

Light efficiency:

155 Lumen/Watt

Light quality:

CRI: 91.8

Color temperature:

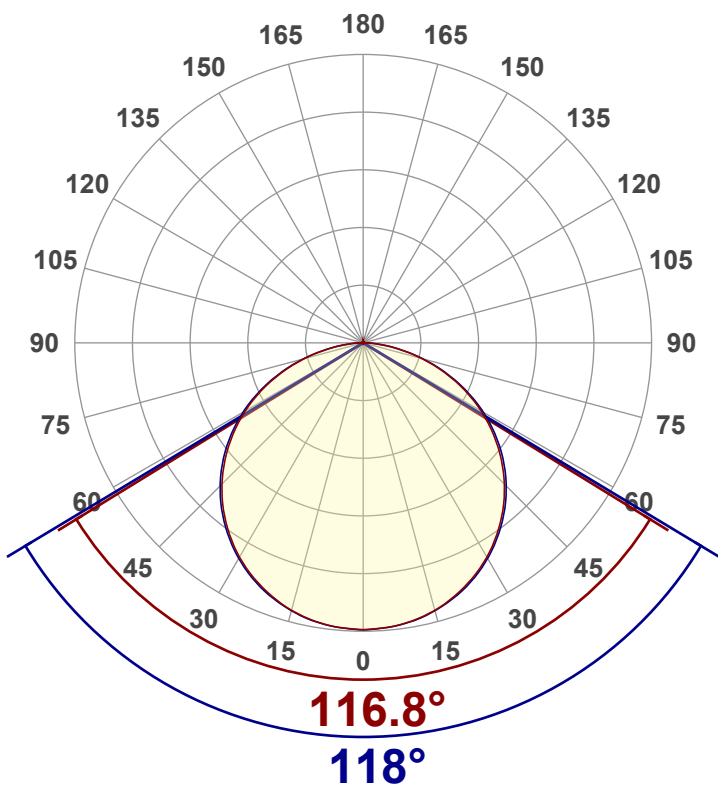
3461 K

Output: 649 lm

Peak: 214 cd

Power: 4.2 W

PF: 1.0



Tracking number: [n/a](#)

Product name:
RB90XACTA203.035

Item number:

Date and time:
2025/5/13 14:41:33

Operator:
BOB

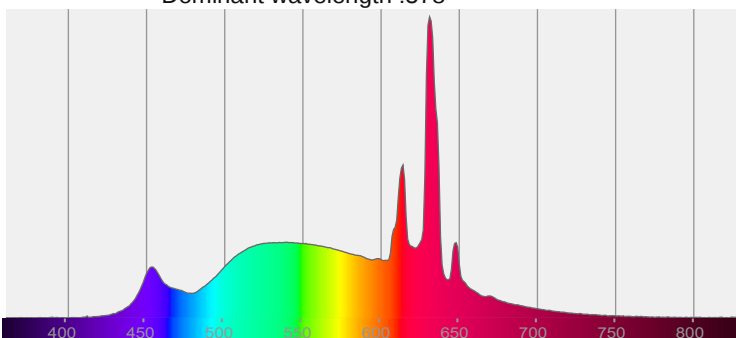
Description:
**SIZE:475X8MM
3.0W/FT,22V2835LED+KSF,19LED/C
UT,95LED/475MM,3500K**



CIE 1931
x: 0.420
y: 0.424

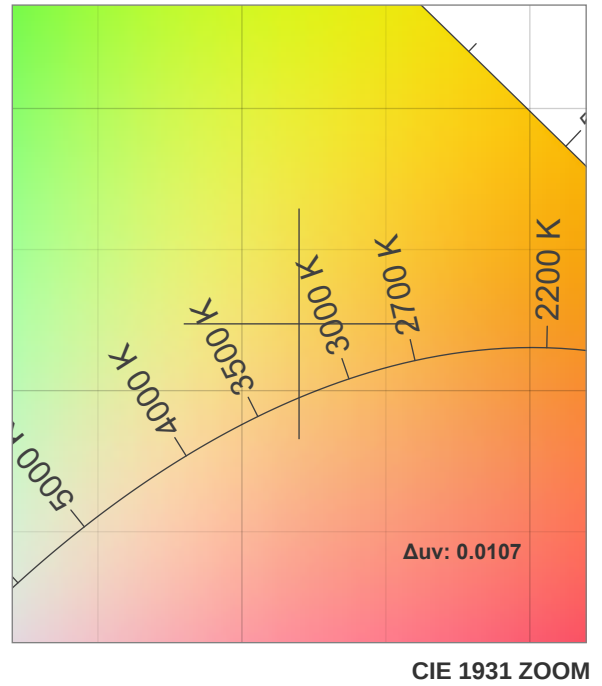
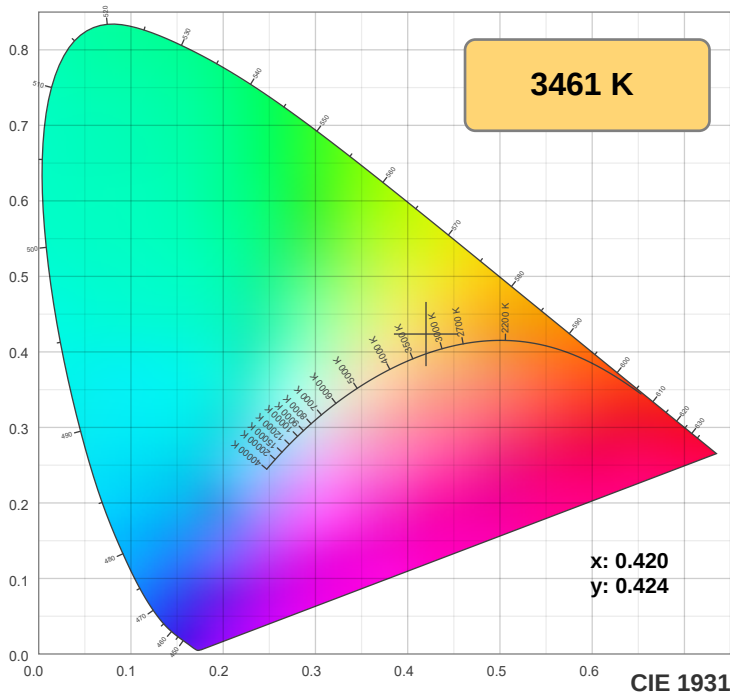
Spectra: Peak wavelength :631

Dominant wavelength :578

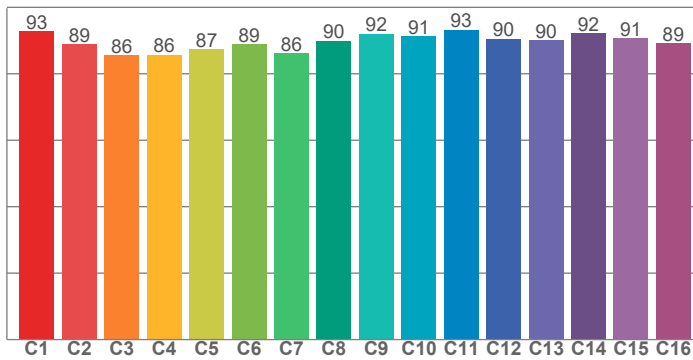


Power

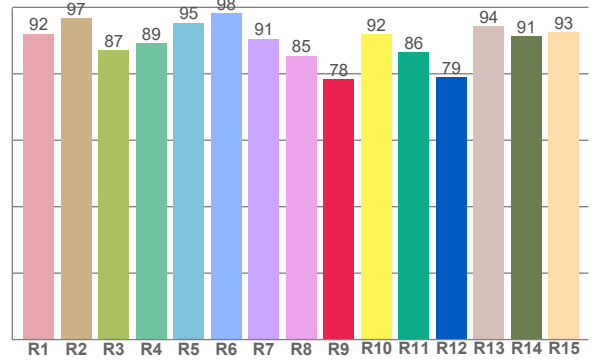
Voltage: 24.0 V
Current: 0.174 A
Frequency: 0 Hz



TM-30: 89.6



CRI: 91.8 (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
92.1	96.6	87.2	89.1	95.4	98.2	90.6	85.4	78.4	92.0	86.4	78.9	94.2	91.3	92.6

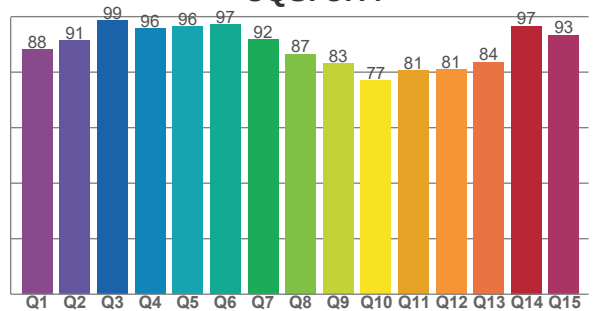
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.8	88.9	85.6	85.7	87.4	88.9	86.2	89.9	92.1	91.2	93.3	90.5	90.2	92.2	90.7	89.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.2	91.4	98.5	95.7	96.4	97.2	91.7	86.5	83.1	77.0	80.5	81.0	83.6	96.7	93.3

CQS: 87.4



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
3461 K	91.8	78.4	89.6	98.3	87.4	0.420	0.424	0.232	0.351	0.0107

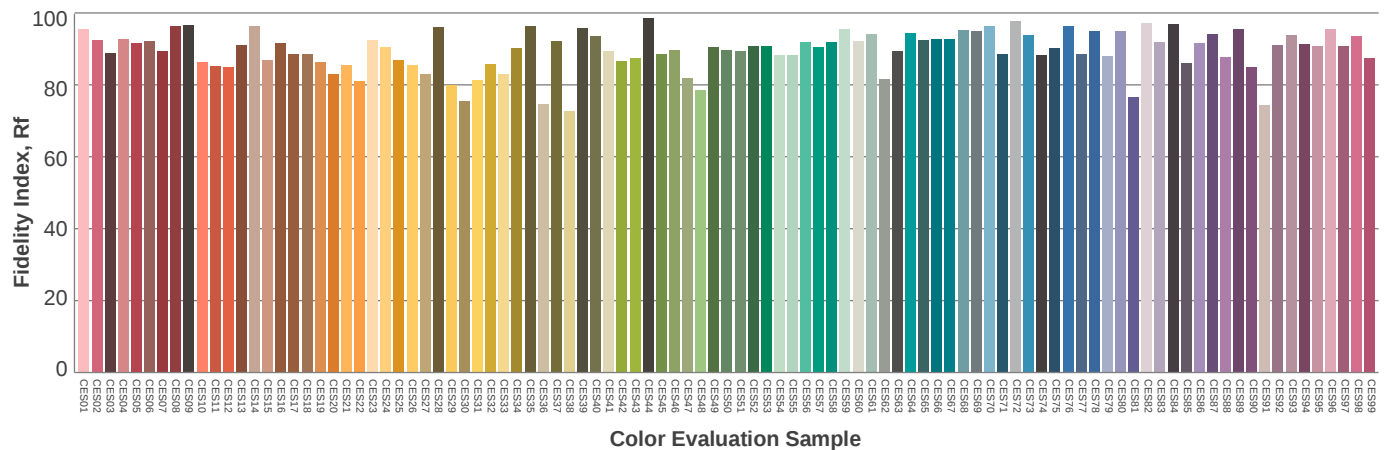
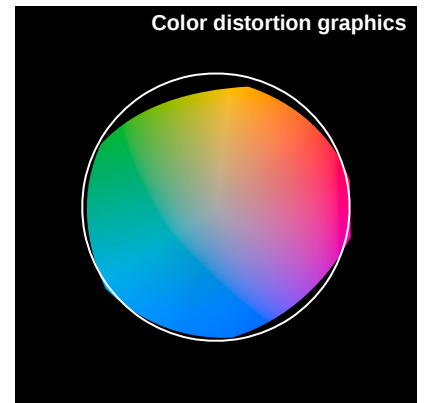
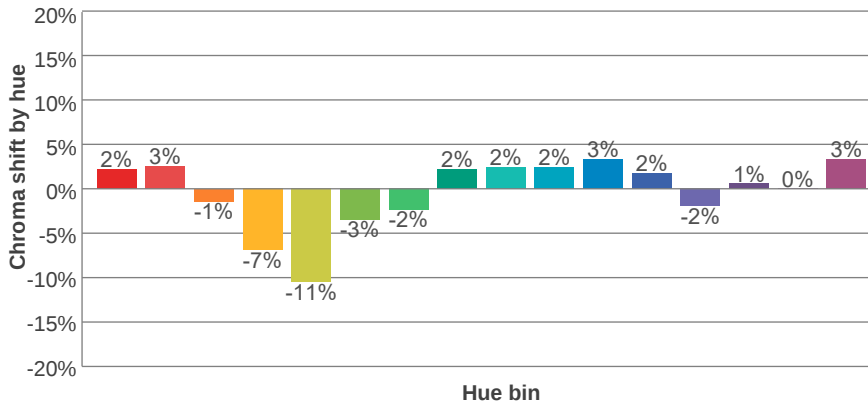
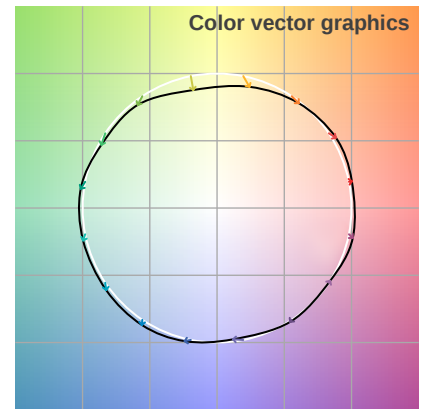
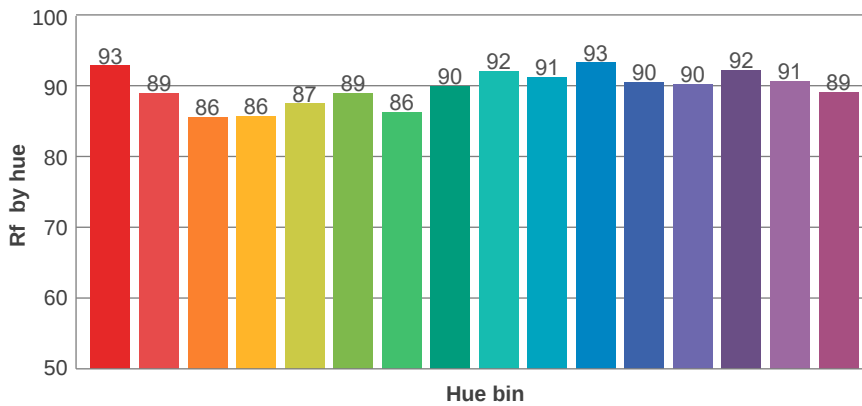
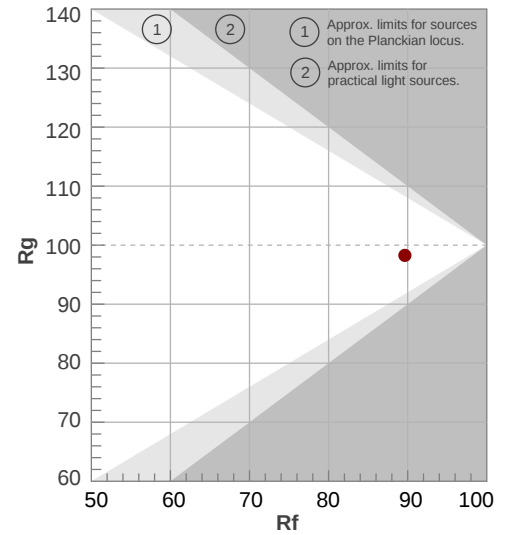
Rf 89.6

Fidelity index Rf

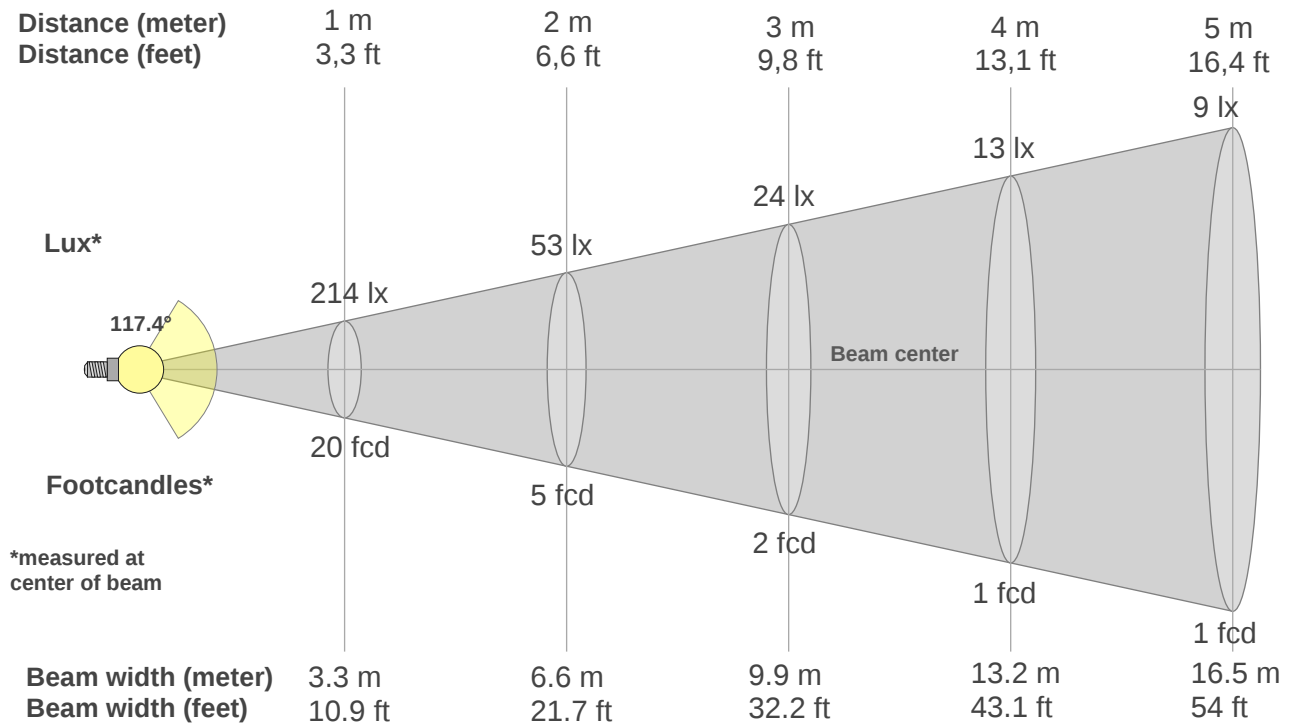
Rg 98.3

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	93	2%	0%
2	89	3%	-6%
3	86	-1%	-7%
4	86	-7%	-6%
5	87	-11%	0%
6	89	-3%	6%
7	86	-2%	9%
8	90	2%	6%
9	92	2%	4%
10	91	2%	5%
11	93	3%	2%
12	90	2%	-4%
13	90	-2%	-7%
14	92	1%	-2%
15	91	0%	2%
16	89	3%	-2%



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
214lx	53lx	24lx	13lx	9lx	6lx	4lx	3lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
19.8fcd	5fcd	2.2fcd	1.2fcd	0.8fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	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°
214	213	210	206	200	193	184	174	162	149	134	118	101	83	64	46	28	13	4	1
100%	100%	98%	96%	94%	90%	86%	81%	76%	70%	63%	55%	47%	39%	30%	21%	13%	6%	2%	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°
214	213	210	206	201	194	185	175	164	151	136	120	103	85	66	46	27	12	3	0
100%	100%	98%	97%	94%	91%	87%	82%	77%	70%	64%	56%	48%	40%	31%	22%	13%	5%	1%	0%

Intensities in 180° c-plane

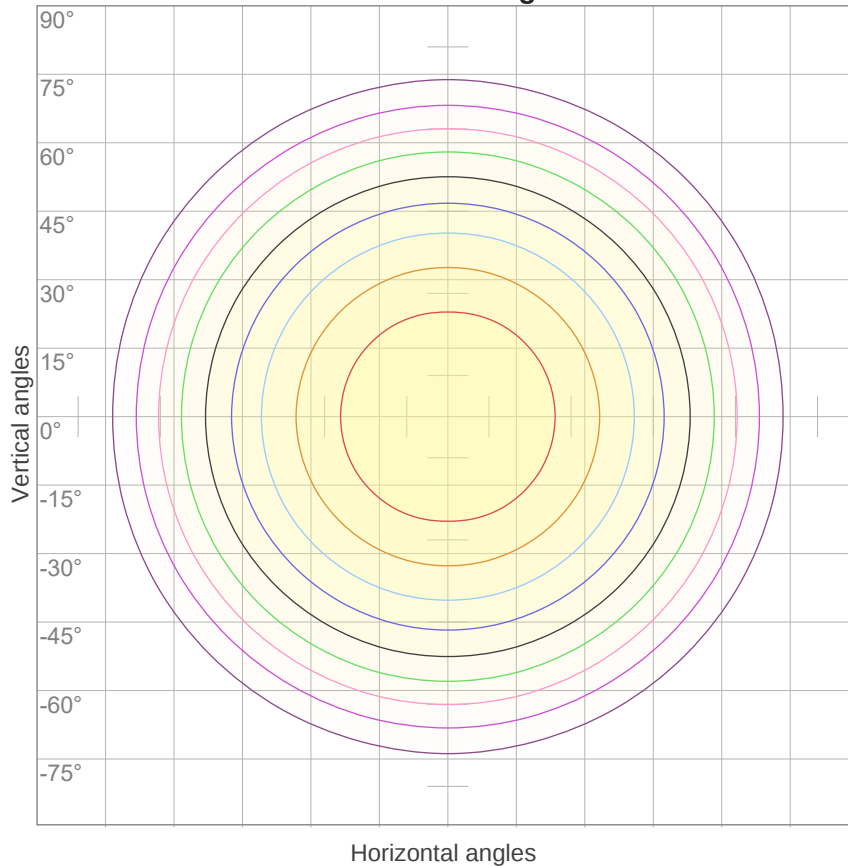
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
214	213	210	206	200	193	184	174	162	149	134	118	101	83	64	46	28	13	4	1
100%	100%	98%	96%	94%	90%	86%	81%	76%	70%	63%	55%	47%	39%	30%	21%	13%	6%	2%	1%

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°
214	213	210	206	201	194	185	175	164	151	136	120	103	85	66	46	27	12	3	0
100%	100%	98%	97%	94%	91%	87%	82%	77%	70%	64%	56%	48%	40%	31%	22%	13%	5%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
117.4°	163.8°	177.2°	76.9%	51.6%

iso-candela diagram



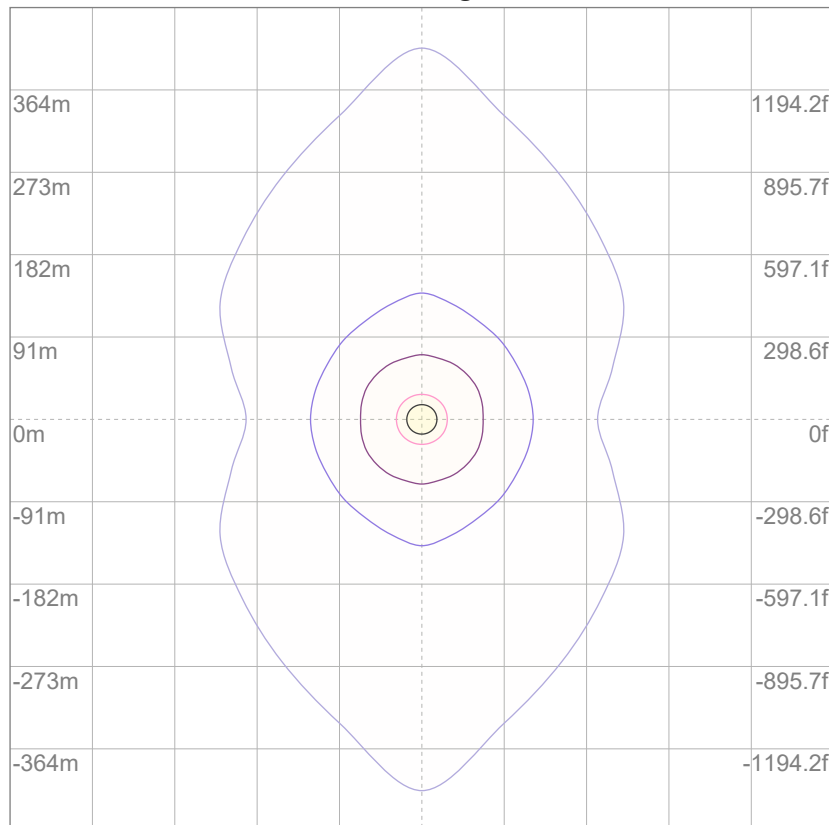
10%	21 cd
20%	43 cd
30%	64 cd
40%	85 cd
50%	107 cd
60%	128 cd
70%	150 cd
80%	171 cd
90%	192 cd

Conditions:

Number of c-planes: 12

Candela at center: 214 cd

iso-lux diagram



3%	64.1m lx
5%	0.107 lx
10%	0.214 lx
30%	0.641 lx
50%	1.07 lx

Conditions:

Number of c-planes: 12

Lux at center: 2.14 lx

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

Glare evaluation according to UGR

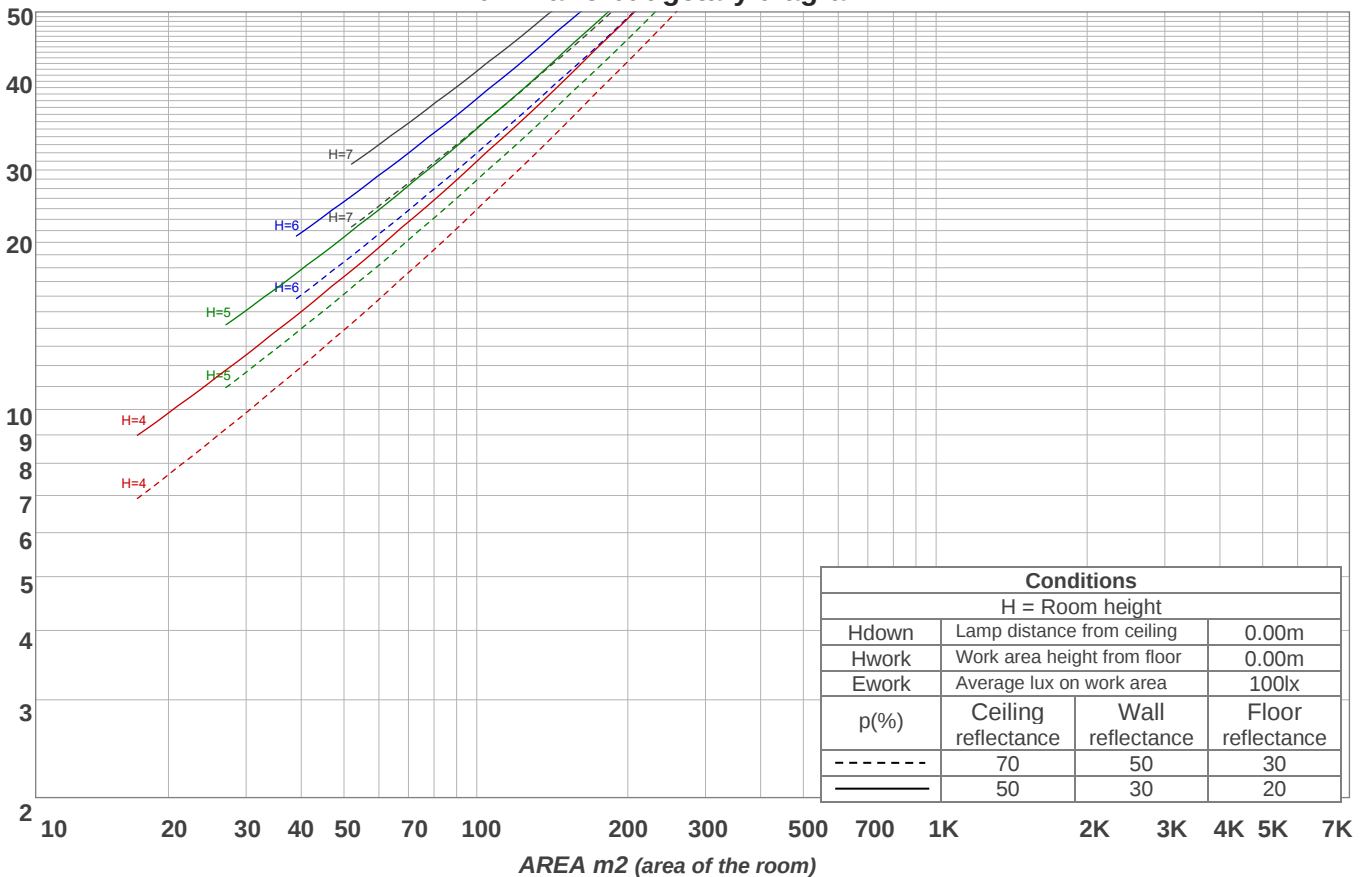
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	25.1	26.3	25.3	26.7	26.9	26.1	27.3	26.3	27.6	27.9
	3H	26.3	27.6	26.8	27.9	28.1	27.6	28.9	28.0	29.2	29.4
	4H	26.8	28.0	27.2	28.3	28.6	28.3	29.5	28.7	29.8	30.0
	6H	27.2	28.2	27.5	28.5	28.9	28.8	29.9	29.1	30.2	30.6
	8H	27.2	28.3	27.6	28.6	29.0	28.9	30.0	29.3	30.3	30.7
	12H	27.2	28.3	27.6	28.6	29.1	29.0	30.0	29.4	30.4	30.8
4H	2H	25.7	27.0	26.2	27.2	27.5	26.5	27.7	26.9	28.0	28.3
	3H	27.3	28.3	27.6	28.6	29.1	28.3	29.3	28.7	29.7	30.1
	4H	27.8	28.7	28.2	29.1	29.7	29.0	29.9	29.5	30.4	30.9
	6H	28.1	29.0	28.6	29.4	29.8	29.6	30.5	30.1	30.8	31.2
	8H	28.2	29.0	28.7	29.4	29.8	29.8	30.6	30.3	30.9	31.3
	12H	28.3	29.0	28.8	29.4	29.9	29.9	30.6	30.4	31.0	31.5
8H	4H	28.0	28.8	28.5	29.2	29.6	29.2	30.0	29.7	30.4	30.7
	6H	28.5	29.1	29.0	29.6	30.2	29.8	30.5	30.3	30.9	31.5
	8H	28.7	29.2	29.2	29.8	30.4	30.1	30.6	30.6	31.2	31.8
	12H	28.8	29.2	29.4	29.8	30.4	30.3	30.7	30.9	31.2	31.9
12H	4H	28.0	28.7	28.5	29.2	29.6	29.1	29.8	29.6	30.3	30.7
	6H	28.6	29.1	29.1	29.7	30.3	29.9	30.4	30.4	30.9	31.6
	8H	28.8	29.2	29.4	29.7	30.4	30.1	30.6	30.7	31.1	31.7
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 / -0.4					0.2 / -0.3				
S = 2.0H		0.5 / -0.7					0.6 / -0.7				
CIE 117-1995. Corrected glare indices referring to 649 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	102	102	102	99
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	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°
20.2 lm	58.3 lm	89.2 lm	109 lm	115 lm	107 lm	83.2 lm	48.5 lm	14.5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.10 lm	0.296 lm	0.350 lm	0.408 lm	0.383 lm	0.348 lm	0.279 lm	0.180 lm	0.062 lm

LCS table

BUG rating:	B0 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	83.8	12.9%
Medium(30-60):	165.6	25.5%
High(60-80):	65.8	10.2%
Very high(80-90):	7.3	1.1%
Back light		
Low(0-30):	83.8	12.9%
Medium(30-60):	165.6	25.5%
High(60-80):	65.8	10.2%
Very high(80-90):	7.3	1.1%
Uplight		
Low(90-100):	1.1	0.2%
High(100-180):	2.3	0.4%

LCS graph

