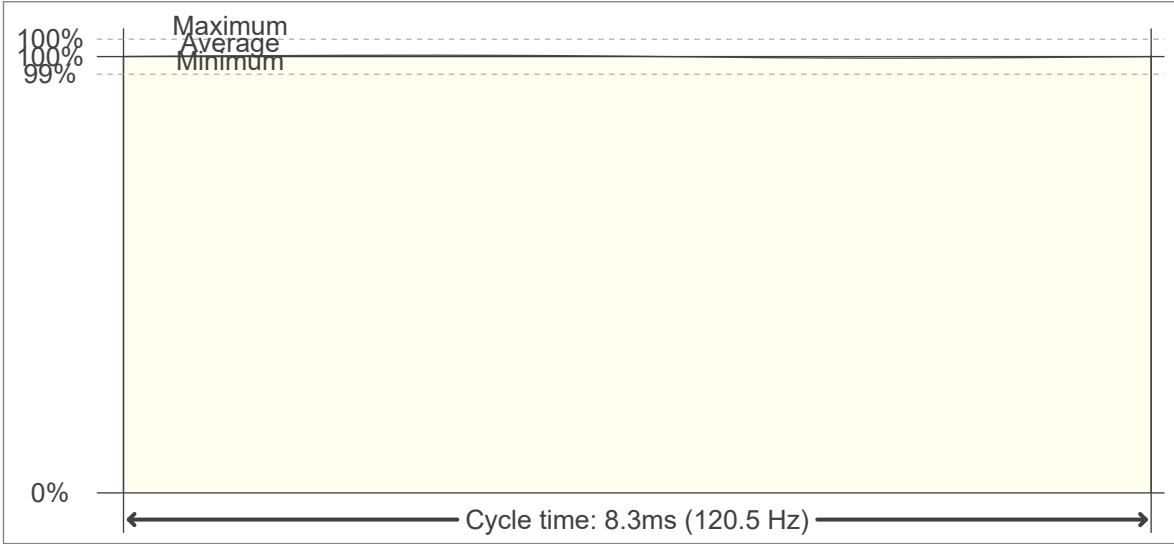
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
263 lm	378 lm	108 lm	14.4 lm	5.40 lm	2.58 lm	1.42 lm	0.572 lm	0.064 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.027 lm	0.021 lm	0.035 lm	0.105 lm	0.282 lm	0.506 lm	0.649 lm	0.476 lm	0.117 lm

FLICKER

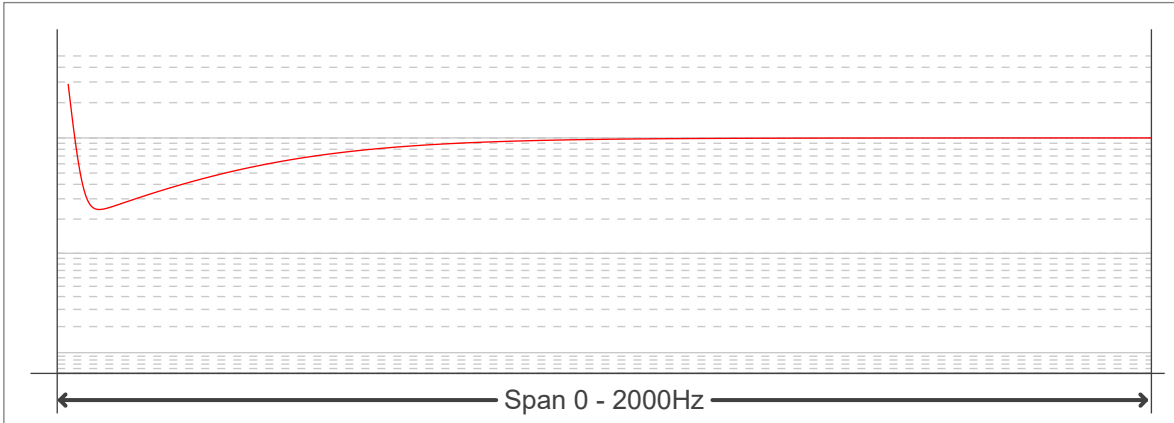
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	120.48 Hz
Flicker index:	0
Flicker percentage:	0.36 %
SVM: (Visual flicker)	0.01

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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