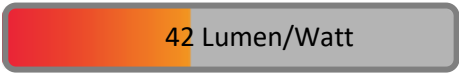


PHOTOMETRIC TEST REPORT

ASCOT 800 6000K

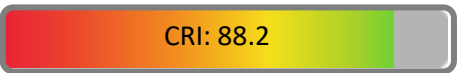
astro

LIGHT EFFICIENCY:



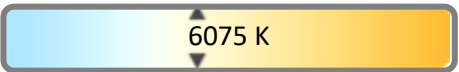
OUTPUT: 1020 lm

LIGHT QUALITY:



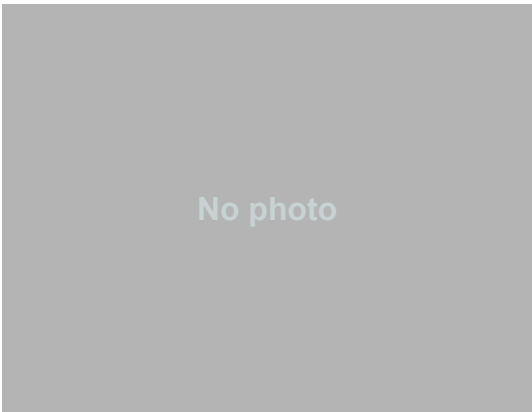
PEAK: 129 cd

COLOR TEMPERATURE:



POWER: 24.2 W

PF: 0.95



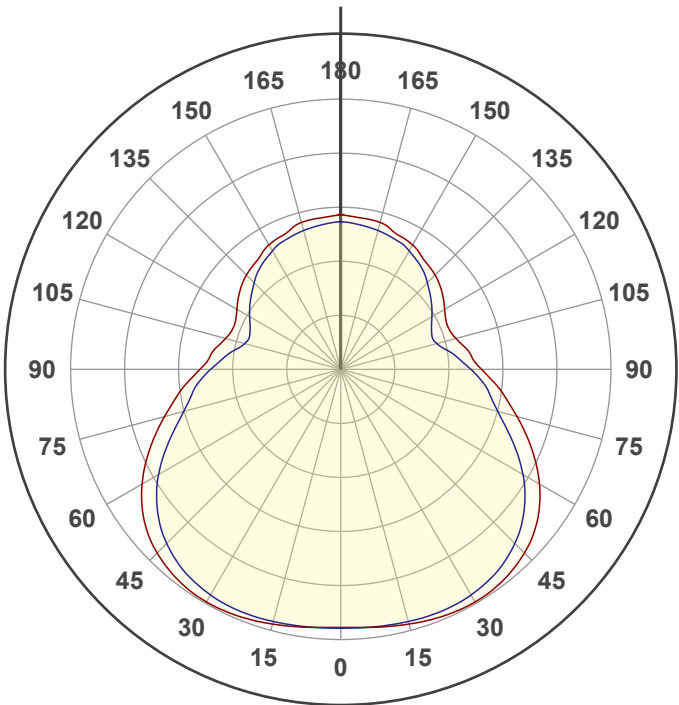
Tracking number: [n/a](#)

Product name:
Ascot 800 6000K

Item number:
1486003

Date and time:
07/06/2023 15:04:21

Description:
Tested at 6000K
IP44

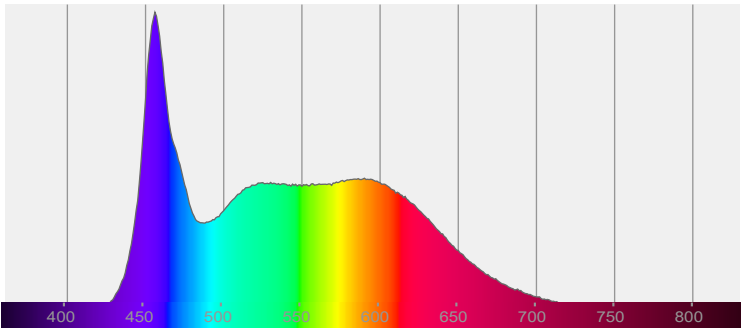


360°

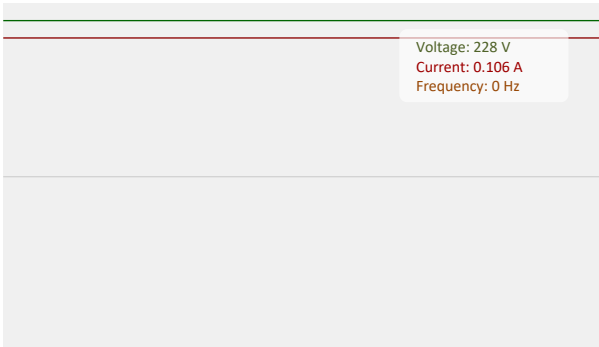


CIE 1931
x: 0.320
y: 0.337

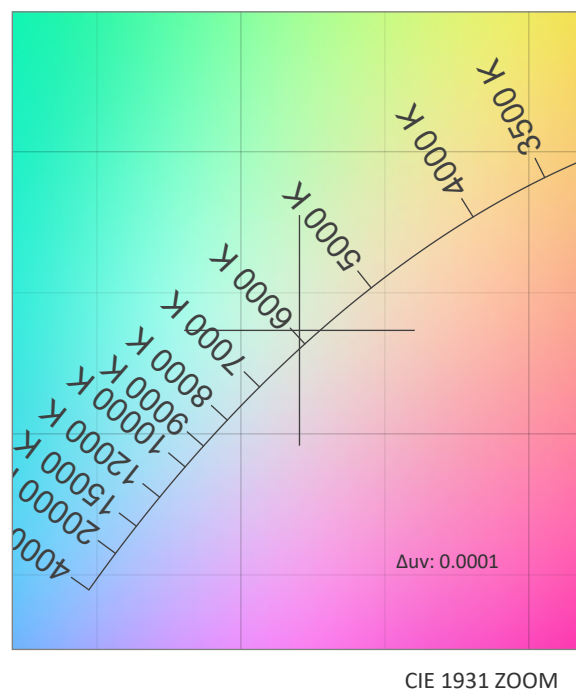
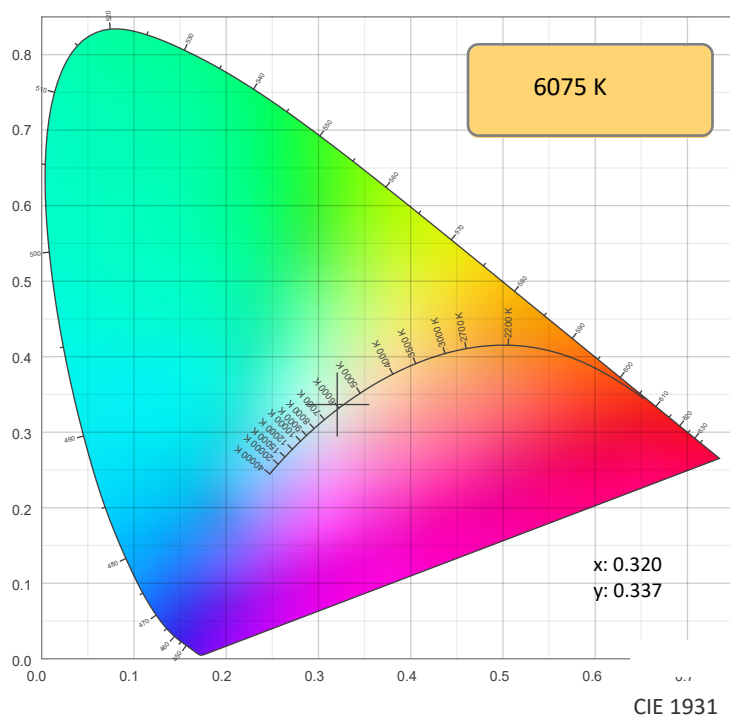
SPECTRA



POWER

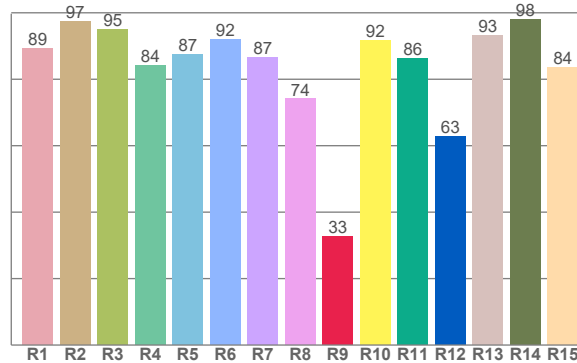
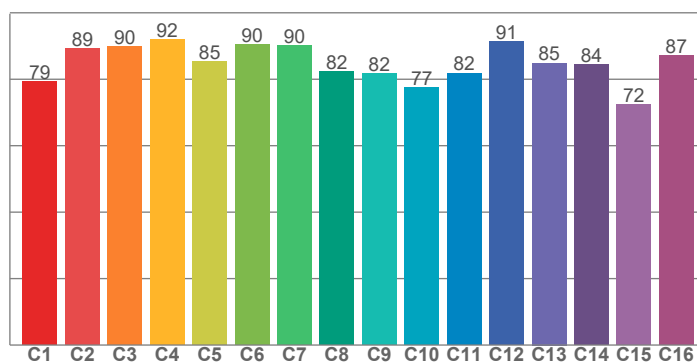


COLOR DETAILS



TM30: 84.9

CRI: 88.2 (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
89.3	97.3	95.0	84.2	87.4	91.9	86.6	74.1	32.8	91.6	86.3	62.7	93.1	98.0	83.6

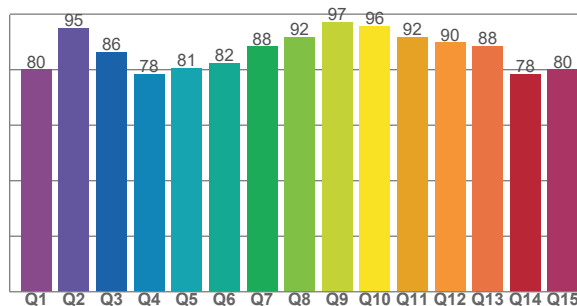
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.3	89.3	89.7	92.0	85.2	90.3	90.0	82.2	81.7	77.4	81.8	91.4	84.9	84.3	72.4	87.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.1	95.1	86.3	78.4	80.6	82.4	88.4	91.7	97.2	95.7	91.8	89.8	88.4	78.4	80.0

CQS: 85.5



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
6075 K	88.2	32.8	84.9	93.0	85.5	0.320	0.337	0.200	0.316	0.0001

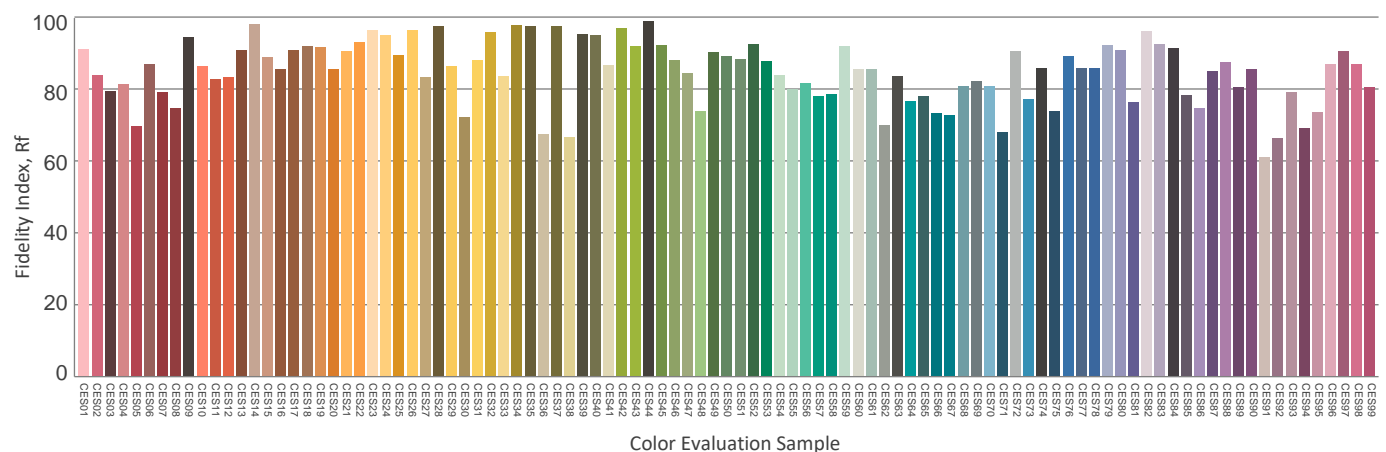
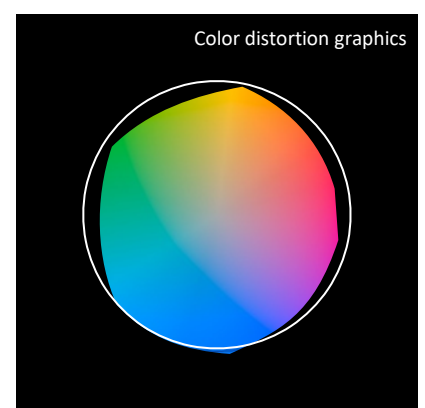
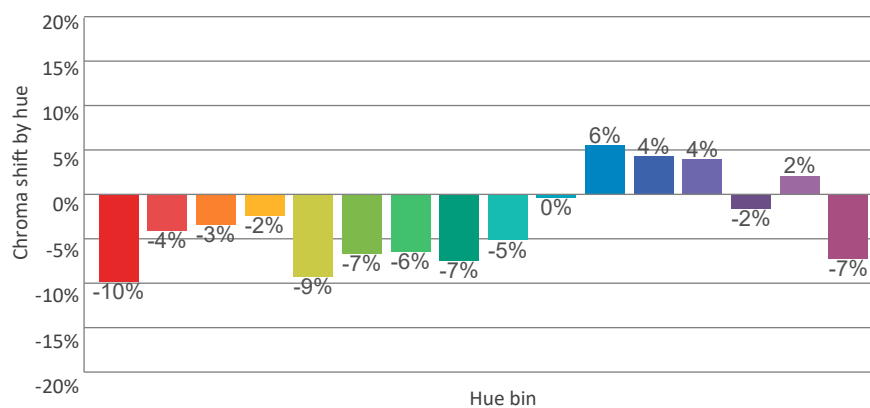
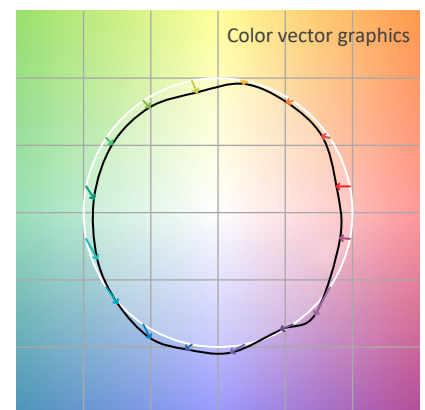
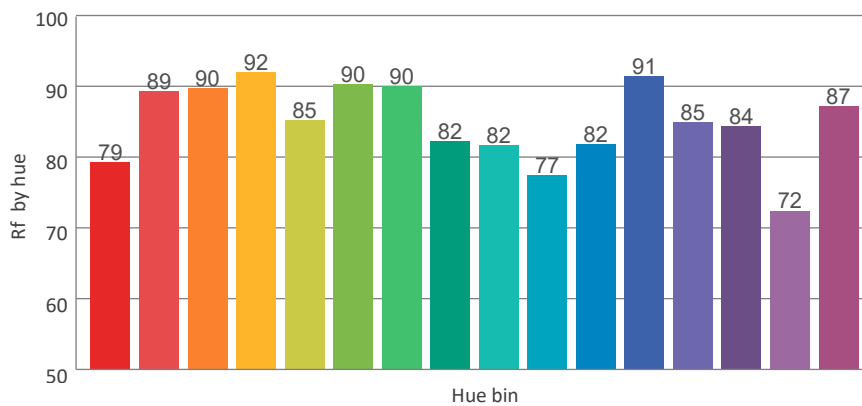
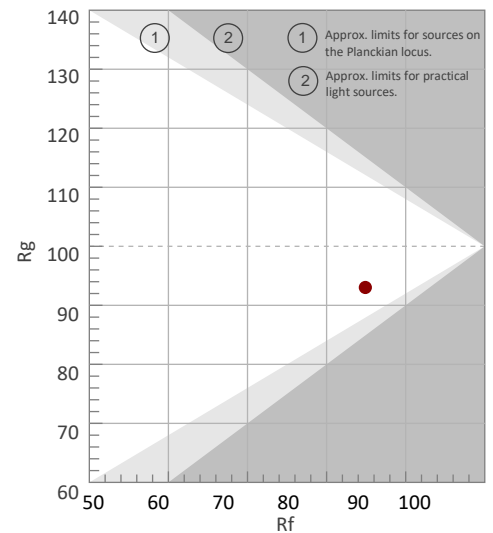
Rf 84.9

Fidelity index Rf

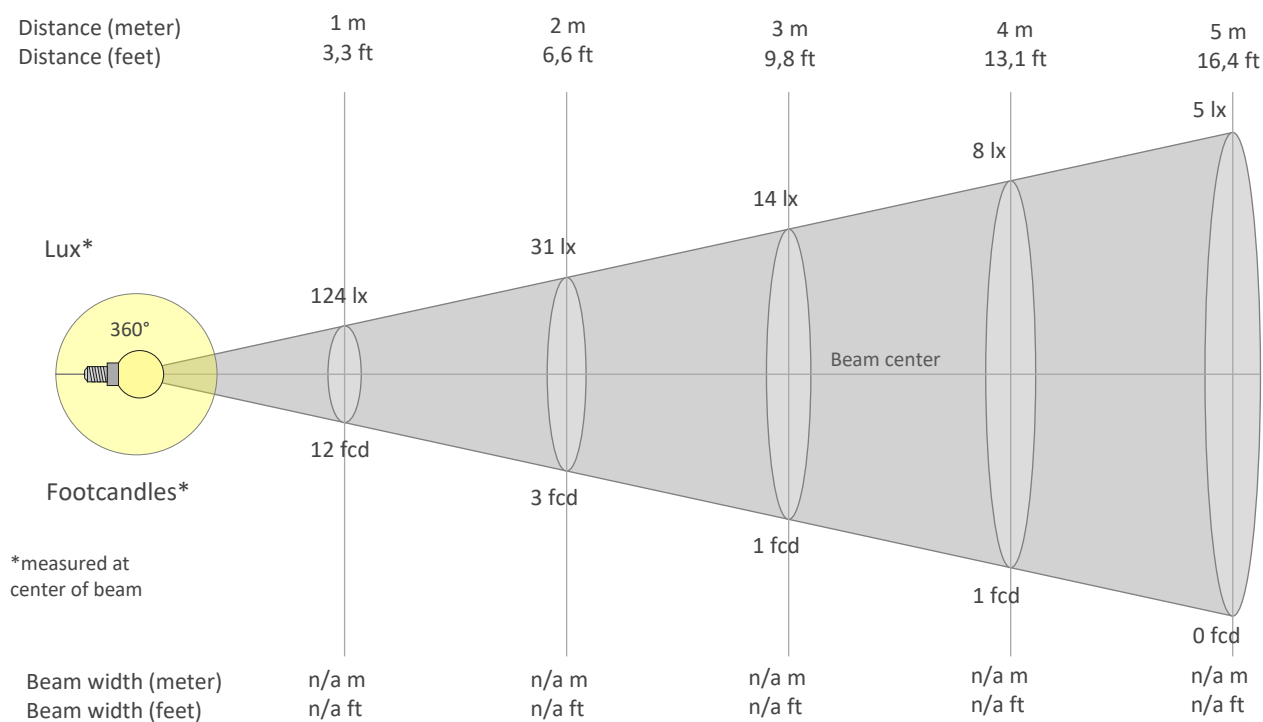
Rg 93.0

Gammut index Rg

Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	79	-10%	2%
2	89	-4%	4%
3	90	-3%	3%
4	92	-2%	0%
5	85	-9%	-2%
6	90	-7%	-1%
7	90	-6%	1%
8	82	-7%	8%
9	82	-5%	16%
10	77	0%	14%
11	82	6%	10%
12	91	4%	-4%
13	85	4%	-11%
14	84	-2%	-10%
15	72	2%	-23%
16	87	-7%	-1%



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
124lx	31lx	14lx	8lx	5lx	3lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
11.5fcd	2.9fcd	1.3fcd	0.7fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
124	125	127	129	128	125	117	106	92	79	68	61	56	56	61	64	67	70	72	73
100%	101%	103%	104%	103%	100%	95%	85%	74%	64%	55%	49%	45%	45%	49%	52%	54%	56%	58%	59%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
124	125	126	126	123	118	109	96	82	72	63	53	47	49	54	59	63	67	69	70
100%	101%	101%	101%	99%	95%	88%	78%	66%	58%	50%	43%	38%	39%	43%	47%	51%	54%	55%	56%

Intensities in 180° c-plane

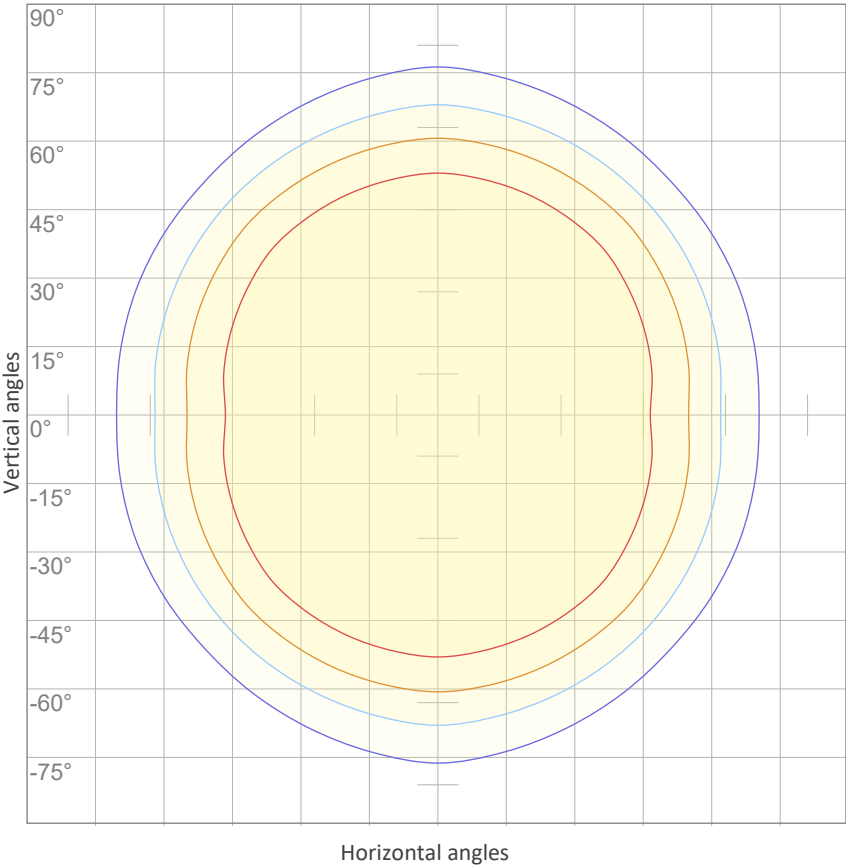
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
124	125	127	129	128	125	117	106	92	79	68	61	56	56	61	64	67	70	72	73
100%	101%	103%	104%	103%	100%	95%	85%	74%	64%	55%	49%	45%	45%	49%	52%	54%	56%	58%	59%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
124	125	126	126	123	118	109	96	82	72	63	53	47	49	54	59	63	67	69	70
100%	101%	101%	101%	99%	95%	88%	78%	66%	58%	50%	43%	38%	39%	43%	47%	51%	54%	55%	56%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
360°	360°	360°	37.5%	22.8%

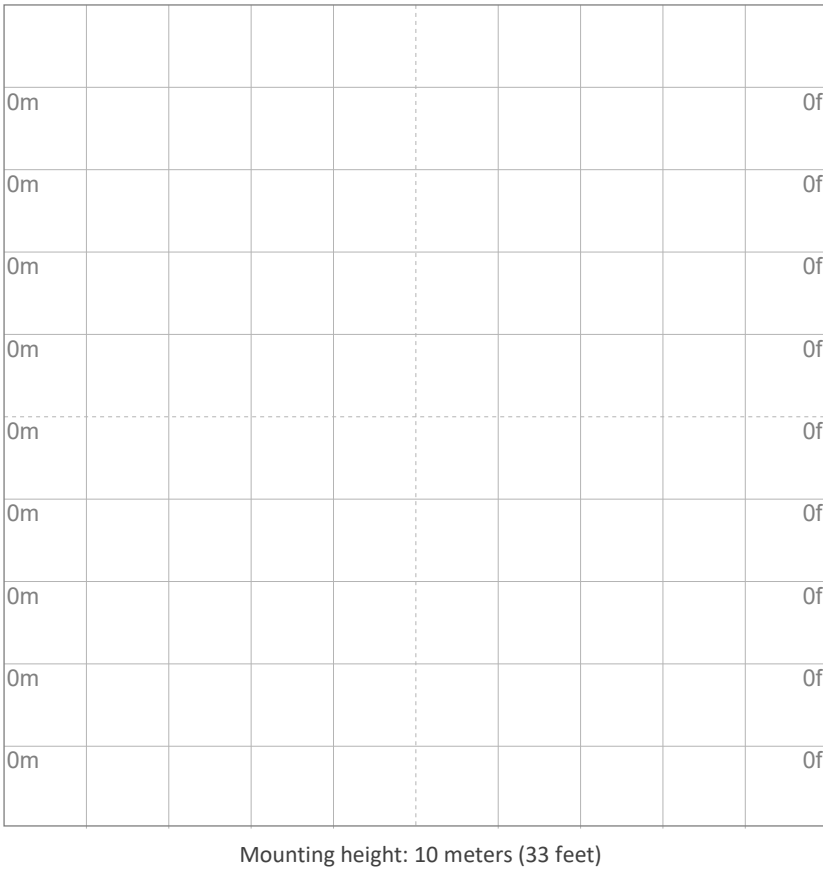
ISO CANDELA DIAGRAM



10%	12 cd
20%	25 cd
30%	37 cd
40%	50 cd
50%	62 cd
60%	75 cd
70%	87 cd
80%	99 cd
90%	112 cd

Conditions:
Number of c-planes: 8
Candela at center: 124 cd

ISO LUX DIAGRAM



3%	37.3m lx
5%	62.1m lx
10%	0.124 lx
30%	0.373 lx
50%	{LUX_10M50} lx

Conditions:
Number of c-planes: 8
Lux at center: 1.24 lx

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

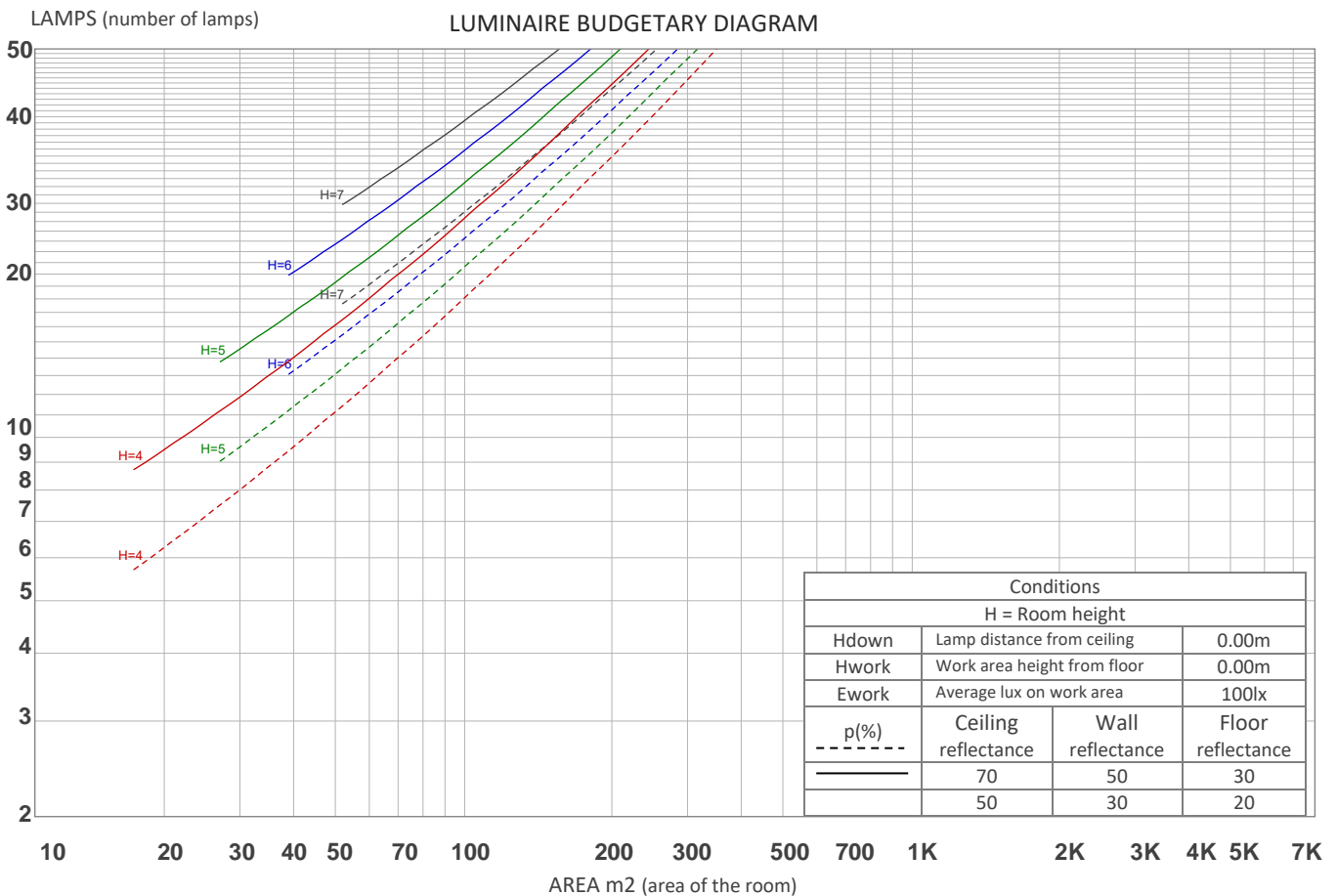
UGR

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	7.4	8.4	8.2	9.2	10.1	7.1	8.1	7.8	8.8	9.8
	3H	10.0	11.0	10.8	11.7	12.7	9.5	10.5	10.4	11.3	12.2
	4H	11.4	12.3	12.2	13.1	14.1	10.9	11.8	11.7	12.6	13.5
	6H	13.0	13.8	13.8	14.7	15.6	12.5	13.3	13.2	14.1	15.1
	8H	13.9	14.8	14.7	15.6	16.5	13.3	14.2	14.1	15.0	16.0
	12H	14.9	15.9	15.7	16.6	17.6	14.4	15.3	15.2	16.0	17.0
4H	2H	8.2	9.1	9.1	9.9	10.9	8.0	8.9	8.8	9.7	10.6
	3H	11.1	12.0	11.9	12.7	13.7	10.7	11.6	11.5	12.3	13.3
	4H	12.6	13.7	13.4	14.2	15.3	12.1	13.3	13.0	13.8	14.8
	6H	14.3	15.1	15.2	15.9	16.8	13.9	14.6	14.7	15.4	16.4
	8H	15.3	15.9	16.2	16.8	17.8	14.8	15.4	15.7	16.3	17.3
	12H	16.5	17.0	17.3	17.9	18.9	16.0	16.5	16.8	17.4	18.4
8H	4H	13.2	13.8	14.0	14.6	15.6	12.8	13.4	13.7	14.3	15.3
	6H	15.2	15.7	16.1	16.6	17.6	14.8	15.3	15.7	16.2	17.2
	8H	16.4	16.8	17.3	17.7	18.8	16.0	16.4	16.9	17.3	18.4
	12H	17.7	18.1	18.7	19.0	20.1	17.3	17.7	18.2	18.6	19.7
12H	4H	13.3	13.8	14.2	14.7	15.7	13.0	13.5	13.8	14.4	15.4
	6H	15.4	15.8	16.3	16.8	17.9	15.1	15.5	16.0	16.5	17.6
	8H	16.7	17.1	17.7	18.0	19.1	16.3	16.7	17.3	17.7	18.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.1 / -0.1				
S = 1.5H		0.1 / -0.1					0.1 / -0.1				
S = 2.0H		0.2 / -0.2					0.2 / -0.2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1020 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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	97	91	86	81	91	85	81	76	74	71	67	64	61	59	55	53	51	46
2	87	78	70	63	81	73	66	60	63	57	53	54	50	46	46	43	40	36
3	78	67	58	51	73	63	55	48	54	48	43	47	42	37	40	36	32	28
4	71	59	49	42	66	55	46	40	48	41	35	41	35	31	35	30	27	23
5	65	52	42	35	60	48	40	34	42	35	30	36	31	26	31	26	23	20
6	60	46	37	30	55	43	35	29	38	31	26	32	27	23	28	23	19	17
7	55	41	32	26	51	39	31	25	34	27	22	29	24	20	25	20	17	14
8	51	37	29	23	47	35	27	22	31	24	19	27	21	17	23	18	15	13
9	47	34	26	20	44	32	24	19	28	22	17	24	19	15	21	17	13	11
10	44	31	23	18	41	29	22	17	26	20	15	23	17	14	19	15	12	10



ZONAL LUMEN SUMMARY

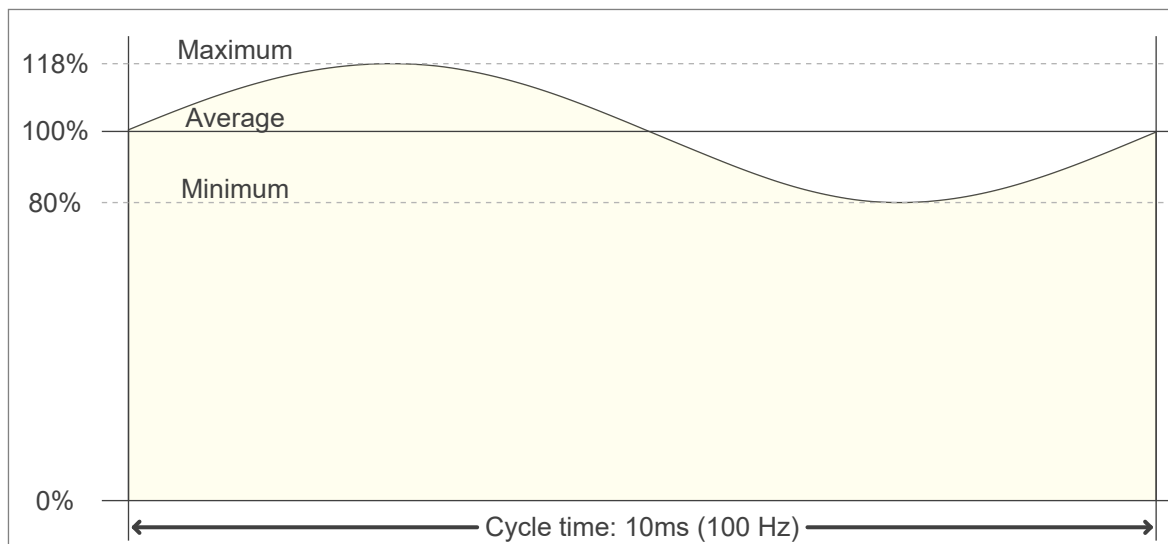
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
11.9 lm	35.8 lm	59.1 lm	79.7 lm	94.7 lm	101 lm	98.4 lm	87.8 lm	76.0 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
64.7 lm	56.2 lm	52.9 lm	52.0 lm	48.4 lm	41.8 lm	32.1 lm	20.1 lm	6.90 lm

FLICKER

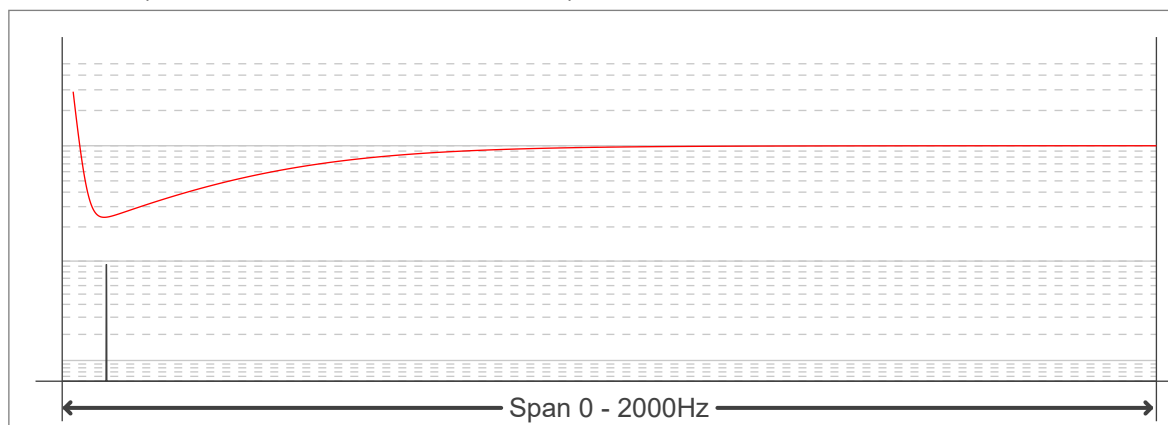
FLICKER CURVE (COMPLETE SAMPLED FLICKER)



FLICKER FRAME (FRAME OF ONE FLICKER PERIOD)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER CURVE)



FLICKER RESULTS:

Flicker frequency:	100 Hz
Flicker index:	0.06
Flicker percentage:	19.09 %
SVM: (Visual flicker)	0.73

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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