

## SLED9079 - BARRA DE LED 23WM 5700K 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 – 2100 lm/m

Potência – 22,5 W/m

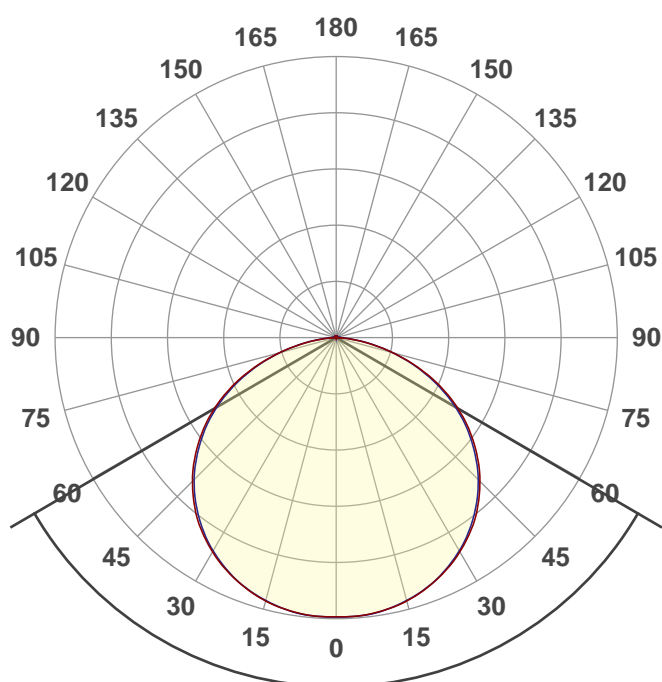
Intensidade pico – 677cd

CCT – 5697K



IRC – 93,2

Coordenada CIE 1931 – x- 0,328 y- 0,344



Facho de abertura

**119,5°**

Data do ensaio

05/10/2020 16:39:23

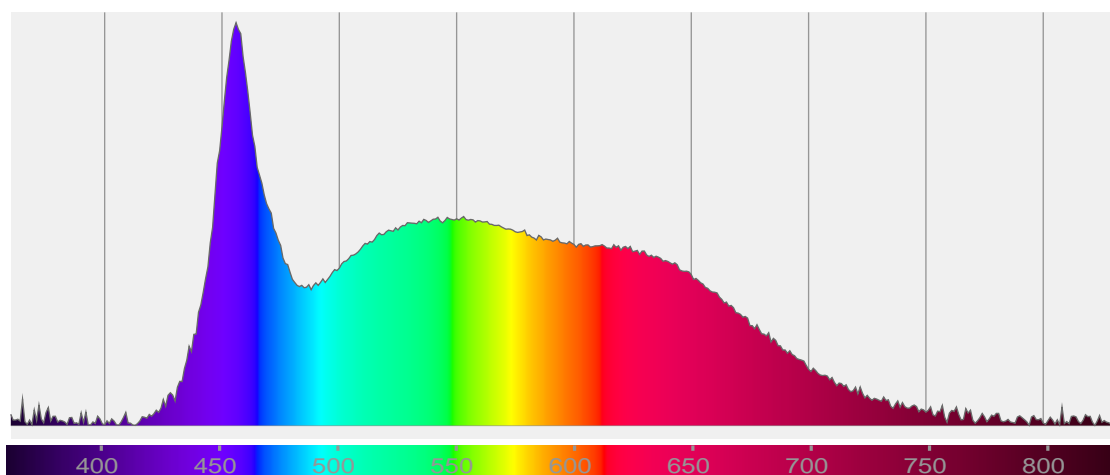
**Rf 89,1**

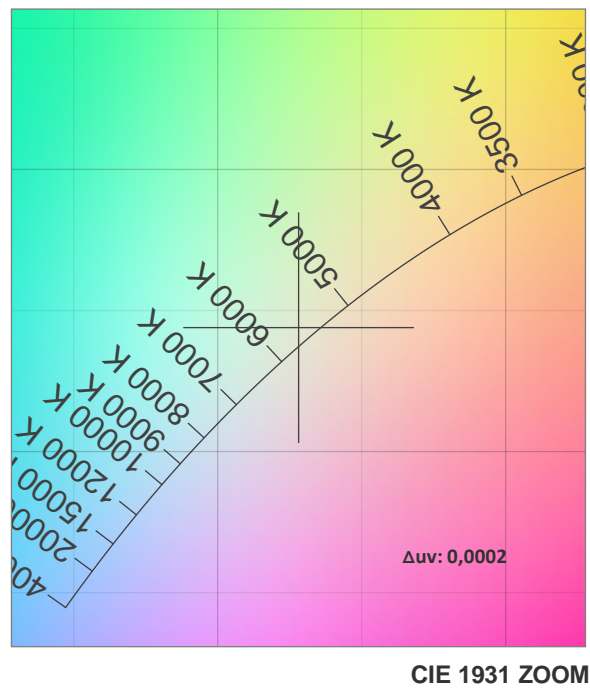
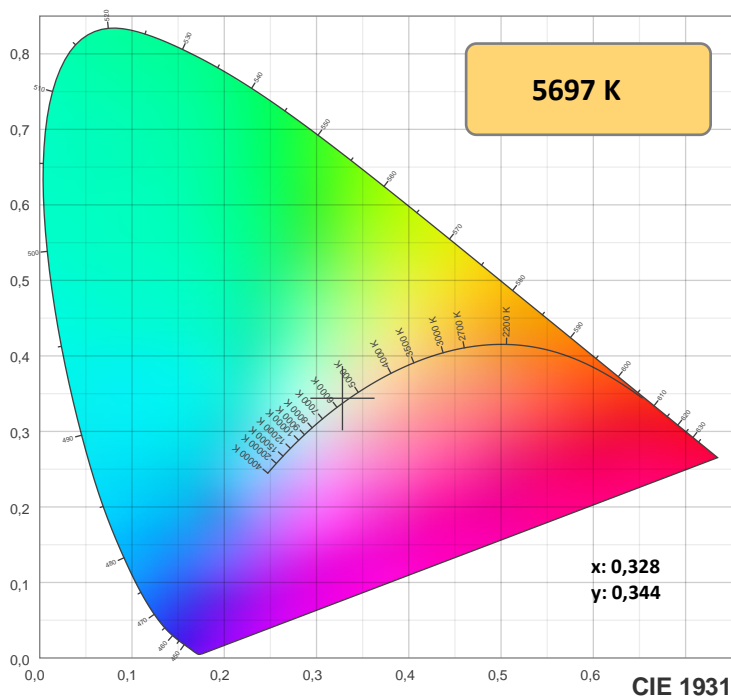
Fidelity index Rf

**Rg 96,4**

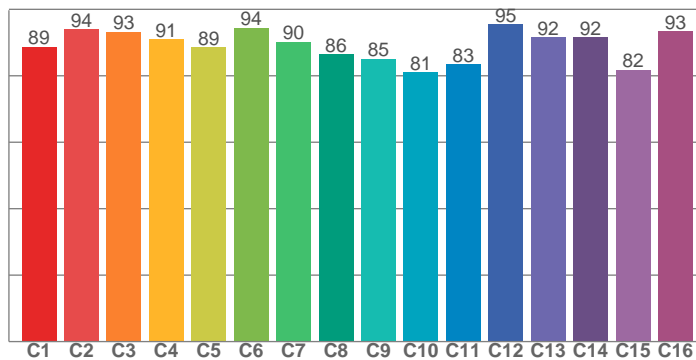
Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	89	-4%	1%
2	94	-2%	2%
3	93	-2%	1%
4	91	-3%	-1%
5	89	-6%	-1%
6	94	-4%	-1%
7	90	-6%	2%
8	86	-6%	6%
9	85	-4%	13%
10	81	-1%	12%
11	83	4%	10%
12	95	3%	0%
13	92	4%	-4%
14	92	0%	-5%
15	82	6%	-13%
16	93	-3%	0%

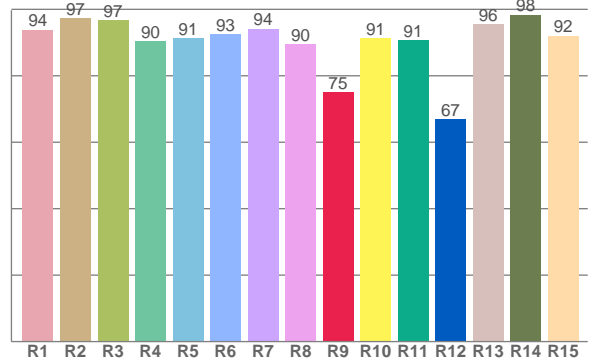




TM-30: 89,1



CRI: 93,2 (R1-R8)



CRIRa R1-R8 / CRIRe R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,8	97,4	96,8	90,4	91,4	92,6	94,2	89,5	75,1	91,4	90,7	66,8	95,6	98,4	92,0

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,7	94,0	93,2	91,0	88,6	94,5	90,2	86,5	85,1	81,0	83,4	95,5	91,6	91,6	81,8	93,4

## 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
5697 K	93,2	75,1	89,1	96,4	90,5	0,328	0,344	0,203	0,319	0,0002

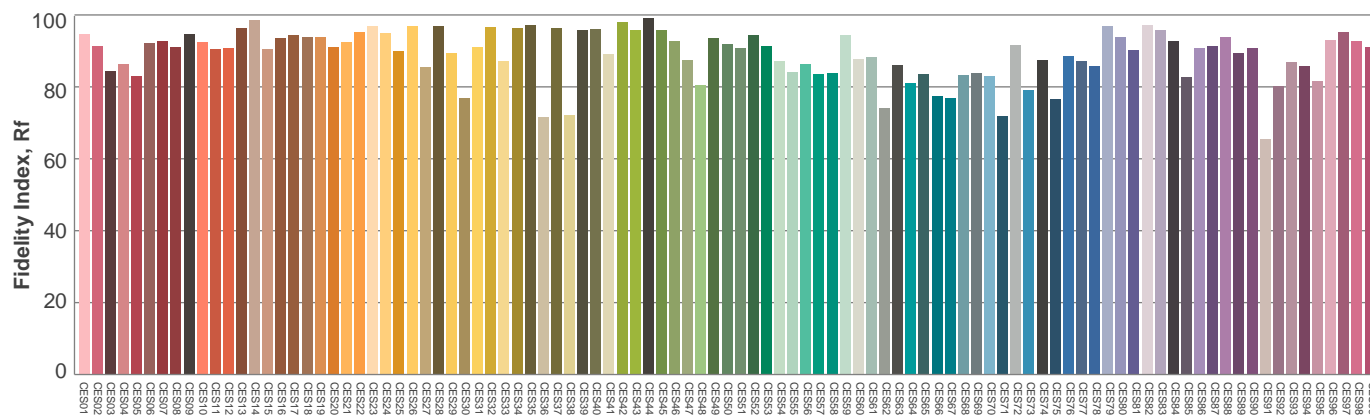
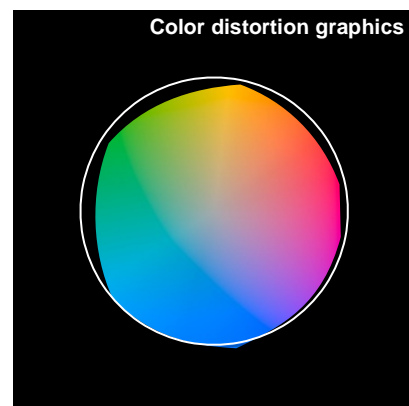
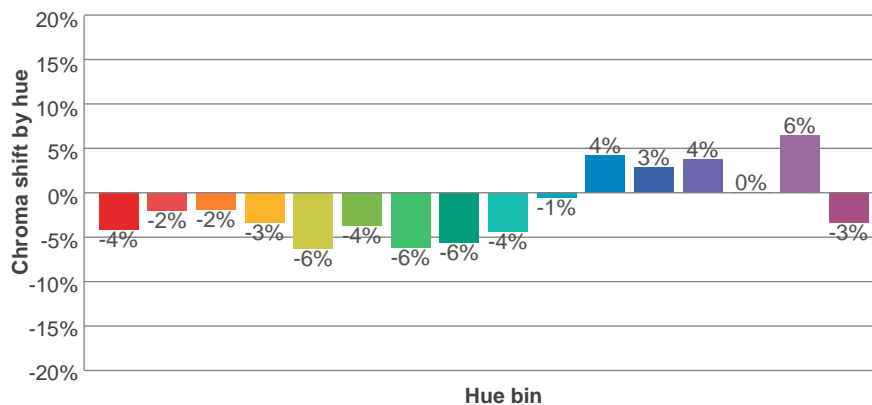
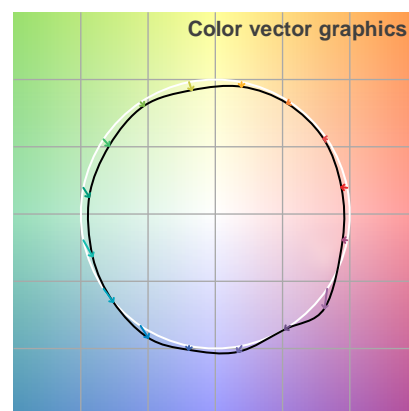
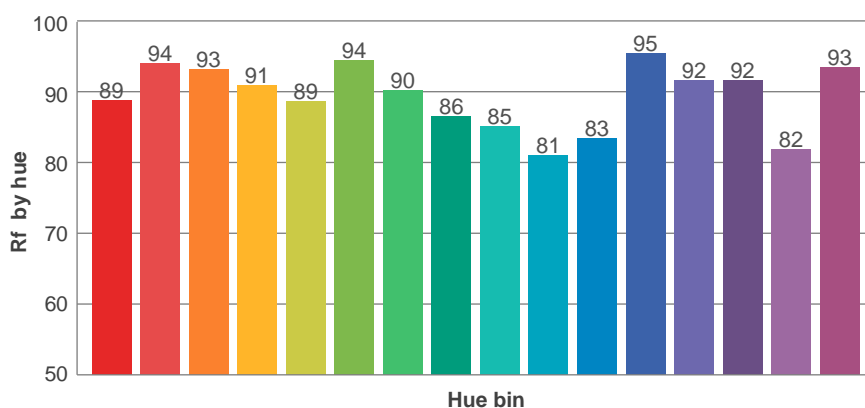
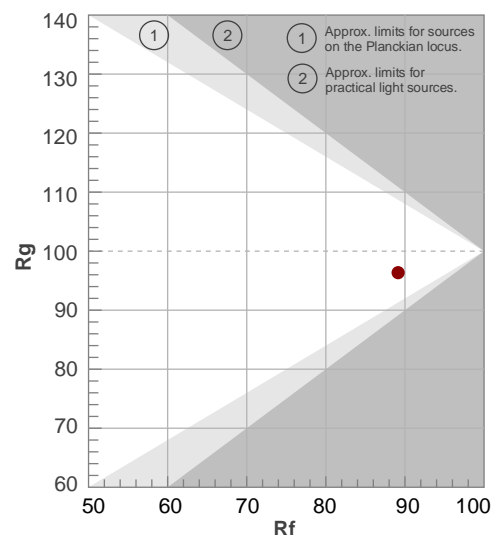
**Rf 89,1**

Fidelity index Rf

**Rg 96,4**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	89	-4%	1%
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6	94	-4%	-1%
7	90	-6%	2%
8	86	-6%	6%
9	85	-4%	13%
10	81	-1%	12%
11	83	4%	10%
12	95	3%	0%
13	92	4%	-4%
14	92	0%	-5%
15	82	6%	-13%
16	93	-3%	0%



Glare Evaluation According to UGR

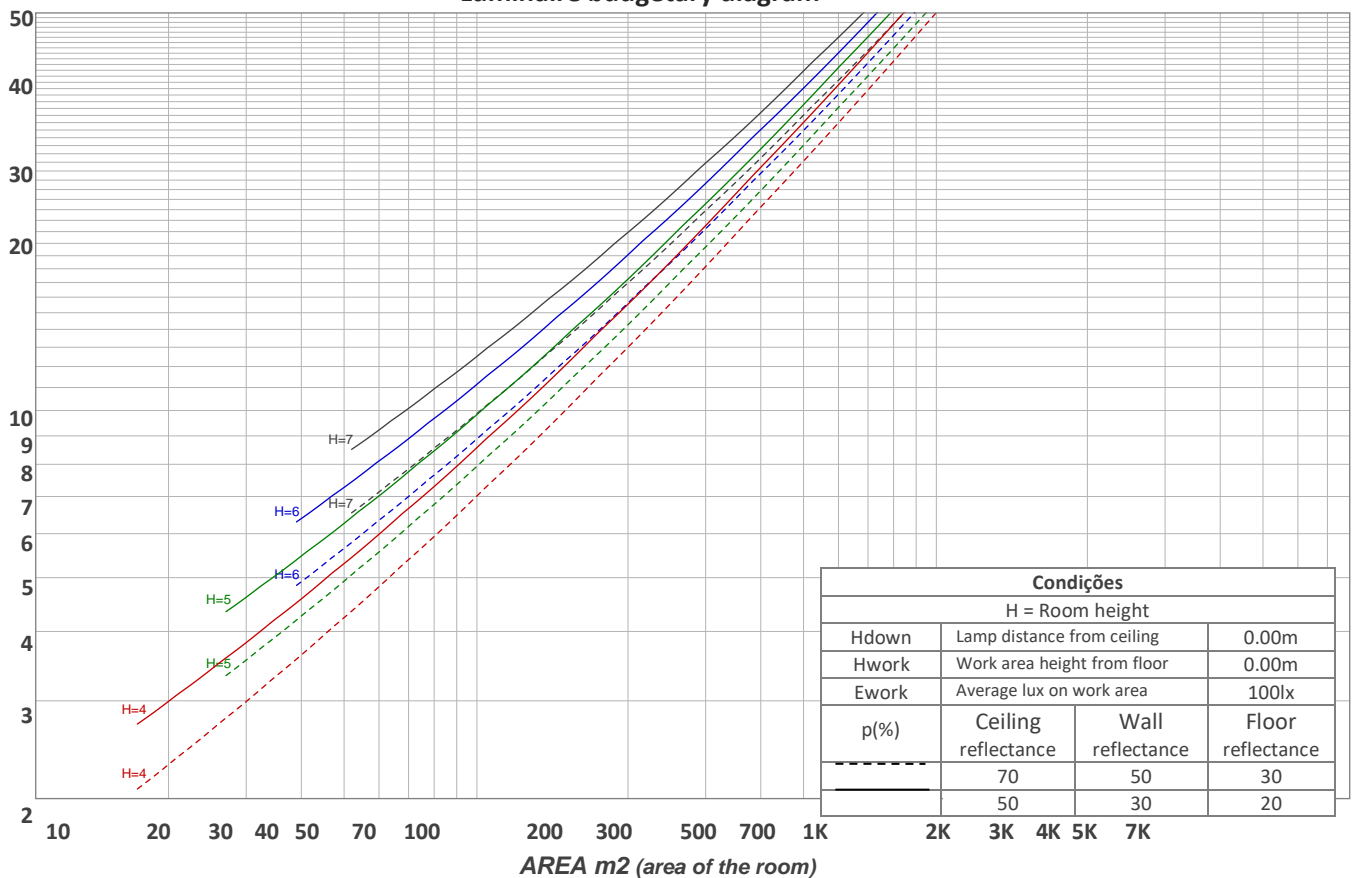
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X    Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24,8	26,0	25,0	26,3	26,6	24,8	26,1	25,1	26,4	26,6
	3H	26,2	27,5	26,7	27,8	28,0	26,3	27,6	26,8	27,9	28,1
	4H	26,8	28,0	27,2	28,3	28,6	26,9	28,2	27,4	28,5	28,7
	6H	27,2	28,3	27,6	28,6	29,0	27,4	28,5	27,8	28,8	29,2
	8H	27,3	28,4	27,7	28,7	29,1	27,6	28,6	27,9	28,9	29,3
	12H	27,3	28,3	27,7	28,7	29,2	27,6	28,6	28,0	29,0	29,4
4H	2H	25,4	26,6	25,8	26,9	27,2	25,4	26,7	25,9	26,9	27,2
	3H	27,2	28,2	27,5	28,5	29,0	27,2	28,3	27,6	28,6	29,1
	4H	27,8	28,7	28,2	29,1	29,7	27,9	28,8	28,4	29,3	29,8
	6H	28,2	29,1	28,7	29,5	29,9	28,4	29,3	28,9	29,7	30,1
	8H	28,4	29,2	28,9	29,5	29,9	28,6	29,4	29,1	29,8	30,2
	12H	28,4	29,1	28,9	29,5	30,0	28,7	29,4	29,2	29,8	30,3
8H	4H	28,0	28,8	28,6	29,2	29,6	28,2	29,0	28,7	29,3	29,7
	6H	28,6	29,2	29,1	29,7	30,3	28,8	29,4	29,3	29,9	30,5
	8H	28,8	29,4	29,4	29,9	30,6	29,1	29,6	29,6	30,2	30,8
	12H	29,0	29,4	29,5	29,9	30,6	29,2	29,7	29,8	30,2	30,8
12H	4H	28,0	28,7	28,5	29,2	29,6	28,2	28,8	28,7	29,3	29,8
	6H	28,7	29,2	29,2	29,8	30,4	28,9	29,4	29,4	30,0	30,6
	8H	28,9	29,4	29,5	29,9	30,5	29,2	29,6	29,7	30,1	30,7
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 2100 lm total luminous flux											

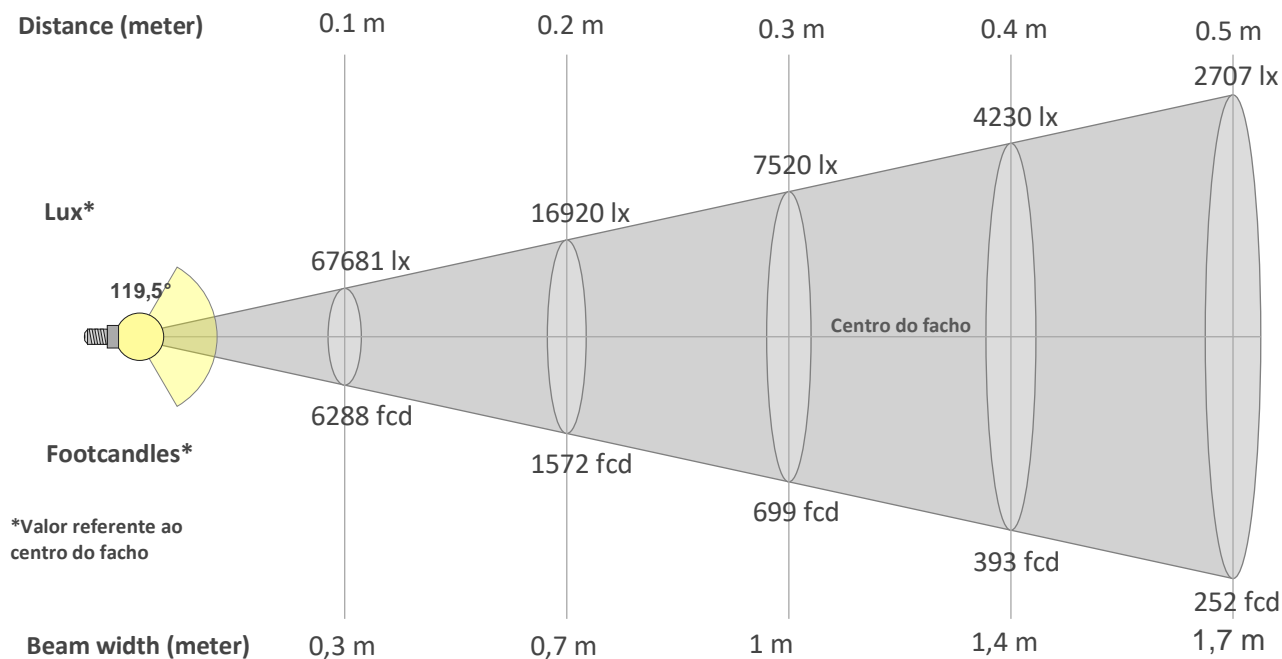
### Coeficiente de utilização

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	103	99	95	106	101	97	94	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	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	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	27	38	32	27	25
10	52	39	31	25	51	38	30	25	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
677lx	169lx	75lx	42lx	27lx	19lx	14lx	11lx	8lx	7lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx
62,9fcd	15,7fcd	7fcd	3,9fcd	2,5fcd	1,7fcd	1,3fcd	1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd

### 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°
677	676	670	660	644	624	599	569	533	492	445	394	338	277	211	143	80	29	5	2
100%	100%	99%	98%	95%	92%	88%	84%	79%	73%	66%	58%	50%	41%	31%	21%	12%	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°
677	676	670	659	643	622	596	564	527	486	439	388	331	270	206	141	81	32	6	2
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	65%	57%	49%	40%	30%	21%	12%	5%	1%	0%

### Intensities in 180° c-plane

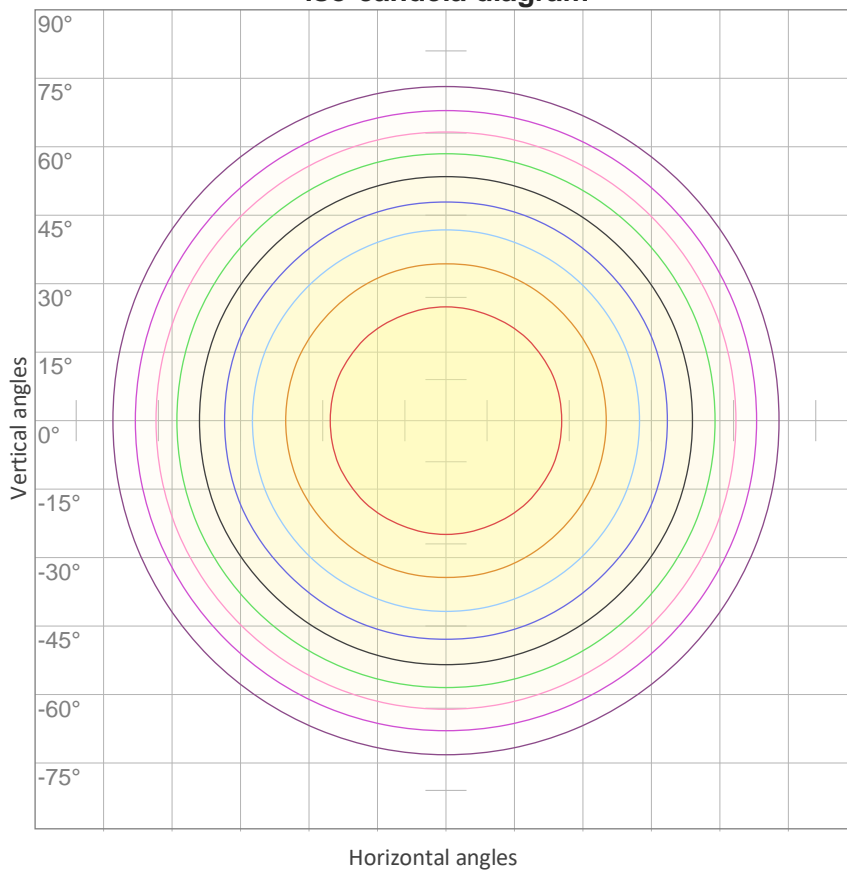
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
677	676	670	660	644	624	599	569	533	492	445	394	338	277	211	143	80	29	5	2
100%	100%	99%	98%	95%	92%	88%	84%	79%	73%	66%	58%	50%	41%	31%	21%	12%	4%	1%	0%

### 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°
677	676	670	659	643	622	596	564	527	486	439	388	331	270	206	141	81	32	6	2
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	65%	57%	49%	40%	30%	21%	12%	5%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
119,5°	162,6°	174,5°	77,2%	51,5%

**iso-candela diagram**



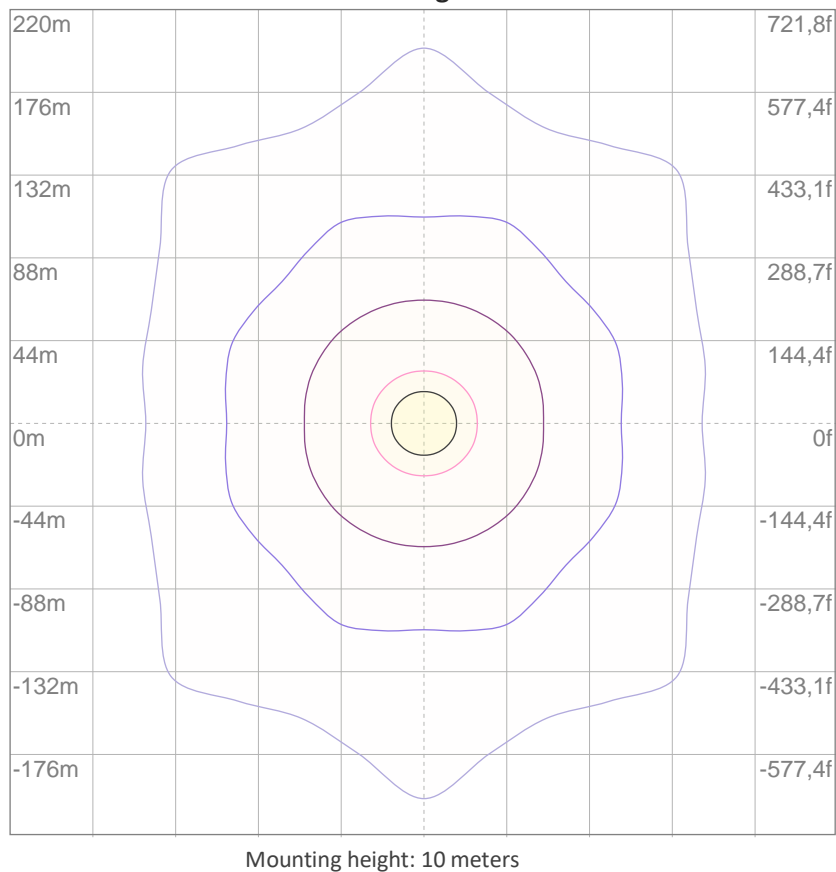
10%	68 cd
20%	135 cd
30%	203 cd
40%	271 cd
50%	338 cd
60%	406 cd
70%	474 cd
80%	541 cd
90%	609 cd

Conditions:

Number of c-planes: 16

Candela at center: 677 cd

**iso-lux diagram**



3%	0,203 lx
5%	0,338 lx
10%	0,677 lx
30%	2,03 lx
50%	3,38 lx

Conditions:

Number of c-planes: 16

Lux at center: 6,77 lx

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

**Potência**


**Vttagem: 12,0 V**

**Corrente: 1,87 A**

**Frequência: 0 Hz**

**FP: 1,0**

**THD**



**THD corrente: n/a**

**THD tensão: n/a**