

Light efficiency:

126 Lumen/Watt

Light quality:

CRI: 0.0

Color temperature:

0 K

Output: 595 lm

Peak: 104 cd

Power: 4.7 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

**PC20.5MRBORGBWADR2012.0RGB3  
0-GREEN**

Item number:

Date and time:

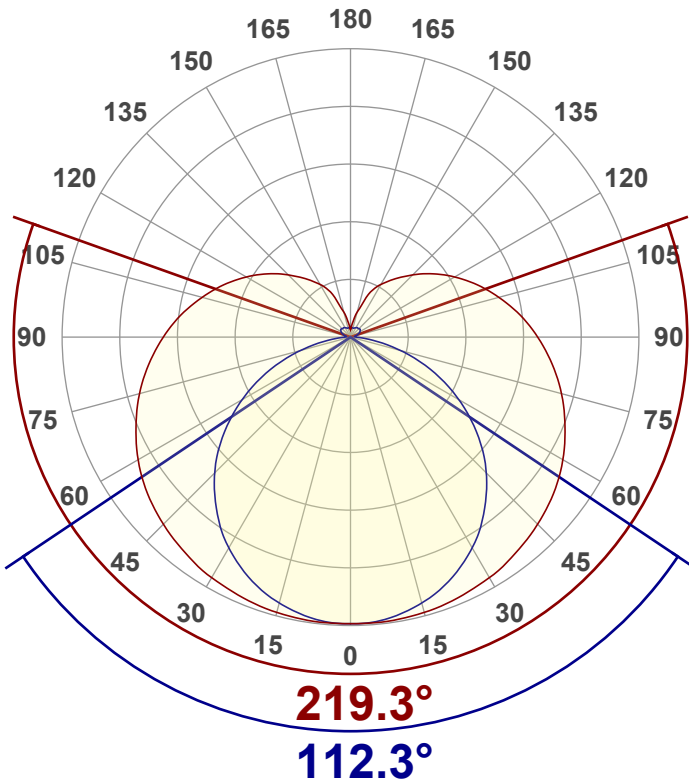
**2024/9/9 14:04:38**

Operator:

**Nick**

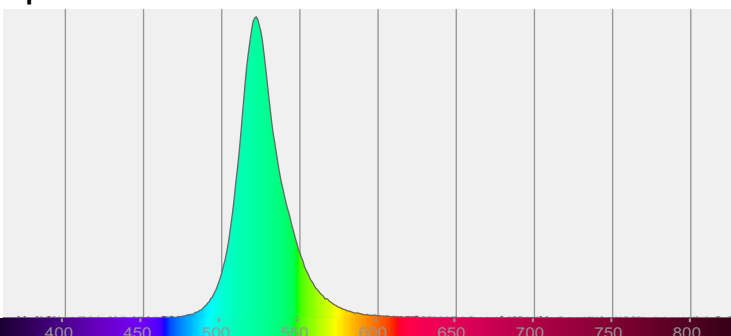
Description:

**DIAMETER 61MM,LENGTH 500MM**



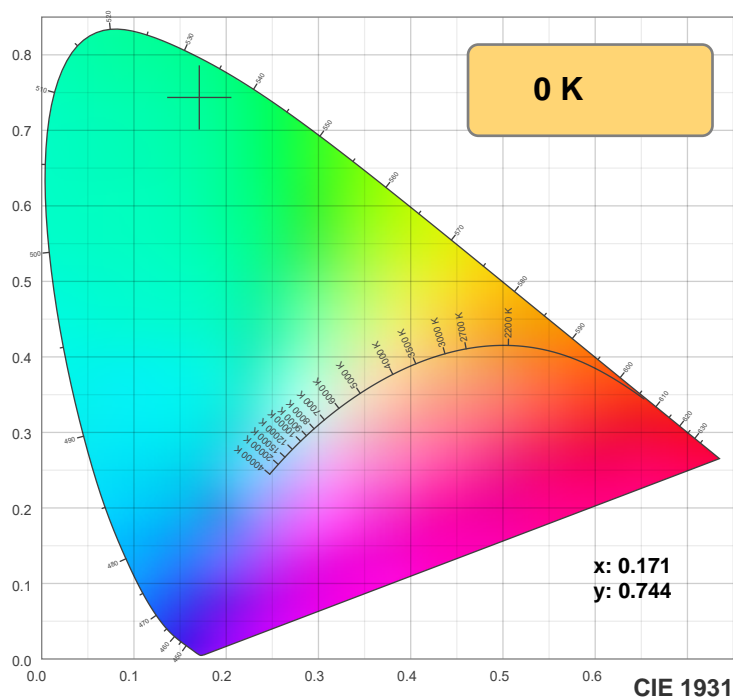
CIE 1931  
x: 0.171  
y: 0.744

Spectra

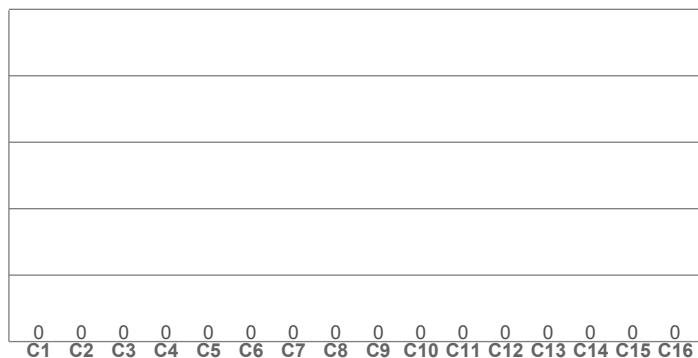


Power

Voltage: 24.0 V  
Current: 0.197 A  
Frequency: 0 Hz



TM-30: 0.0



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
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

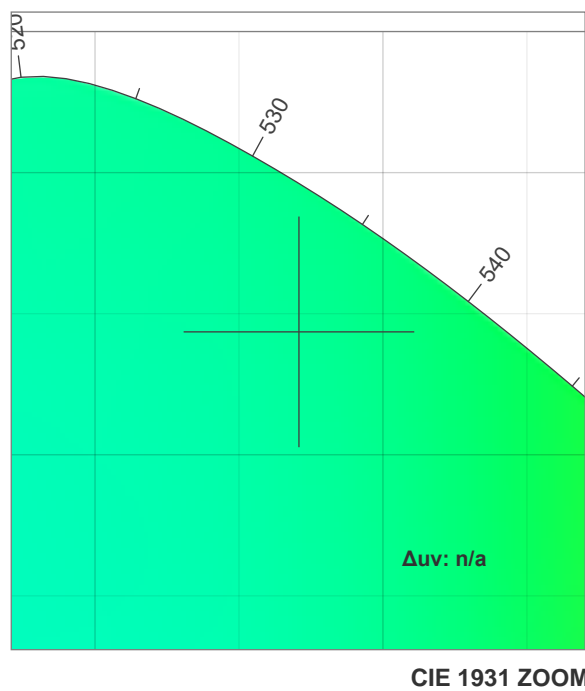
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

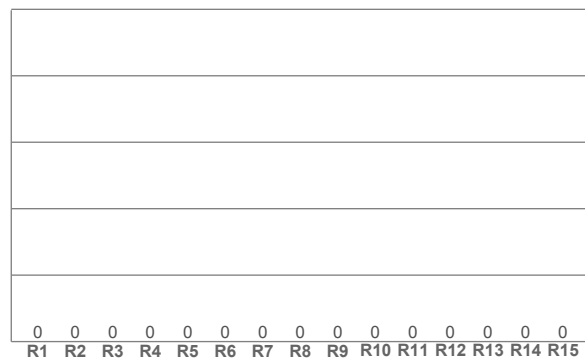
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

## Color parameters

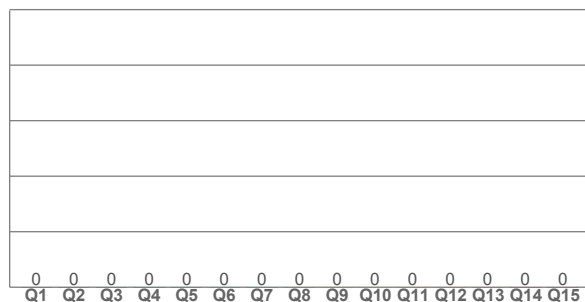
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.171	0.744	0.059	0.385	n/a



CRI: 0.0 (R1-R8)



CQS: 0.0



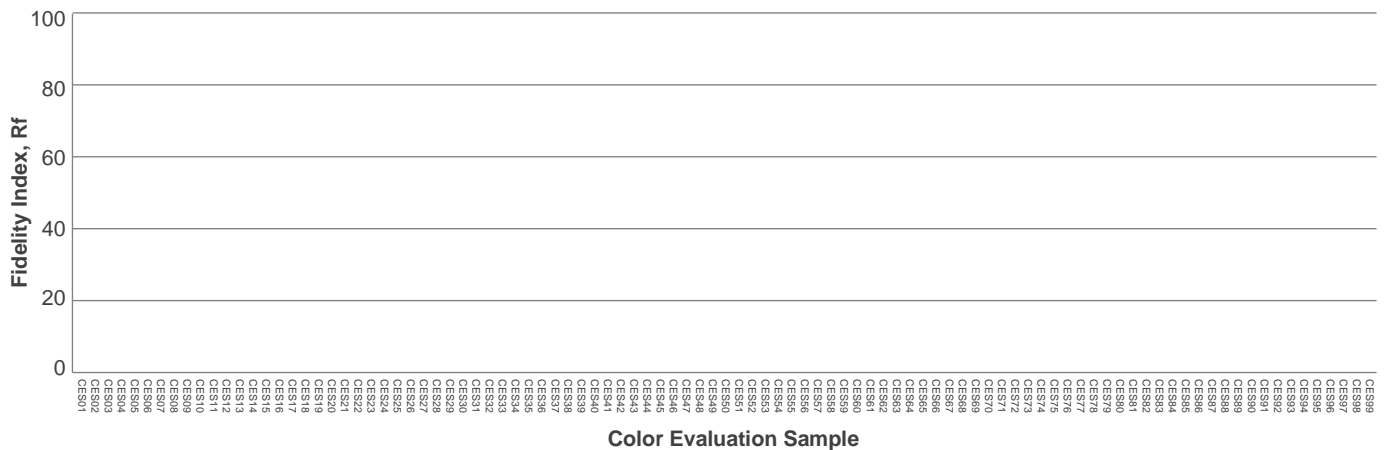
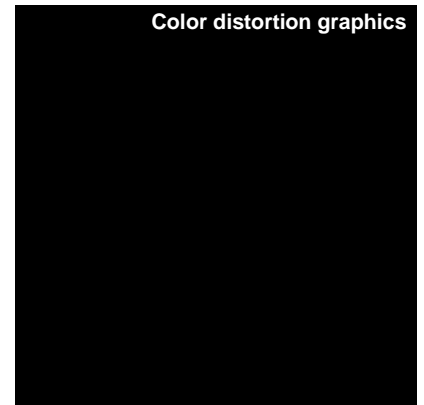
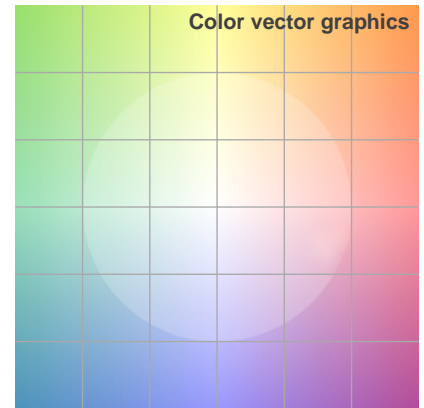
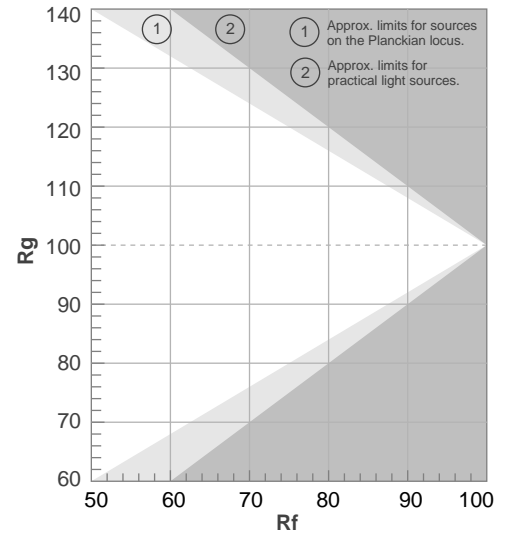
**Rf 0.0**

Fidelity index Rf

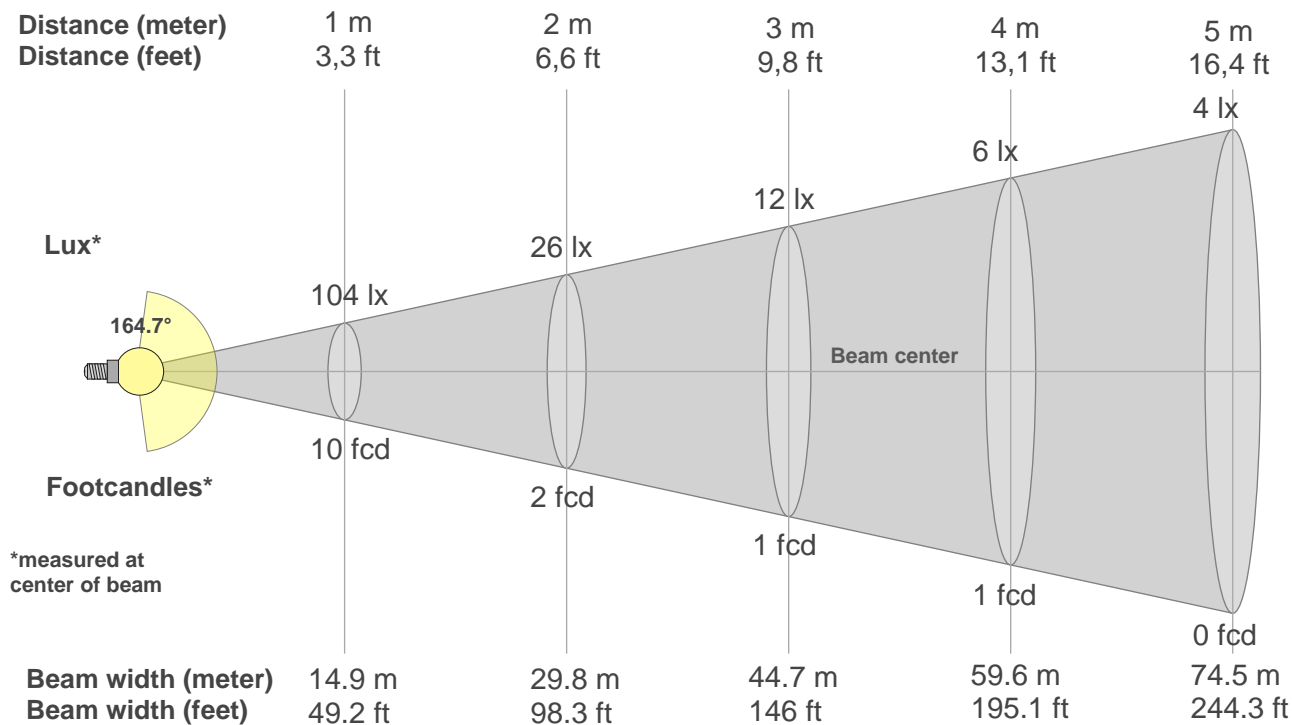
**Rg 0.0**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



## 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
104lx	26lx	12lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.6fcd	2.4fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	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°
104	103	103	101	99	96	92	87	81	75	68	61	53	46	39	32	26	20	11	6
100%	100%	99%	97%	95%	92%	89%	84%	78%	72%	65%	58%	51%	44%	37%	31%	25%	19%	11%	5%

### 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°
104	102	98	91	81	69	55	40	24	10	2	2	2	4	4	4	4	4	3	3
100%	99%	94%	88%	78%	67%	54%	39%	23%	9%	2%	1%	2%	4%	4%	4%	4%	4%	3%	3%

### Intensities in 180° c-plane

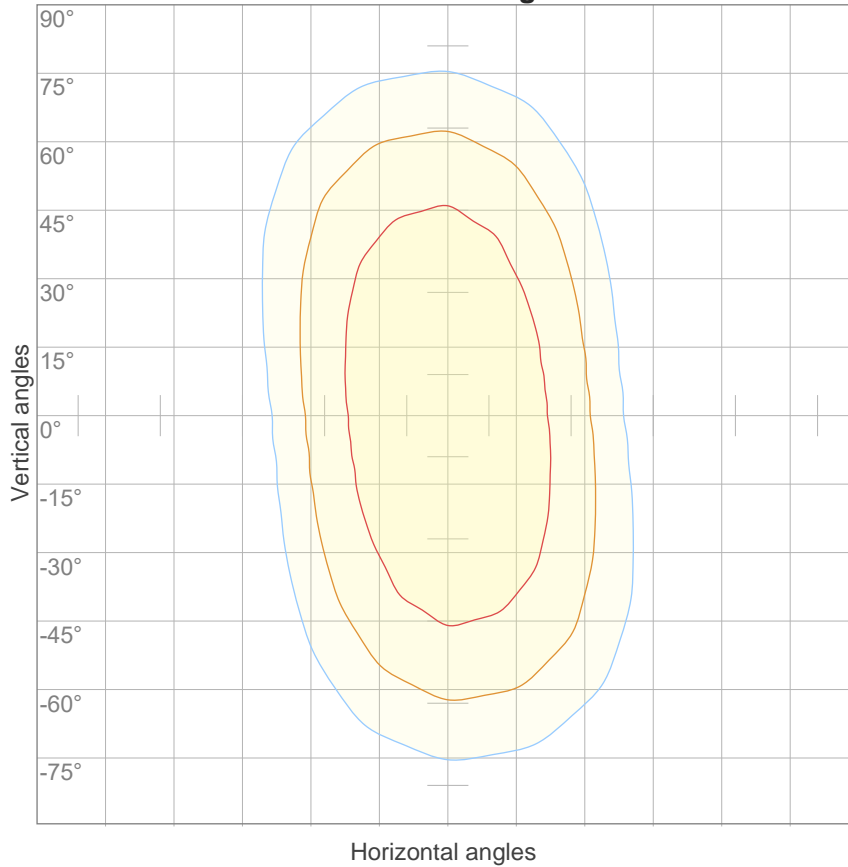
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
104	103	103	101	99	96	92	87	81	75	68	61	53	46	39	32	26	20	11	6
100%	100%	99%	97%	95%	92%	89%	84%	78%	72%	65%	58%	51%	44%	37%	31%	25%	19%	11%	5%

### 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°
104	102	98	91	81	69	55	40	24	10	2	2	2	4	4	4	4	4	3	3
100%	99%	94%	88%	78%	67%	54%	39%	23%	9%	2%	1%	2%	4%	4%	4%	4%	4%	3%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
164.7°	283.3°	360°	45.6%	28.9%

**iso-candela diagram**



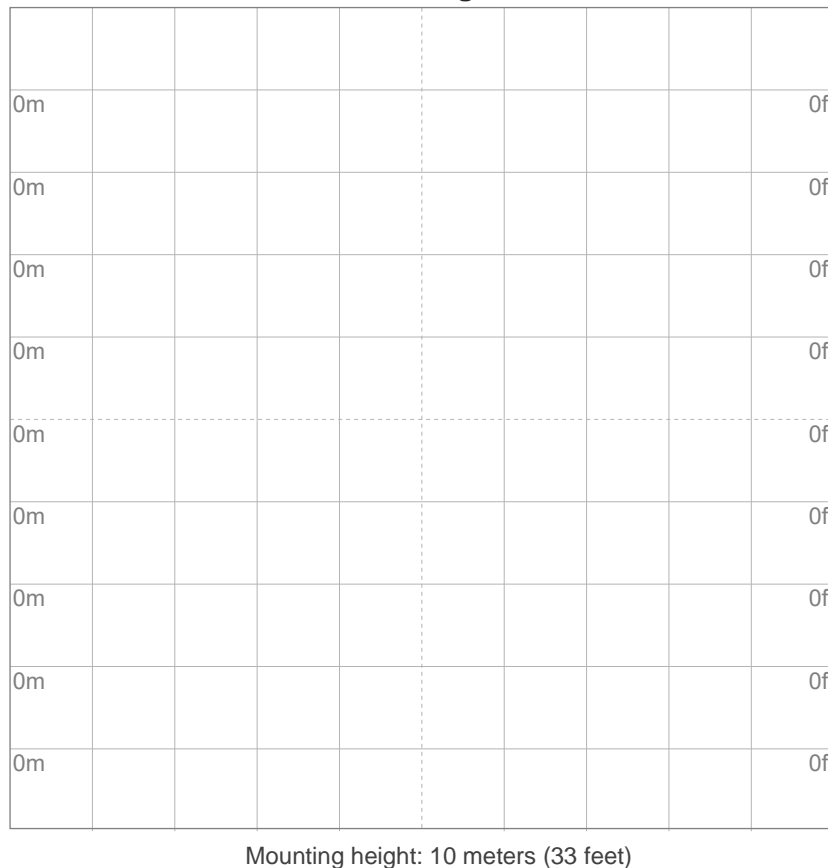
10%	10 cd
20%	21 cd
30%	31 cd
40%	41 cd
50%	52 cd
60%	62 cd
70%	72 cd
80%	83 cd
90%	93 cd

Conditions:

Number of c-planes: 24

Candela at center: 104 cd

**iso-lux diagram**



3%	31.1m lx
5%	51.8m lx
10%	0.104 lx
30%	0.311 lx
50%	0.518 lx

Conditions:

Number of c-planes: 24

Lux at center: 1.04 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
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 595 lm total luminous flux										

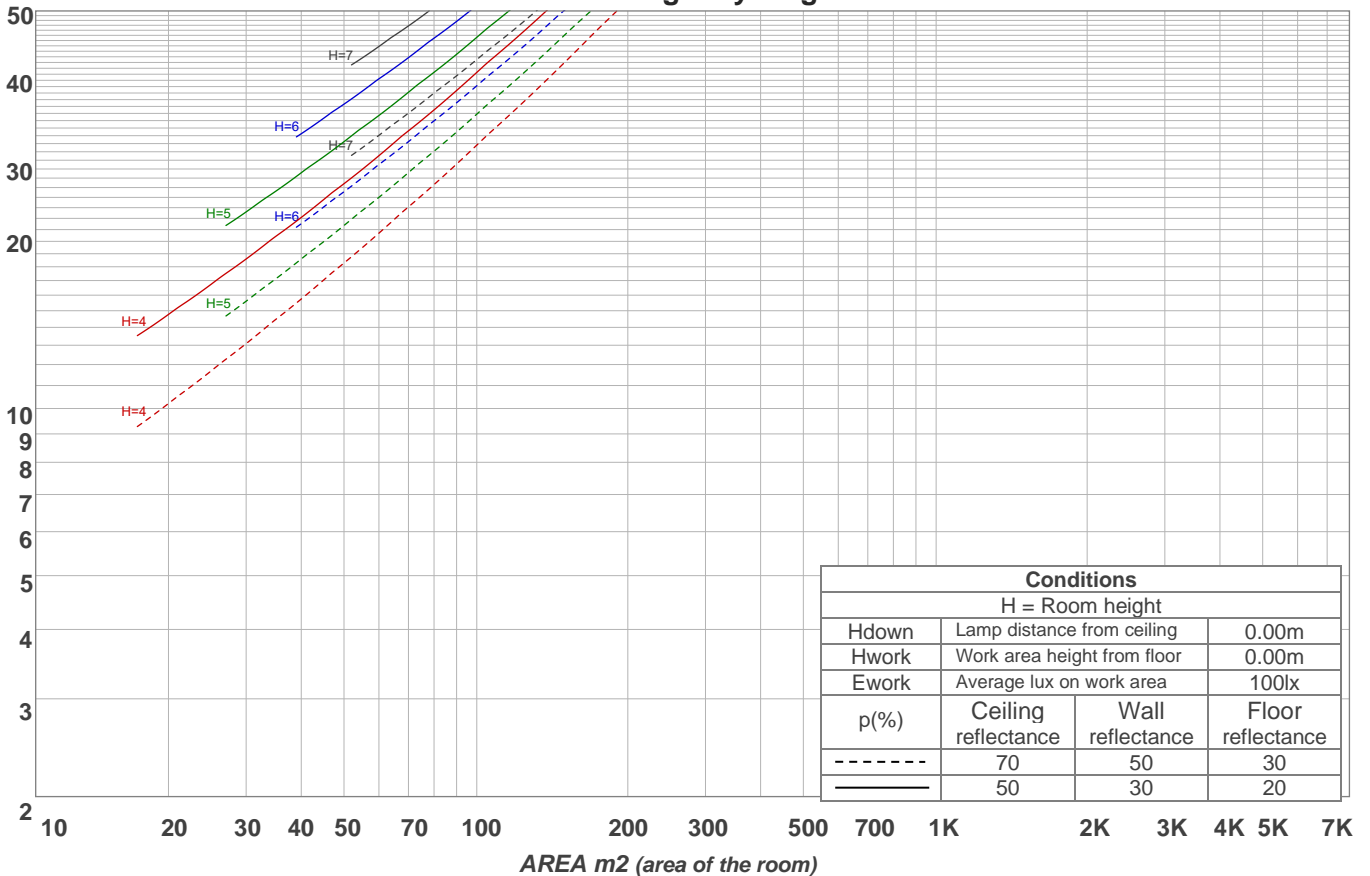
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

## 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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	99	93	88	83	94	88	83	79	79	75	72	71	68	65	63	61	58	54
2	89	79	72	65	84	75	68	62	67	62	57	60	55	51	53	50	46	43
3	80	69	60	52	76	65	57	50	58	52	46	52	47	42	46	42	38	35
4	73	60	51	43	69	57	48	42	51	44	38	46	40	35	41	36	32	29
5	67	53	44	37	63	51	42	35	45	38	33	41	35	30	36	31	27	24
6	62	48	38	32	58	45	37	30	41	34	28	37	30	26	33	28	24	21
7	57	43	34	27	53	41	32	26	37	30	25	33	27	23	30	25	21	18
8	53	39	30	24	50	37	29	23	34	27	22	30	24	20	27	22	18	16
9	49	35	27	21	46	34	26	21	31	24	19	28	22	18	25	20	16	14
10	46	33	25	19	43	31	24	19	28	22	17	26	20	16	23	18	15	13

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}	28.6 lm	44.8 lm	57.1 lm	64.3 lm	66.3 lm	63.3 lm	56.5 lm	48.1 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
40.7 lm	33.9 lm	27.4 lm	21.2 lm	15.2 lm	9.78 lm	5.19 lm	1.94 lm	0.432 lm

LCS table

BUG rating:	B0 U3 G1	
Forward light	Lumens	Lumens %
Low(0-30):	41.6	7%
Medium(30-60):	93.8	15.8%
High(60-80):	59.9	10.1%
Very high(80-90):	24.1	4%
Back light		
Low(0-30):	41.6	7%
Medium(30-60):	93.8	15.8%
High(60-80):	59.9	10.1%
Very high(80-90):	24.1	4%
Uplight		
Low(90-100):	40.7	6.8%
High(100-180):	115.1	19.4%

LCS graph

