

## FITA SLED8240 20WM 4000K 95 - 1m



Fluxo luminoso – 1515 lm/m

Potência – 21,0 W/m

Intensidade pico – 509cd

CCT – 4030K

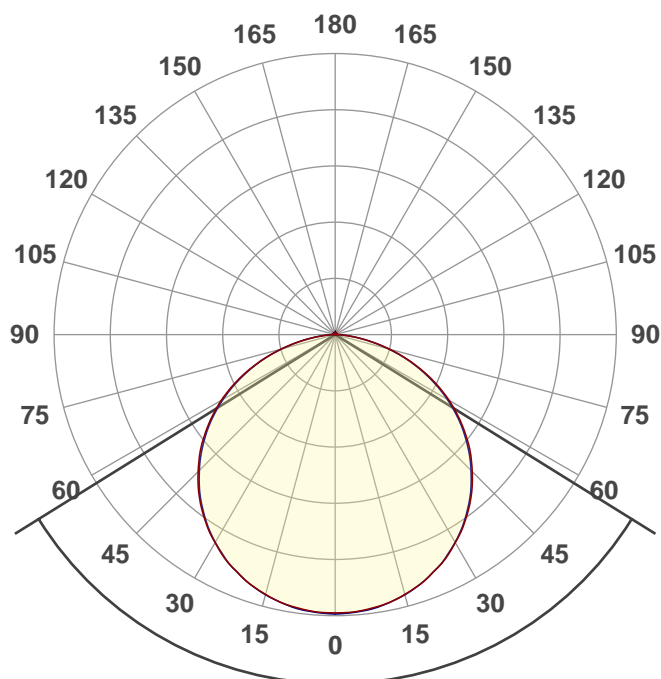


IRC – 98,5

Coordenada CIE 1931 – x- 0,379 y- 0,376

Data do ensaio

21/07/2021 09:05:48



Facho de abertura

**116,2°**

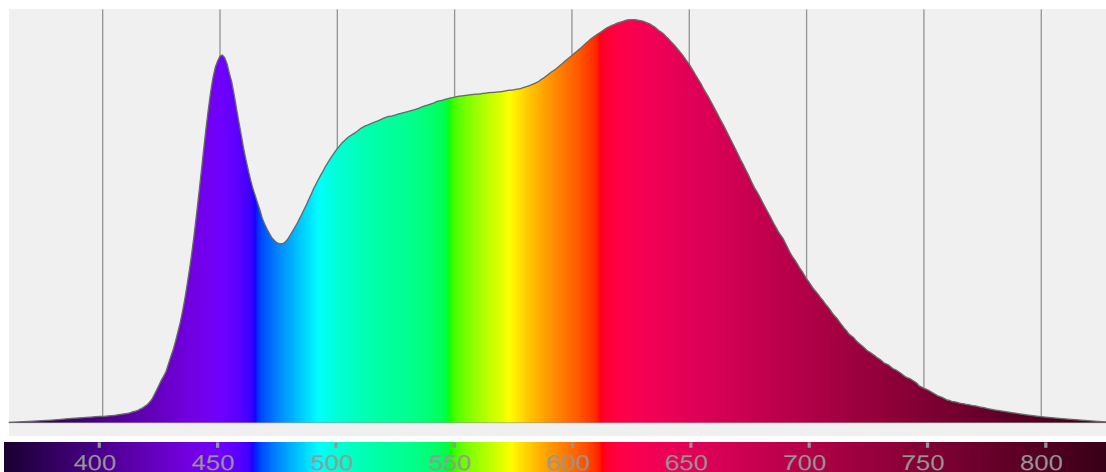
**Rf 94,9**

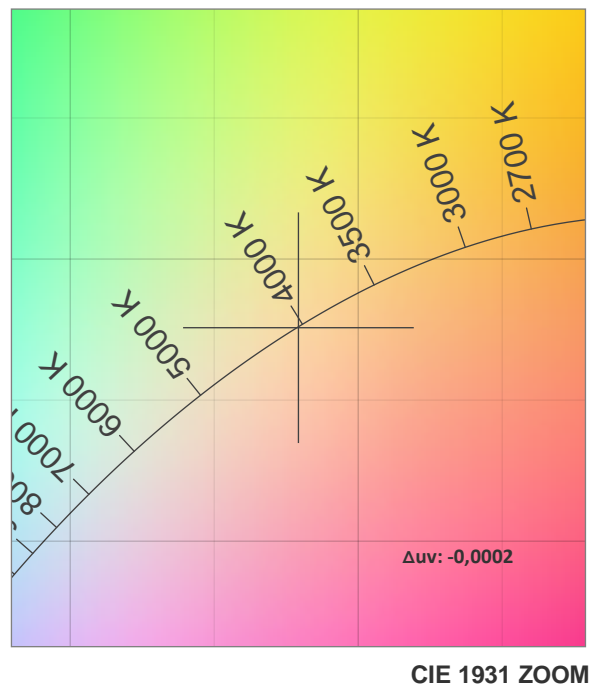
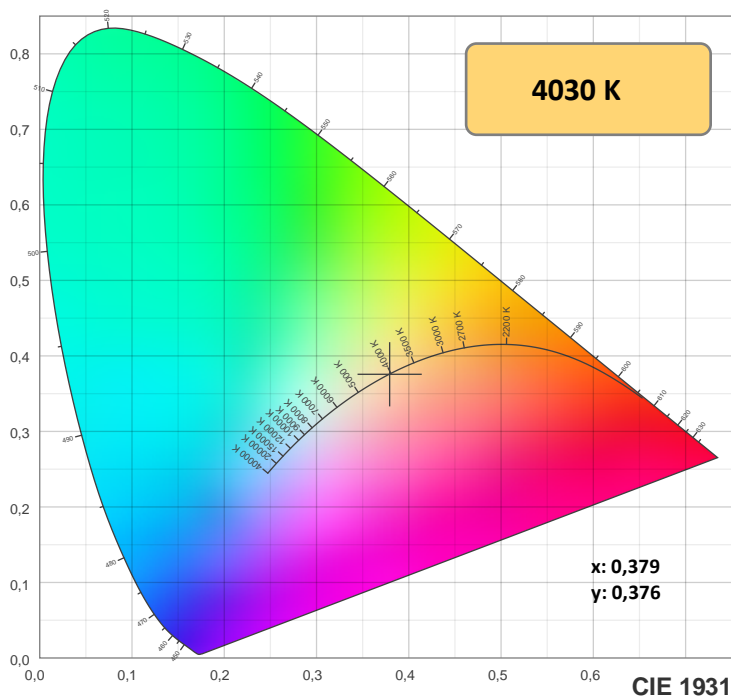
Fidelity index Rf

**Rg 100,5**

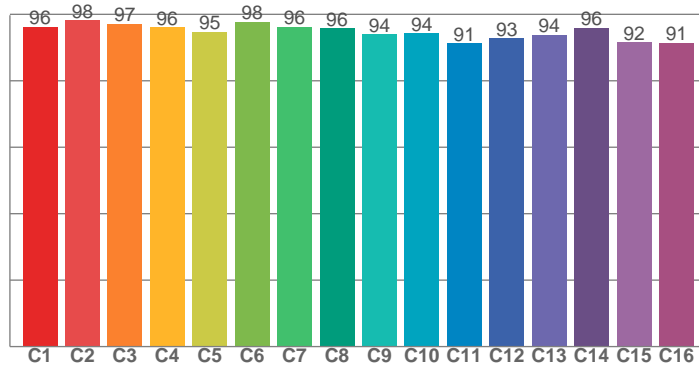
Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	96	-1%	0%
2	98	0%	0%
3	97	0%	0%
4	96	-2%	-1%
5	95	-3%	0%
6	98	0%	1%
7	96	-1%	2%
8	96	0%	3%
9	94	0%	5%
10	94	0%	4%
11	91	3%	5%
12	93	3%	1%
13	94	3%	-3%
14	96	2%	-1%
15	92	2%	-4%
16	91	1%	-5%

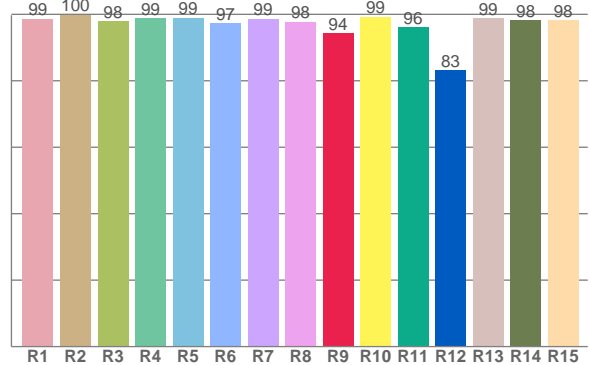




TM-30: 94,9



CRI: 98,5 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,6	99,8	97,9	98,9	99,0	97,2	98,6	97,7	94,4	99,3	96,1	83,2	98,9	98,3	98,1

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,3	98,2	97,1	96,0	94,8	97,8	96,3	95,8	94,0	94,3	91,2	92,8	93,9	95,9	91,6	91,4

## Parametros de cor

Temperatura de cor	Índice de reprodução de cor	Reprodução de cor vermelho R9	Color fidelity	Color gamut	Color quality scale	Coordenada de cor cie 1931	Coordenada de cor cie 1931	Coordenada de cor	Coordenada de cor	Color deviation from black body
CCT	IRC	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
4030 K	98,5	94,4	94,9	100,5	97,4	0,379	0,376	0,225	0,334	-0,0002

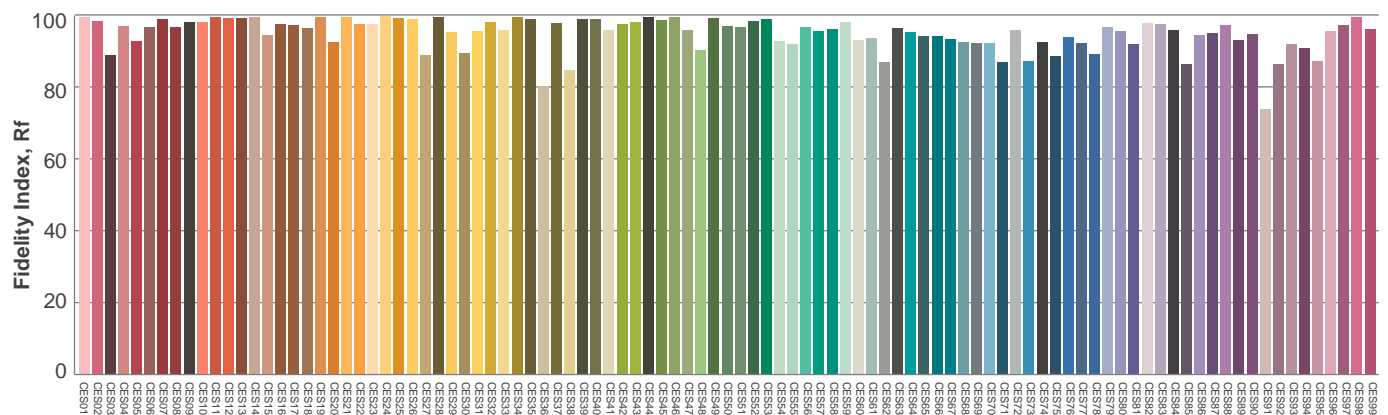
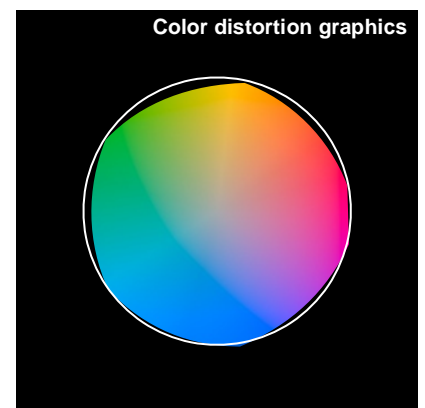
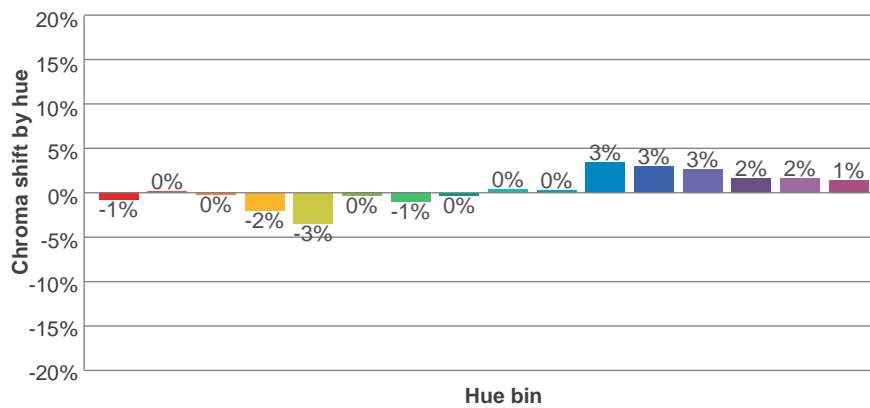
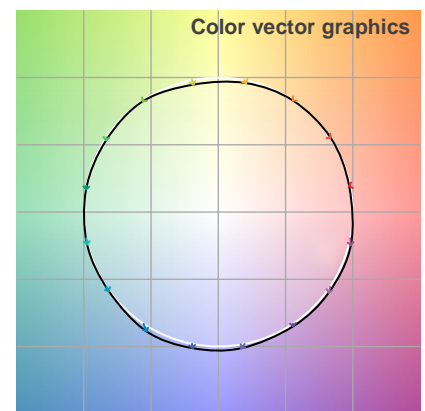
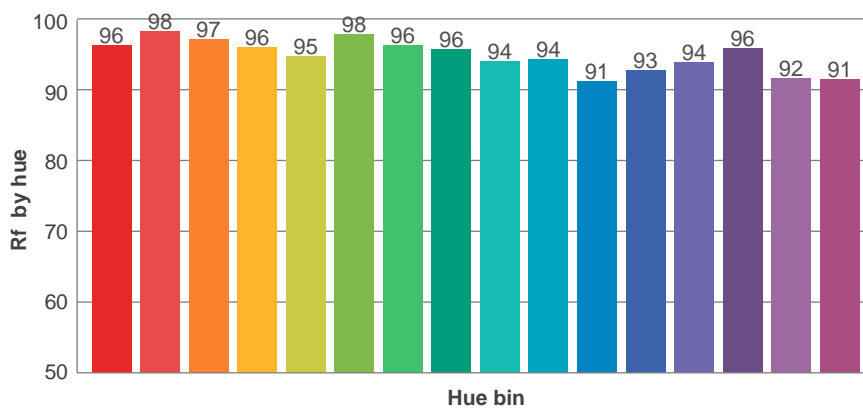
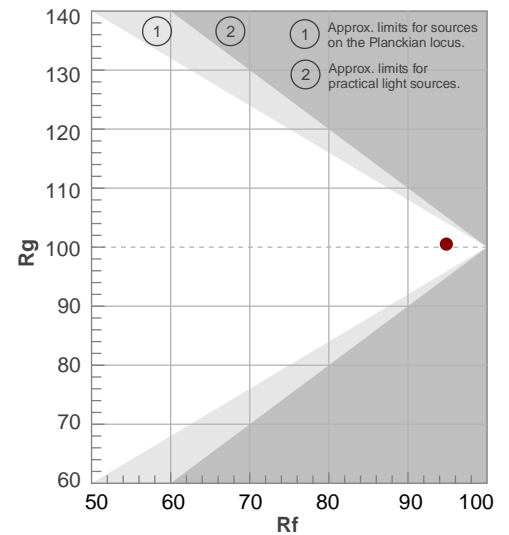
**Rf 94,9**

Fidelity index Rf

**Rg 100,5**

Gamut index Rg

Hue Bin	R <sub>i</sub>	Shifts (%)	
		Chroma	Hue
1	96	-1%	0%
2	98	0%	0%
3	97	0%	0%
4	96	-2%	-1%
5	95	-3%	0%
6	98	0%	1%
7	96	-1%	2%
8	96	0%	3%
9	94	0%	5%
10	94	0%	4%
11	91	3%	5%
12	93	3%	1%
13	94	3%	-3%
14	96	2%	-1%
15	92	2%	-4%
16	91	1%	-5%



Glare Evaluation According to UGR

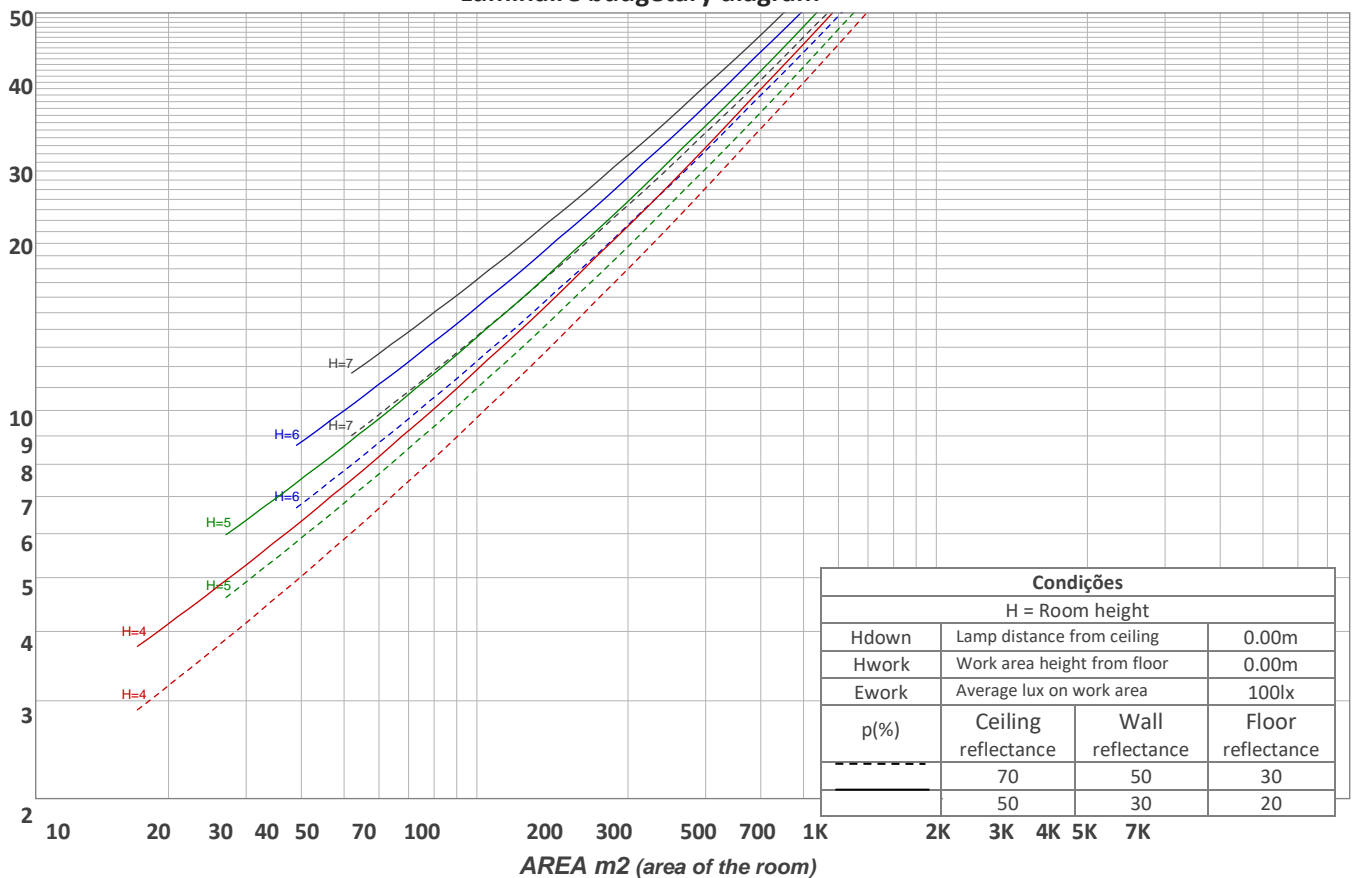
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X    Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	26,8	28,0	27,0	28,3	28,6	26,8	28,1	27,1	28,4	28,6
	3H	28,2	29,5	28,7	29,8	30,0	28,3	29,6	28,7	29,9	30,1
	4H	28,8	30,0	29,2	30,3	30,6	28,9	30,1	29,4	30,4	30,7
	6H	29,3	30,3	29,6	30,6	31,0	29,4	30,5	29,7	30,8	31,2
	8H	29,4	30,4	29,7	30,7	31,1	29,5	30,5	29,9	30,9	31,3
	12H	29,4	30,4	29,8	30,7	31,2	29,6	30,6	29,9	30,9	31,4
4H	2H	27,4	28,6	27,8	28,9	29,2	27,4	28,6	27,9	28,9	29,2
	3H	29,2	30,2	29,5	30,5	31,0	29,2	30,2	29,6	30,6	31,0
	4H	29,8	30,7	30,2	31,1	31,7	29,9	30,8	30,3	31,2	31,8
	6H	30,3	31,1	30,8	31,5	31,9	30,4	31,3	30,9	31,6	32,0
	8H	30,4	31,2	30,9	31,6	32,0	30,5	31,3	31,1	31,7	32,1
	12H	30,5	31,1	31,0	31,6	32,1	30,6	31,3	31,1	31,7	32,2
8H	4H	30,1	30,8	30,6	31,2	31,6	30,1	30,9	30,6	31,3	31,7
	6H	30,7	31,3	31,2	31,7	32,3	30,8	31,4	31,3	31,9	32,4
	8H	30,9	31,4	31,4	31,9	32,6	31,0	31,6	31,6	32,1	32,7
	12H	31,0	31,4	31,6	32,0	32,6	31,2	31,6	31,8	32,1	32,8
12H	4H	30,1	30,7	30,6	31,2	31,7	30,1	30,8	30,6	31,2	31,7
	6H	30,7	31,3	31,3	31,8	32,4	30,8	31,4	31,4	31,9	32,6
	8H	30,9	31,4	31,5	31,9	32,5	31,1	31,5	31,7	32,1	32,7
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		0,4 / -0,5					0,4 / -0,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1515 lm total luminous flux											

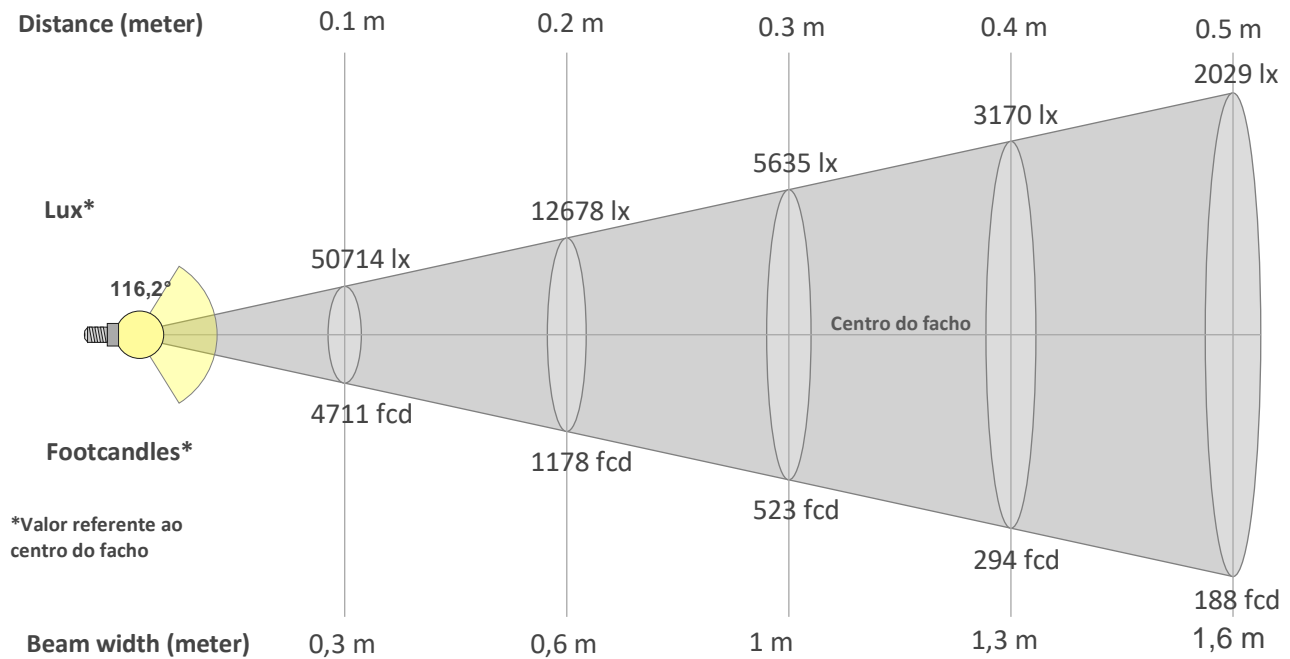
### Coeficiente de utilização

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	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	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	44	39	37
7	64	51	42	36	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	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

### Quantidade de luminárias

### Luminaire budgetary diagram





### 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
507lx	127lx	56lx	32lx	20lx	14lx	10lx	8lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx
47,1fcd	11,8fcd	5,2fcd	2,9fcd	1,9fcd	1,3fcd	1fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	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°
507	505	500	490	477	459	437	413	385	353	319	280	239	195	149	102	58	23	4	2
100%	100%	99%	97%	94%	91%	86%	81%	76%	70%	63%	55%	47%	39%	29%	20%	11%	4%	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°
507	506	500	490	476	459	437	411	382	350	315	277	236	192	147	100	57	22	4	2
100%	100%	99%	97%	94%	91%	86%	81%	75%	69%	62%	55%	46%	38%	29%	20%	11%	4%	1%	0%

### Intensities in 180° c-plane

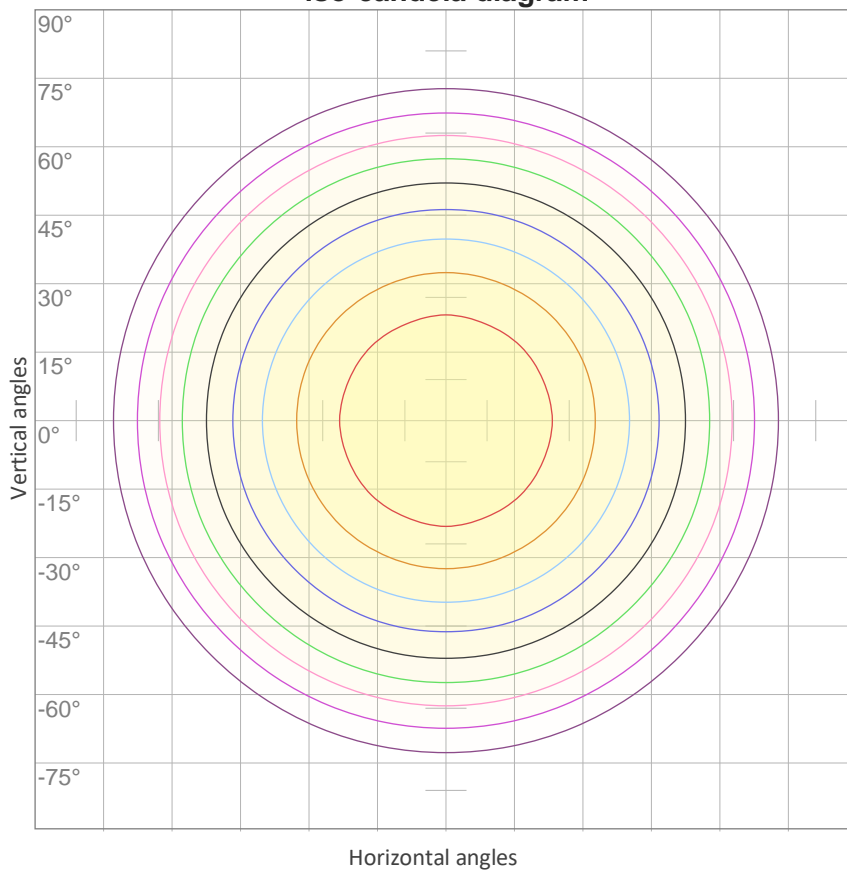
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
507	505	500	490	477	459	437	413	385	353	319	280	239	195	149	102	58	23	4	2
100%	100%	99%	97%	94%	91%	86%	81%	76%	70%	63%	55%	47%	39%	29%	20%	11%	4%	1%	0%

### 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°
507	506	500	490	476	459	437	411	382	350	315	277	236	192	147	100	57	22	4	2
100%	100%	99%	97%	94%	91%	86%	81%	75%	69%	62%	55%	46%	38%	29%	20%	11%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116,2°	161,7°	173,8°	77,6%	52,3%

**iso-candela diagram**



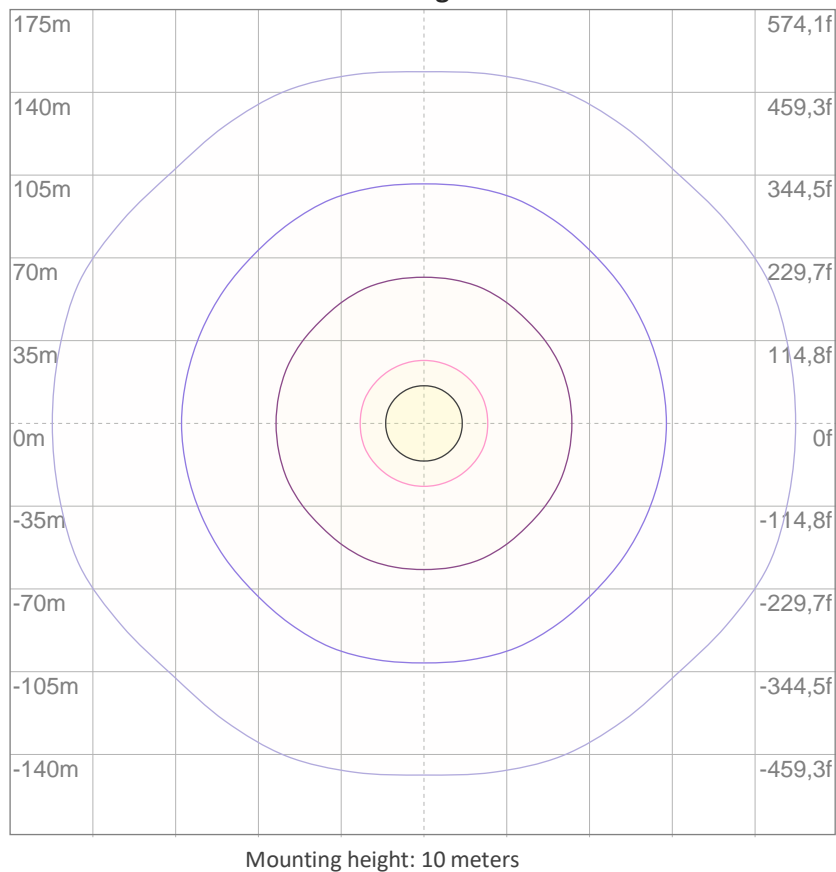
10%	51 cd
20%	101 cd
30%	152 cd
40%	203 cd
50%	254 cd
60%	304 cd
70%	355 cd
80%	406 cd
90%	456 cd

Conditions:

Number of c-planes: 16

Candela at center: 507 cd

**iso-lux diagram**



3%	0,152 lx
5%	0,254 lx
10%	0,507 lx
30%	1,52 lx
50%	2,54 lx

Conditions:

Number of c-planes: 16

Lux at center: 5,07 lx

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

**FP: 1,0**

[illegible]

**THD tensão: n/a**