

Light efficiency:

148 Lumen/Watt

Light quality:

CRI: 91.5

Color temperature:

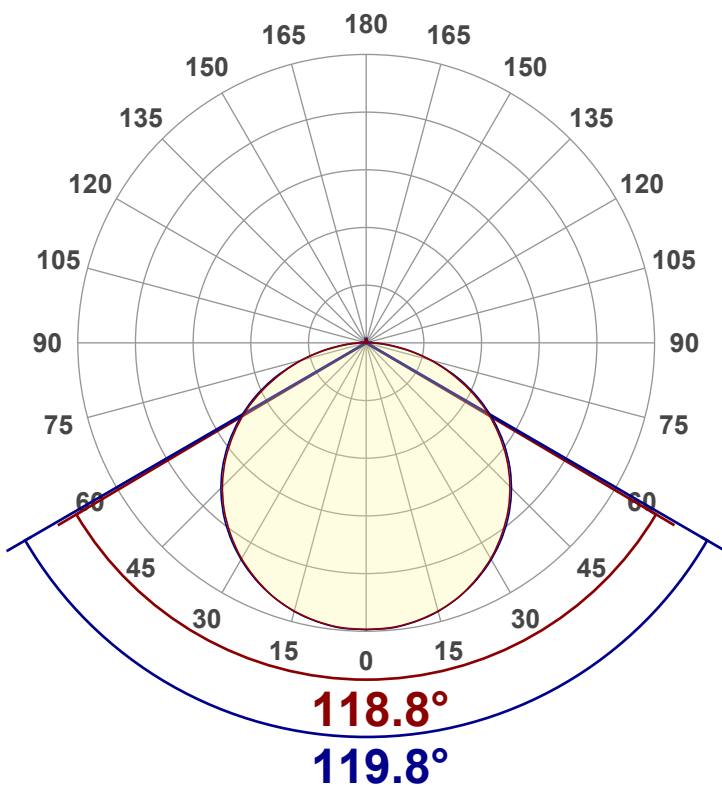
3450 K

Output: 326 lm

Peak: 105 cd

Power: 2.2 W

PF: 1.0



Tracking number: [n/a](#)

Product name:
RB90XACTA203.035

Item number:

Date and time:
2025/5/16 16:58:47

Operator:
BOB

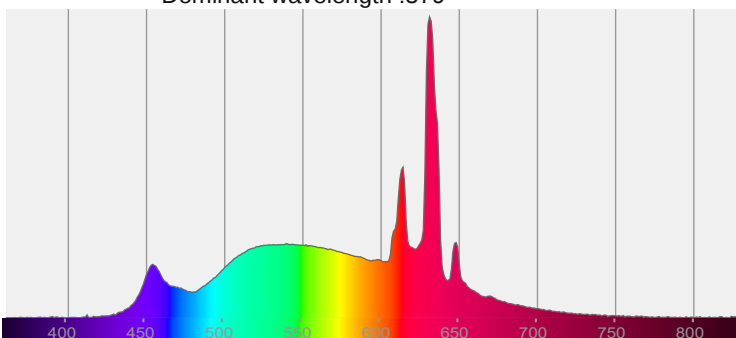
Description:
SIZE:475X8MM
3.0W/FT,22V2835LED+KSF,19LED/C
UT,95LED/475MM,3500K



CIE 1931
x: 0.419
y: 0.421

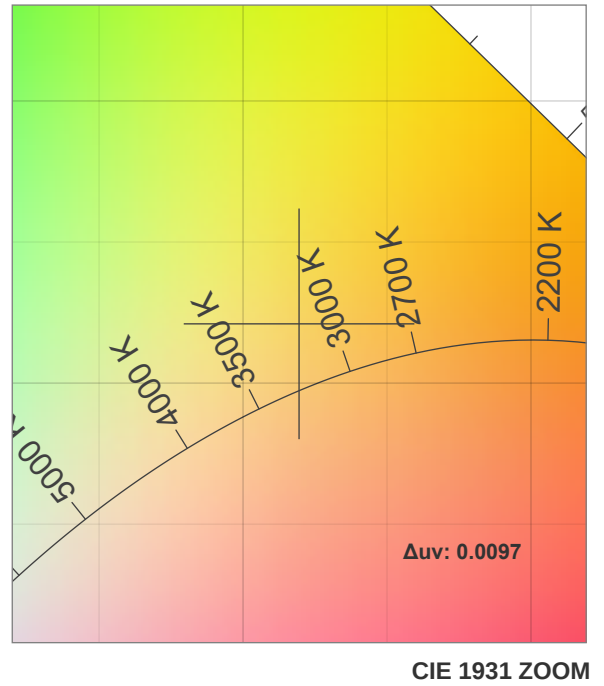
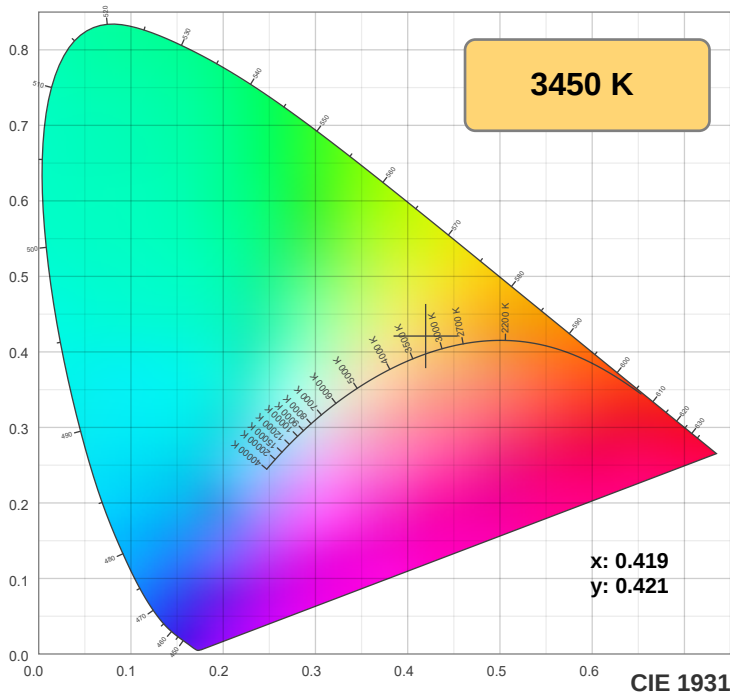
Spectra: Peak wavelength :631

Dominant wavelength :579

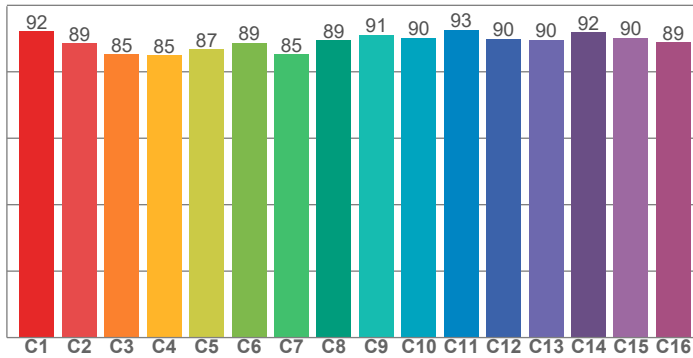


Power

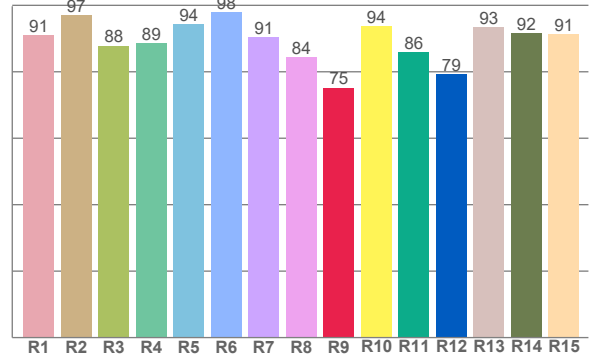
Voltage: 24.0 V
Current: 0.092 A
Frequency: 0 Hz



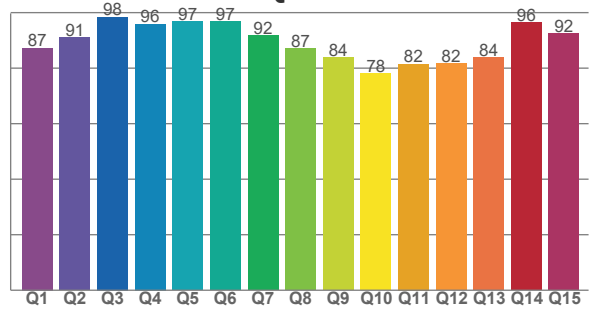
TM-30: 89.1



CRI: 91.5 (R1-R8)



CQS: 87.7



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
91.0	97.1	87.9	88.6	94.3	98.0	90.5	84.3	75.2	93.7	85.9	79.2	93.3	91.6	91.2

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
92.3	88.6	85.2	84.9	86.8	88.7	85.2	89.4	91.1	90.3	92.6	89.9	89.6	91.9	90.2	88.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.2	91.0	98.4	95.9	96.9	96.8	91.7	87.0	83.7	78.1	81.5	81.6	83.8	96.4	92.4

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
3450 K	91.5	75.2	89.1	98.3	87.7	0.419	0.421	0.233	0.350	0.0097

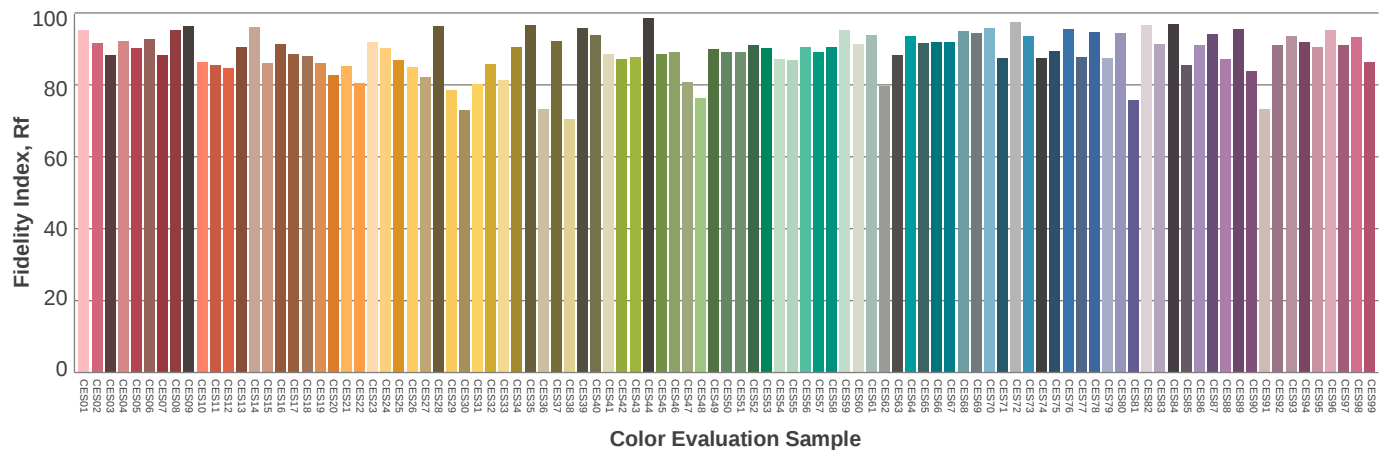
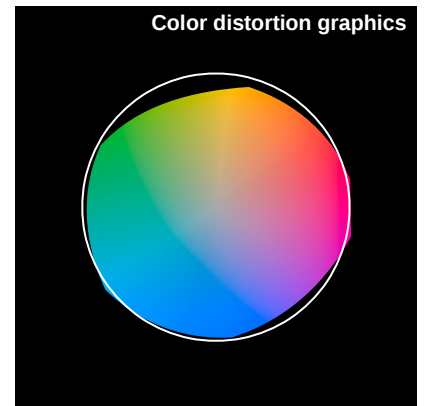
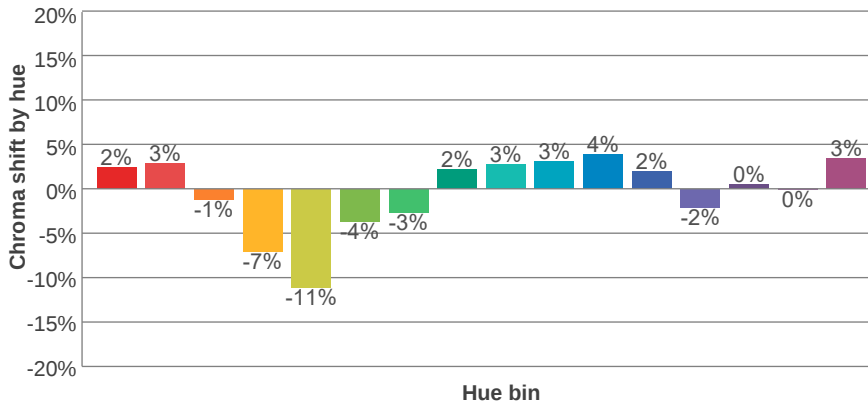
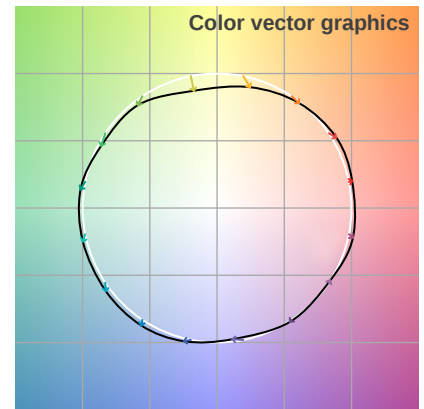
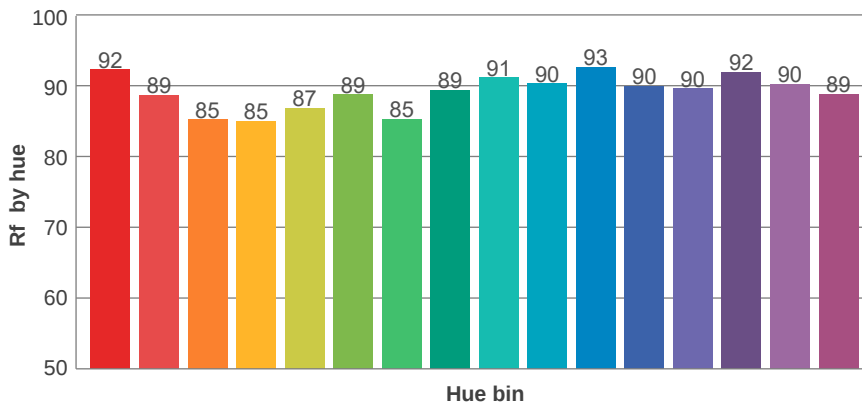
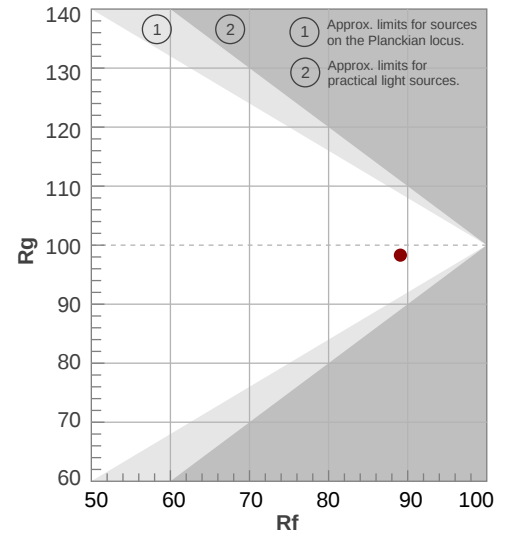
Rf 89.1

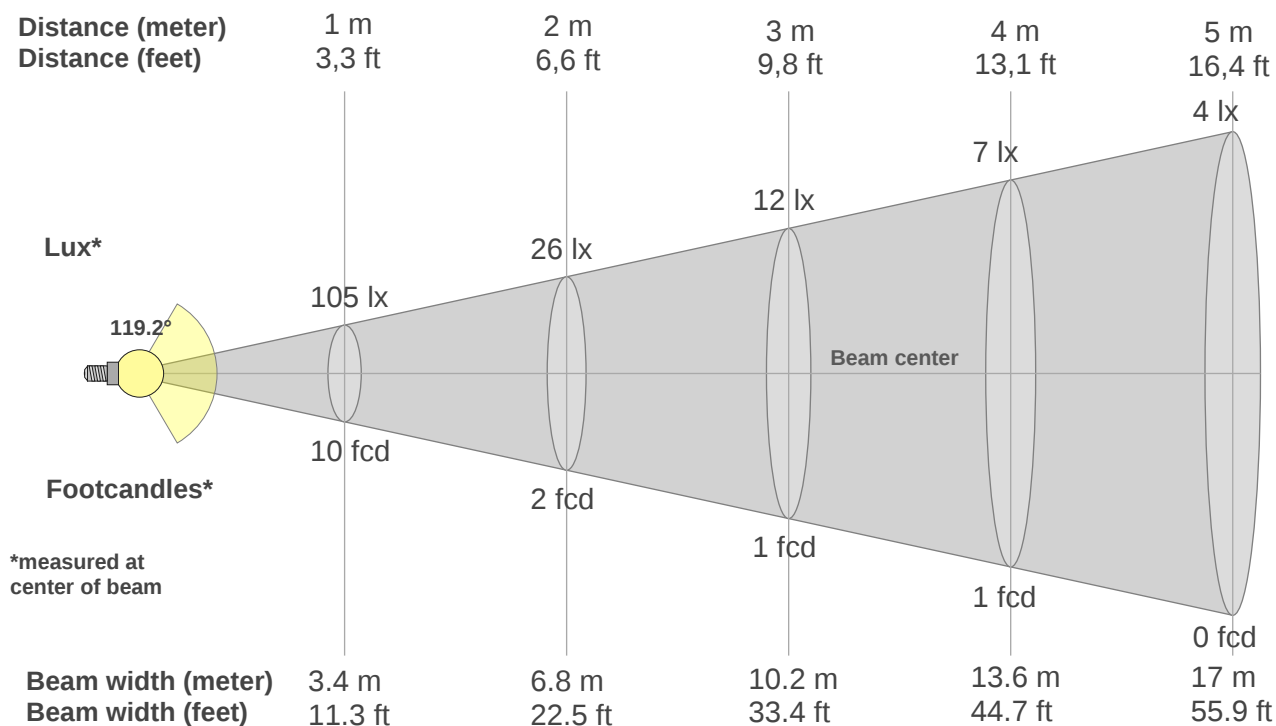
Fidelity index Rf

Rg 98.3

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	92	2%	0%
2	89	3%	-6%
3	85	-1%	-7%
4	85	-7%	-7%
5	87	-11%	0%
6	89	-4%	6%
7	85	-3%	9%
8	89	2%	6%
9	91	3%	5%
10	90	3%	5%
11	93	4%	2%
12	90	2%	-5%
13	90	-2%	-8%
14	92	0%	-2%
15	90	0%	2%
16	89	3%	-2%





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
105lx	26lx	12lx	7lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.7fcd	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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
105	104	103	101	99	95	91	86	80	74	67	59	51	42	33	24	16	8	3	1
100%	100%	99%	97%	94%	91%	87%	82%	77%	71%	64%	57%	49%	40%	32%	23%	15%	8%	3%	1%

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°
105	104	103	101	99	95	91	86	81	75	68	60	52	43	34	24	15	7	2	0
100%	100%	99%	97%	94%	91%	87%	83%	77%	72%	65%	58%	50%	41%	33%	23%	15%	7%	2%	0%

Intensities in 180° c-plane

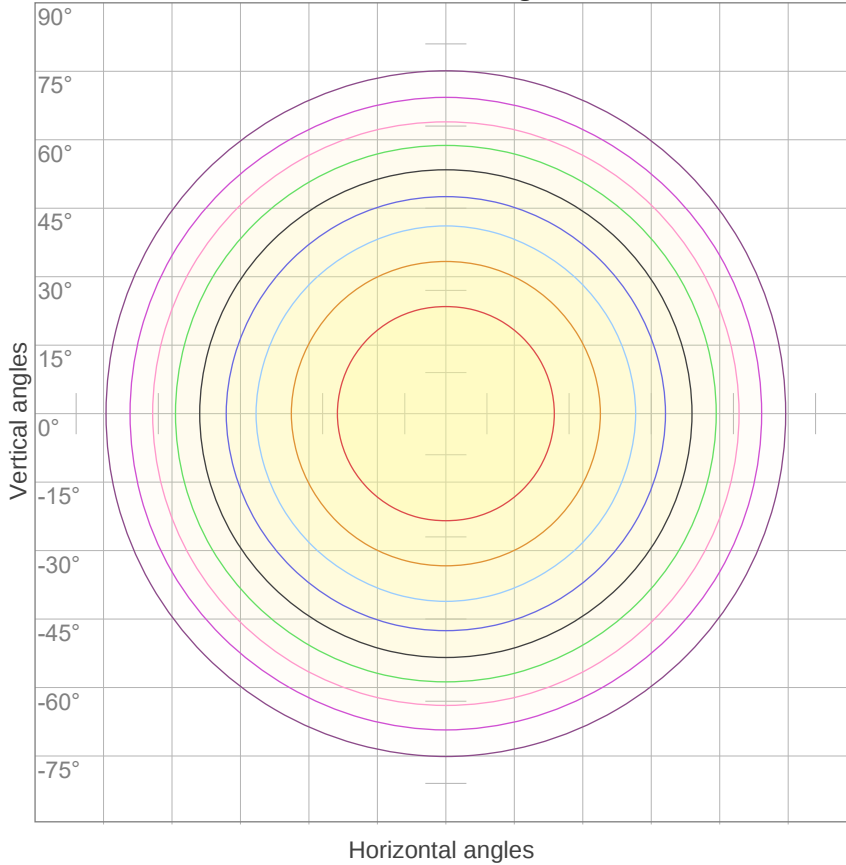
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
105	104	103	101	99	95	91	86	80	74	67	59	51	42	33	24	16	8	3	1
100%	100%	99%	97%	94%	91%	87%	82%	77%	71%	64%	57%	49%	40%	32%	23%	15%	8%	3%	1%

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°
105	104	103	101	99	95	91	86	81	75	68	60	52	43	34	24	15	7	2	0
100%	100%	99%	97%	94%	91%	87%	83%	77%	72%	65%	58%	50%	41%	33%	23%	15%	7%	2%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
119.2°	166.2°	180.2°	75.7%	50.6%

iso-candela diagram



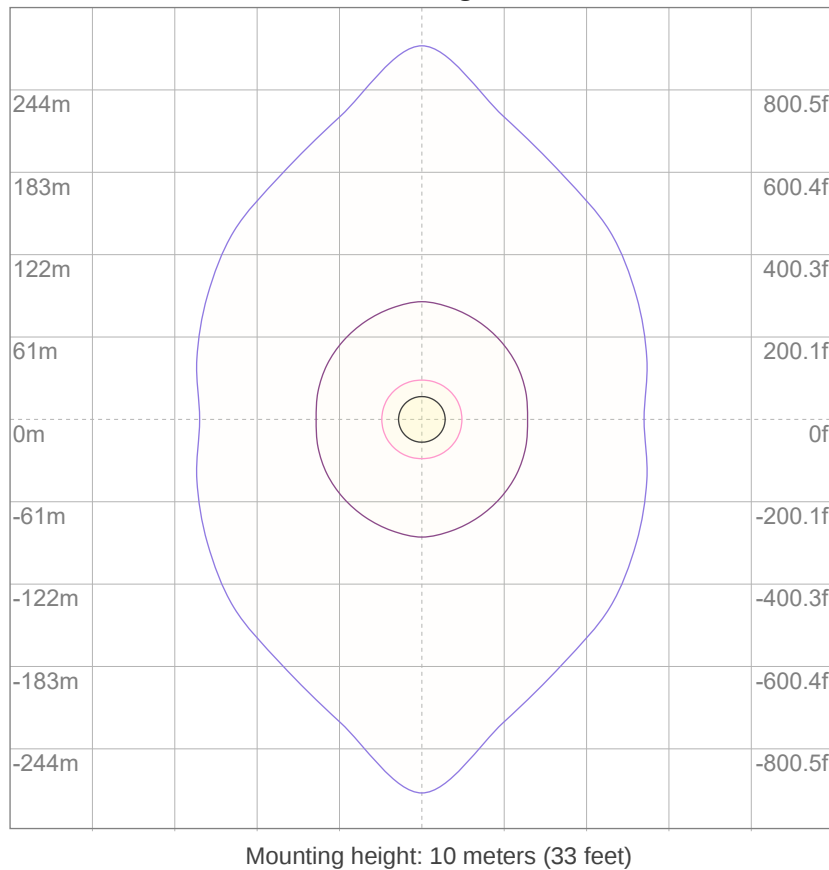
10%	10 cd
20%	21 cd
30%	31 cd
40%	42 cd
50%	52 cd
60%	63 cd
70%	73 cd
80%	84 cd
90%	94 cd

Conditions:

Number of c-planes: 12

Candela at center: 105 cd

iso-lux diagram



3%	31.4m lx
5%	52.3m lx
10%	0.105 lx
30%	0.314 lx
50%	0.523 lx

Conditions:

Number of c-planes: 12

Lux at center: 1.05 lx

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

Glare evaluation according to UGR

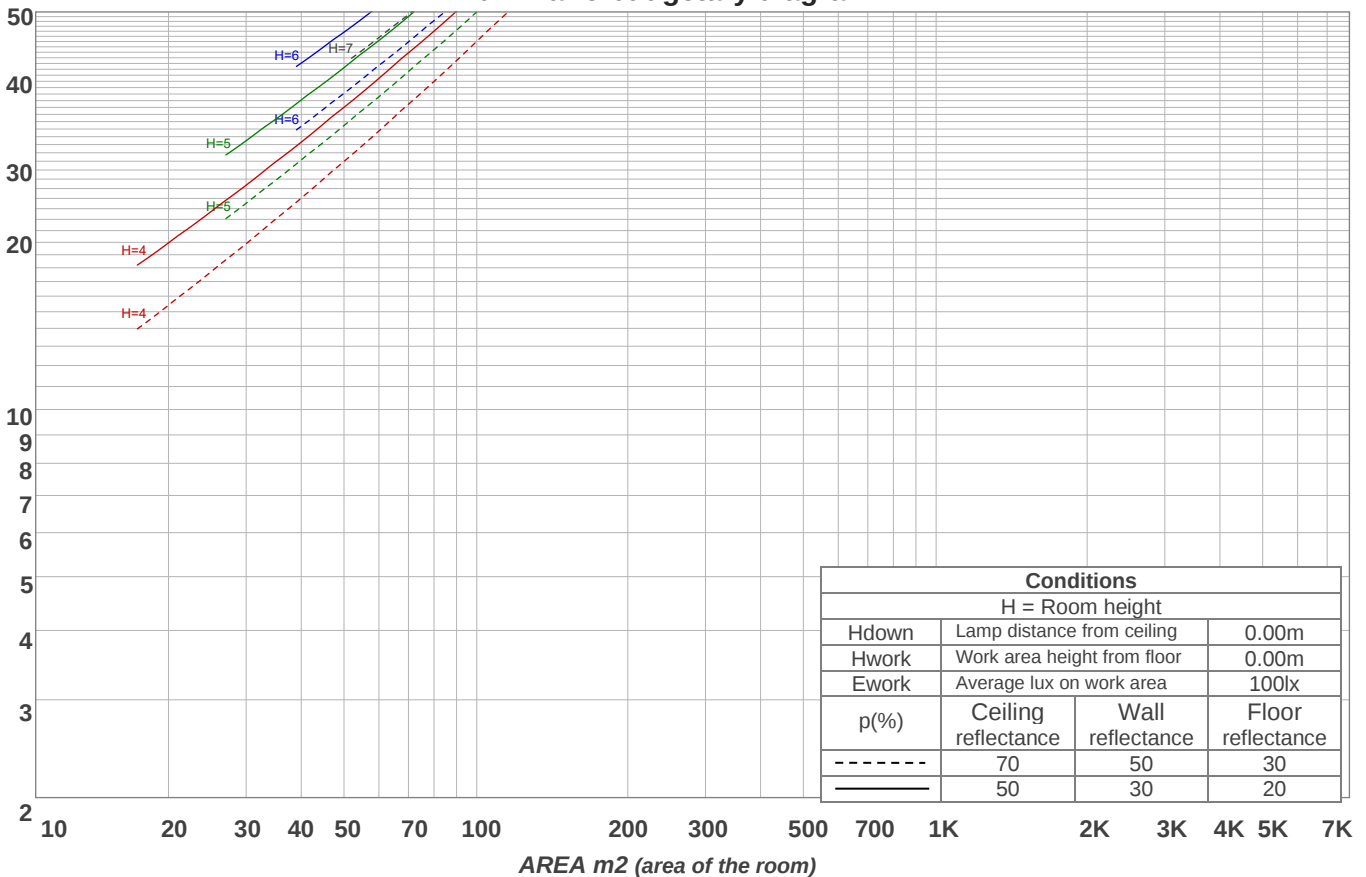
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	22.7	23.9	22.9	24.3	24.5	23.7	24.9	23.9	25.2	25.5
	3H	24.0	25.3	24.4	25.6	25.8	25.3	26.6	25.7	26.9	27.1
	4H	24.5	25.7	24.9	26.0	26.3	26.0	27.2	26.4	27.5	27.8
	6H	24.9	26.0	25.2	26.3	26.7	26.6	27.7	26.9	28.0	28.4
	8H	25.0	26.1	25.4	26.4	26.8	26.8	27.8	27.1	28.1	28.6
	12H	25.0	26.1	25.4	26.4	26.9	26.9	27.9	27.3	28.2	28.7
4H	2H	23.3	24.6	23.8	24.9	25.2	24.1	25.3	24.5	25.6	25.9
	3H	24.9	26.0	25.3	26.3	26.8	26.0	27.0	26.4	27.4	27.8
	4H	25.5	26.4	25.9	26.9	27.4	26.7	27.7	27.2	28.1	28.7
	6H	25.9	26.8	26.4	27.2	27.6	27.4	28.3	27.9	28.7	29.0
	8H	26.1	26.9	26.6	27.3	27.7	27.6	28.4	28.1	28.8	29.2
	12H	26.1	26.8	26.6	27.3	27.8	27.8	28.5	28.3	28.9	29.4
8H	4H	25.8	26.6	26.3	27.0	27.4	26.9	27.7	27.4	28.1	28.5
	6H	26.4	27.0	26.9	27.5	28.0	27.7	28.3	28.2	28.8	29.4
	8H	26.6	27.1	27.1	27.7	28.3	28.0	28.6	28.5	29.1	29.7
	12H	26.7	27.2	27.3	27.7	28.3	28.2	28.7	28.8	29.2	29.8
12H	4H	25.8	26.5	26.3	26.9	27.4	26.9	27.6	27.4	28.0	28.5
	6H	26.4	27.0	27.0	27.5	28.2	27.7	28.3	28.2	28.8	29.5
	8H	26.7	27.1	27.3	27.7	28.3	28.0	28.5	28.6	29.0	29.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.0 / -0.1				
S = 1.5H		0.2 / -0.3					0.1 / -0.2				
S = 2.0H		0.5 / -0.6					0.5 / -0.6				
CIE 117-1995. Corrected glare indices referring to 326 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	86	84	82
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	34	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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°
9.93 lm	28.6 lm	43.9 lm	54.0 lm	57.3 lm	53.4 lm	42.4 lm	25.8 lm	8.78 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.967 lm	0.150 lm	0.165 lm	0.213 lm	0.209 lm	0.188 lm	0.156 lm	0.097 lm	0.033 lm

LCS table

BUG rating:	B0 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	41.2	12.6%
Medium(30-60):	82.3	25.2%
High(60-80):	34.1	10.4%
Very high(80-90):	4.5	1.4%
Back light		
Low(0-30):	41.2	12.6%
Medium(30-60):	82.3	25.2%
High(60-80):	34.1	10.4%
Very high(80-90):	4.5	1.4%
Uplight		
Low(90-100):	1.1	0.3%
High(100-180):	1.2	0.4%

LCS graph

