

Light efficiency:

147 Lumen/Watt

Light quality:

CRI: 91.9

Color temperature:

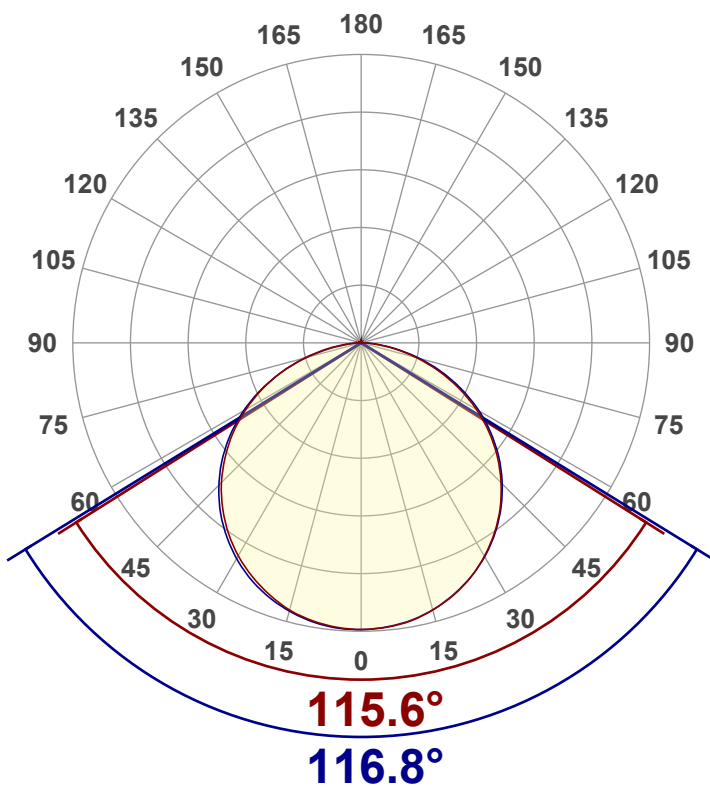
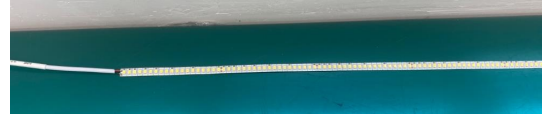
3453 K

Output: 927 lm

Peak: 310 cd

Power: 6.3 W

PF: 1.0



Tracking number: [n/a](#)

Product name:
RB90XACTA204.535

Item number:

Date and time:
2025/5/21 15:27:27

Operator:
BOB

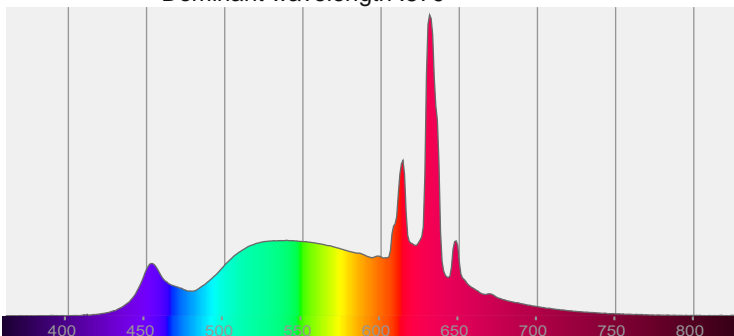
Description:
**SIZE:475X8MM
4.5W/FT,22V2835LED+KSF,19LED/C
UT,95LED/475MM,3500K**



CIE 1931
x: 0.419
y: 0.420

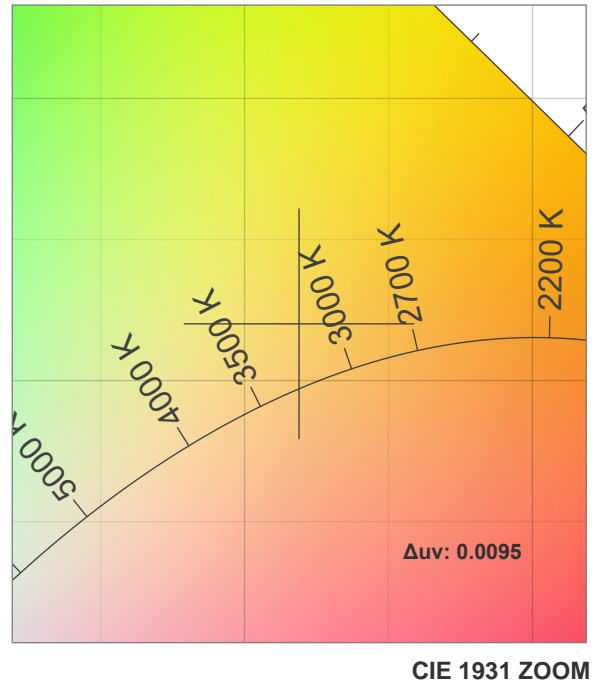
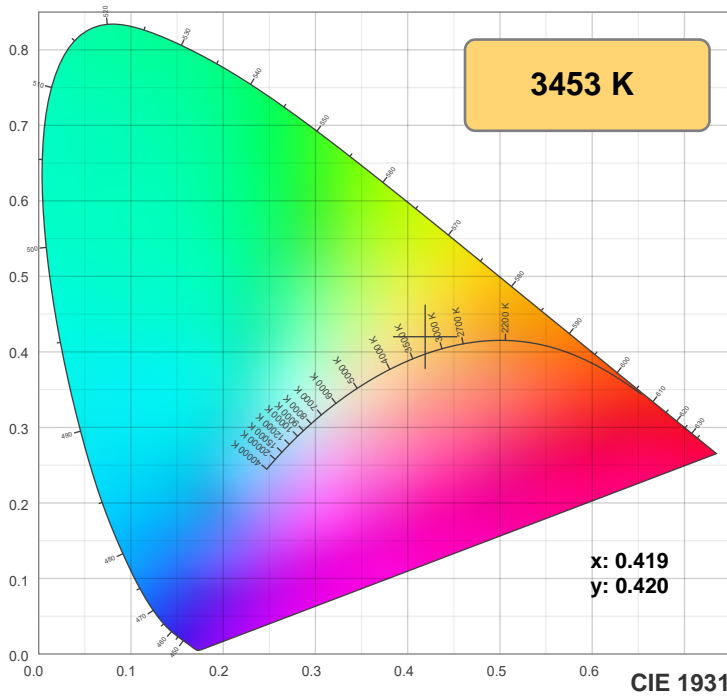
Spectra: Peak wavelength :631

Dominant wavelength :579

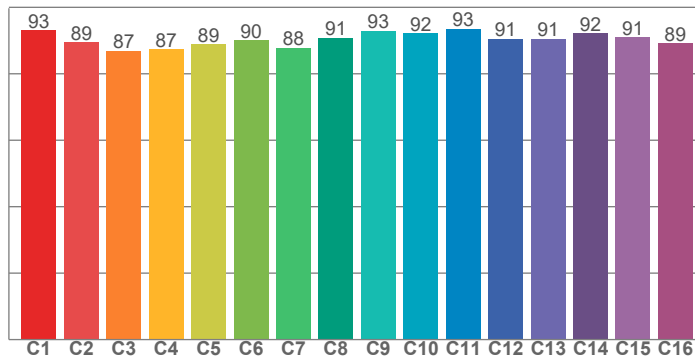


Power

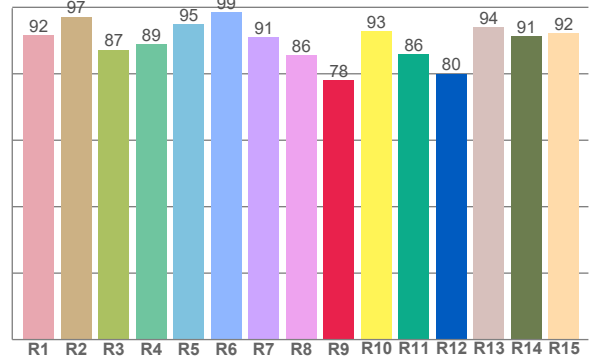
Voltage: 24.0 V
Current: 0.262 A
Frequency: 0 Hz



TM-30: 90.4



CRI: 91.9 (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
91.6	97.2	87.2	88.8	94.9	98.6	91.1	85.5	78.0	92.9	85.8	80.0	94.0	91.3	92.2

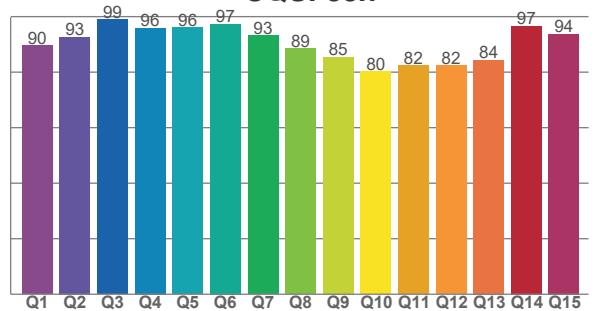
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.0	89.4	86.9	87.3	88.8	90.0	87.8	90.8	92.9	92.2	93.5	90.5	90.6	92.3	91.0	89.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89.5	92.6	98.9	95.9	96.0	97.4	93.2	88.5	85.4	80.1	82.4	82.4	84.4	96.6	93.7

CQS: 88.7



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
3453 K	91.9	78.0	90.4	99.2	88.7	0.419	0.420	0.233	0.350	0.0095

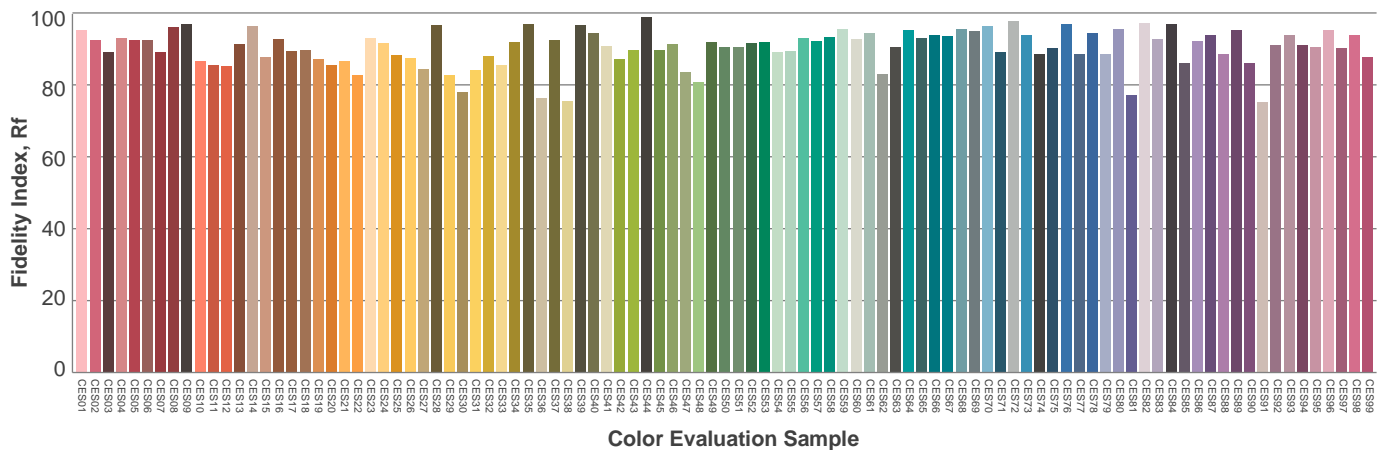
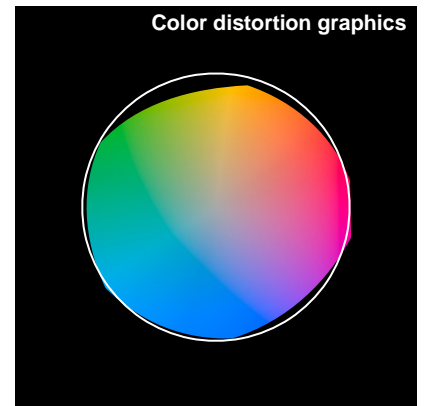
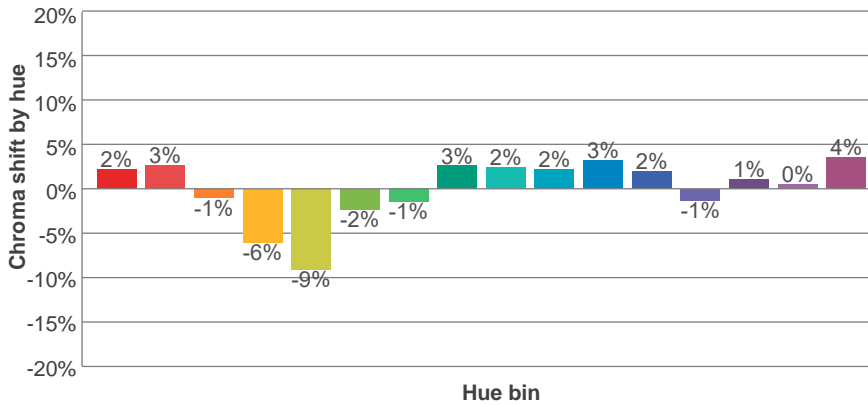
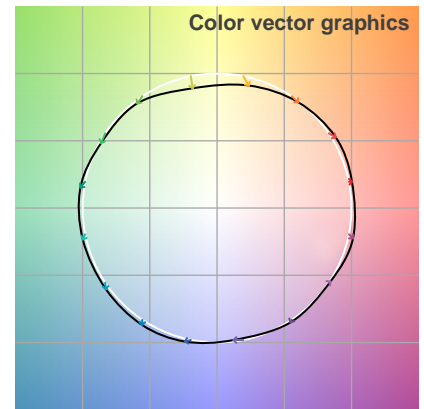
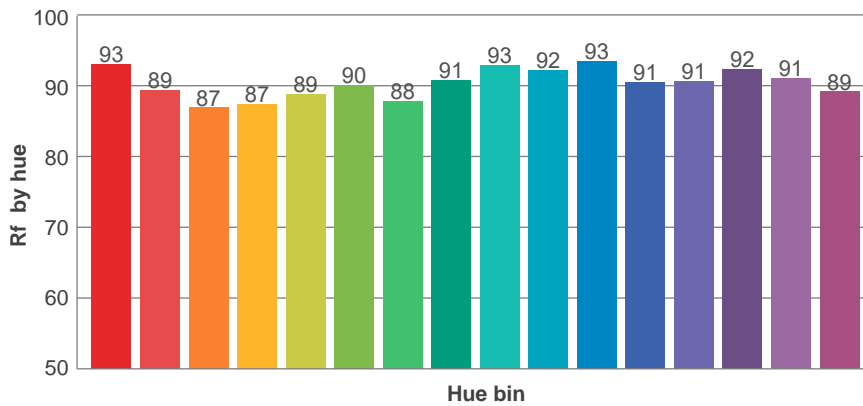
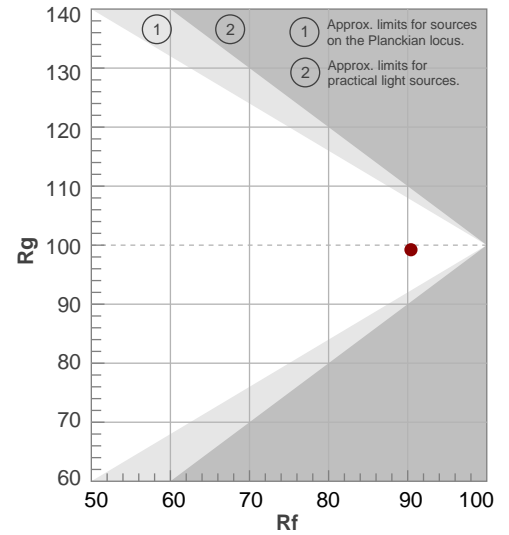
Rf 90.4

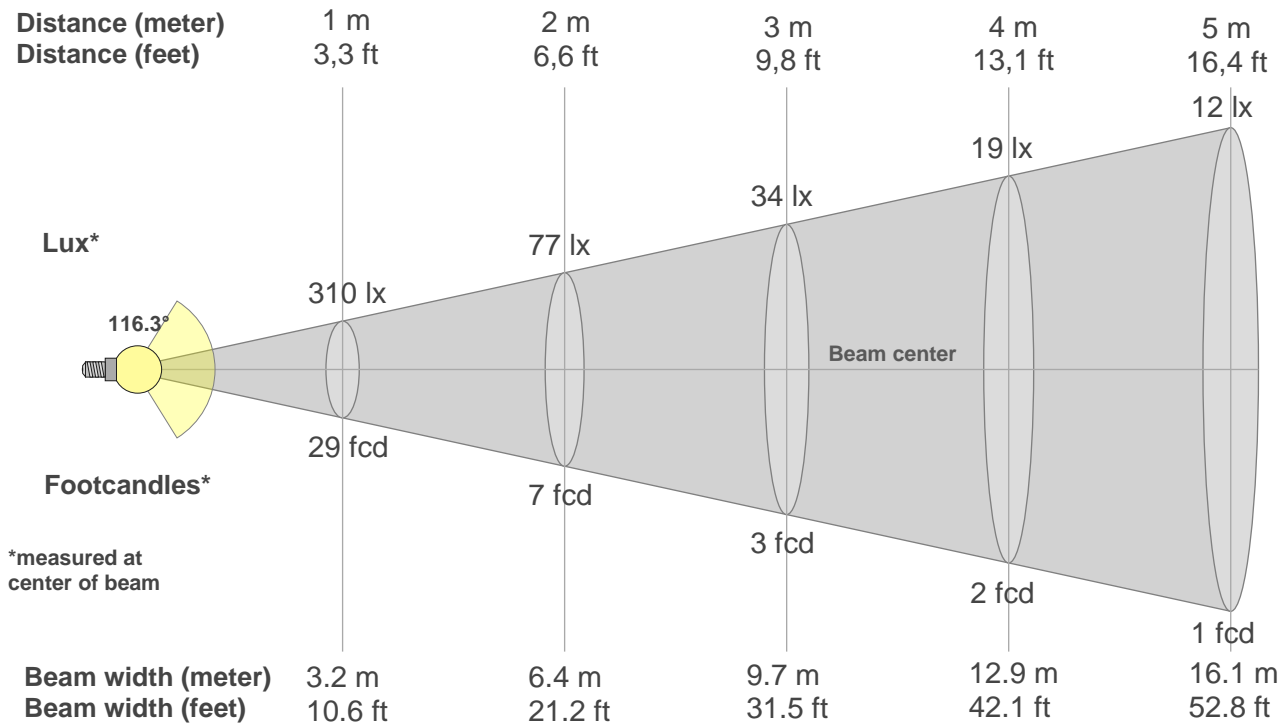
Fidelity index Rf

Rg 99.2

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	93	2%	0%
2	89	3%	-5%
3	87	-1%	-6%
4	87	-6%	-5%
5	89	-9%	0%
6	90	-2%	6%
7	88	-1%	8%
8	91	3%	5%
9	93	2%	3%
10	92	2%	4%
11	93	3%	2%
12	91	2%	-4%
13	91	-1%	-7%
14	92	1%	-2%
15	91	0%	1%
16	89	4%	-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
310lx	77lx	34lx	19lx	12lx	9lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
28.8fcd	7.2fcd	3.2fcd	1.8fcd	1.2fcd	0.8fcd	0.6fcd	0.4fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

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°
310	308	305	299	290	280	266	251	233	214	192	169	144	117	89	62	36	15	3	1
100%	100%	99%	96%	94%	90%	86%	81%	75%	69%	62%	55%	46%	38%	29%	20%	12%	5%	1%	0%

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°
310	308	304	298	290	279	267	252	234	215	194	171	147	120	93	65	39	17	3	1
100%	99%	98%	96%	94%	90%	86%	81%	76%	70%	63%	55%	47%	39%	30%	21%	13%	5%	1%	0%

Intensities in 180° c-plane

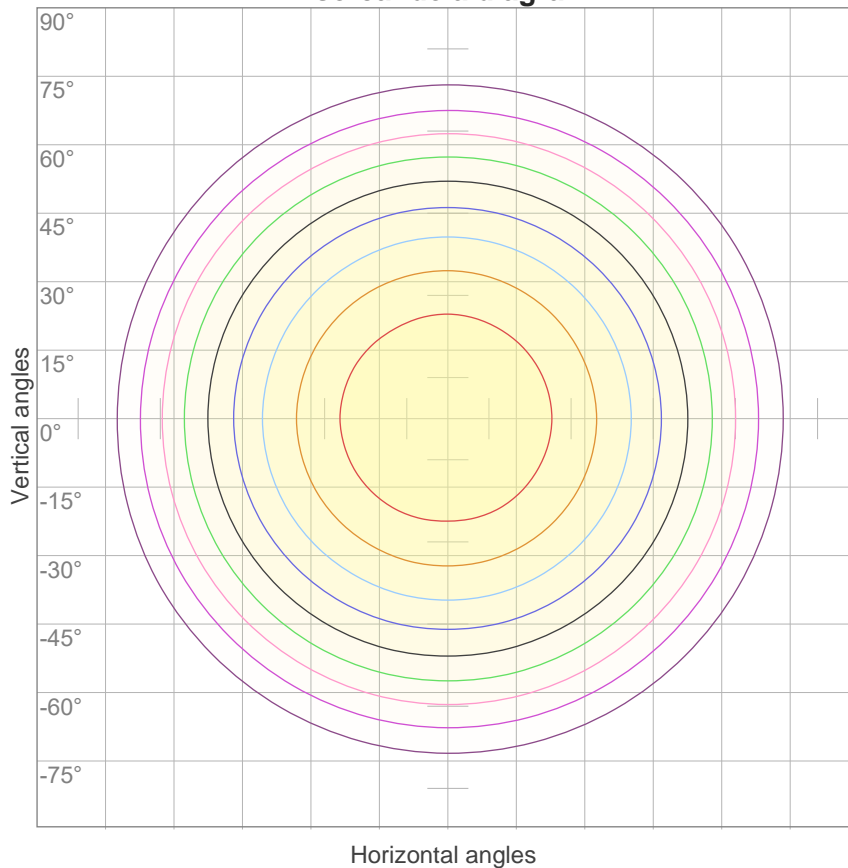
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
310	308	305	299	289	278	265	250	233	213	192	169	144	118	91	63	37	16	4	1
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	20%	12%	5%	1%	0%

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°
310	309	306	300	292	282	269	254	237	217	196	172	146	119	90	61	33	12	1	1
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	63%	56%	47%	38%	29%	20%	11%	4%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116.3°	162.5°	175.9°	77.5%	52.1%

iso-candela diagram



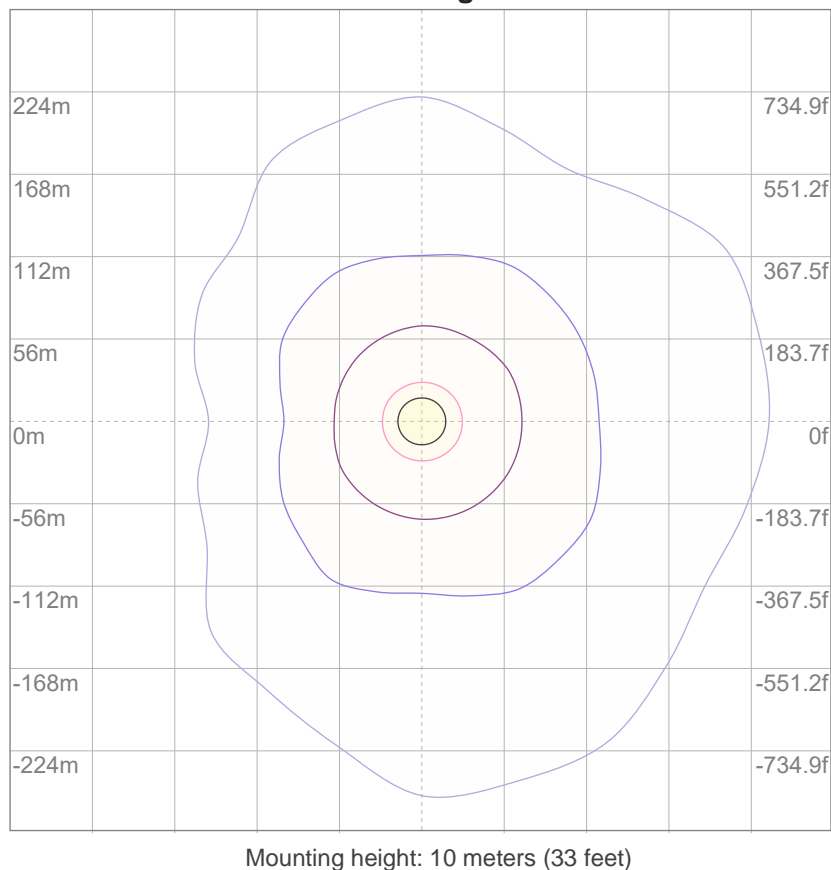
10%	31 cd
20%	62 cd
30%	93 cd
40%	124 cd
50%	155 cd
60%	186 cd
70%	217 cd
80%	248 cd
90%	279 cd

Conditions:

Number of c-planes: 12

Candela at center: 310 cd

iso-lux diagram



3%	92.9m lx
5%	0.155 lx
10%	0.310 lx
30%	0.929 lx
50%	1.55 lx

Conditions:

Number of c-planes: 12

Lux at center: 3.10 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
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 927 lm total luminous flux										

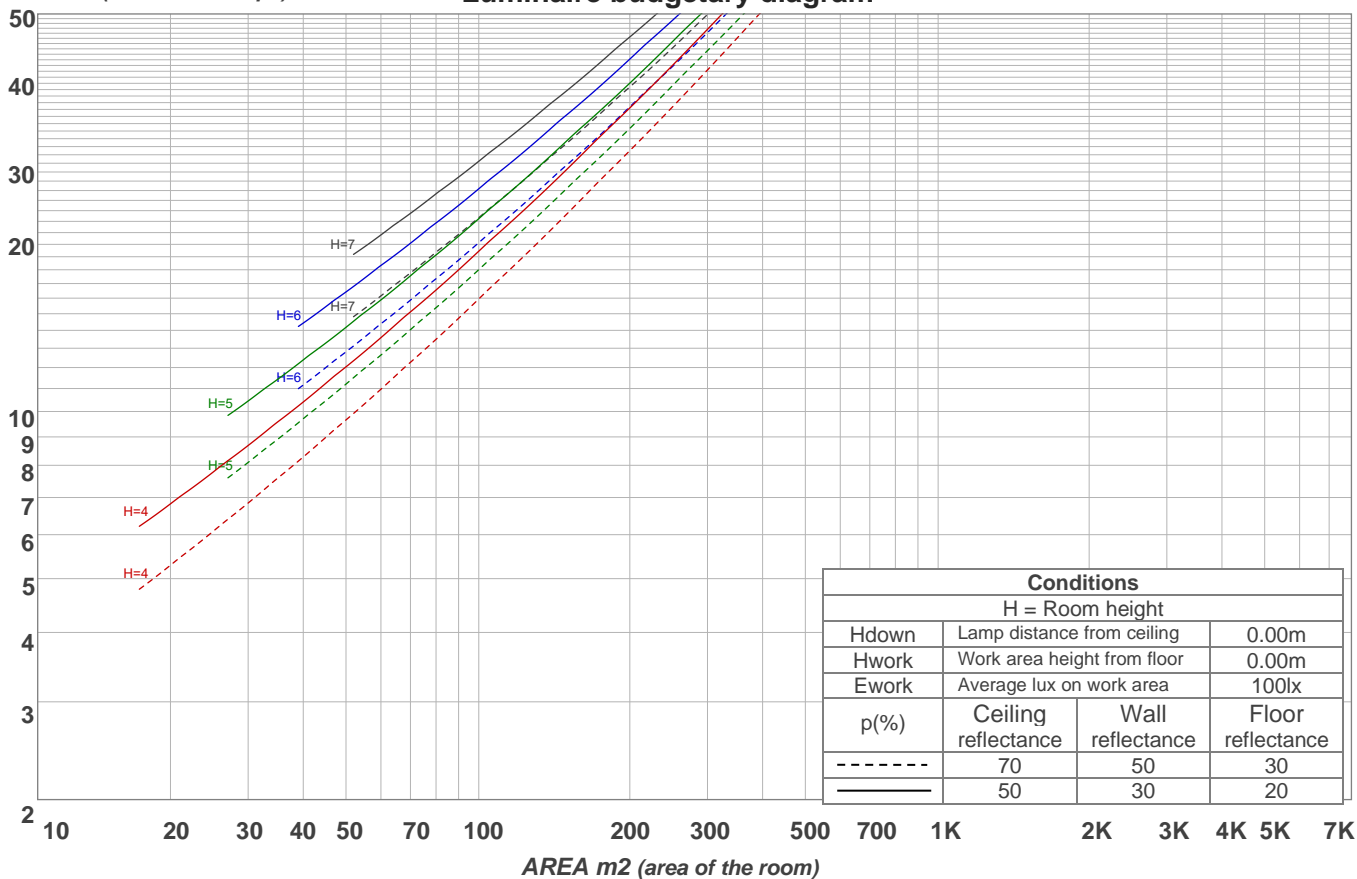
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	104	99	95	106	101	97	94	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	43	39	37
7	64	51	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	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°
29.3 lm	84.4 lm	129 lm	157 lm	166 lm	152 lm	117 lm	66.6 lm	18.5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.62 lm	0.845 lm	0.818 lm	0.792 lm	0.761 lm	0.662 lm	0.531 lm	0.345 lm	0.125 lm

LCS table

BUG rating:	B1 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	121.3	13.1%
Medium(30-60):	237.4	25.6%
High(60-80):	91.5	9.9%
Very high(80-90):	9.3	1%
Back light		
Low(0-30):	121.2	13.1%
Medium(30-60):	237.3	25.6%
High(60-80):	92.3	10%
Very high(80-90):	9.7	1%
Uplight		
Low(90-100):	1.8	0.2%
High(100-180):	4.9	0.5%

LCS graph

