

Light efficiency:

107 Lumen/Watt

Light quality:

CRI: 92.5

Color temperature:

2929 K

Output: 462 lm

Peak: 137 cd

Power: 4.3 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

**PC10.5MRBORGBWADR2012.0RGB3
0-WHITE**

Item number:

Date and time:

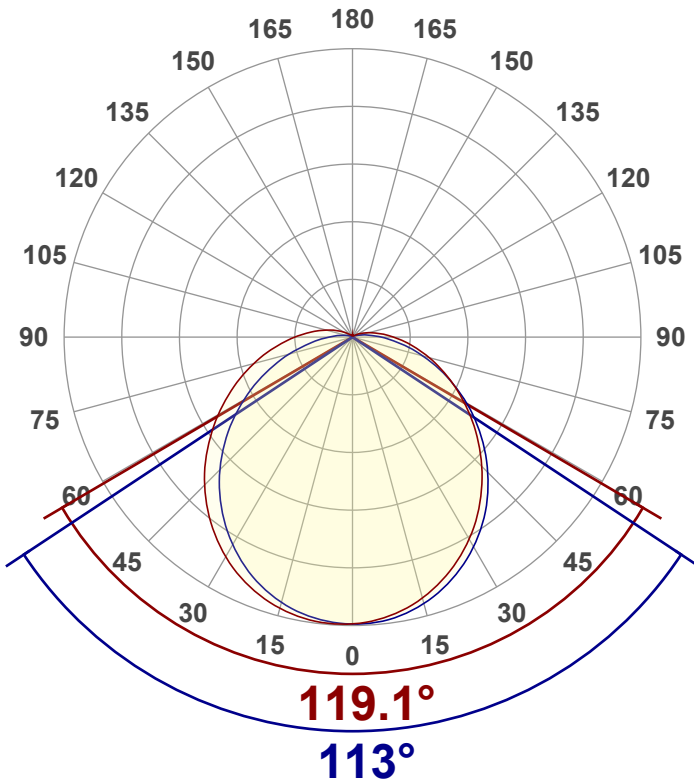
2024/9/25 17:14:53

Operator:

Nick

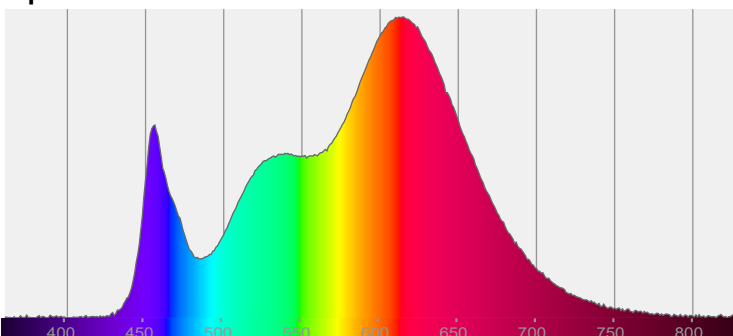
Description:

DIAMETER 40.6MM,LENGTH 500MM

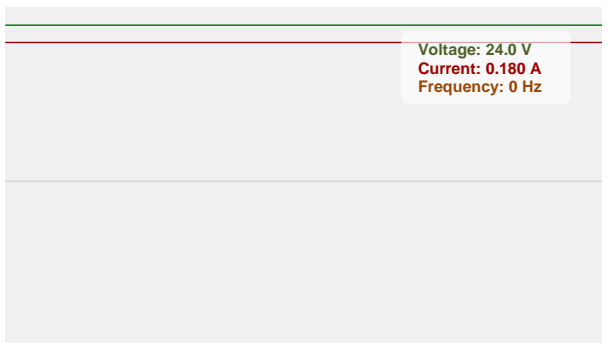


CIE 1931
x: 0.436
y: 0.393

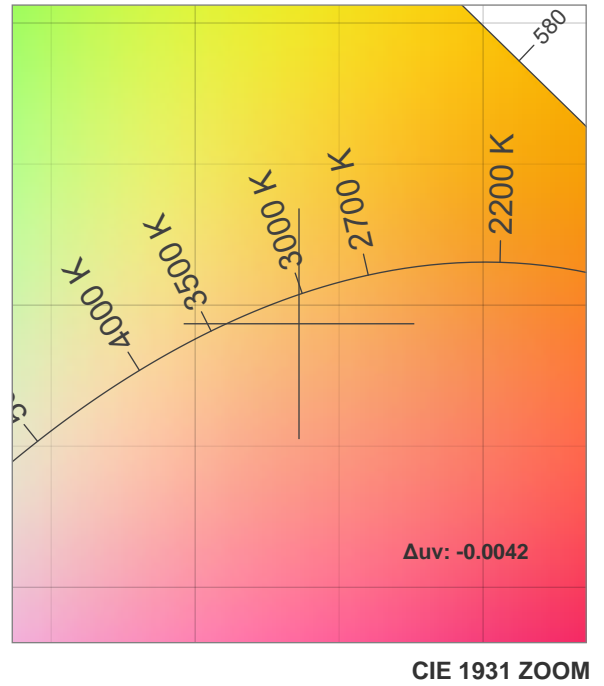
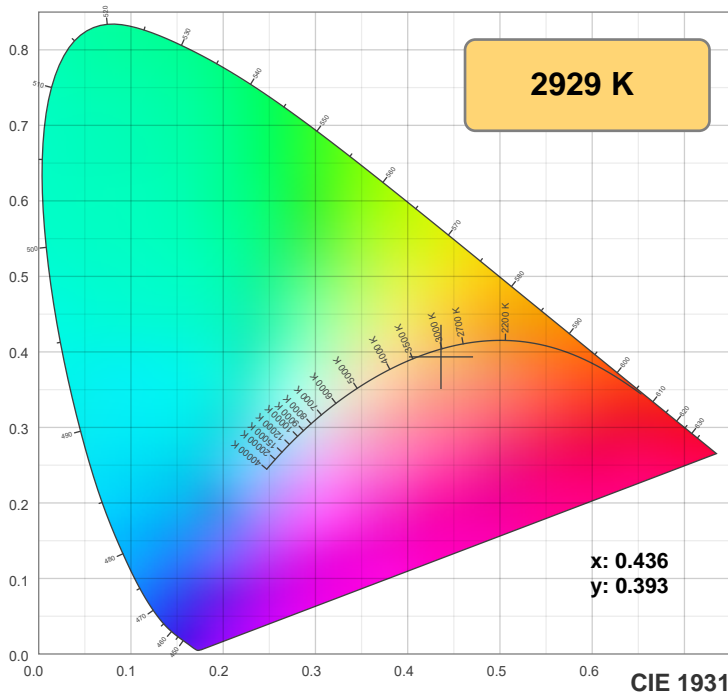
Spectra



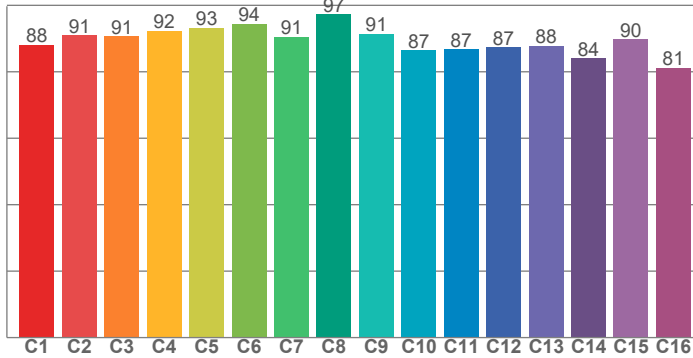
Power



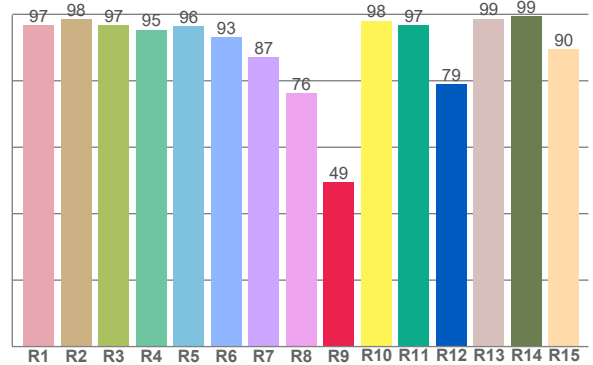
Voltage: 24.0 V
Current: 0.180 A
Frequency: 0 Hz



TM-30: 89.5



CRI: 92.5 (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
96.6	98.5	96.8	95.4	96.4	93.1	87.1	76.3	49.5	98.1	96.8	79.0	98.7	99.4	89.6

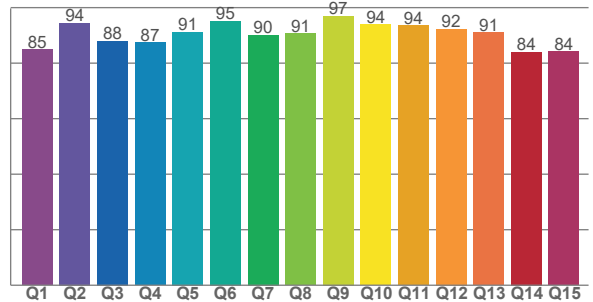
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.1	90.9	90.7	92.4	93.2	94.5	90.6	97.3	91.4	86.5	86.8	87.3	87.8	84.1	89.8	81.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.8	94.4	87.9	87.4	91.3	95.2	90.2	90.6	96.9	93.9	93.6	92.3	91.0	83.9	84.2

CQS: 89.6



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
2929 K	92.5	49.5	89.5	99.1	89.6	0.436	0.393	0.255	0.345	-0.0042

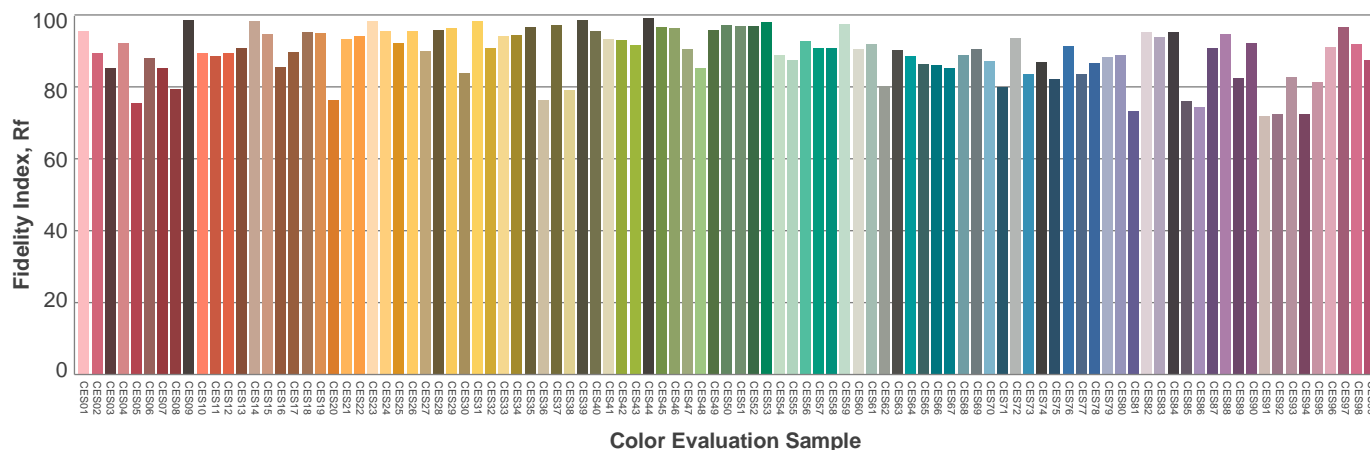
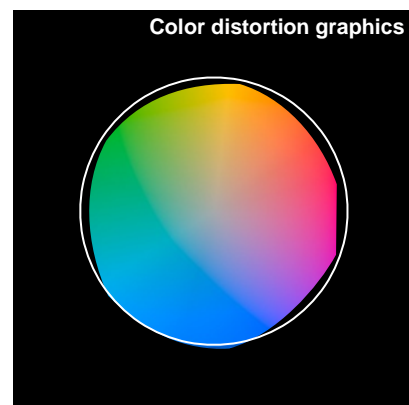
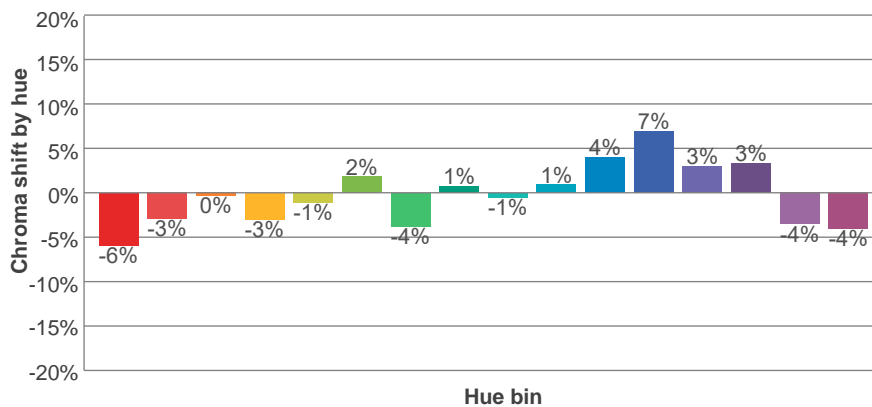
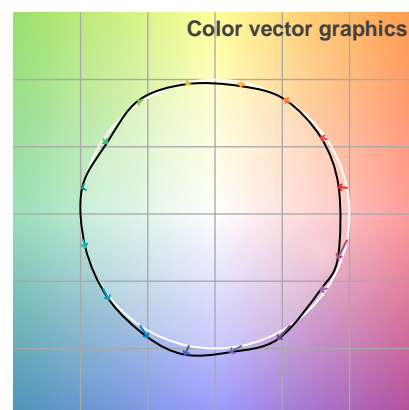
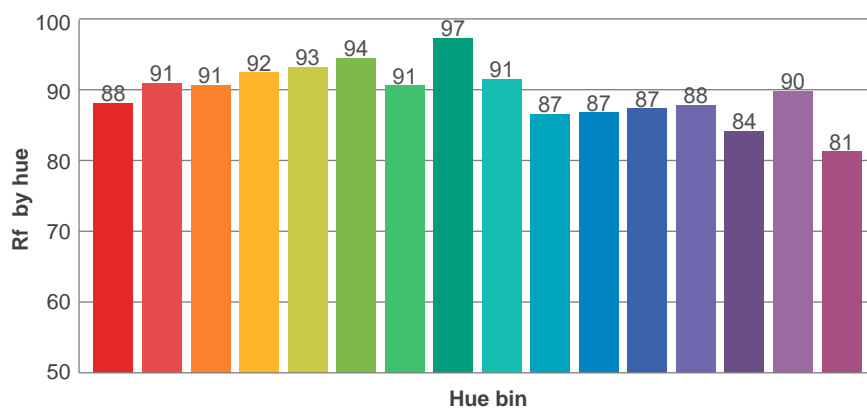
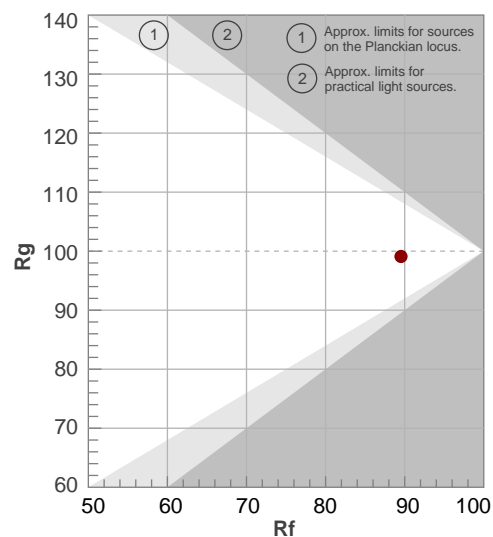
Rf 89.5

Fidelity index Rf

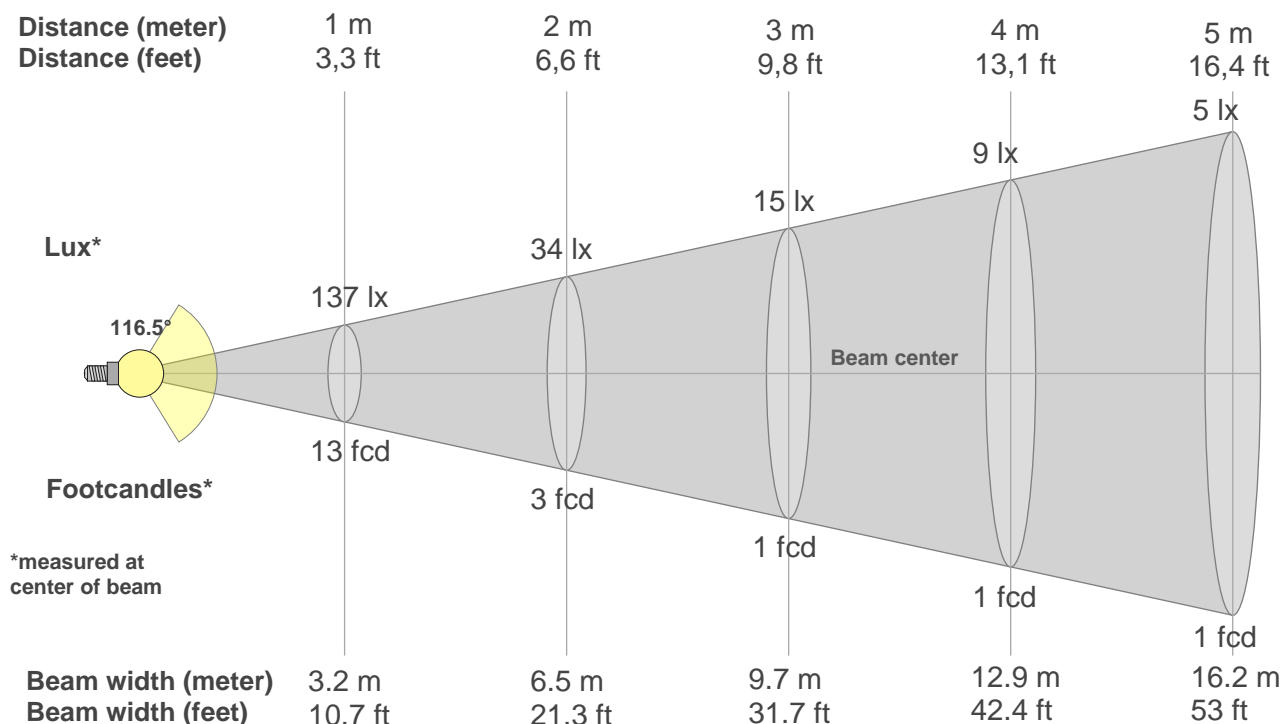
Rg 99.1

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	88	-6%	2%
2	91	-3%	3%
3	91	0%	4%
4	92	-3%	0%
5	93	-1%	2%
6	94	2%	1%
7	91	-4%	1%
8	97	1%	0%
9	91	-1%	5%
10	87	1%	9%
11	87	4%	9%
12	87	7%	-1%
13	88	3%	-9%
14	84	3%	-13%
15	90	-4%	-3%
16	81	-4%	-14%



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
137lx	34lx	15lx	9lx	5lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx
12.7fcd	3.2fcd	1.4fcd	0.8fcd	0.5fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	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°
137	133	126	115	102	87	72	56	42	30	20	12	7	4	2	1	1	1	1	1
100%	97%	92%	84%	75%	64%	52%	41%	31%	22%	15%	9%	5%	3%	1%	1%	1%	1%	1%	1%

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°
137	135	129	119	107	91	74	57	40	26	14	7	3	2	1	1	1	1	1	1
100%	99%	95%	87%	78%	67%	54%	42%	30%	19%	10%	5%	2%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

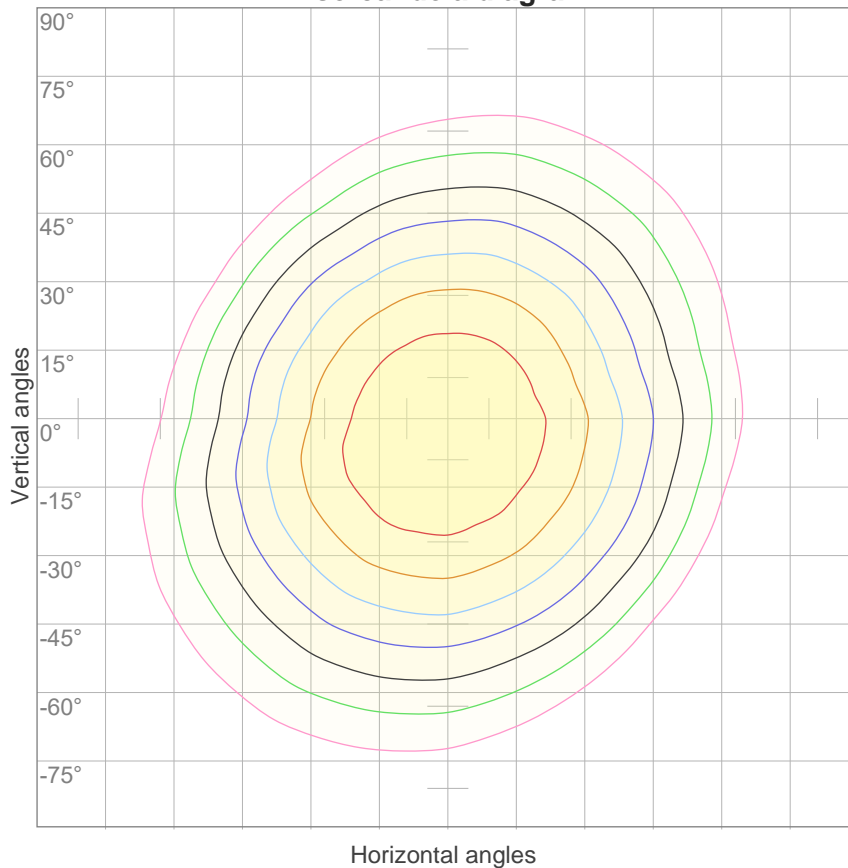
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
137	136	132	124	113	100	84	69	54	40	28	18	11	6	3	2	1	1	1	1
100%	100%	97%	91%	83%	73%	62%	50%	39%	29%	20%	13%	8%	4%	2%	1%	1%	1%	1%	1%

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°
137	134	128	118	105	89	72	54	37	22	12	6	3	1	1	1	1	1	1	1
100%	98%	94%	86%	77%	65%	53%	40%	27%	16%	9%	4%	2%	1%	1%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116.5°	189.1°	222.4°	67.3%	45.4%

iso-candela diagram



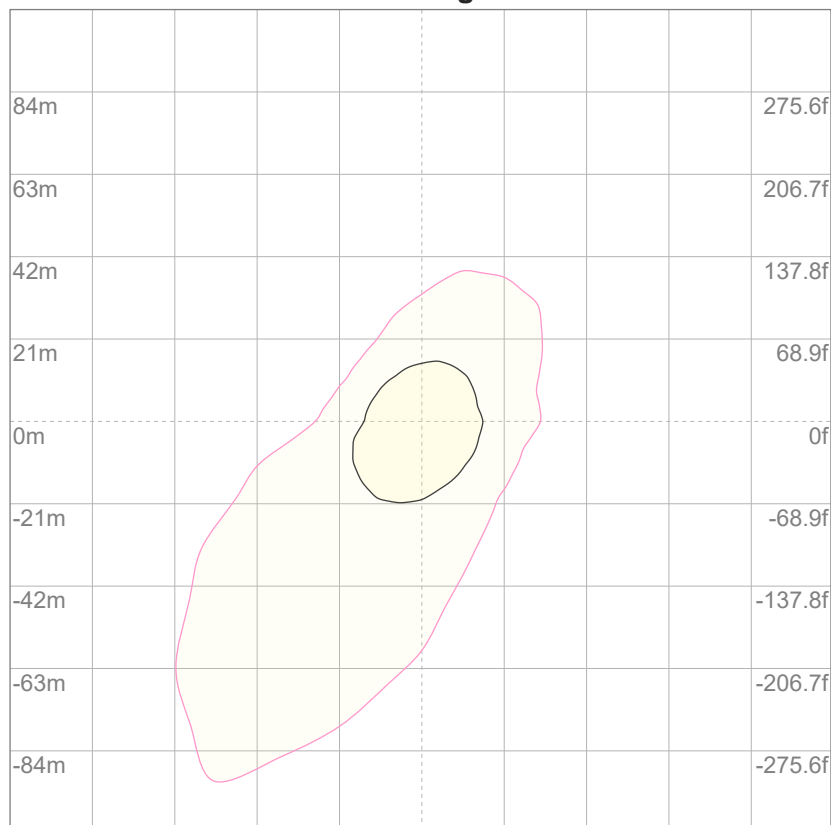
10%	14 cd
20%	27 cd
30%	41 cd
40%	55 cd
50%	68 cd
60%	82 cd
70%	96 cd
80%	109 cd
90%	123 cd

Conditions:

Number of c-planes: 24

Candela at center: 137 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	41.0m lx
5%	68.3m lx
10%	0.137 lx
30%	0.410 lx
50%	0.683 lx

Conditions:

Number of c-planes: 24

Lux at center: 1.37 lx

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

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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 462 lm total luminous flux										

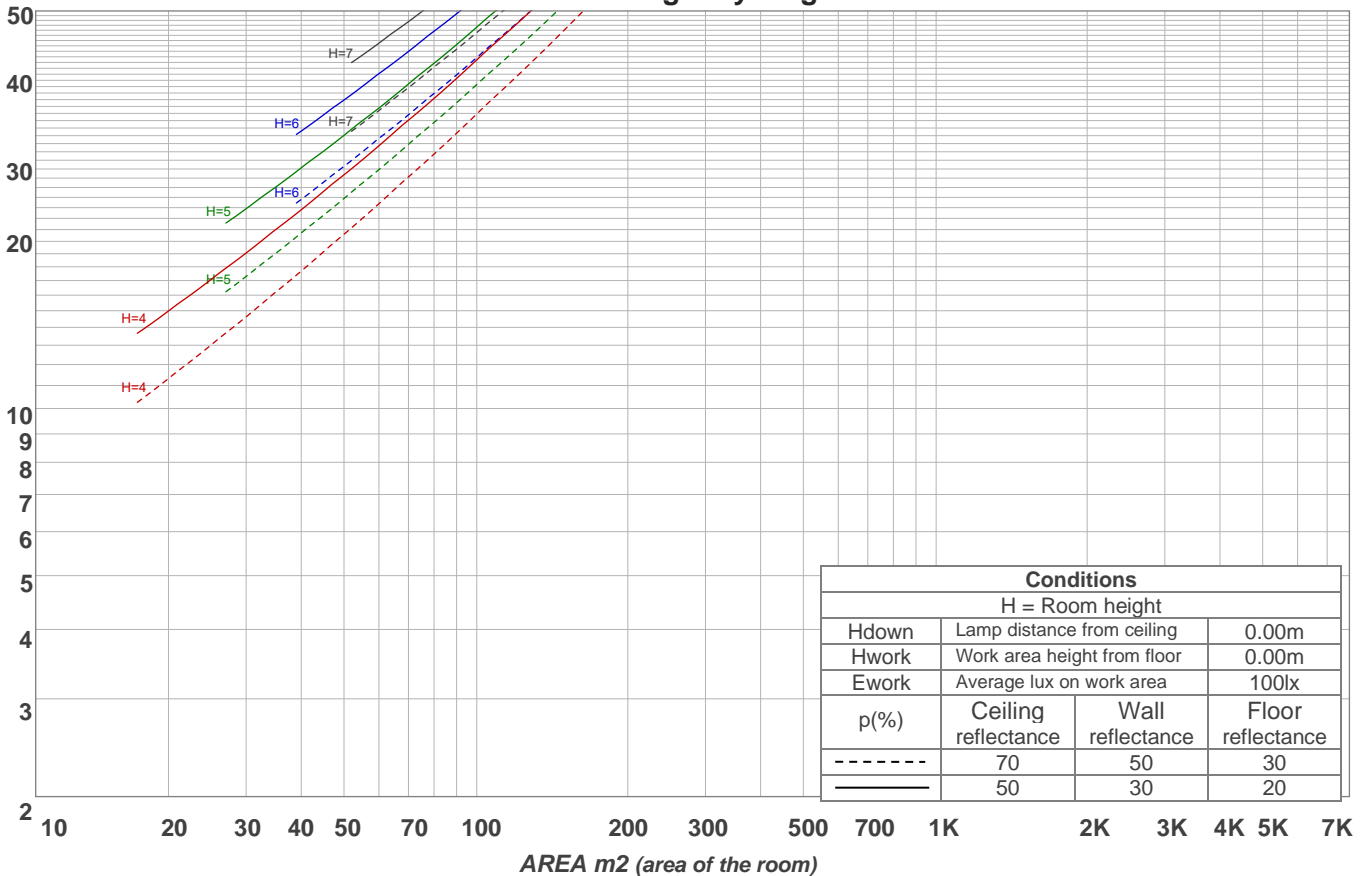
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	100	95	90	102	97	92	88	91	88	84	86	83	80	82	79	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	61
3	86	75	66	60	83	73	65	59	69	62	57	65	60	55	62	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	43
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	33	28	37	32	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	23
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

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°
{LUM0-10}	37.0 lm	56.1 lm	67.8 lm	71.1 lm	66.2 lm	54.9 lm	40.0 lm	25.3 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
14.5 lm	7.91 lm	3.97 lm	1.87 lm	0.978 lm	0.613 lm	0.422 lm	0.260 lm	0.091 lm

LCS table

BUG rating:	B0 U2 G1	
Forward light	Lumens	Lumens %
Low(0-30):	52	11.3%
Medium(30-60):	97.5	21.1%
High(60-80):	43	9.3%
Very high(80-90):	10.9	2.4%
Back light		
Low(0-30):	53.9	11.7%
Medium(30-60):	107.4	23.2%
High(60-80):	52	11.3%
Very high(80-90):	14.5	3.1%
Uplight		
Low(90-100):	14.6	3.2%
High(100-180):	16.3	3.5%

LCS graph

