

PHOTOMETRIC TEST REPORT

DROP CE 3000K

astro

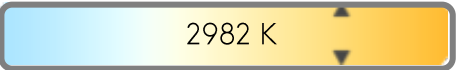
LIGHT EFFICIENCY:



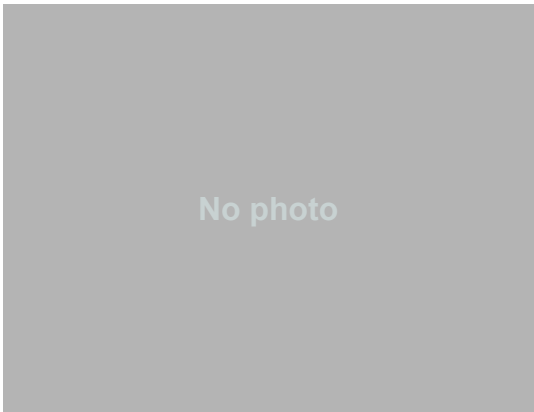
LIGHT QUALITY:



COLOR TEMPERATURE:



OUTPUT: 263 lm
PEAK: 63.1 cd
POWER: 4.2 W
PF: 0.93



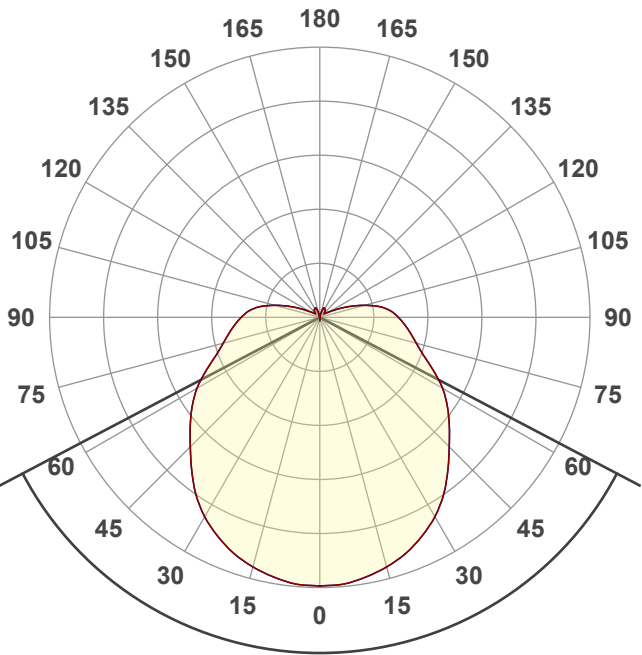
Tracking number: [n/a](#)

Product name:
Drop CE 3000k

Item number:
1523001

Date and time:
15/04/2026 14:44:46

Description:
3000k, 350mA.

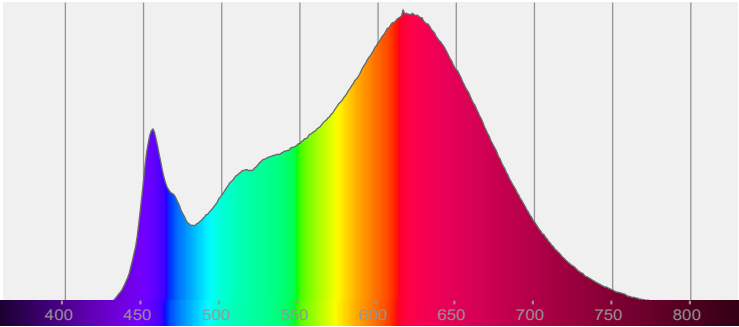


124.5°

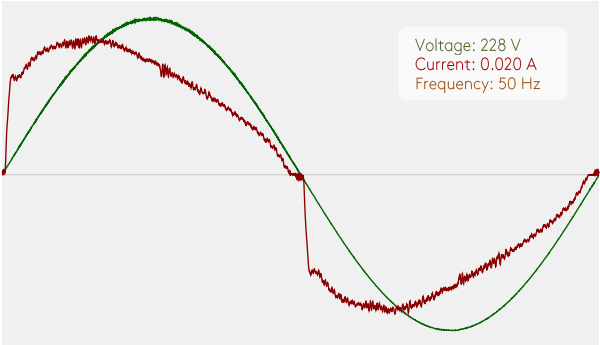


CIE 1931
x: 0.433
y: 0.393

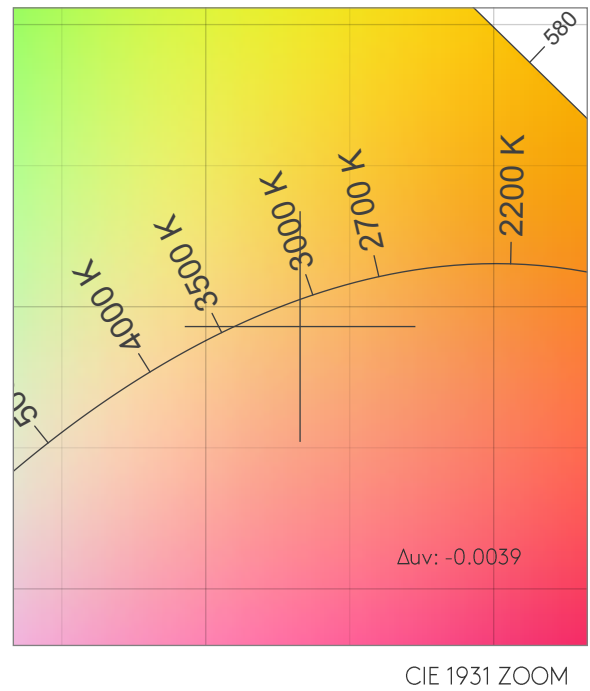
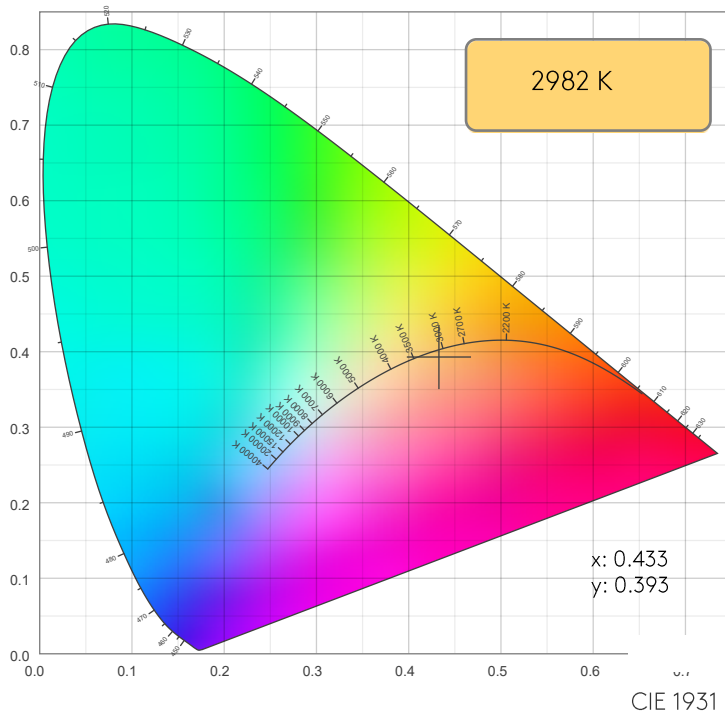
SPECTRA



POWER

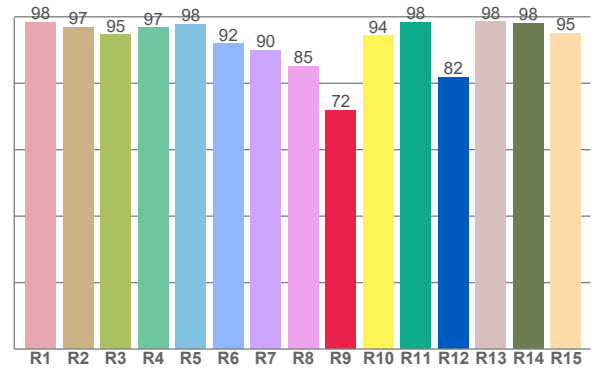
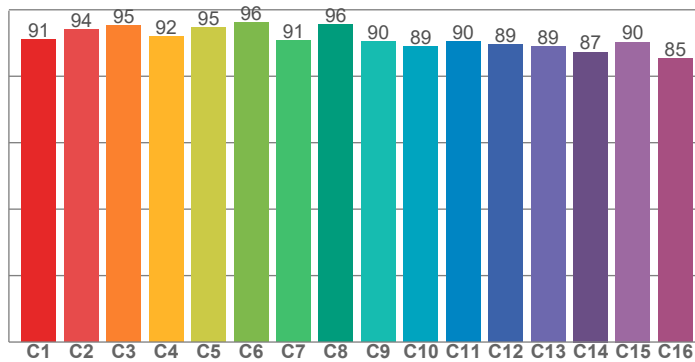


COLOR DETAILS



TM30: 91.4

CRI: 93.9 (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
98.3	96.9	94.6	96.6	97.7	91.9	90.0	85.2	71.8	94.3	98.4	81.8	98.5	98.0	94.9

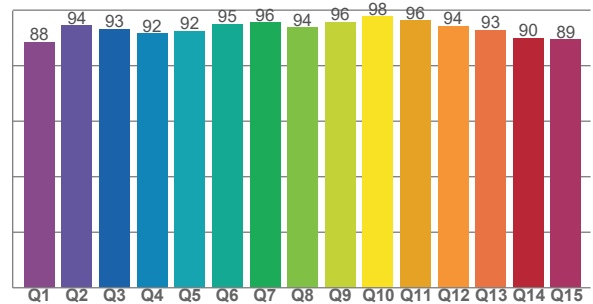
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.1	94.1	95.3	91.9	94.7	96.0	90.7	95.6	90.5	89.0	90.4	89.4	89.0	87.3	90.3	85.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.5	94.5	93.2	91.6	92.5	94.9	95.5	93.8	95.7	97.7	96.3	94.3	92.8	89.9	89.5

CQS: 92.8



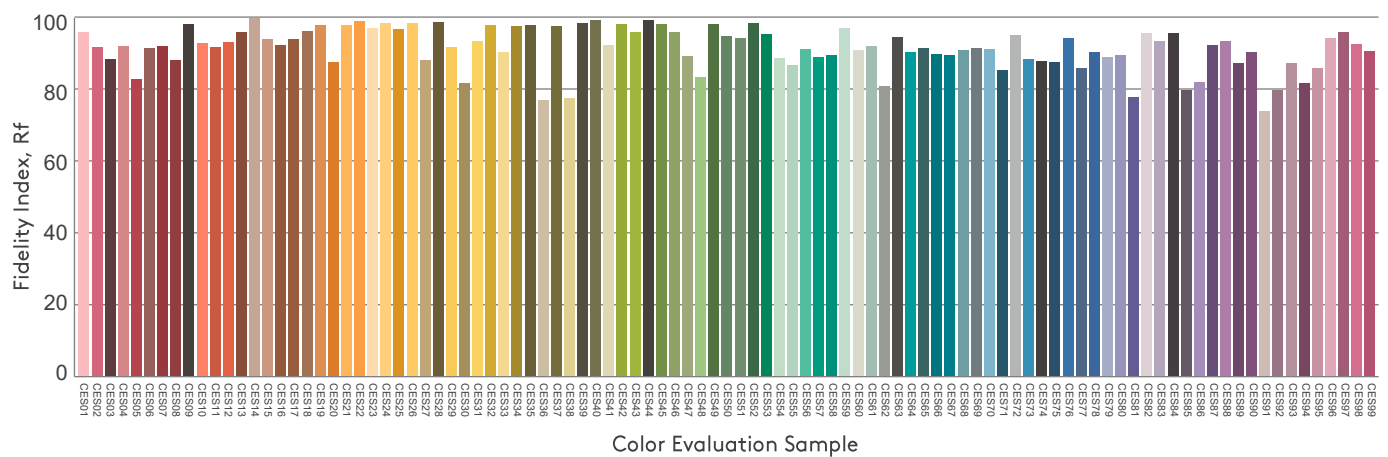
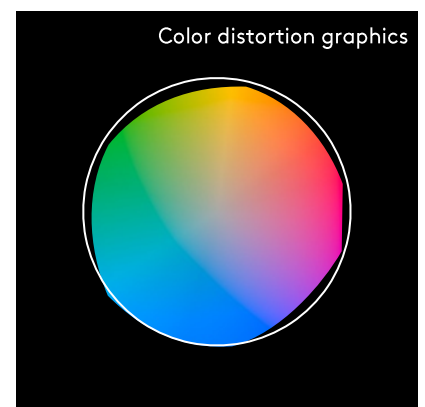
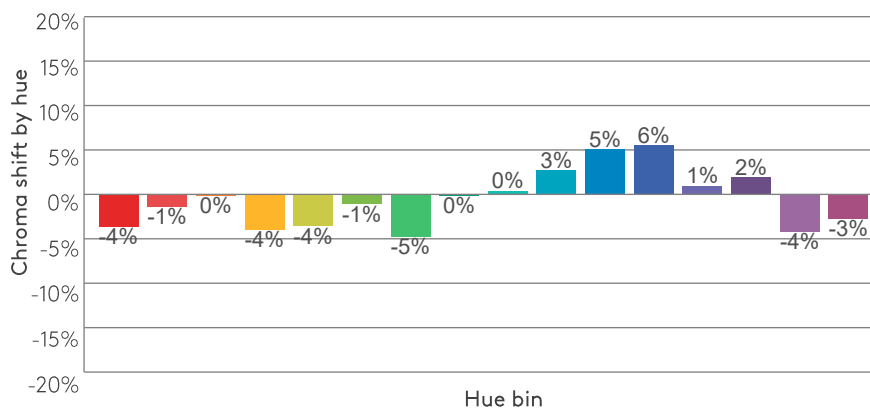
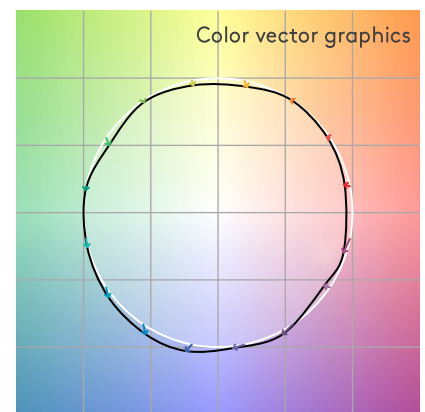
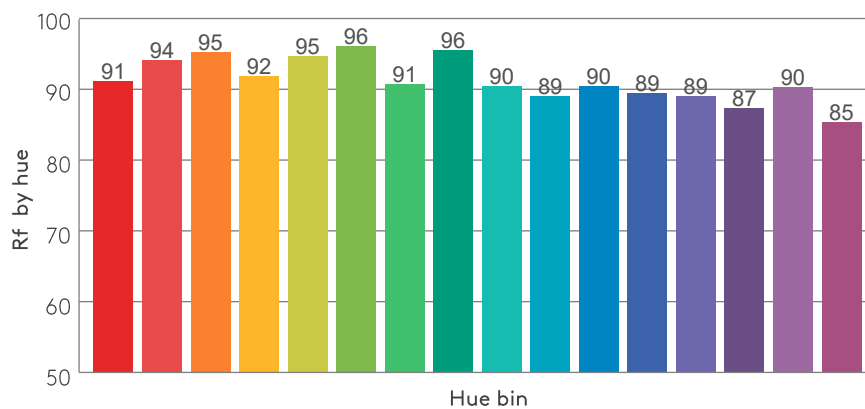
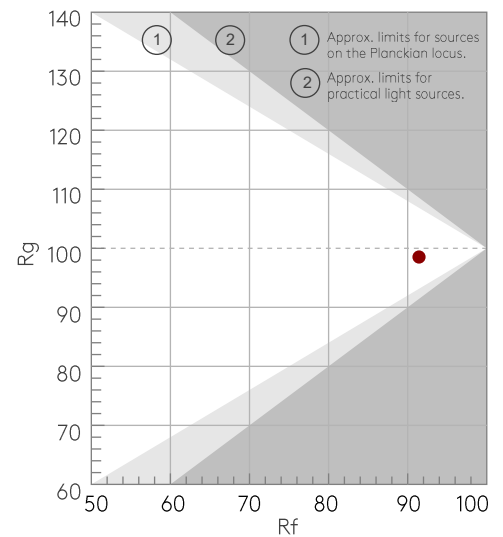
COLOR PARAMETERS

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
2982 K	93.9	71.8	91.4	98.5	92.8	0.433	0.393	0.253	0.344	-0.0039

Rf 91.4
Fidelity index Rf

Rg 98.5
Gamut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	2%
2	94	-1%	2%
3	95	0%	2%
4	92	-4%	-3%
5	95	-4%	0%
6	96	-1%	0%
7	91	-5%	3%
8	96	0%	3%
9	90	0%	6%
10	89	3%	7%
11	90	5%	5%
12	89	6%	-3%
13	89	1%	-8%
14	87	2%	-10%
15	90	-4%	-1%
16	85	-3%	-11%



The diagram illustrates a beam of light from a spotlight. The beam originates from a light source on the left, labeled with a beam angle of 124.5°. The beam is represented by a gray cone that widens as it moves to the right. A horizontal line runs through the center of the beam, labeled "Beam center".

Key measurements are provided at various distances from the light source:

- Distance (meter) / Distance (feet):** 1 m (3.3 ft), 2 m (6.6 ft), 3 m (9.8 ft), 4 m (13.1 ft), 5 m (16.4 ft).
- Beam width (meter) / Beam width (feet):** 3.8 m (12.6 ft), 7.6 m (25.1 ft), 11.4 m (37.3 ft), 15.2 m (49.8 ft), 19 m (62.4 ft).
- Footcandles* (fcd):** 6 fcd, 1 fcd, 1 fcd, 0 fcd, 0 fcd.
- Lux* (lx):** 63 lx, 16 lx, 7 lx, 4 lx, 3 lx.

*measured at center of beam

[illegible]

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
63.1	62.2	59.7	55.7	50.0	43.0	37.2	31.0	24.9	21.3	18.4	14.8	8.8	3.7	1.8	1.6	2.2	2.4	1.5	0.2
100%	99%	95%	88%	79%	68%	59%	49%	40%	34%	29%	24%	14%	6%	3%	2%	3%	4%	2%	0%

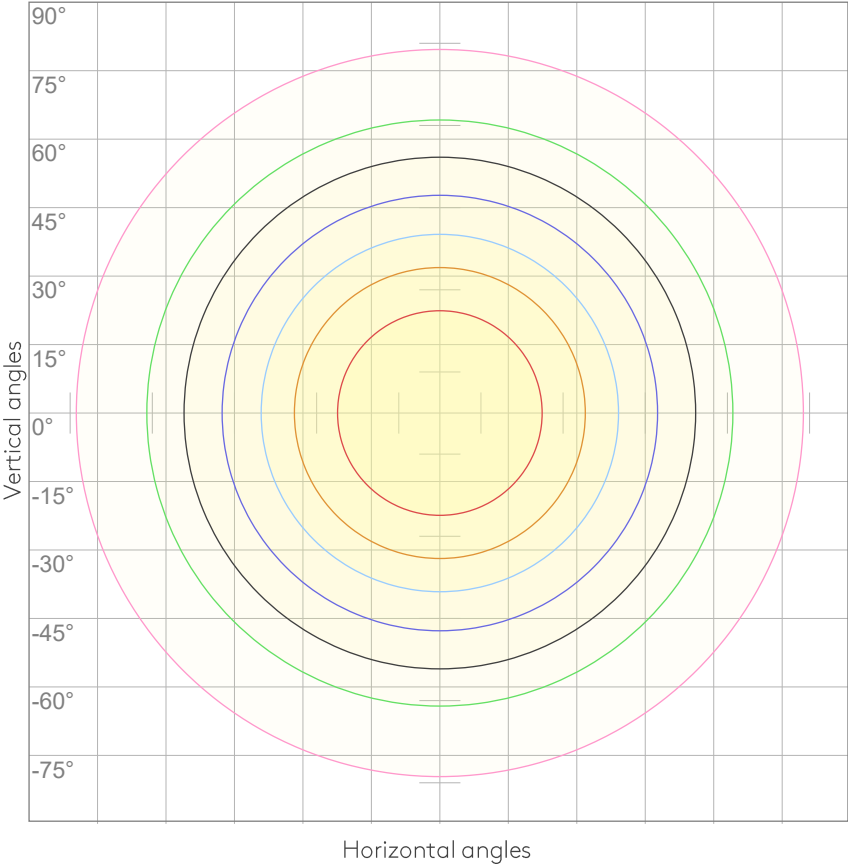
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
63.1	62.2	59.7	55.7	50.0	43.0	37.2	31.0	24.9	21.3	18.4	14.8	8.8	3.7	1.8	1.6	2.2	2.4	1.5	0.2
100%	99%	95%	88%	79%	68%	59%	49%	40%	34%	29%	24%	14%	6%	3%	2%	3%	4%	2%	0%

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
63.1	62.2	59.7	55.7	50.0	43.0	37.2	31.0	24.9	21.3	18.4	14.8	8.8	3.7	1.8	1.6	2.2	2.4	1.5	0.2
100%	99%	95%	88%	79%	68%	59%	49%	40%	34%	29%	24%	14%	6%	3%	2%	3%	4%	2%	0%

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
63.1	62.2	59.7	55.7	50.0	43.0	37.2	31.0	24.9	21.3	18.4	14.8	8.8	3.7	1.8	1.6	2.2	2.4	1.5	0.2
100%	99%	95%	88%	79%	68%	59%	49%	40%	34%	29%	24%	14%	6%	3%	2%	3%	4%	2%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
124,5°	224°	322,9°	55,8%	37,1%

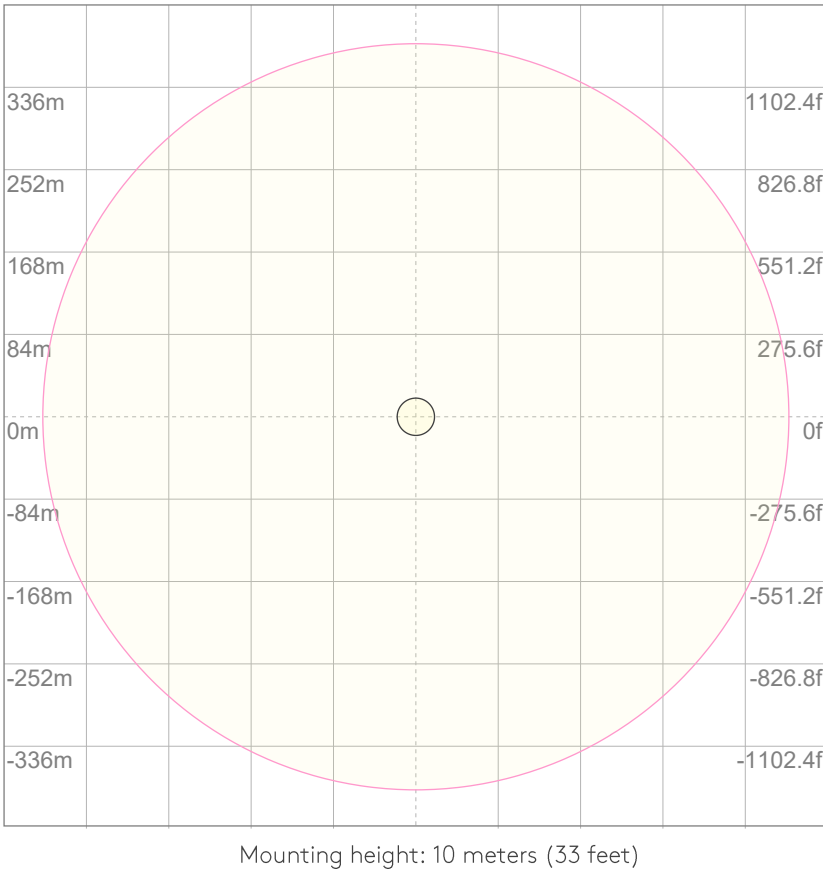
ISO CANDELA DIAGRAM



10%	6 cd
20%	13 cd
30%	19 cd
40%	25 cd
50%	32 cd
60%	38 cd
70%	44 cd
80%	50 cd
90%	57 cd

Conditions:
Number of c-planes: 24
Candela at center: 63 cd

ISO LUX DIAGRAM



3%	18.9m lx
5%	31.5m lx
10%	63.1m lx
30%	0.189 lx
50%	{LUX_10M50} lx

Conditions:
Number of c-planes: 24
Lux at center: 0.631 lx

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

UGR

GLARE EVALUATION ACCORDING TO UGR

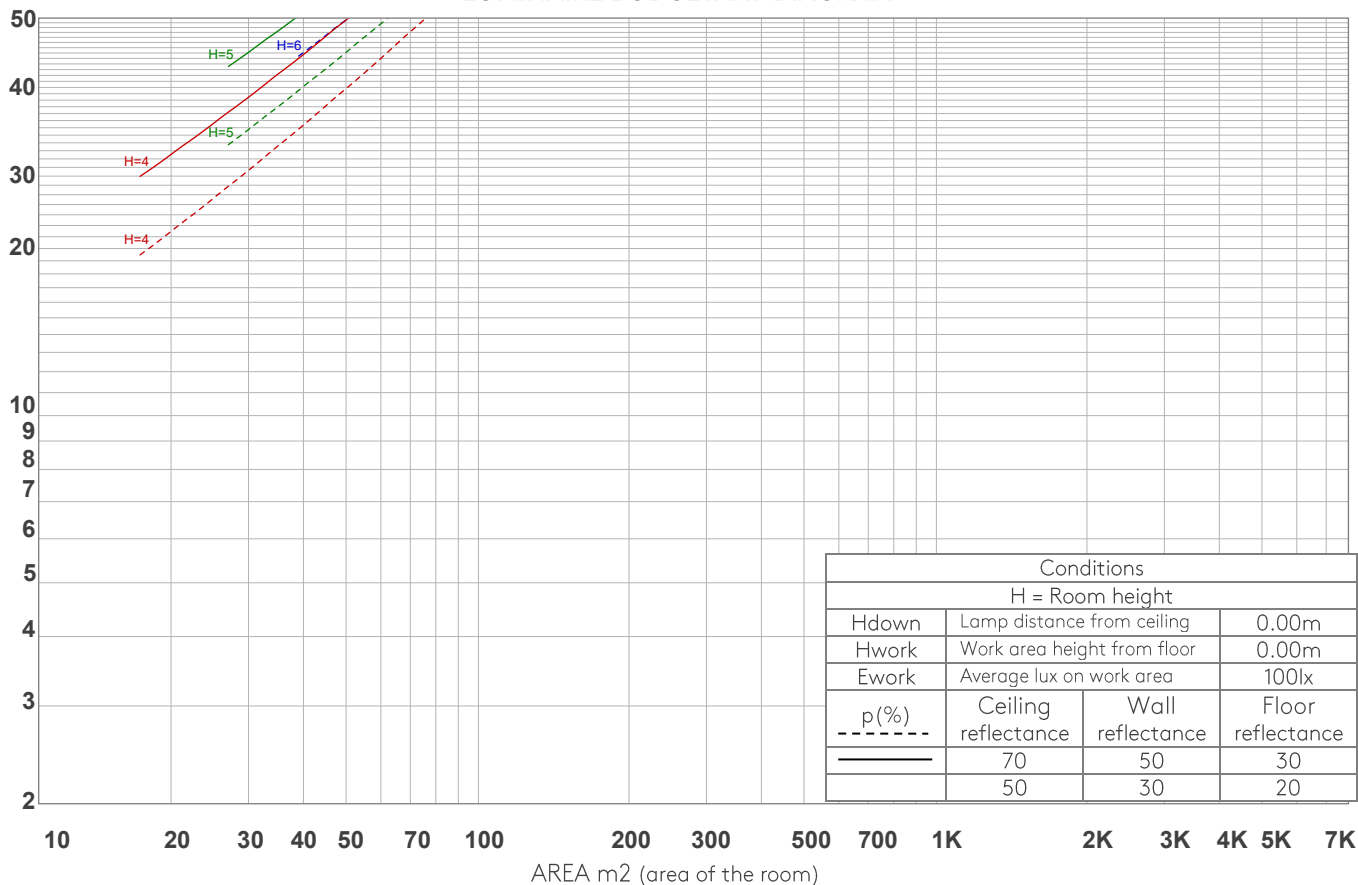
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13.2	14.4	13.7	14.9	15.5	13.2	14.4	13.7	14.9	15.5
	3H	14.9	16.0	15.5	16.6	17.1	14.9	16.0	15.5	16.6	17.1
	4H	15.7	16.8	16.3	17.4	17.9	15.7	16.8	16.3	17.4	17.9
	6H	16.6	17.6	17.2	18.2	18.8	16.6	17.6	17.2	18.2	18.8
	8H	17.1	18.1	17.6	18.6	19.3	17.1	18.1	17.6	18.6	19.3
	12H	17.5	18.5	18.1	19.0	19.7	17.5	18.5	18.1	19.0	19.7
4H	2H	13.8	15.0	14.4	15.5	16.1	13.8	15.0	14.4	15.5	16.1
	3H	15.8	16.8	16.4	17.3	18.0	15.8	16.8	16.4	17.3	18.0
	4H	16.7	17.8	17.4	18.3	19.0	16.7	17.8	17.4	18.3	19.0
	6H	17.8	18.7	18.5	19.2	19.9	17.8	18.7	18.5	19.2	19.9
	8H	18.3	19.1	19.0	19.7	20.4	18.3	19.1	19.0	19.7	20.4
	12H	18.8	19.5	19.5	20.2	20.9	18.8	19.5	19.5	20.2	20.9
8H	4H	17.1	17.9	17.8	18.5	19.2	17.1	17.9	17.8	18.5	19.2
	6H	18.4	19.0	19.1	19.7	20.5	18.4	19.0	19.1	19.7	20.5
	8H	19.1	19.7	19.8	20.4	21.3	19.1	19.7	19.8	20.4	21.3
	12H	19.8	20.3	20.6	21.0	21.9	19.8	20.3	20.6	21.0	21.9
12H	4H	17.2	17.9	17.9	18.5	19.2	17.2	17.9	17.9	18.5	19.2
	6H	18.6	19.1	19.3	19.9	20.7	18.6	19.1	19.3	19.9	20.7
	8H	19.4	19.8	20.1	20.6	21.4	19.4	19.8	20.1	20.6	21.4
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 / -0.3					0.2 / -0.3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 263 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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64
2	92	82	74	68	88	79	72	66	73	67	62	67	62	58	62	58	55	51
3	83	71	62	55	79	69	60	54	63	56	51	59	53	48	54	49	45	42
4	76	63	53	46	72	60	52	45	56	49	43	52	46	40	48	43	38	35
5	69	56	46	39	66	54	45	38	50	42	37	46	40	35	43	37	33	30
6	64	50	41	34	61	48	40	33	45	37	32	42	35	30	39	33	29	26
7	59	45	36	30	57	44	35	29	41	33	28	38	32	27	35	30	25	23
8	55	41	32	26	53	40	32	26	37	30	25	35	28	24	32	27	23	21
9	51	38	29	24	49	37	29	23	34	27	22	32	26	21	30	24	20	18
10	48	35	27	21	46	34	26	21	32	25	20	30	24	19	28	22	19	17

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM

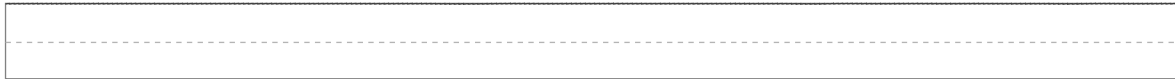


ZONAL LUMEN SUMMARY

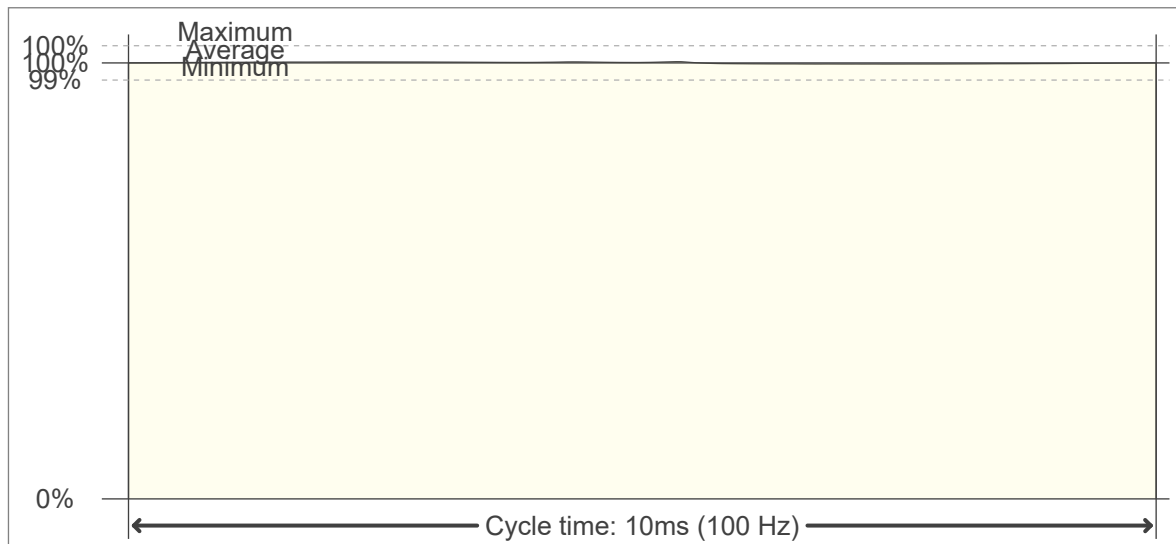
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
5.97 lm	17.1 lm	26.1 lm	31.7 lm	33.3 lm	32.7 lm	29.2 lm	25.0 lm	21.9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
18.1 lm	11.6 lm	4.77 lm	1.72 lm	1.23 lm	1.36 lm	1.08 lm	0.264 lm	0.014 lm

FLICKER

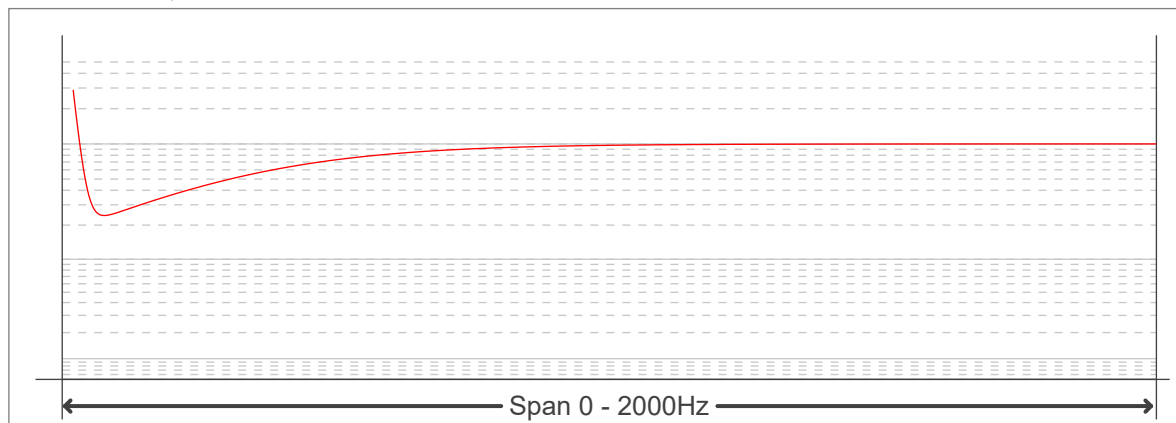
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	100 Hz
Flicker index:	0
Flicker percentage:	0.44 %
SVM: (Visual flicker)	0.01

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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