

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 58.1

Color temperature:

7830 K

Output: 1544 lm

Peak: 330 cd

Power: 19.3 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

**PC30.5MRBORGBWADR2012.0RGB3  
0-ALL ON**

Item number:

Date and time:

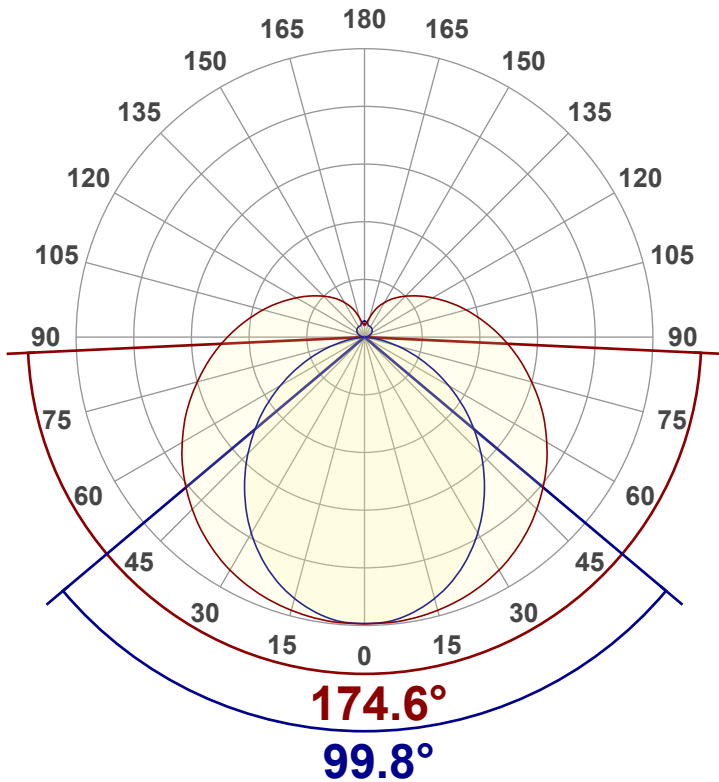
**2024/9/30 11:19:58**

Operator:

**Nick**

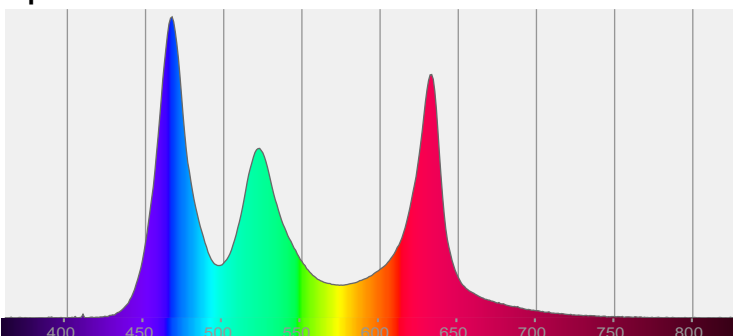
Description:

**DIAMETER 120MM,LENGTH 500MM  
1 ROW RIBBONLYTE INSIDE**

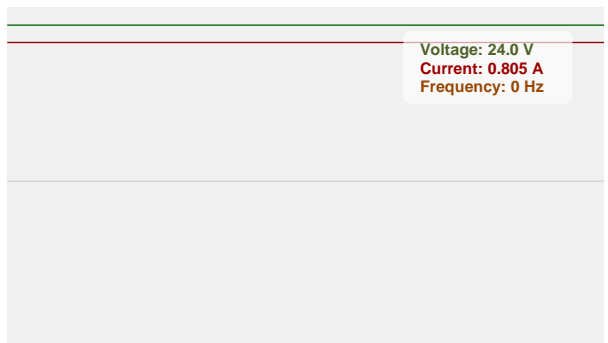


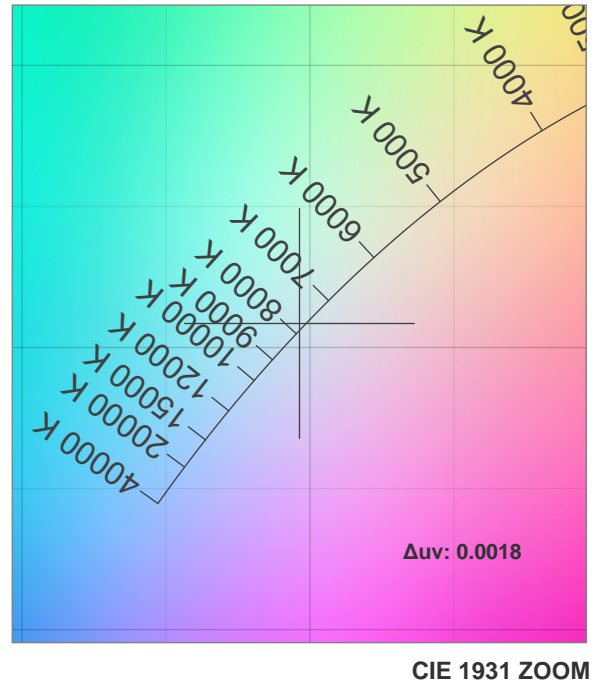
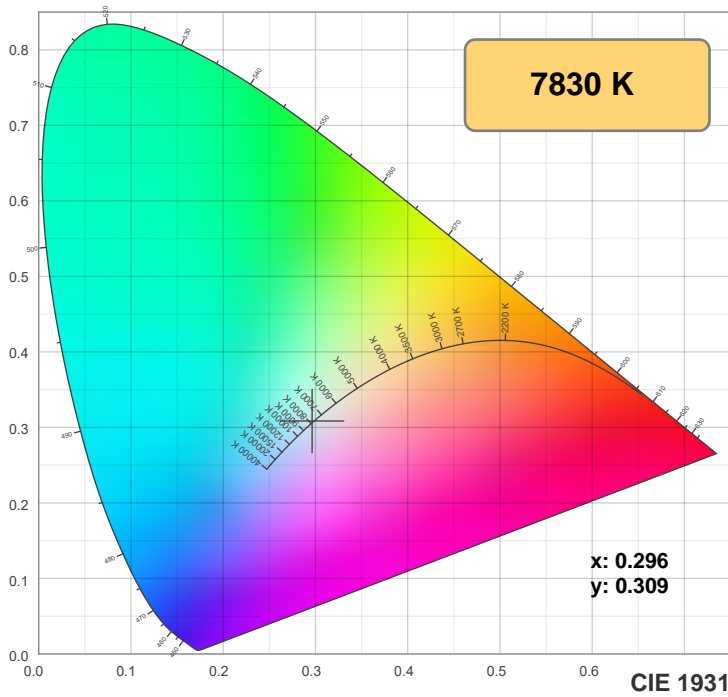
CIE 1931  
x: 0.296  
y: 0.309

Spectra



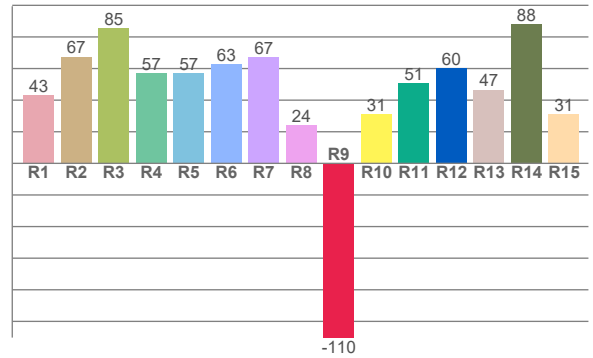
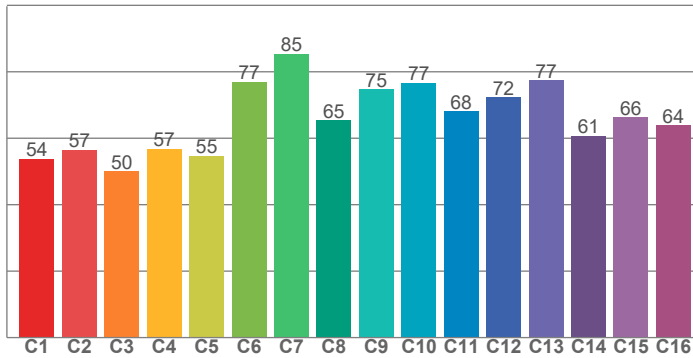
Power





TM-30: 65.6

CRI: 58.1 (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
43.2	67.5	85.5	57.1	57.2	62.7	67.4	24.0	-110.2	31.2	50.6	60.2	46.6	87.9	31.0

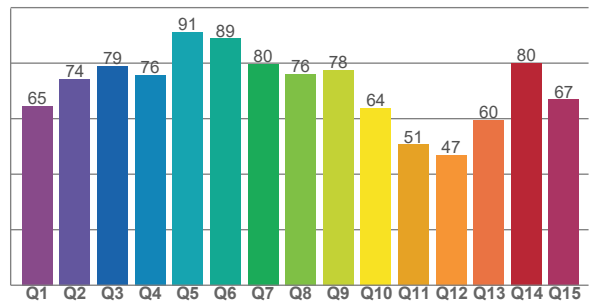
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
53.9	56.5	50.1	56.8	54.7	76.9	85.4	65.4	74.8	76.7	68.1	72.3	77.4	60.8	66.3	63.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
64.5	74.4	78.9	75.8	91.2	89.0	79.6	76.2	77.5	63.9	50.6	46.9	59.5	80.1	67.0

CQS: 69.1



## 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
7830 K	58.1	-110.2	65.6	101.4	69.1	0.296	0.309	0.194	0.303	0.0018

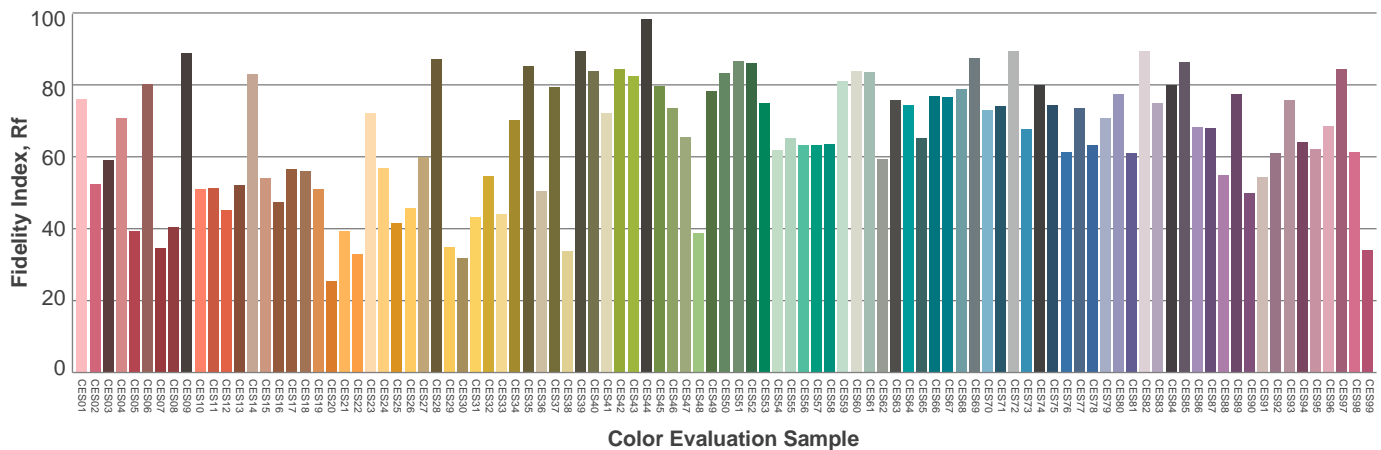
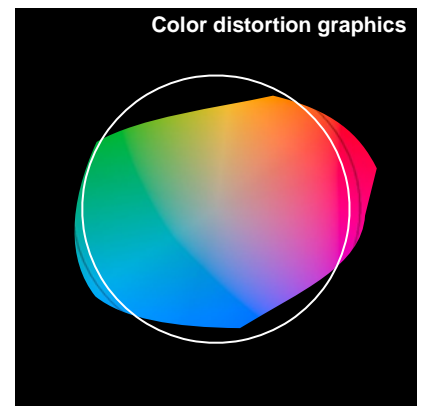
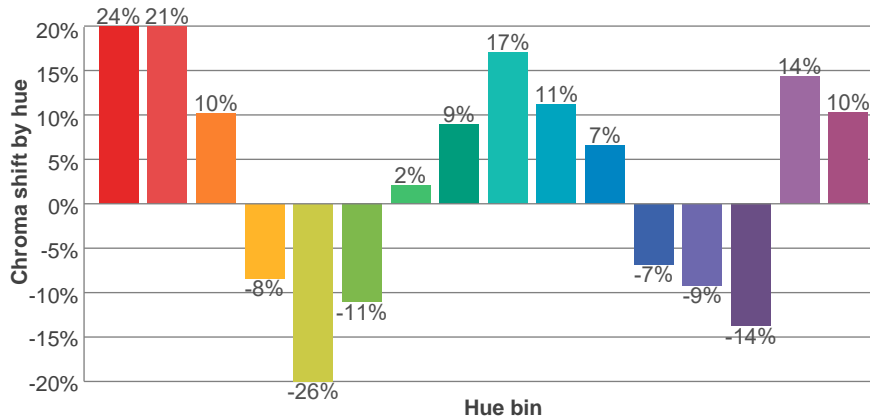
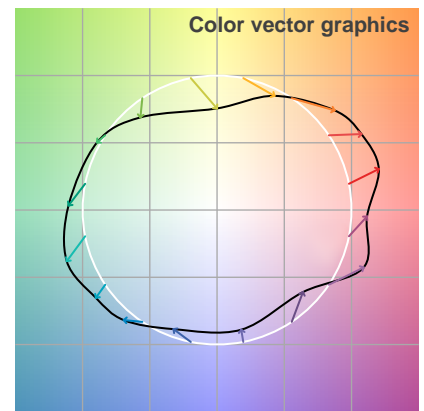
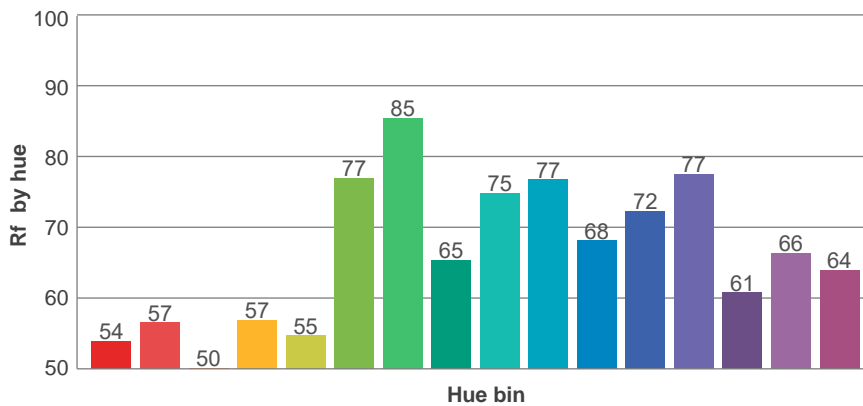
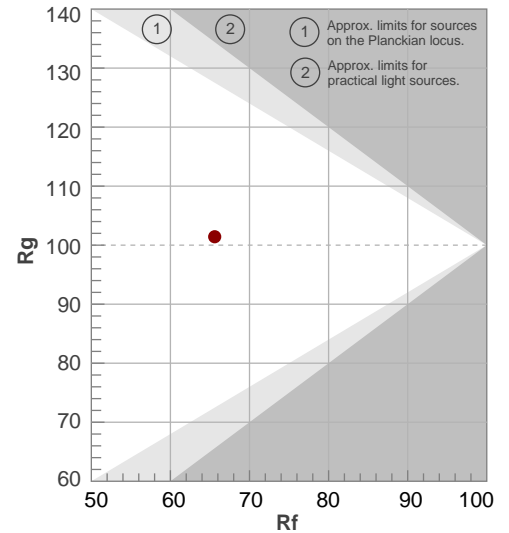
**Rf 65.6**

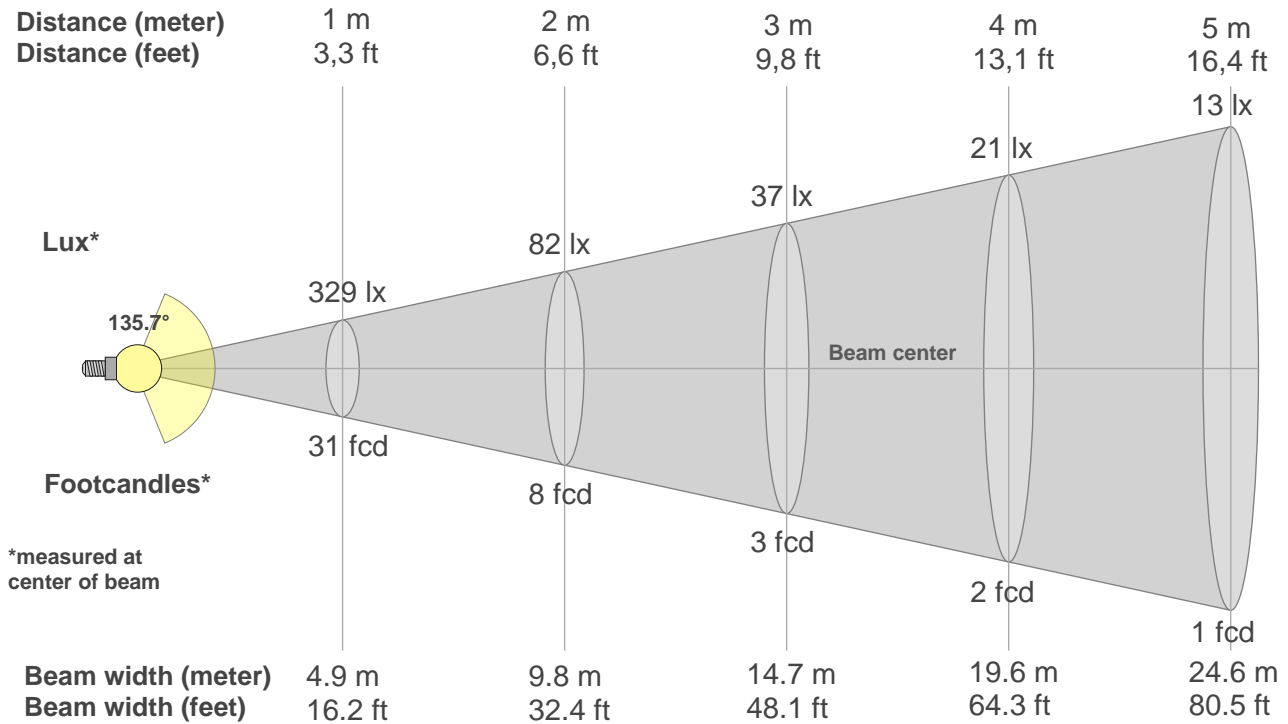
Fidelity index Rf

**Rg 101.4**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	54	24%	6%
2	57	21%	-13%
3	50	10%	-31%
4	57	-8%	-25%
5	55	-26%	-15%
6	77	-11%	9%
7	85	2%	8%
8	65	9%	18%
9	75	17%	15%
10	77	11%	4%
11	68	7%	-12%
12	72	-7%	-15%
13	77	-9%	0%
14	61	-14%	19%
15	66	14%	25%
16	64	10%	17%





## 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
329lx	82lx	37lx	21lx	13lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
30.6fcd	7.6fcd	3.4fcd	1.9fcd	1.2fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

## 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°
329	328	322	313	298	279	258	233	207	182	157	134	114	96	80	66	54	42	28	17
100%	100%	98%	95%	91%	85%	78%	71%	63%	55%	48%	41%	35%	29%	24%	20%	16%	13%	9%	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°
329	322	303	272	233	189	143	96	53	17	2	3	6	8	11	12	13	14	14	17
100%	98%	92%	83%	71%	57%	44%	29%	16%	5%	1%	1%	2%	3%	3%	4%	4%	4%	4%	5%

## Intensities in 180° c-plane

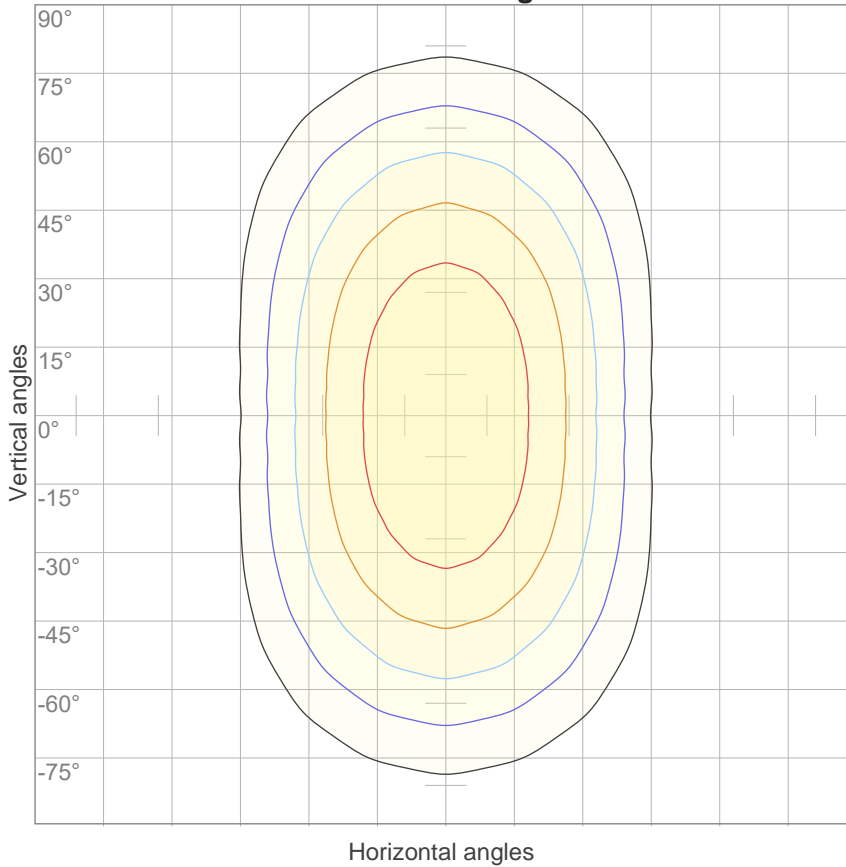
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
329	328	322	313	298	279	258	233	207	182	157	134	114	96	80	66	54	42	28	17
100%	100%	98%	95%	91%	85%	78%	71%	63%	55%	48%	41%	35%	29%	24%	20%	16%	13%	9%	5%

## 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°
329	322	303	272	233	189	143	96	53	17	2	3	6	8	11	12	13	14	14	17
100%	98%	92%	83%	71%	57%	44%	29%	16%	5%	1%	1%	2%	3%	3%	4%	4%	4%	4%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
135.7°	263.4°	360°	51.2%	33.6%

**iso-candela diagram**



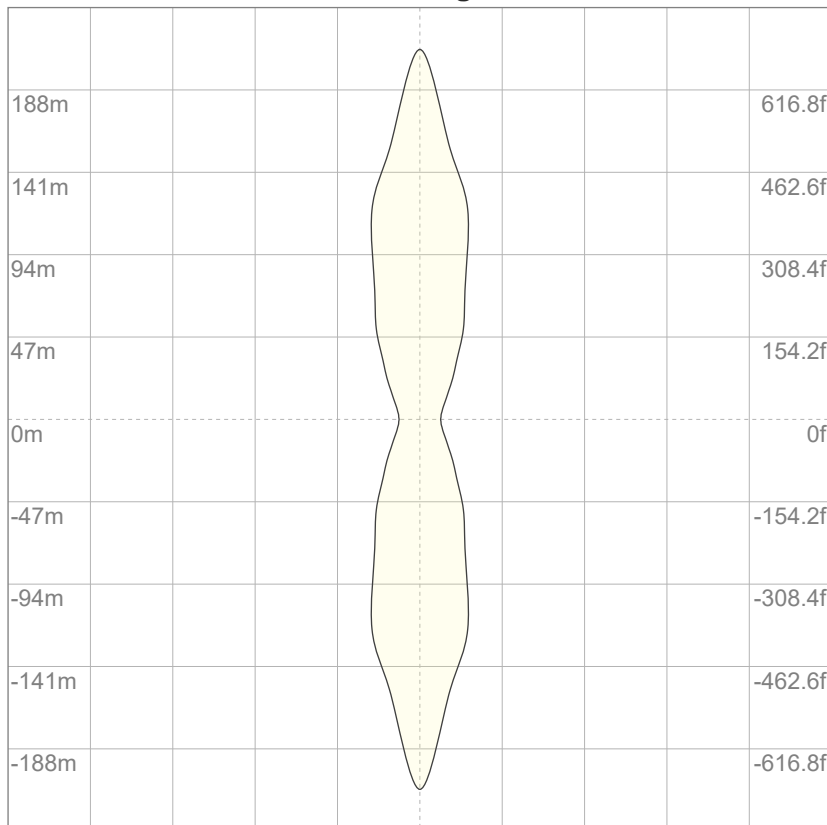
10%	33 cd
20%	66 cd
30%	99 cd
40%	132 cd
50%	165 cd
60%	197 cd
70%	230 cd
80%	263 cd
90%	296 cd

Conditions:

Number of c-planes: 28

Candela at center: 329 cd

**iso-lux diagram**



3%	98.7m lx
5%	0.165 lx
10%	0.329 lx
30%	0.987 lx
50%	1.65 lx

Conditions:

Number of c-planes: 28

Lux at center: 3.29 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

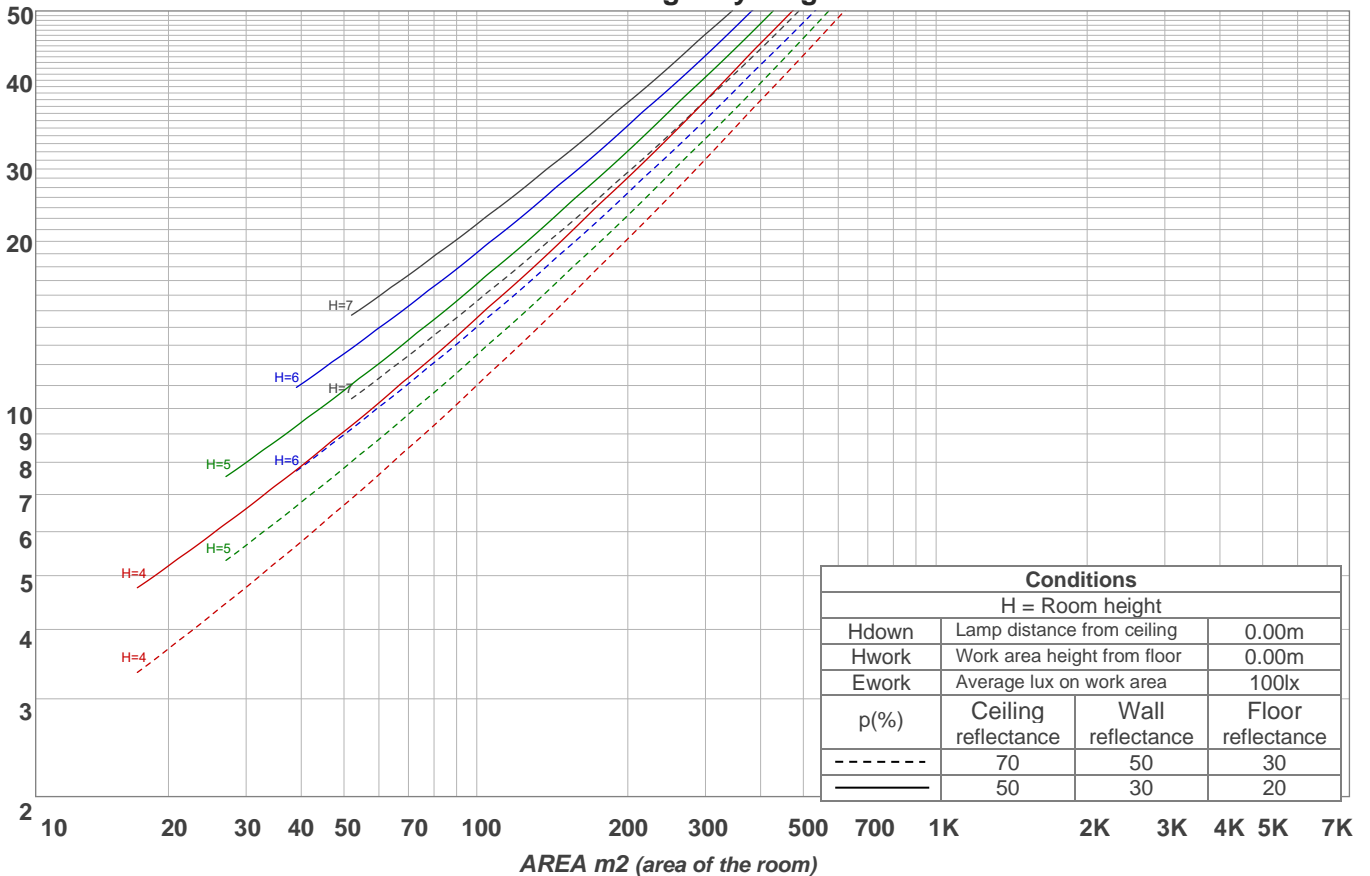
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	15.4	16.5	16.0	17.1	17.8	13.5	14.6	14.1	15.2	15.9
	3H	17.5	18.6	18.2	19.2	19.9	14.5	15.6	15.2	16.2	16.9
	4H	18.6	19.6	19.3	20.3	20.9	14.9	15.9	15.6	16.6	17.2
	6H	19.7	20.6	20.3	21.3	22.0	15.1	16.0	15.7	16.7	17.4
	8H	20.2	21.1	20.8	21.8	22.5	15.1	16.1	15.8	16.7	17.5
	12H	20.7	21.7	21.3	22.2	23.0	15.1	16.1	15.8	16.7	17.5
4H	2H	15.9	16.9	16.5	17.5	18.2	14.4	15.4	15.1	16.1	16.7
	3H	18.3	19.2	18.9	19.8	20.6	15.8	16.8	16.4	17.3	18.1
	4H	19.4	20.5	20.2	21.0	21.9	16.2	17.3	17.0	17.8	18.7
	6H	20.7	21.5	21.5	22.2	22.9	16.6	17.4	17.3	18.0	18.8
	8H	21.3	22.0	22.1	22.7	23.5	16.7	17.4	17.4	18.1	18.8
	12H	21.9	22.5	22.7	23.3	24.1	16.7	17.3	17.4	18.0	18.8
8H	4H	19.7	20.4	20.4	21.1	21.9	17.0	17.7	17.8	18.4	19.2
	6H	21.2	21.7	22.0	22.5	23.4	17.7	18.2	18.4	19.0	19.9
	8H	22.0	22.5	22.8	23.3	24.2	17.9	18.4	18.7	19.2	20.2
	12H	22.8	23.2	23.6	24.0	24.9	18.0	18.5	18.9	19.3	20.2
12H	4H	19.7	20.3	20.4	21.0	21.8	17.2	17.8	18.0	18.6	19.4
	6H	21.3	21.8	22.0	22.6	23.5	18.0	18.5	18.8	19.3	20.3
	8H	22.1	22.6	22.9	23.3	24.2	18.4	18.8	19.2	19.6	20.5
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / 0.0					0.1 / -0.1				
S = 1.5H		0.1 / -0.1					0.1 / -0.2				
S = 2.0H		0.2 / -0.2					0.3 / -0.6				
CIE 117-1995. Corrected glare indices referring to 1544 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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	90	85	96	90	86	81	82	78	75	74	71	69	67	65	63	59
2	91	81	74	67	86	77	70	65	70	65	60	64	59	55	58	54	51	47
3	82	71	62	55	78	67	59	53	61	54	49	55	50	45	50	46	42	39
4	75	62	53	46	71	59	51	44	54	47	41	49	43	38	44	39	35	32
5	69	55	46	39	65	53	44	38	48	41	35	44	38	33	40	35	30	28
6	63	49	40	33	60	47	39	32	43	36	30	39	33	28	36	31	27	24
7	58	45	36	29	55	43	34	28	39	32	27	36	30	25	33	27	23	21
8	54	40	32	26	51	39	31	25	36	29	24	33	27	22	30	25	21	19
9	51	37	29	23	48	36	28	22	33	26	21	30	24	20	28	22	19	17
10	47	34	26	21	45	33	25	20	30	24	19	28	22	18	26	21	17	15

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}	89.8 lm	137 lm	169 lm	183 lm	180 lm	163 lm	138 lm	113 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
91.5 lm	73.8 lm	58.4 lm	44.5 lm	32.0 lm	20.9 lm	11.7 lm	5.27 lm	1.60 lm

LCS table

BUG rating:	B1 U3 G1	
Forward light	Lumens	Lumens %
Low(0-30):	129	8.4%
Medium(30-60):	265.5	17.2%
High(60-80):	150.7	9.8%
Very high(80-90):	56.4	3.7%
Back light		
Low(0-30):	129	8.4%
Medium(30-60):	265.5	17.2%
High(60-80):	150.7	9.8%
Very high(80-90):	56.4	3.7%
Uplight		
Low(90-100):	91.5	5.9%
High(100-180):	248.4	16.1%

LCS graph

