

Light efficiency:

64 Lumen/Watt

Light quality:

CRI: 95.7

Color temperature:

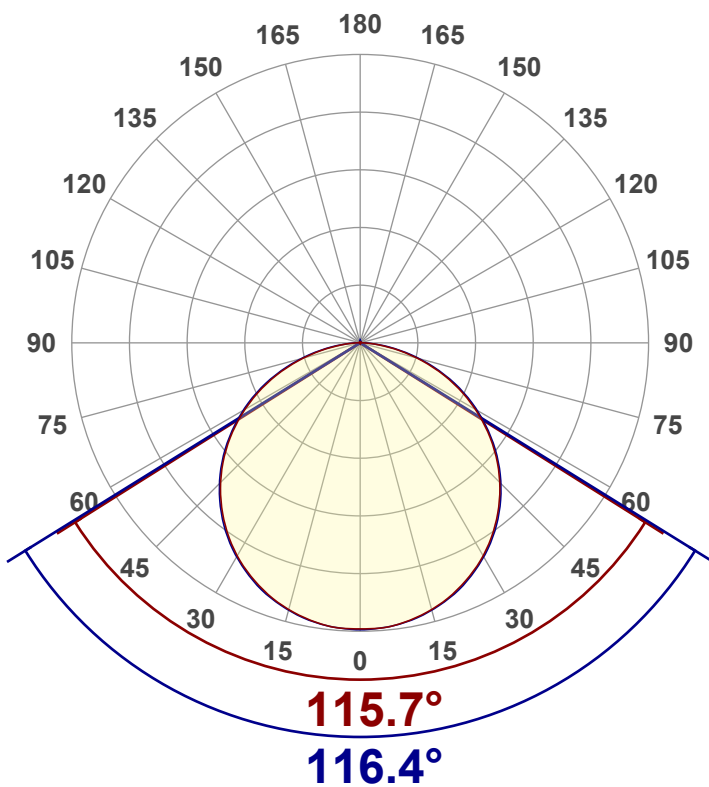
2476 K

Output: 522 lm

Peak: 174 cd

Power: 8.1 W

PF: 1.0



Tracking number: [n/a](#)

Product name:  
**RB0WD205.22029-ALLON**

Item number:  
**RB0WD205.22029**

Date and time:  
**2025/5/7 16:43:35**

Operator:  
**bob**

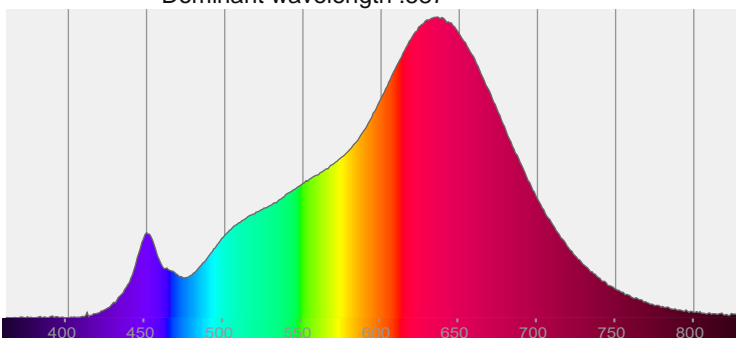
Description:  
**SIZE:500x10**  
**2000K+2900K**  
**LENGTH:0.5M**



CIE 1931  
x: 0.473  
y: 0.404

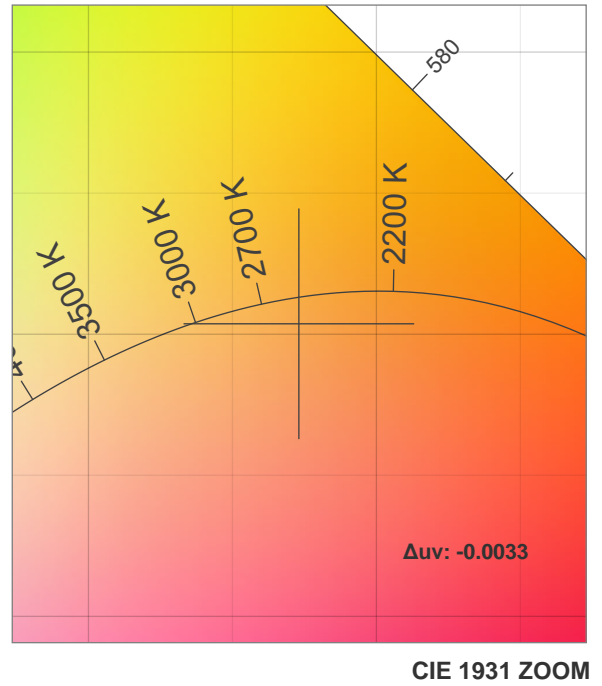
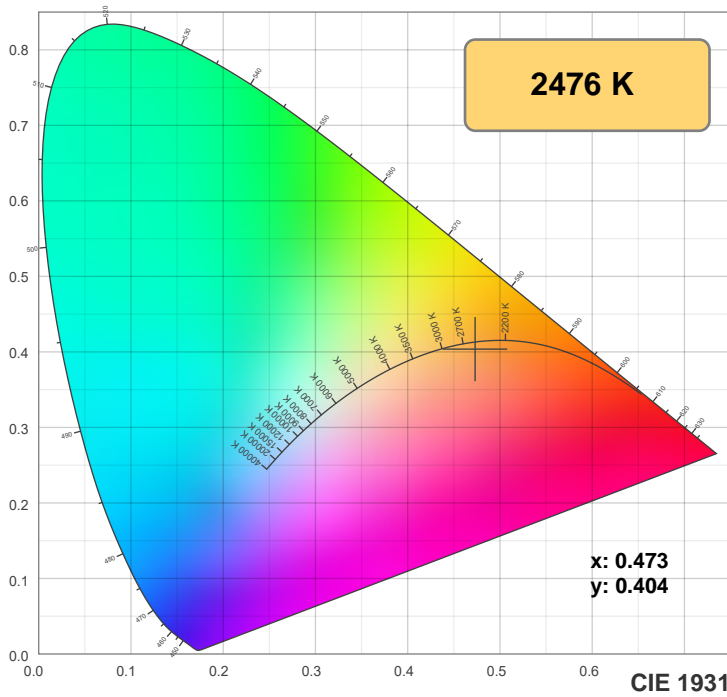
**Spectra:** Peak wavelength :636

Dominant wavelength :587

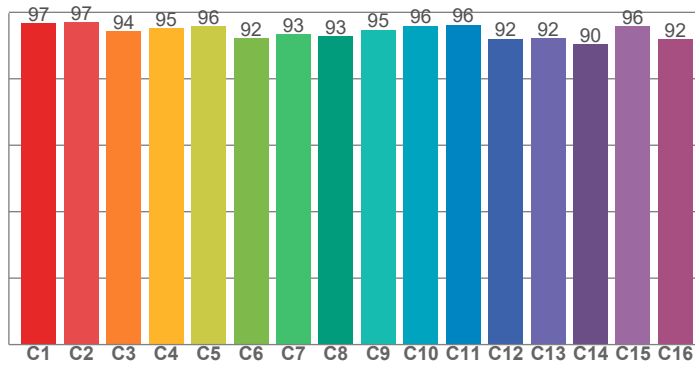


**Power**

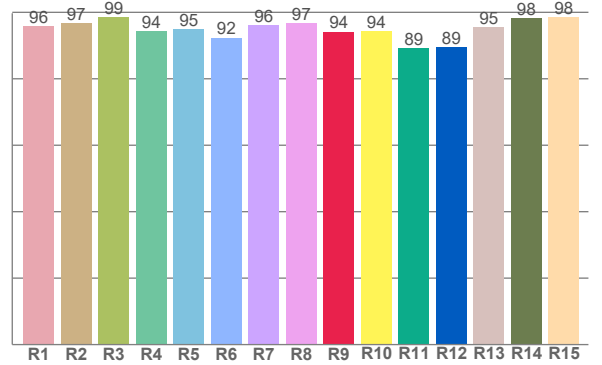
Voltage: 24.0 V  
Current: 0.339 A  
Frequency: 0 Hz



**TM-30: 94.6**



**CRI: 95.7 (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
95.9	96.8	98.7	94.2	94.8	92.4	96.3	96.8	94.2	94.3	89.3	89.4	95.4	98.1	98.5

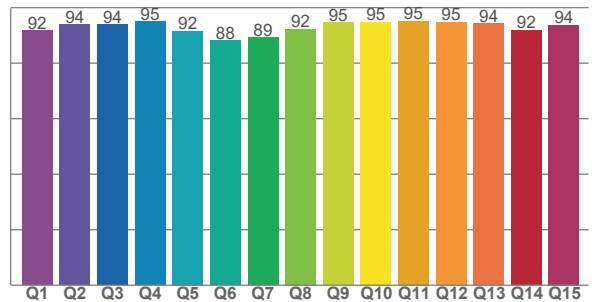
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.6	97.0	94.3	95.2	95.8	92.2	93.4	92.8	94.8	96.0	96.2	92.1	92.1	90.5	95.8	91.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.8	93.9	93.8	94.9	91.5	88.1	89.2	92.4	94.6	94.9	95.2	94.9	94.3	91.9	93.8

**CQS: 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
2476 K	95.7	94.2	94.6	104.6	92.4	0.473	0.404	0.274	0.351	-0.0033

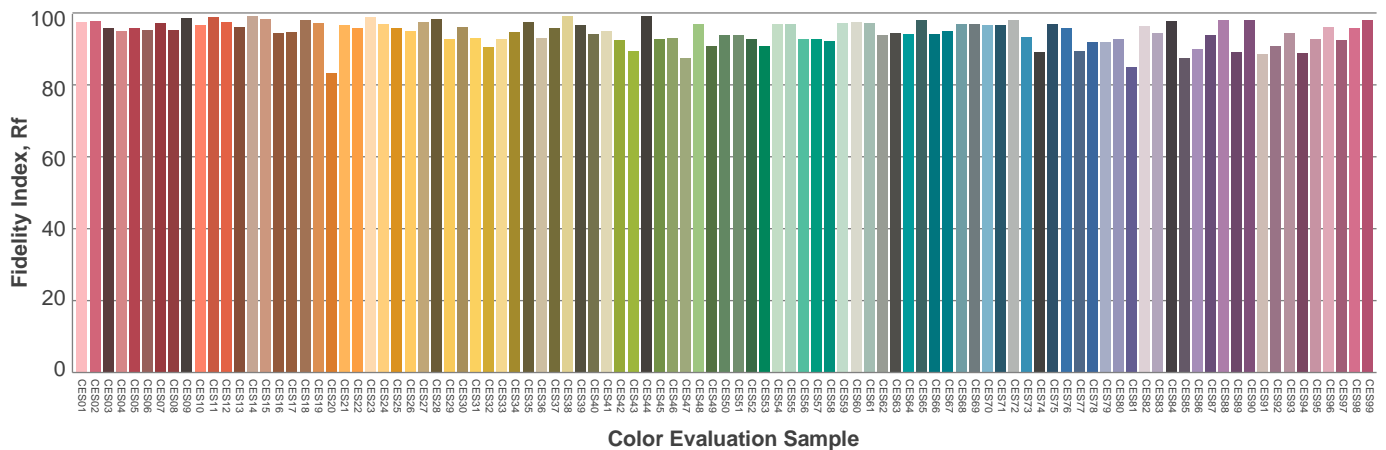
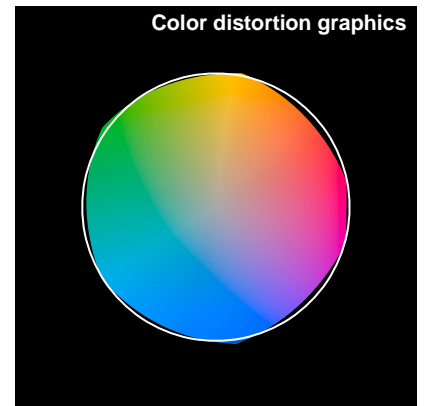
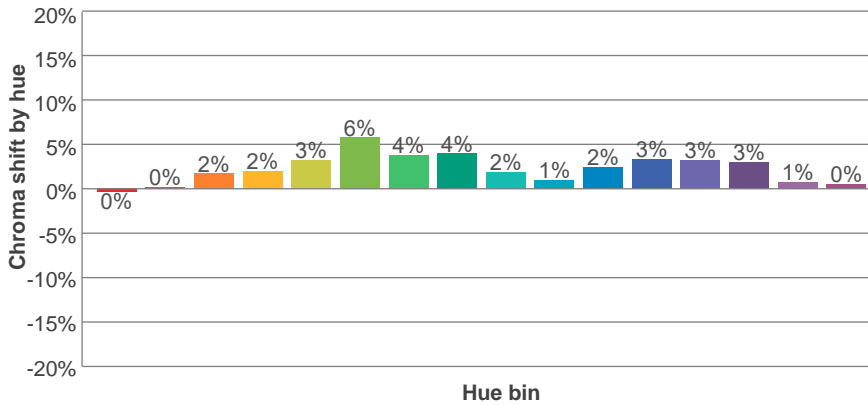
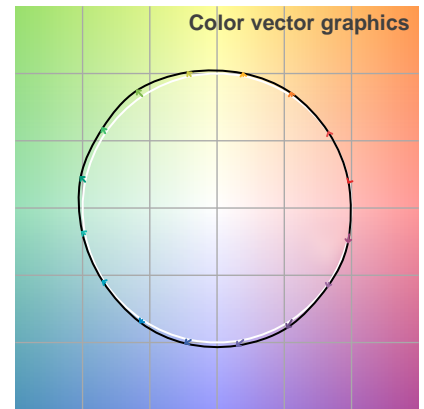
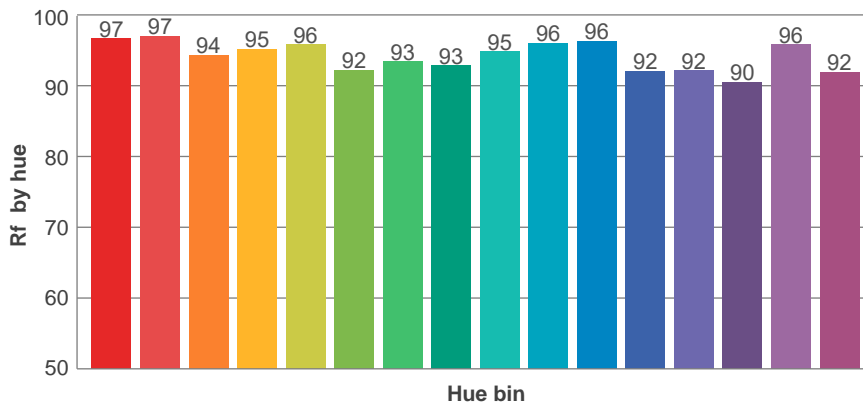
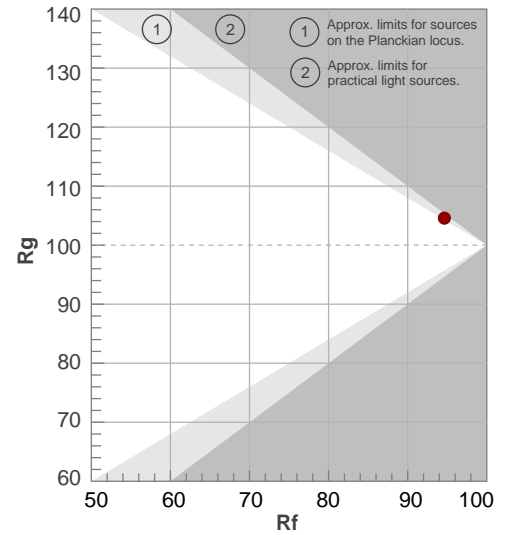
**Rf 94.6**

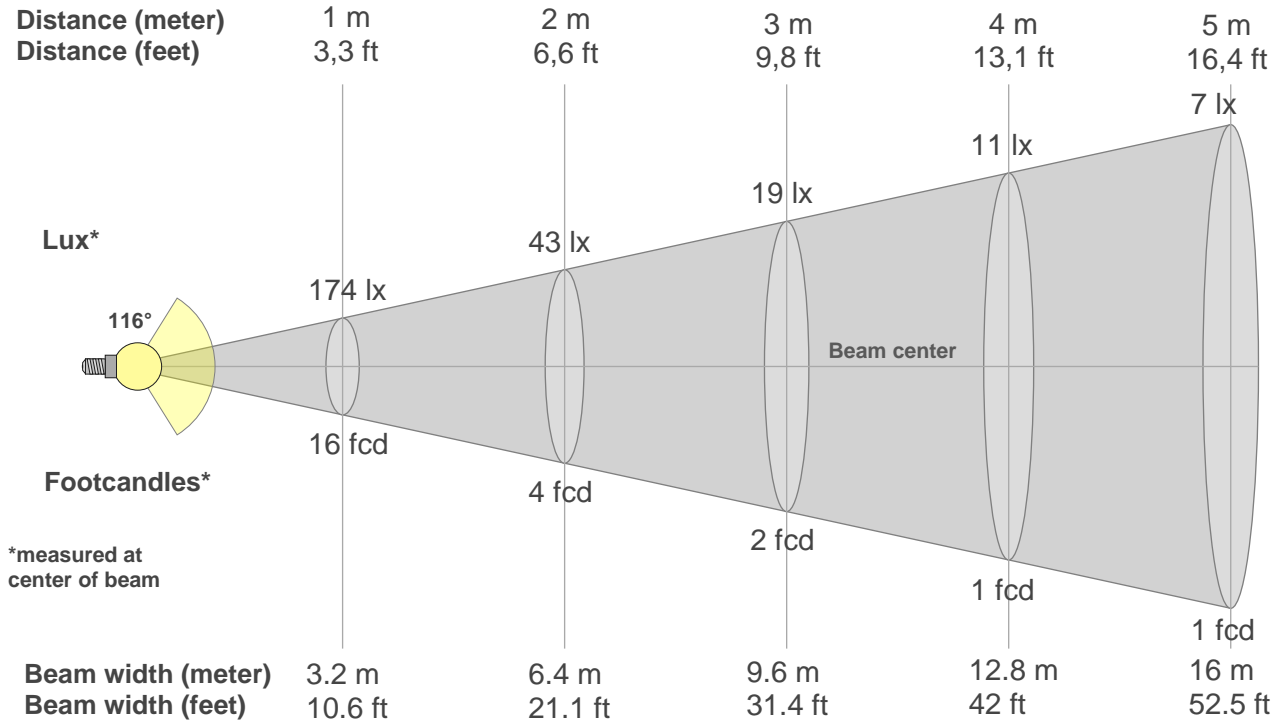
Fidelity index Rf

**Rg 104.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	97	0%	0%
2	97	0%	1%
3	94	2%	2%
4	95	2%	1%
5	96	3%	2%
6	92	6%	1%
7	93	4%	-2%
8	93	4%	-3%
9	95	2%	-2%
10	96	1%	-2%
11	96	2%	0%
12	92	3%	-3%
13	92	3%	-5%
14	90	3%	-6%
15	96	1%	-3%
16	92	0%	-6%





## 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
174lx	43lx	19lx	11lx	7lx	5lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx
16.1fcd	4fcd	1.8fcd	1fcd	0.6fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	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°
174	173	171	167	162	156	149	140	130	120	108	95	81	66	51	36	21	9	2	0
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	21%	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°
174	173	171	168	163	157	150	141	131	121	109	96	82	68	52	37	23	11	3	0
100%	100%	98%	96%	94%	90%	86%	81%	76%	69%	62%	55%	47%	39%	30%	21%	13%	6%	2%	0%

## Intensities in 180° c-plane

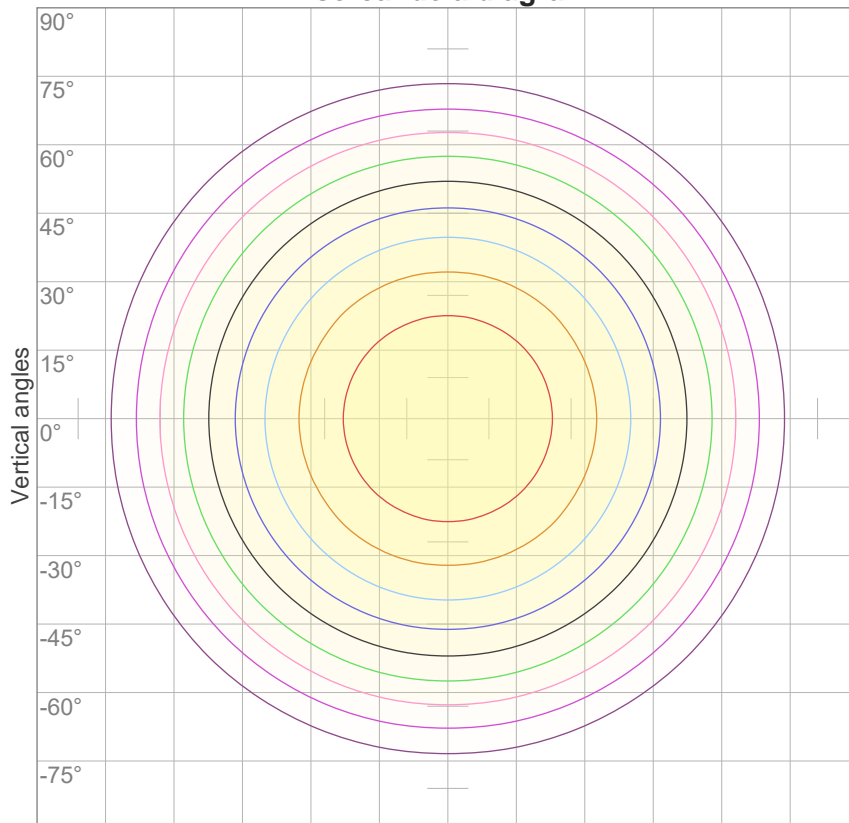
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
174	173	171	167	162	156	149	140	130	120	108	95	81	66	51	36	21	9	2	0
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	21%	12%	5%	1%	0%

## 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°
174	173	171	168	163	157	150	141	131	121	109	96	82	68	52	37	23	11	3	0
100%	100%	98%	96%	94%	90%	86%	81%	76%	69%	62%	55%	47%	39%	30%	21%	13%	6%	2%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116°	163.9°	177.2°	77.0%	51.8%

iso-candela diagram



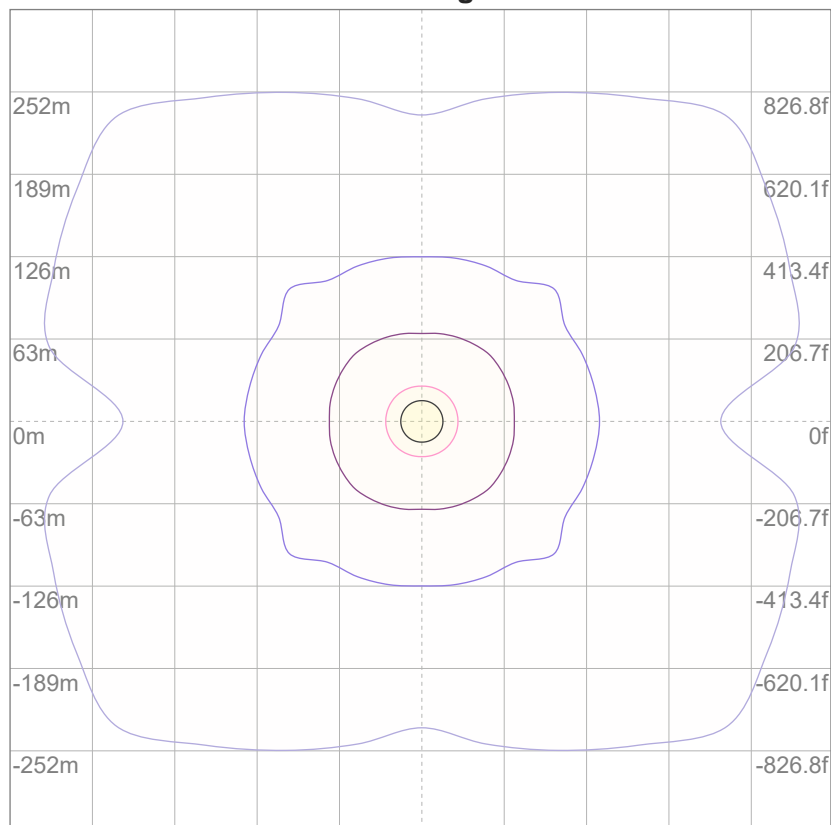
10%	17 cd
20%	35 cd
30%	52 cd
40%	70 cd
50%	87 cd
60%	104 cd
70%	122 cd
80%	139 cd
90%	156 cd

Conditions:

Number of c-planes: 8

Candela at center: 174 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	52.1m lx
5%	86.9m lx
10%	0.174 lx
30%	0.521 lx
50%	0.869 lx

Conditions:

Number of c-planes: 8

Lux at center: 1.74 lx

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

**Glare evaluation according to UGR**

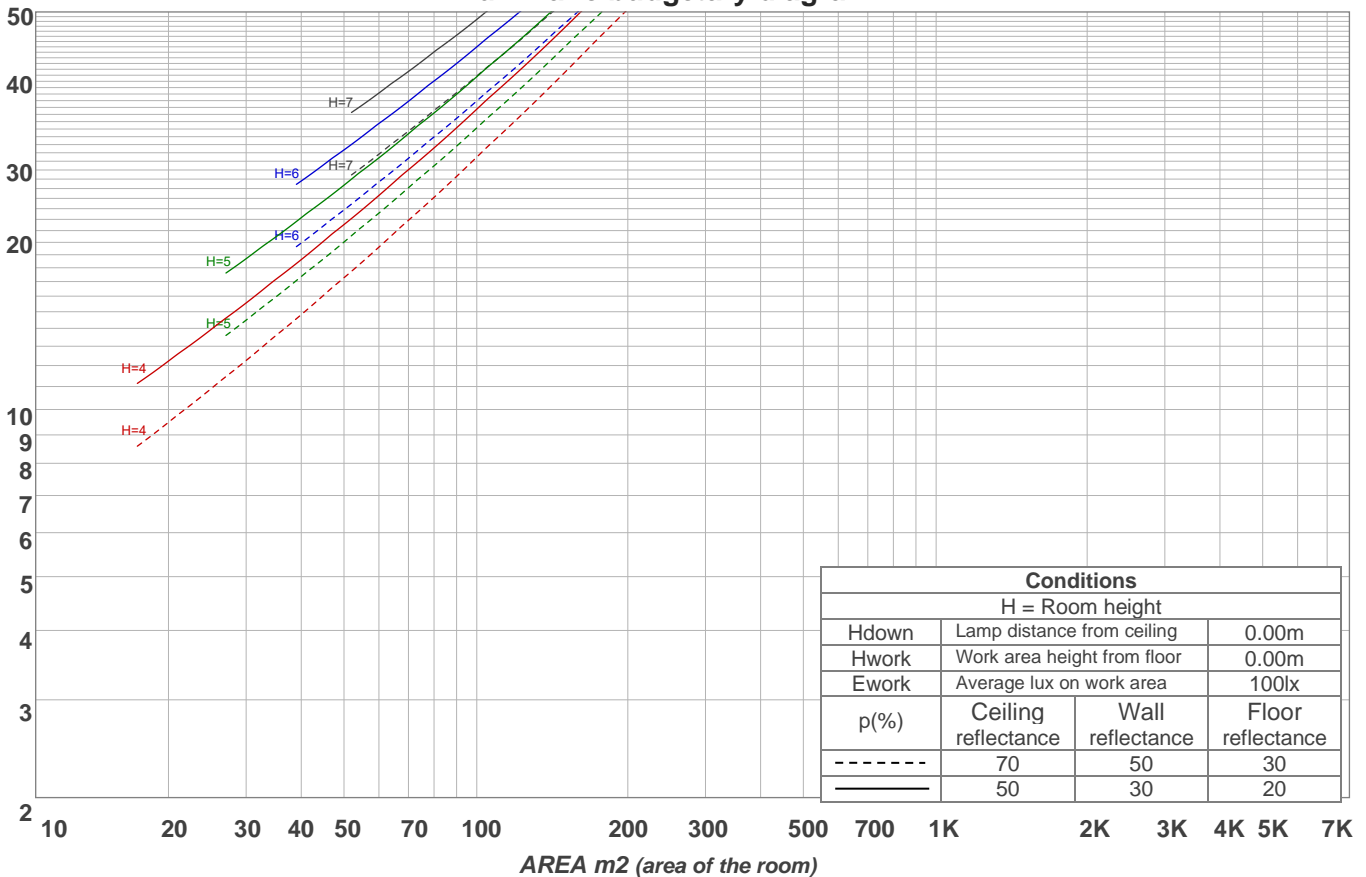
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23.6	24.8	23.8	25.1	25.4	24.4	25.6	24.6	25.9	26.2
	3H	24.8	26.1	25.3	26.4	26.6	25.9	27.2	26.3	27.5	27.7
	4H	25.3	26.6	25.7	26.8	27.1	26.6	27.8	27.0	28.1	28.4
	6H	25.7	26.8	26.0	27.1	27.4	27.2	28.2	27.5	28.5	28.9
	8H	25.8	26.8	26.1	27.1	27.5	27.3	28.4	27.7	28.7	29.1
	12H	25.8	26.8	26.1	27.1	27.6	27.4	28.4	27.8	28.8	29.2
4H	2H	24.2	25.4	24.6	25.7	26.0	24.8	26.1	25.3	26.3	26.6
	3H	25.8	26.8	26.2	27.1	27.6	26.7	27.7	27.1	28.0	28.5
	4H	26.3	27.2	26.7	27.6	28.2	27.4	28.3	27.8	28.7	29.3
	6H	26.7	27.6	27.2	27.9	28.3	28.0	28.9	28.5	29.2	29.6
	8H	26.8	27.6	27.3	28.0	28.4	28.2	29.0	28.7	29.4	29.8
	12H	26.8	27.5	27.3	27.9	28.4	28.3	29.0	28.8	29.5	29.9
8H	4H	26.6	27.4	27.1	27.8	28.2	27.6	28.4	28.1	28.8	29.1
	6H	27.1	27.7	27.6	28.2	28.7	28.3	28.9	28.8	29.4	29.9
	8H	27.3	27.8	27.8	28.3	29.0	28.6	29.1	29.1	29.7	30.3
	12H	27.4	27.8	27.9	28.3	29.0	28.8	29.3	29.4	29.8	30.4
12H	4H	26.6	27.3	27.1	27.7	28.2	27.5	28.2	28.1	28.7	29.2
	6H	27.2	27.7	27.7	28.2	28.9	28.3	28.9	28.8	29.4	30.1
	8H	27.4	27.8	27.9	28.3	28.9	28.6	29.1	29.2	29.6	30.2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.1 / -0.1				
S = 1.5H		0.2 / -0.3					0.1 / -0.2				
S = 2.0H		0.5 / -0.7					0.5 / -0.6				
CIE 117-1995. Corrected glare indices referring to 522 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	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	25	51	38	31	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°
16.4 lm	47.3 lm	72.2 lm	88.1 lm	92.6 lm	85.0 lm	66.2 lm	39.0 lm	12.0 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.929 lm	0.308 lm	0.302 lm	0.343 lm	0.342 lm	0.296 lm	0.242 lm	0.170 lm	0.056 lm

**LCS table**

BUG rating:	B0 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	68	13%
Medium(30-60):	132.8	25.4%
High(60-80):	52.6	10.1%
Very high(80-90):	6	1.2%
Back light		
Low(0-30):	68	13%
Medium(30-60):	132.8	25.4%
High(60-80):	52.6	10.1%
Very high(80-90):	6	1.2%
Uplight		
Low(90-100):	1	0.2%
High(100-180):	2.1	0.4%

**LCS graph**

