

## SLED9079 - BARRA DE LED 23WM 2400K 90



As barras de LED, com potências de 18W e 23W, foram desenvolvidas para uma aplicação de alta performance. Possuem 120 ou 240 LEDs por metro, 8 temperaturas de cor e ainda a possibilidade de Tunable White. Na versão Tunable White, as temperaturas de cor vão de 1800K até 9000K e podem ser customizadas para intervalos de TCC específicos.

Fluxo luminoso – 1650 lm/m

Potência – 22,2 W/m

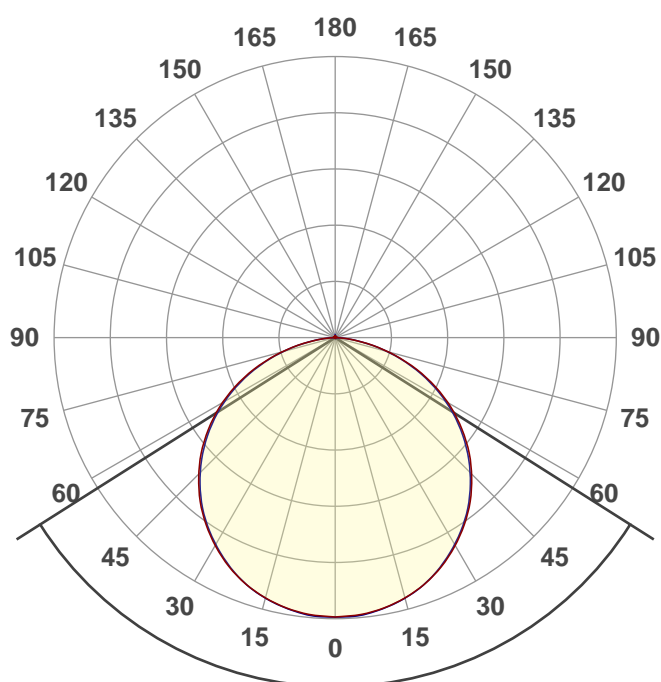
Intensidade pico – 561cd

CCT – 2378K



IRC – 97,3

Coordenada CIE 1931 – x- 0,490 y- 0,418



Facho de abertura

**115,3°**

Data do ensaio

30/09/2020 08:11:48

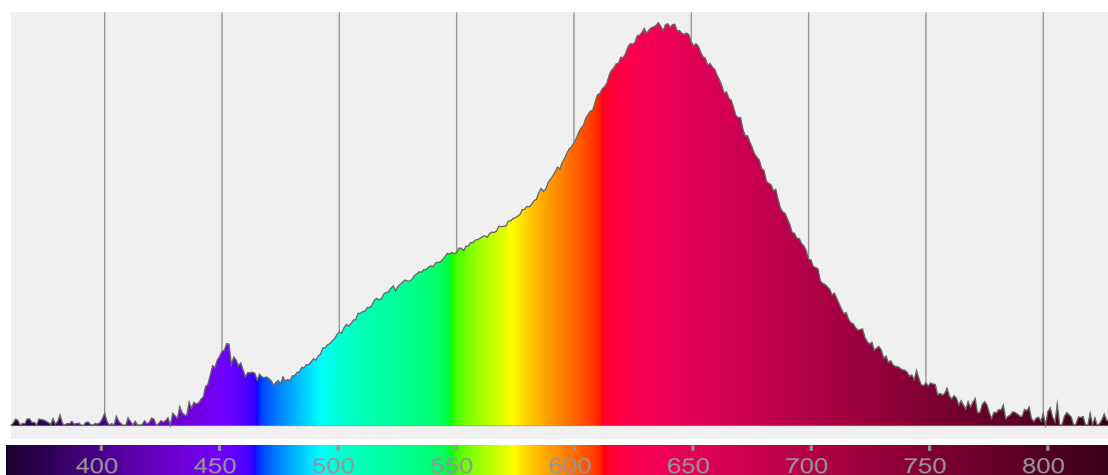
**Rf 95,8**

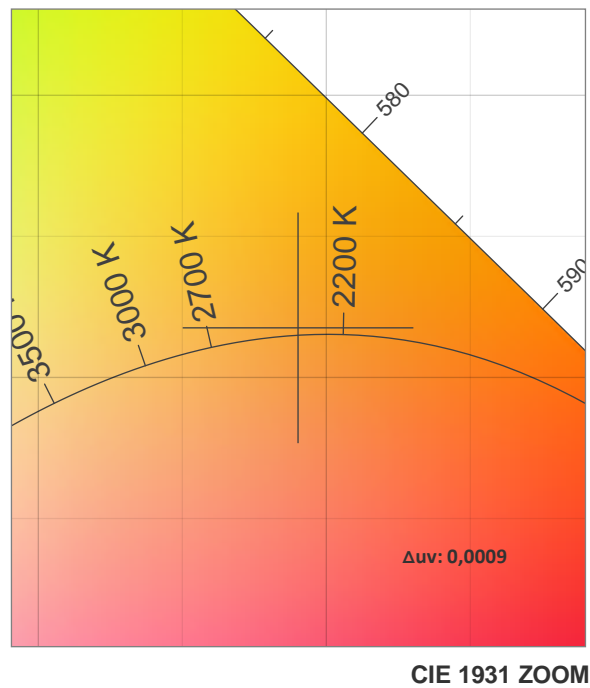
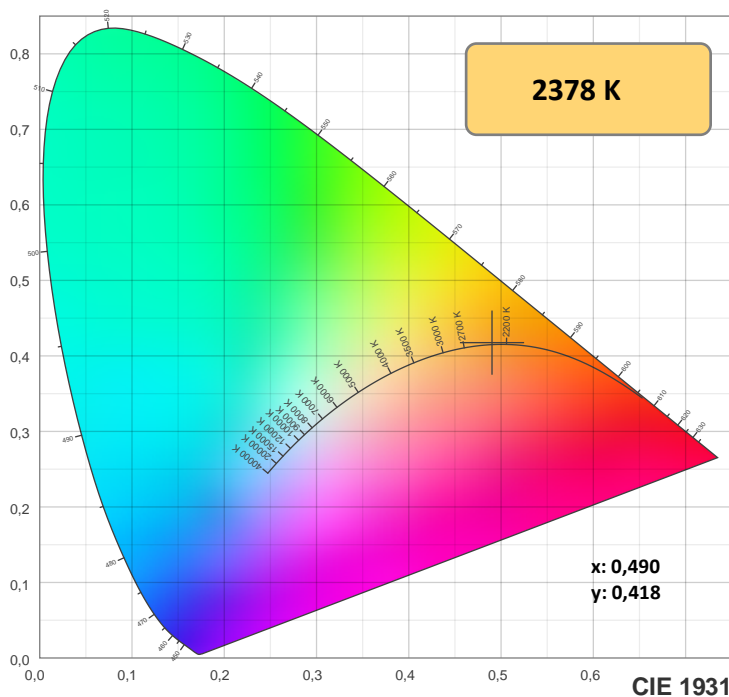
Fidelity index Rf

**Rg 100,5**

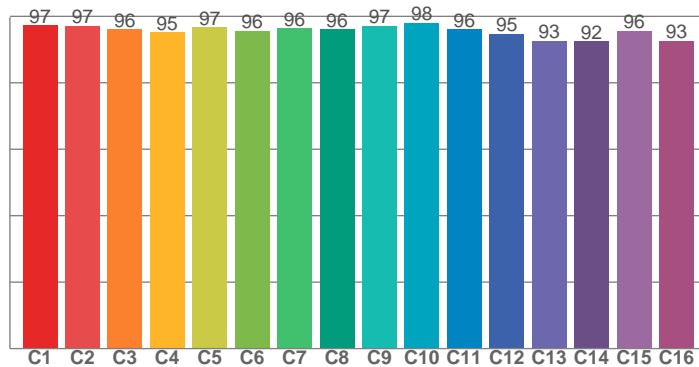
Gamut index Rg

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

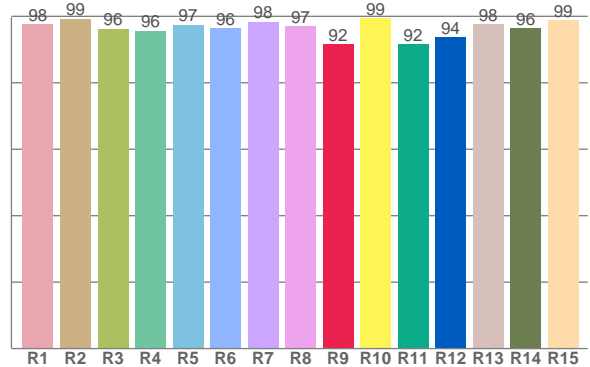




TM-30: 95,8



CRI: 97,3 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,6	99,3	96,2	95,7	97,5	96,3	98,4	97,0	91,6	99,5	91,6	93,8	97,6	96,4	98,8

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97,3	97,2	96,1	95,2	96,7	95,7	96,4	96,0	97,2	98,0	96,1	94,7	92,6	92,5	95,7	92,7

## 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	$\Delta uv$
2378 K	97,3	91,6	95,8	100,5	92,0	0,490	0,418	0,279	0,356	0,0009

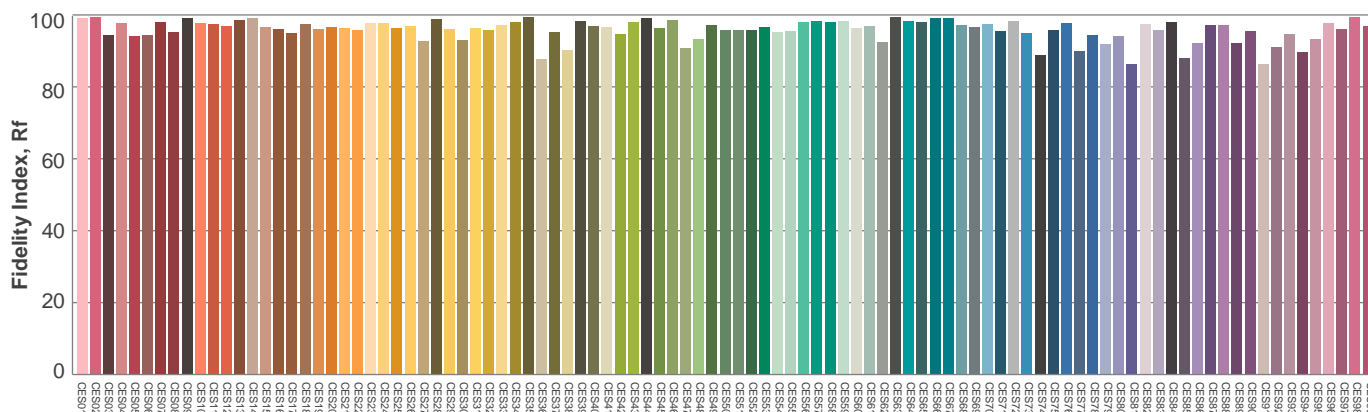
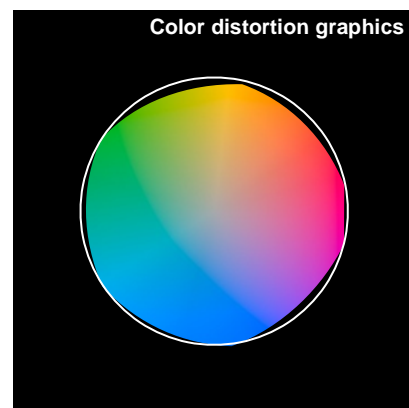
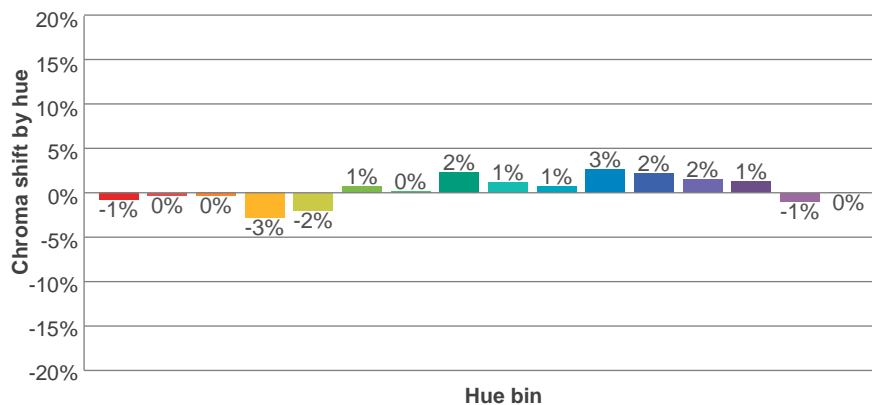
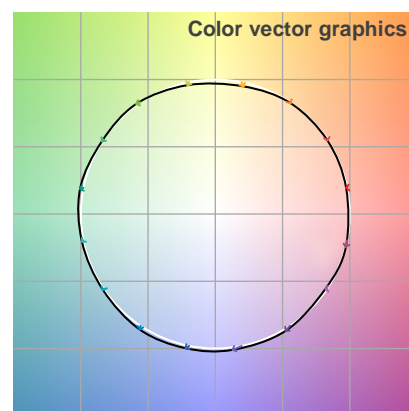
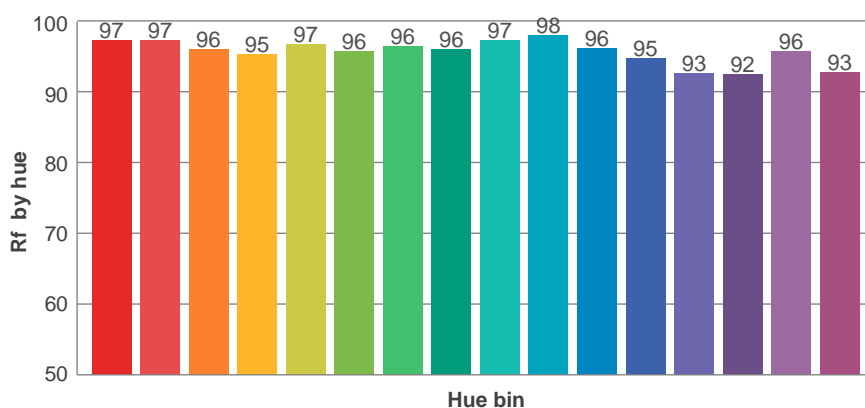
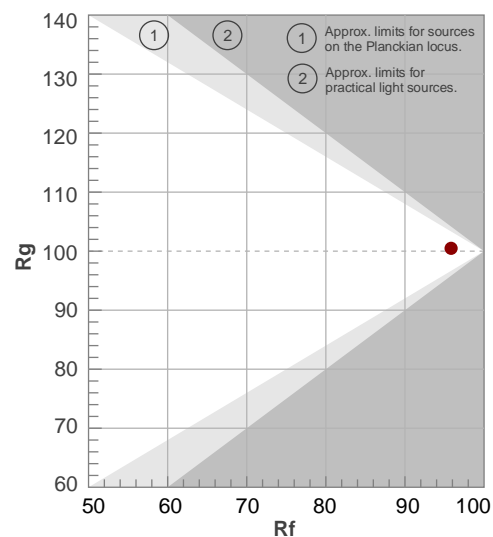
**Rf 95,8**

Fidelity index Rf

**Rg 100,5**

Gamut index Rg

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



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

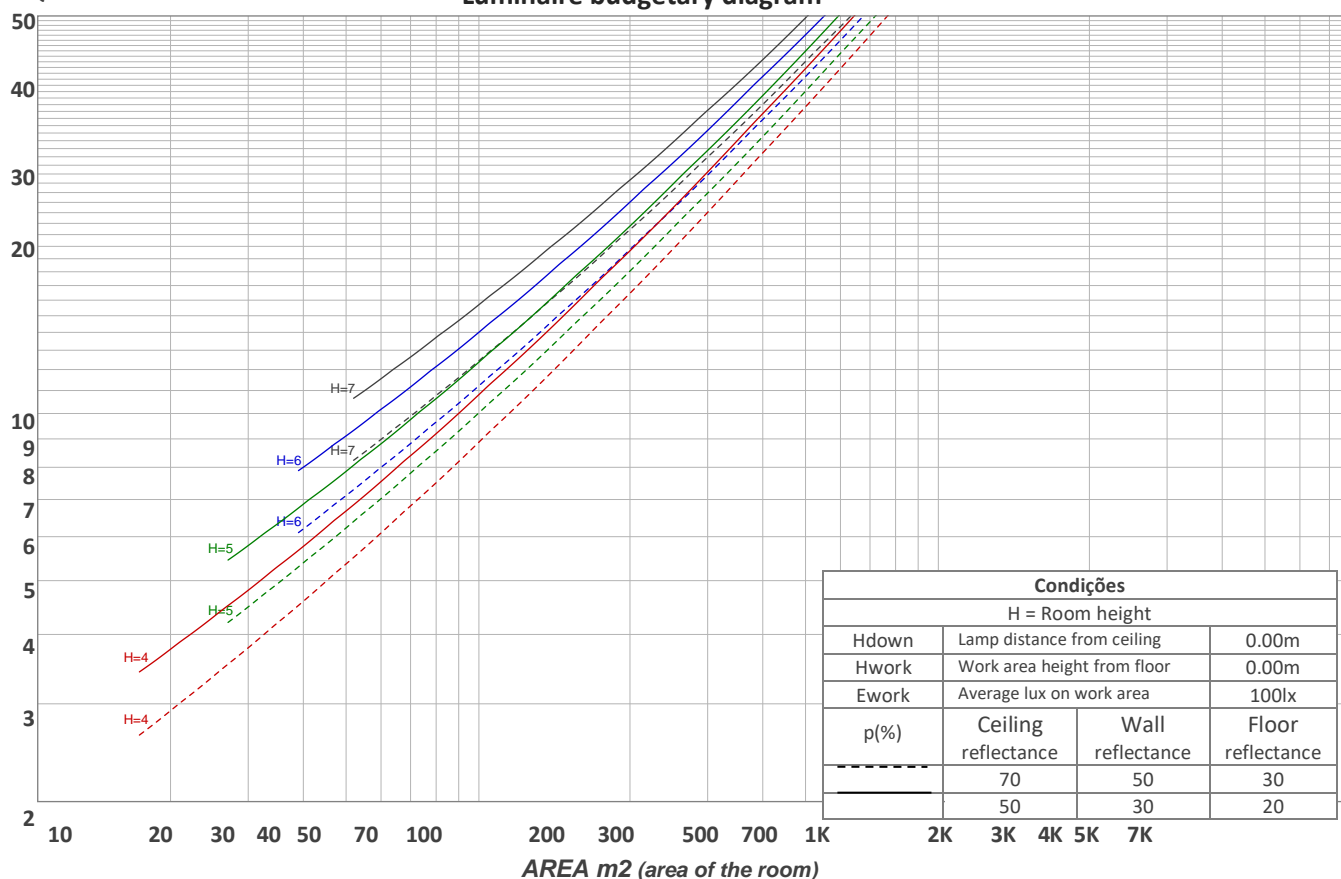
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X    Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,9	25,1	24,1	25,4	25,6	23,9	25,1	24,2	25,5	25,7
	3H	25,3	26,5	25,7	26,8	27,1	25,4	26,6	25,8	26,9	27,2
	4H	25,8	27,1	26,3	27,3	27,6	26,0	27,2	26,4	27,5	27,7
	6H	26,3	27,3	26,6	27,6	28,0	26,4	27,5	26,8	27,8	28,2
	8H	26,3	27,4	26,7	27,7	28,1	26,6	27,6	26,9	27,9	28,3
	12H	26,4	27,4	26,7	27,7	28,2	26,6	27,6	27,0	27,9	28,4
4H	2H	24,5	25,7	24,9	25,9	26,2	24,5	25,7	24,9	26,0	26,3
	3H	26,2	27,2	26,6	27,5	28,0	26,3	27,3	26,6	27,6	28,1
	4H	26,8	27,7	27,2	28,1	28,7	26,9	27,8	27,4	28,2	28,8
	6H	27,2	28,1	27,7	28,5	28,9	27,4	28,3	27,9	28,7	29,0
	8H	27,4	28,2	27,9	28,5	28,9	27,6	28,4	28,1	28,7	29,1
	12H	27,4	28,1	27,9	28,5	29,0	27,6	28,3	28,2	28,7	29,2
8H	4H	27,0	27,8	27,6	28,2	28,6	27,1	27,9	27,7	28,3	28,7
	6H	27,6	28,2	28,1	28,7	29,3	27,8	28,4	28,3	28,9	29,4
	8H	27,8	28,4	28,4	28,9	29,5	28,0	28,6	28,6	29,1	29,7
	12H	27,9	28,4	28,5	28,9	29,5	28,2	28,6	28,8	29,1	29,8
12H	4H	27,0	27,7	27,6	28,1	28,6	27,1	27,8	27,7	28,2	28,7
	6H	27,7	28,2	28,2	28,8	29,4	27,8	28,4	28,4	28,9	29,6
	8H	27,9	28,3	28,5	28,9	29,5	28,1	28,5	28,7	29,1	29,7
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		0,5 / -0,6					0,4 / -0,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1650 lm total luminous flux											

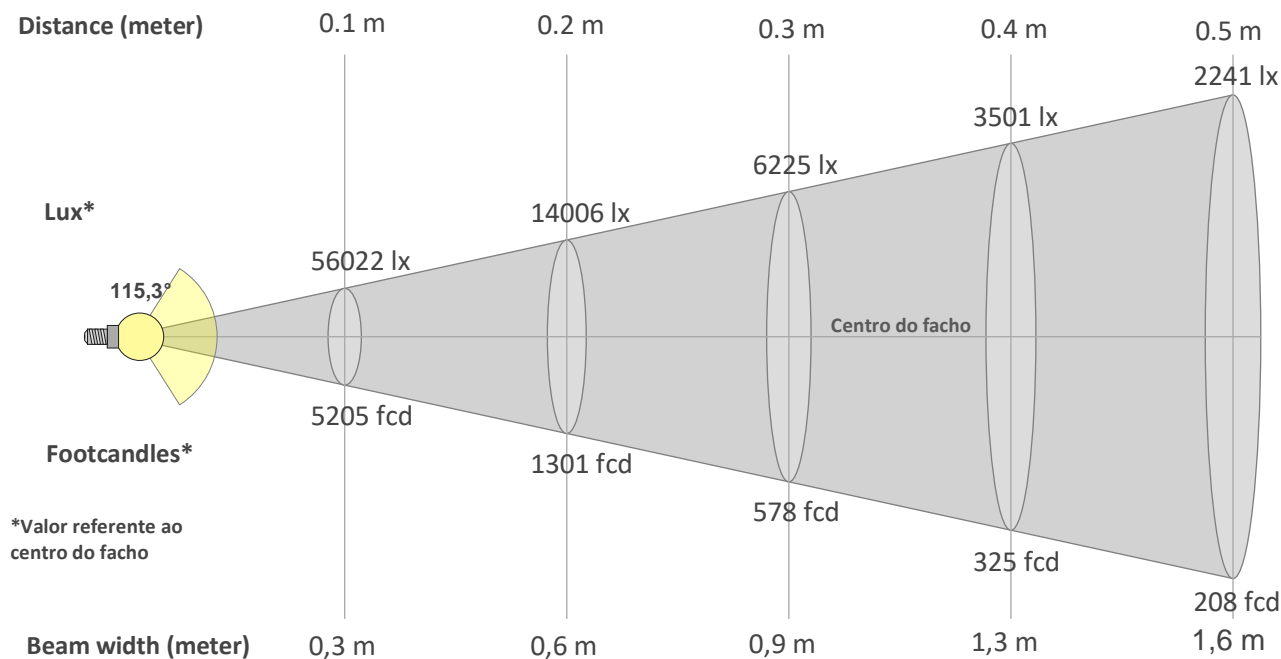
**Coeficiente de utilização**

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	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

**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
560lx	140lx	62lx	35lx	22lx	16lx	11lx	9lx	7lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	2lx	1lx
52fcd	13fcd	5,8fcd	3,3fcd	2,1fcd	1,4fcd	1,1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	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°
560	557	551	540	525	505	481	453	422	386	348	306	261	212	162	110	62	23	4	1
100%	99%	98%	96%	94%	90%	86%	81%	75%	69%	62%	55%	47%	38%	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°
560	558	551	540	524	503	478	450	418	382	343	301	255	207	158	108	61	23	5	1
100%	100%	98%	96%	94%	90%	85%	80%	75%	68%	61%	54%	46%	37%	28%	19%	11%	4%	1%	0%

### Intensities in 180° c-plane

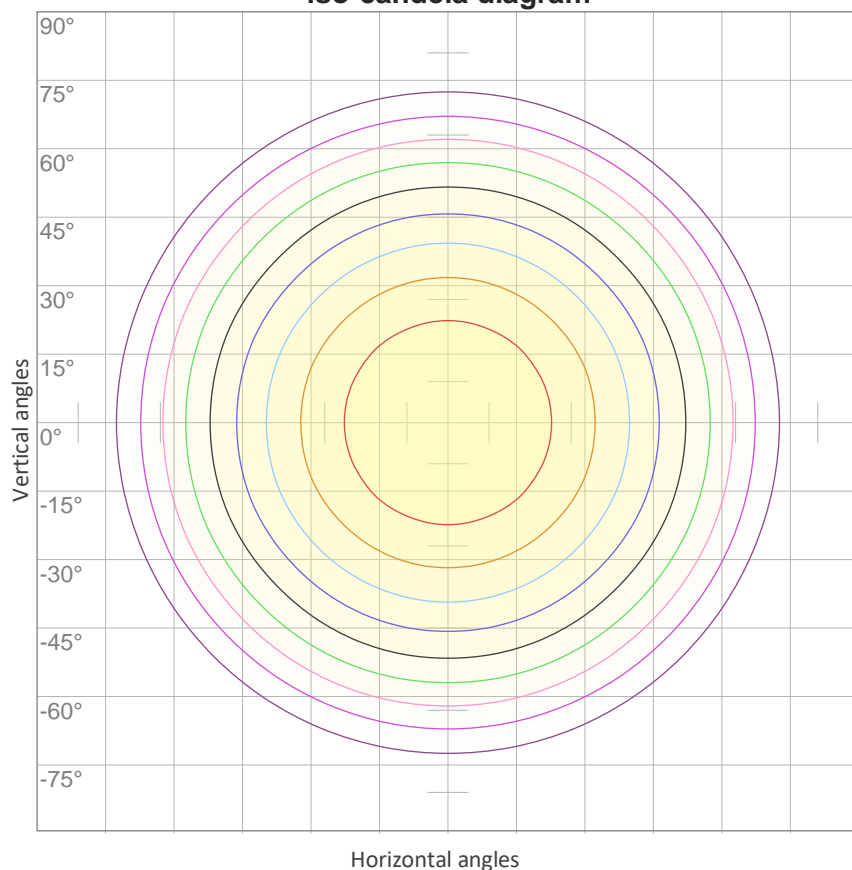
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
560	557	551	540	525	505	481	453	422	386	348	306	261	212	162	110	62	23	4	1
100%	99%	98%	96%	94%	90%	86%	81%	75%	69%	62%	55%	47%	38%	29%	20%	11%	4%	1%	0%

### 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°
560	558	551	540	524	503	478	450	418	382	343	301	255	207	158	108	61	23	5	1
100%	100%	98%	96%	94%	90%	85%	80%	75%	68%	61%	54%	46%	37%	28%	19%	11%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
115,3°	161,2°	173,4°	78,1%	52,7%

**iso-candela diagram**



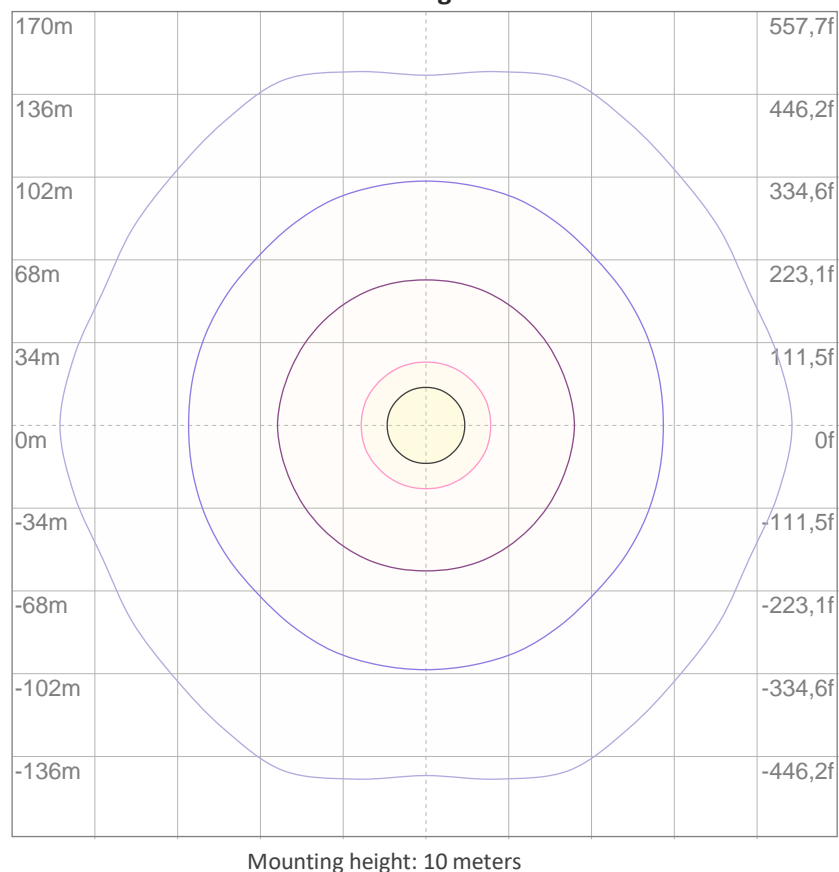
10%	56 cd
20%	112 cd
30%	168 cd
40%	224 cd
50%	280 cd
60%	336 cd
70%	392 cd
80%	448 cd
90%	504 cd

Conditions:

Number of c-planes: 16

Candela at center: 560 cd

**iso-lux diagram**



3%	0,168 lx
5%	0,280 lx
10%	0,560 lx
30%	1,68 lx
50%	2,80 lx

Conditions:

Number of c-planes: 16

Lux at center: 5,60 lx

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

**FP: 1,0**

[illegible]

**THD tensão: n/a**