

Light efficiency:

150 Lumen/Watt

Light quality:

CRI: 81.6

Color temperature:

6606 K

Output: 910 lm

Peak: 399 cd

Power: 6.07 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

LS-RLB-65K-990-A

Item number:

LS-RLB-65K-990-A

Date and time:

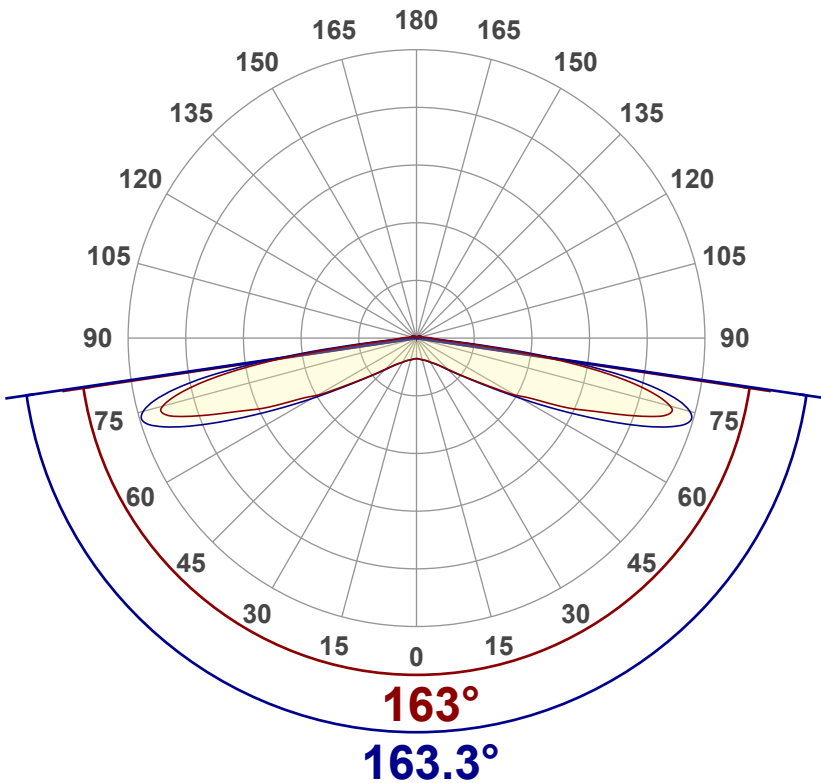
2025/5/27 17:20:23

Operator:

TL

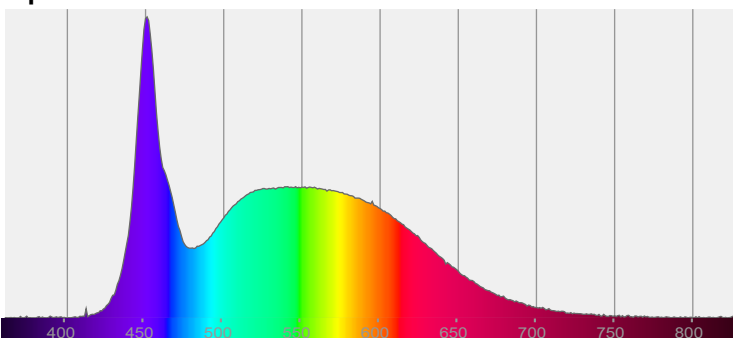
Description:

1M 6500K 24VDC 6W/PC



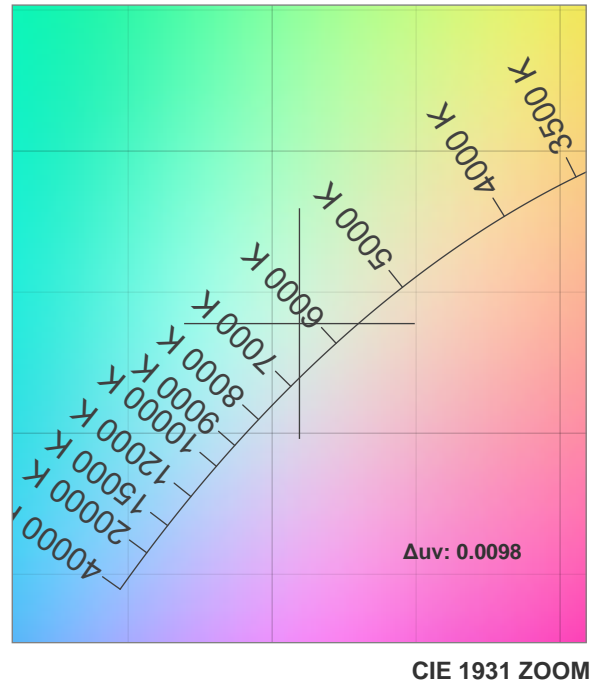
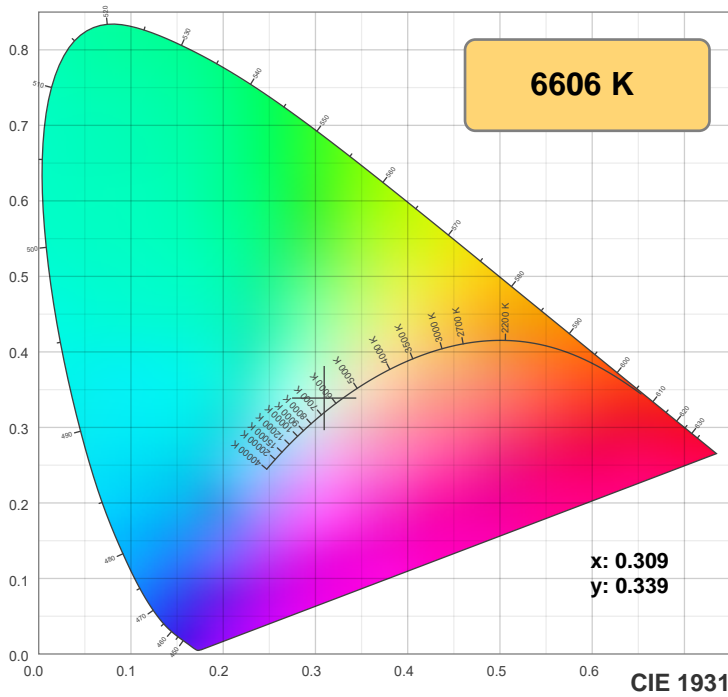
CIE 1931
x: 0.309
y: 0.339

Spectra

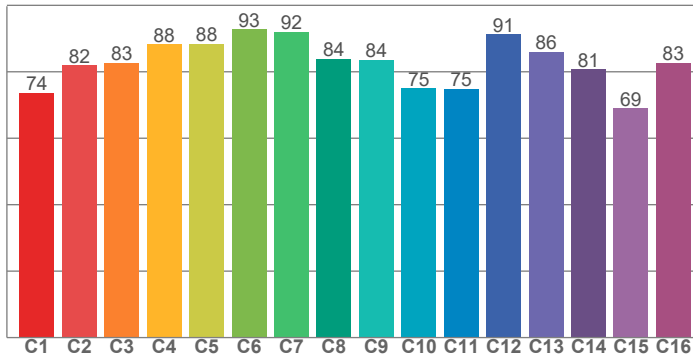


Power

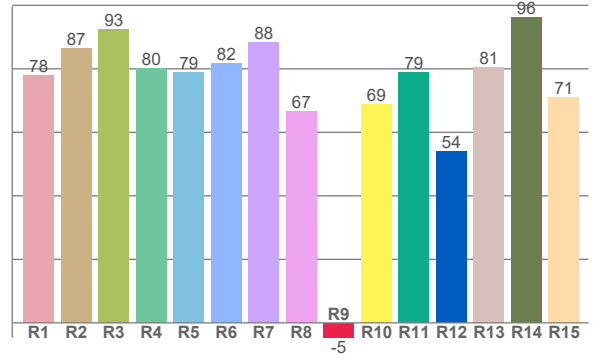
Voltage: 24.0 V
Current: 0.253 A
Frequency: 0 Hz



TM-30: 82.9



CRI: 81.6 (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
78.1	86.6	92.6	80.0	79.0	81.8	88.2	66.7	-4.6	68.8	79.0	54.1	80.5	96.2	71.0

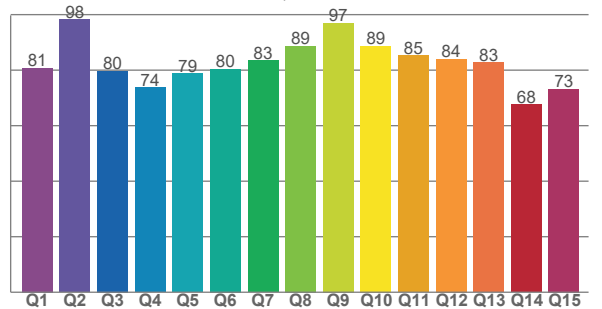
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
73.7	81.9	82.7	88.3	88.5	92.7	92.1	84.0	83.6	75.1	74.9	91.4	86.0	80.8	69.0	82.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.8	98.3	79.7	73.8	78.8	80.4	83.5	88.7	97.0	88.8	85.2	84.0	82.8	67.7	73.2

CQS: 81.1



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
6606 K	81.6	-4.6	82.9	92.3	81.1	0.309	0.339	0.192	0.315	0.0098

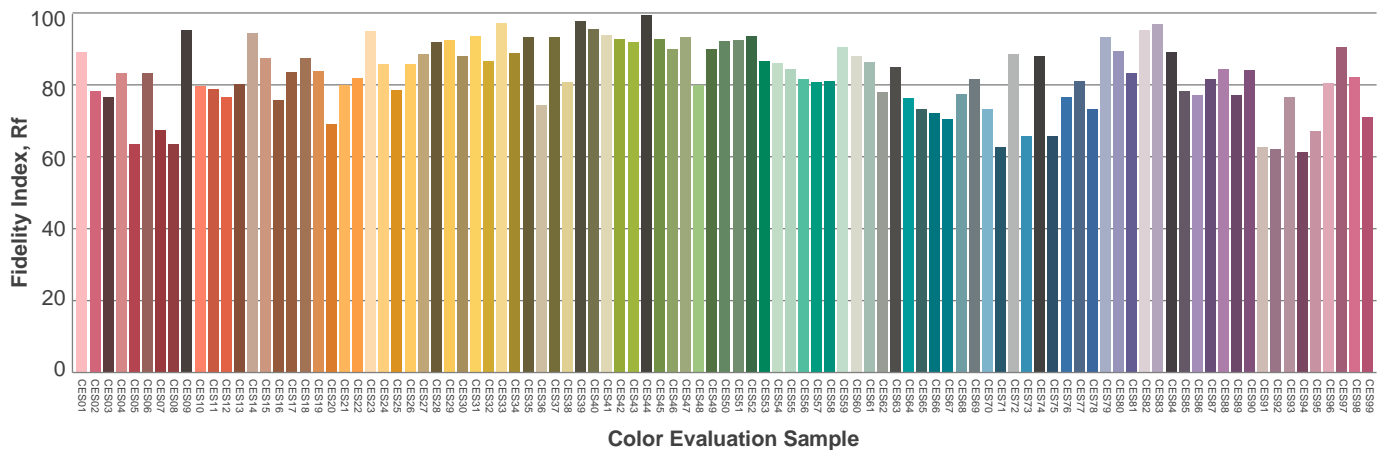
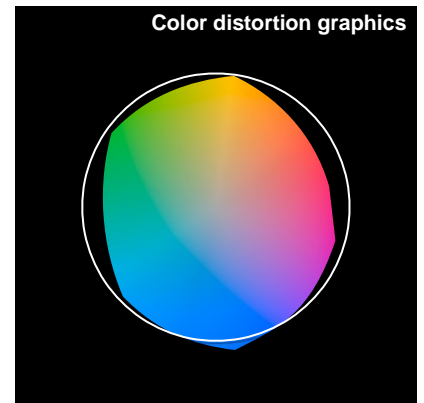
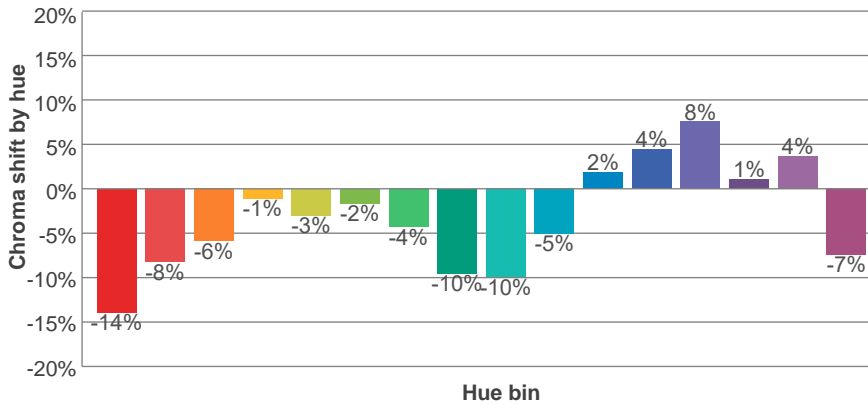
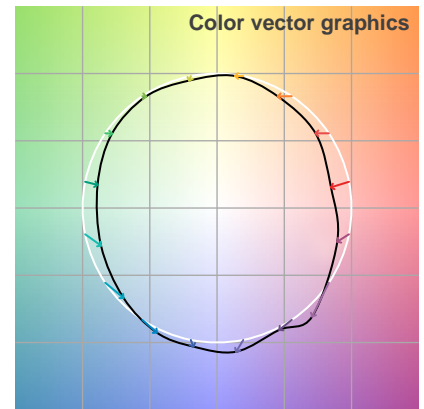
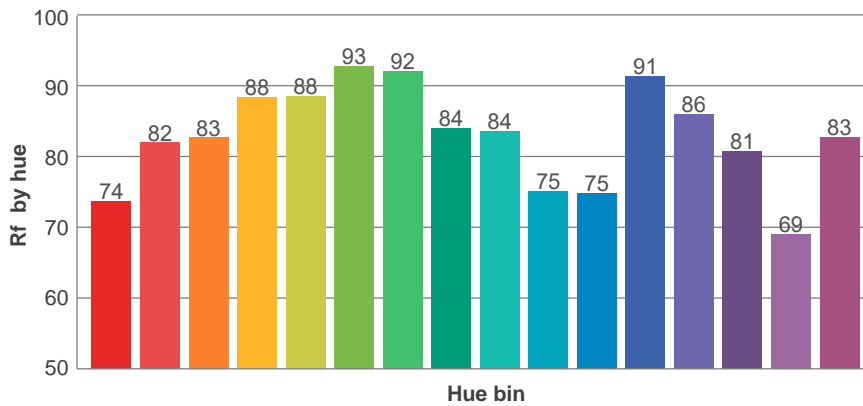
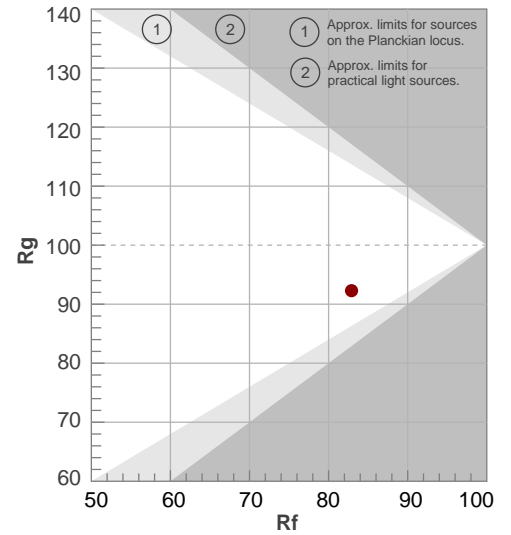
Rf 82.9

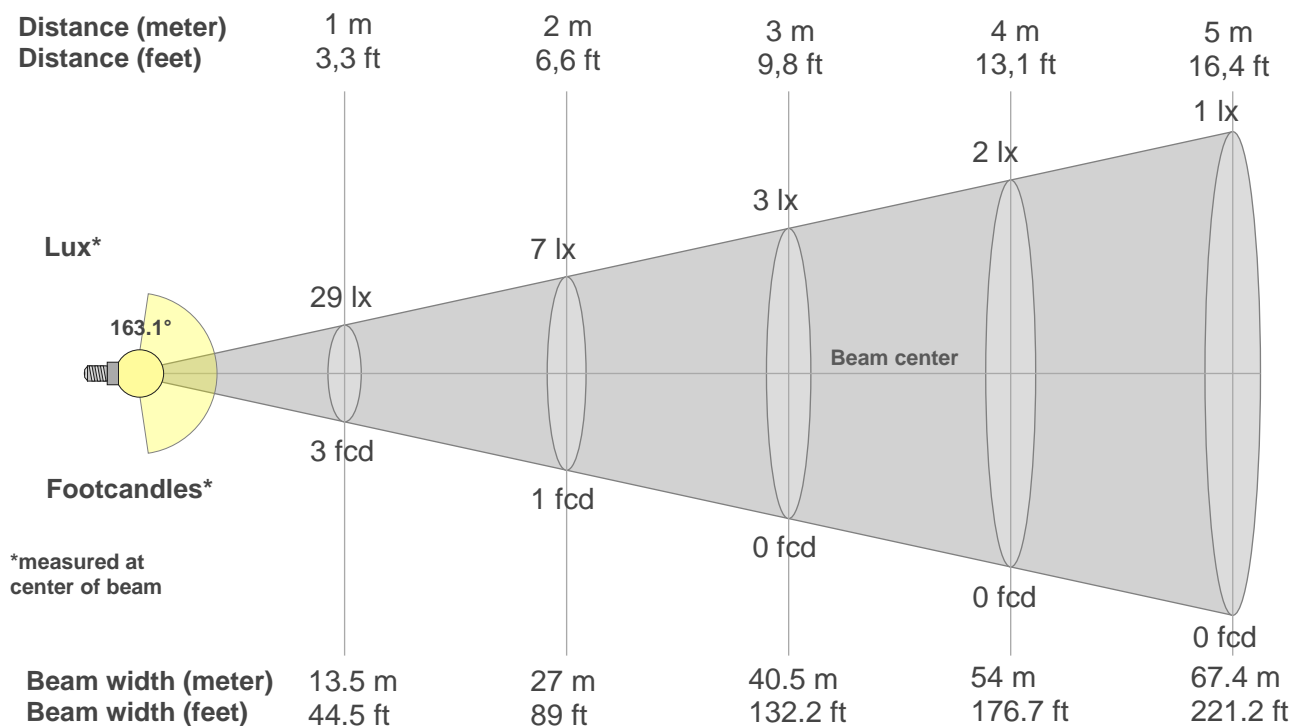
Fidelity index Rf

Rg 92.3

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	74	-14%	-1%
2	82	-8%	5%
3	83	-6%	9%
4	88	-1%	6%
5	88	-3%	2%
6	93	-2%	-2%
7	92	-4%	-3%
8	84	-10%	0%
9	84	-10%	11%
10	75	-5%	17%
11	75	2%	14%
12	91	4%	3%
13	86	8%	-7%
14	81	1%	-12%
15	69	4%	-28%
16	83	-7%	-7%





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
29lx	7lx	3lx	2lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
2.7fcd	0.7fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
29	29	30	31	33	35	39	43	50	61	80	109	159	227	314	365	249	44	21	13
100%	101%	105%	109%	114%	123%	135%	150%	174%	214%	279%	381%	554%	794%	1098%	1274%	870%	155%	75%	46%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
29	29	30	31	33	35	39	43	51	62	81	112	168	257	361	393	277	58	10	1
100%	101%	105%	110%	115%	123%	136%	152%	177%	218%	283%	392%	589%	898%	1262%	1374%	968%	202%	34%	5%

Intensities in 180° c-plane

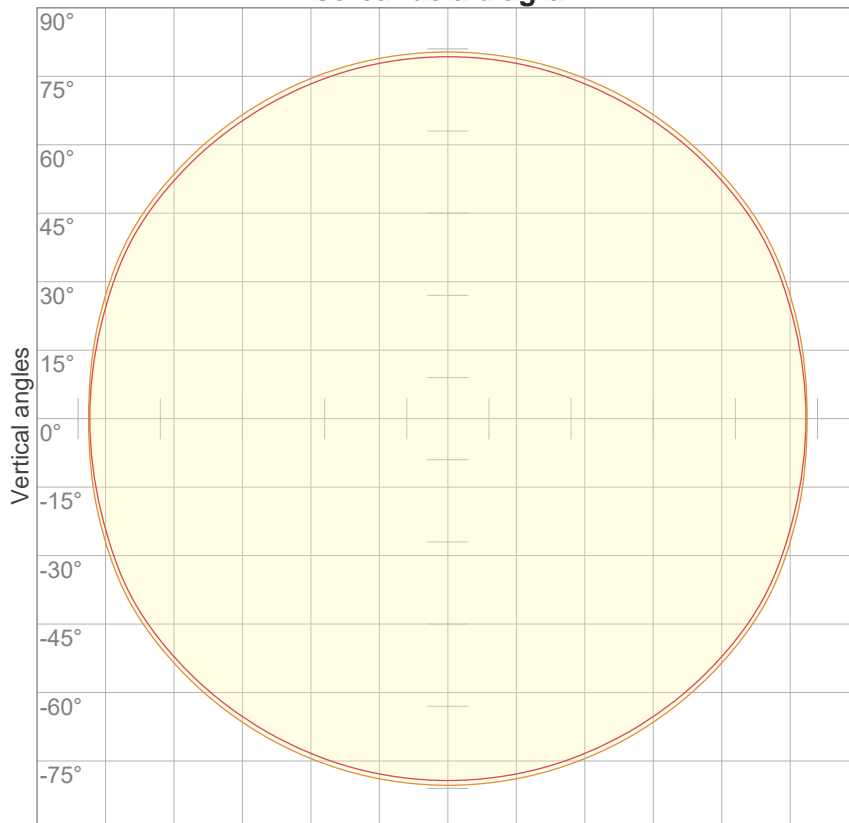
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
29	29	30	31	33	35	39	43	50	61	80	109	159	227	314	365	249	44	21	13
100%	101%	105%	109%	114%	123%	135%	150%	174%	214%	279%	381%	554%	794%	1098%	1274%	870%	155%	75%	46%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
29	29	30	31	33	35	39	43	51	62	81	112	168	257	361	393	277	58	10	1
100%	101%	105%	110%	115%	123%	136%	152%	177%	218%	283%	392%	589%	898%	1262%	1374%	968%	202%	34%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
163.1°	171.4°	190.1°	21.9%	8.2%

iso-candela diagram



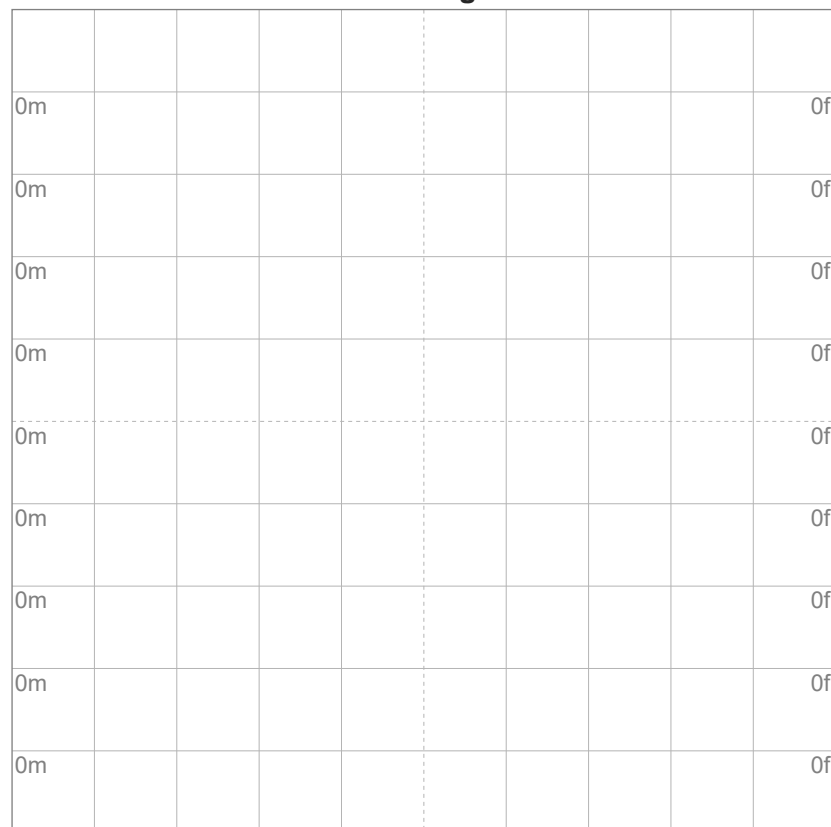
10%	3 cd
20%	6 cd
30%	9 cd
40%	11 cd
50%	14 cd
60%	17 cd
70%	20 cd
80%	23 cd
90%	26 cd

Conditions:

Number of c-planes: 12

Candela at center: 29 cd

iso-lux diagram



3%	8.58m lx
5%	14.3m lx
10%	28.6m lx
30%	85.8m lx
50%	0.143 lx

Conditions:

Number of c-planes: 12

Lux at center: 0.286 lx

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

Glare evaluation according to UGR

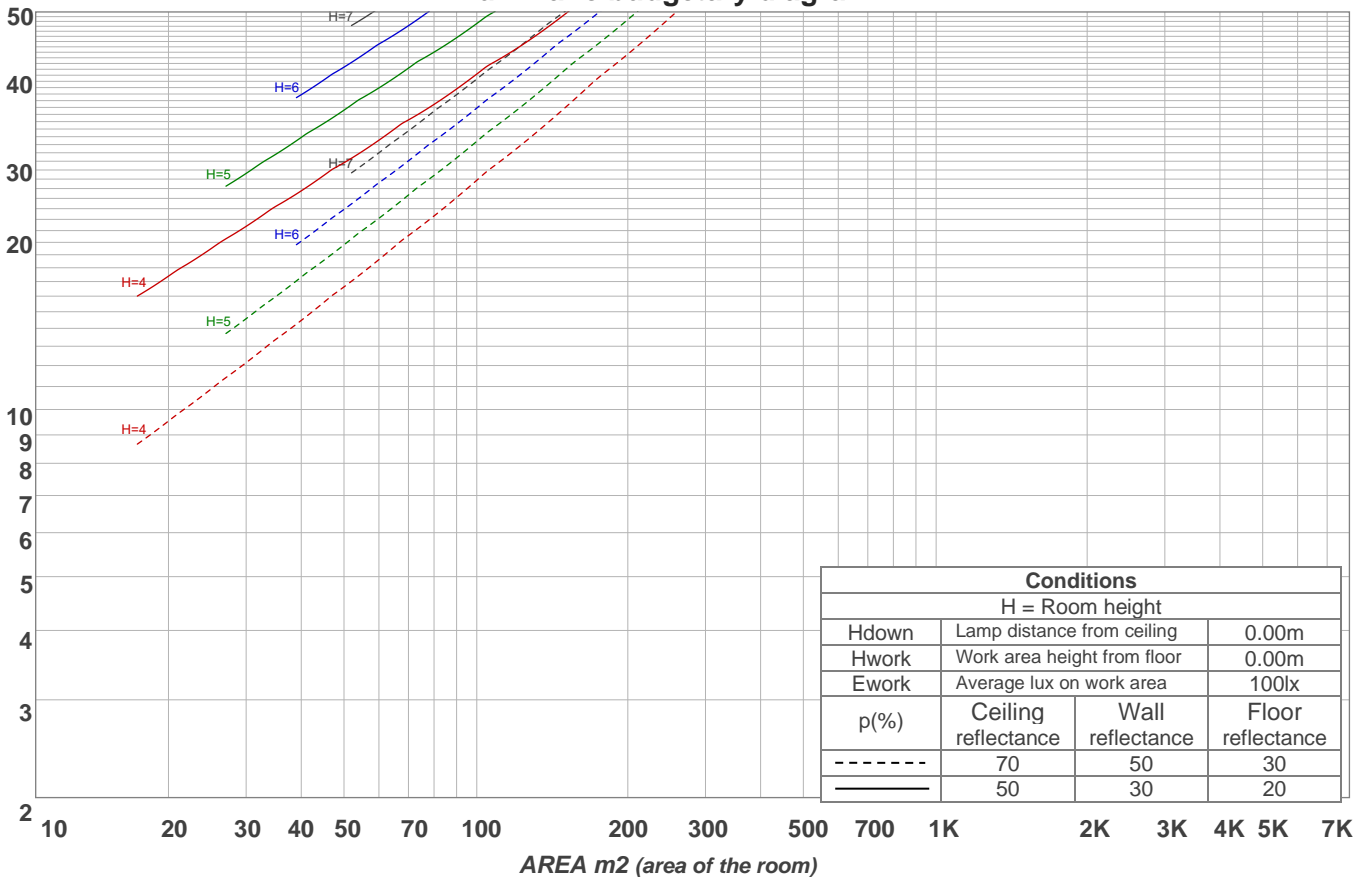
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	20.9	22.8	21.3	23.2	23.6	22.5	24.4	22.9	24.8	25.2
	3H	27.2	29.0	27.6	29.5	29.8	29.6	31.5	30.1	32.0	32.3
	4H	29.9	31.8	30.4	32.2	32.5	32.7	34.5	33.2	34.9	35.3
	6H	31.6	33.3	32.0	33.6	34.1	34.8	36.5	35.2	36.8	37.3
	8H	31.9	33.5	32.3	33.9	34.4	35.2	36.9	35.6	37.2	37.7
	12H	31.9	33.5	32.3	33.9	34.4	35.3	36.9	35.7	37.3	37.8
4H	2H	23.4	25.2	23.9	25.6	26.0	24.3	26.1	24.7	26.5	26.9
	3H	29.0	30.7	29.5	31.0	31.6	30.9	32.5	31.3	32.9	33.5
	4H	31.6	33.2	32.1	33.6	34.2	33.8	35.4	34.3	35.8	36.5
	6H	33.2	34.6	33.7	35.0	35.5	35.9	37.2	36.4	37.7	38.2
	8H	33.5	34.7	34.0	35.2	35.7	36.3	37.6	36.9	38.1	38.6
	12H	33.5	34.7	34.0	35.2	35.7	36.5	37.6	37.0	38.1	38.7
8H	4H	32.6	33.9	33.1	34.3	34.8	34.3	35.6	34.9	36.1	36.6
	6H	34.2	35.3	34.8	35.8	36.5	36.4	37.5	37.0	38.0	38.7
	8H	34.5	35.5	35.1	36.1	36.8	36.9	37.9	37.5	38.5	39.2
	12H	34.6	35.5	35.2	36.0	36.7	37.1	37.9	37.7	38.5	39.2
12H	4H	32.7	33.9	33.3	34.4	35.0	34.4	35.5	34.9	36.0	36.6
	6H	34.4	35.4	34.9	35.9	36.7	36.5	37.5	37.0	38.0	38.8
	8H	34.7	35.6	35.3	36.1	36.8	37.0	37.9	37.6	38.4	39.1
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.0 / 0.0					0.0 / 0.0				
S = 1.5H		0.1 / -0.1					0.1 / -0.1				
S = 2.0H		0.1 / -0.1					0.3 / -0.3				
CIE 117-1995. Corrected glare indices referring to 910 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	97	88	79	72	93	85	77	70	80	73	67	75	69	64	70	66	62	59
2	82	67	55	45	78	65	54	45	60	51	43	56	48	41	52	45	39	36
3	71	54	41	31	67	52	40	30	48	37	29	44	35	28	41	33	27	23
4	63	45	32	22	60	43	31	21	40	29	21	37	27	20	34	26	19	16
5	57	38	26	17	54	37	25	16	34	24	16	31	22	15	29	21	14	11
6	52	34	22	13	49	32	21	13	30	20	12	28	19	12	26	18	11	8
7	47	30	19	11	45	29	18	10	27	17	10	25	16	10	23	15	9	7
8	44	27	16	9	42	26	16	9	24	15	8	23	14	8	21	13	8	5
9	41	24	14	8	39	24	14	7	22	13	7	21	13	7	19	12	7	4
10	38	22	13	7	37	22	13	7	20	12	6	19	11	6	18	11	6	4

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}	8.25 lm	16.2 lm	27.8 lm	45.2 lm	99.3 lm	229 lm	341 lm	112 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
13.5 lm	6.29 lm	3.78 lm	2.48 lm	1.43 lm	0.703 lm	0.391 lm	0.237 lm	0.084 lm

LCS table

BUG rating:	B1 U2 G1	
Forward light	Lumens	Lumens %
Low(0-30):	14.1	1.5%
Medium(30-60):	87.6	9.6%
High(60-80):	292	32.1%
Very high(80-90):	47.3	5.2%
Back light		
Low(0-30):	14.1	1.5%
Medium(30-60):	87.6	9.6%
High(60-80):	291.9	32.1%
Very high(80-90):	47.4	5.2%
Uplight		
Low(90-100):	13	1.4%
High(100-180):	15.1	1.7%

LCS graph

