

## SLED9078 - BARRA DE LED 18WM 3000K 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 – 1610 lm/m

Potência – 18,2 W/m

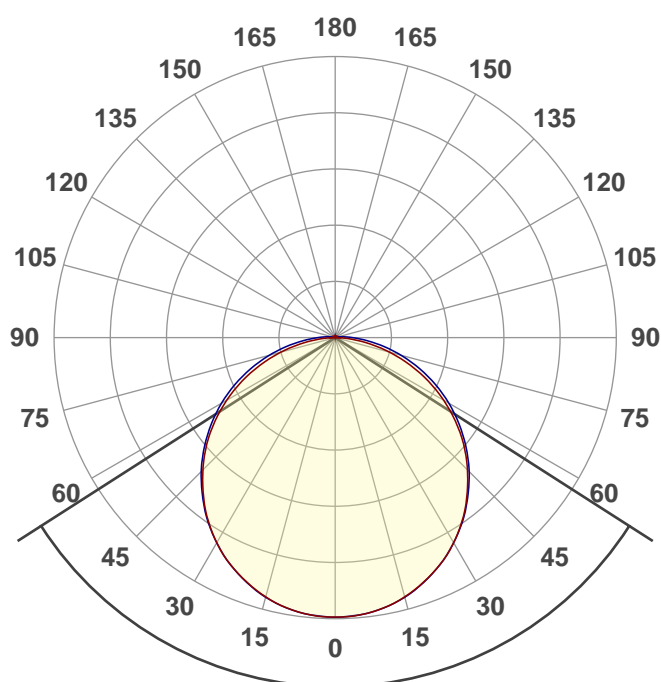
Intensidade pico – 531cd

CCT – 2939K



IRC – 93,9

Coordenada CIE 1931 – x- 0,438 y- 0,398



Facho de abertura

**114,7°**

Data do ensaio

04/11/2020 16:32:55

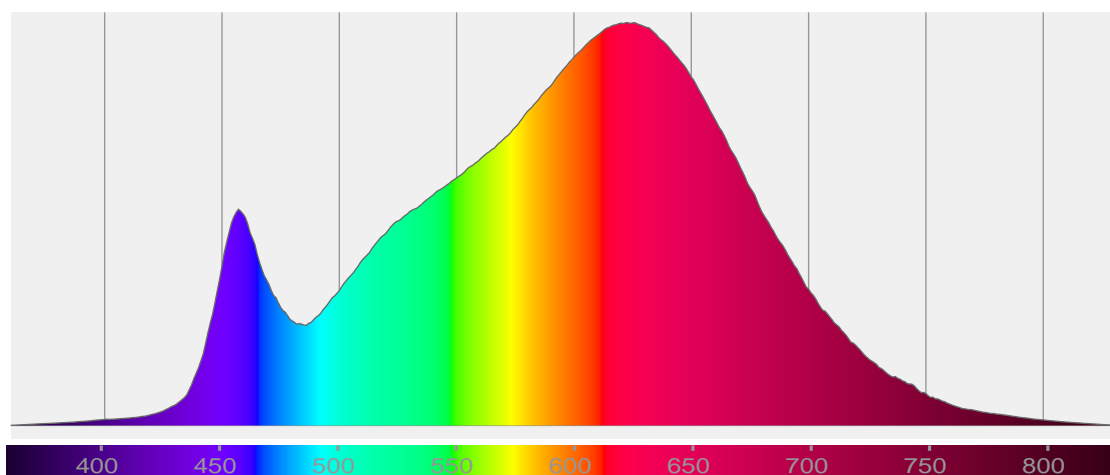
**Rf 91,1**

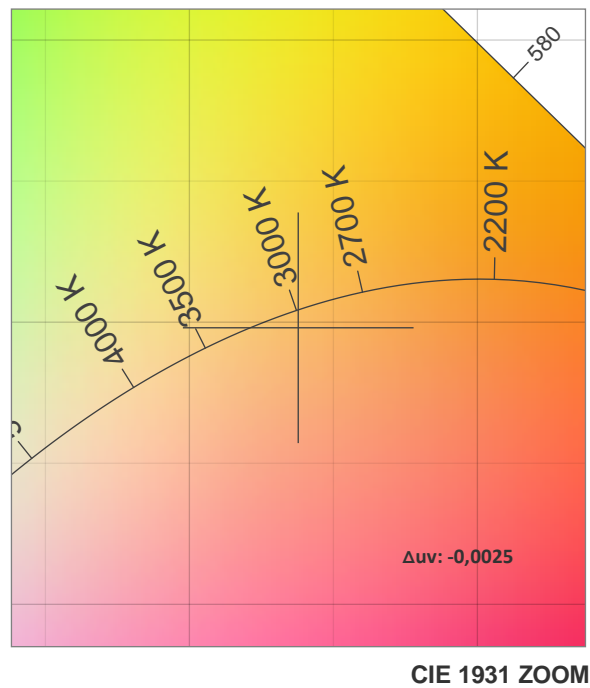
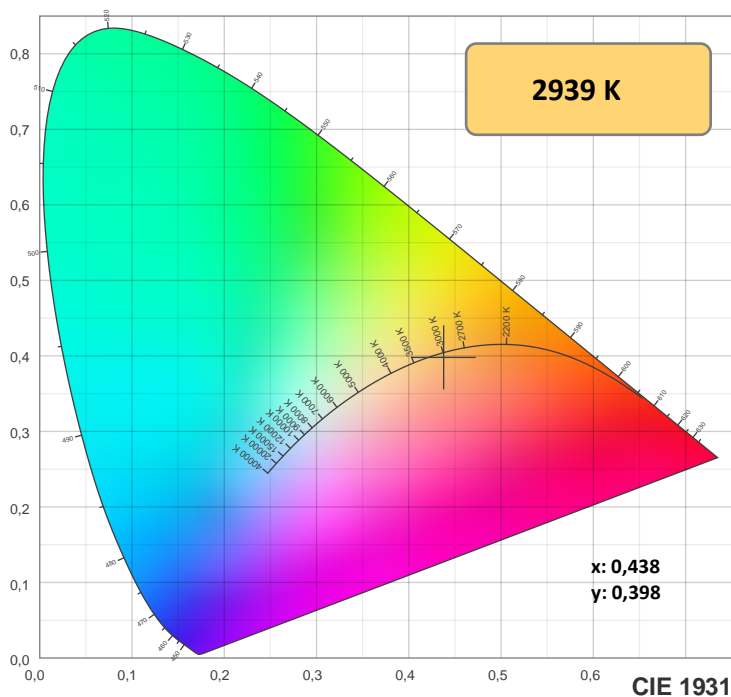
Fidelity index Rf

**Rg 98,9**

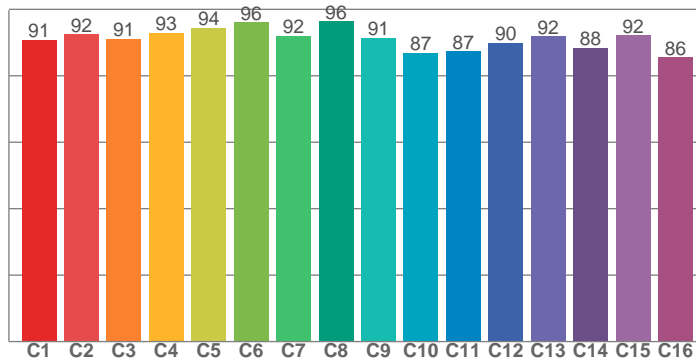
Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	91	-4%	1%
2	92	-3%	3%
3	91	-1%	4%
4	93	-3%	0%
5	94	-1%	2%
6	96	1%	0%
7	92	-4%	1%
8	96	-2%	1%
9	91	-2%	5%
10	87	0%	9%
11	87	3%	9%
12	90	6%	1%
13	92	3%	-5%
14	88	4%	-8%
15	92	-3%	-3%
16	86	-2%	-11%

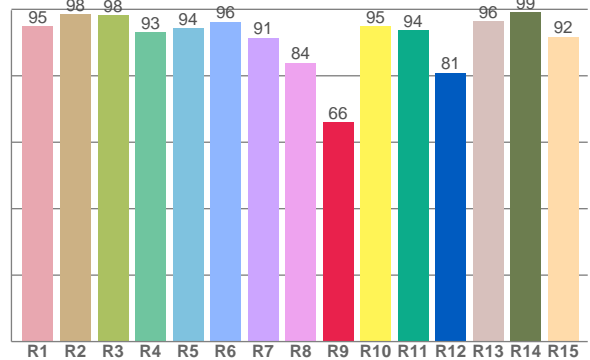




TM-30: 91,1



CRI: 93,9 (R1-R8)



CRiRa R1-R8 / CRiRe R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,0	98,4	98,3	93,2	94,4	96,2	91,5	83,9	66,1	94,8	93,8	81,0	96,3	99,1	91,7

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,8	92,5	91,2	92,9	94,4	96,1	92,0	96,4	91,4	86,8	87,3	90,0	91,9	88,4	92,2	85,6

## 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
2939 K	93,9	66,1	91,1	98,9	90,7	0,438	0,398	0,254	0,346	-0,0025

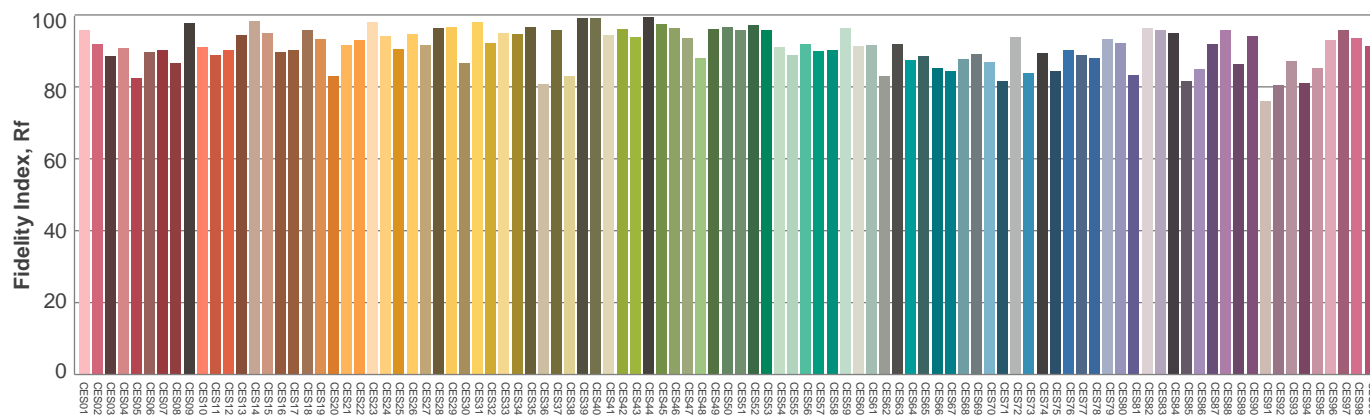
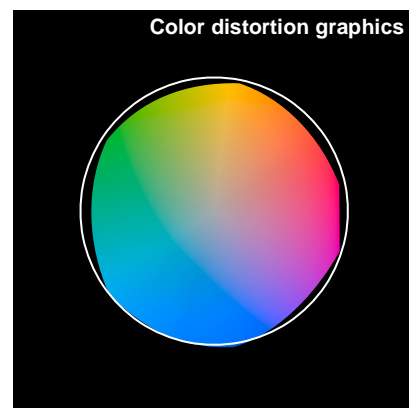
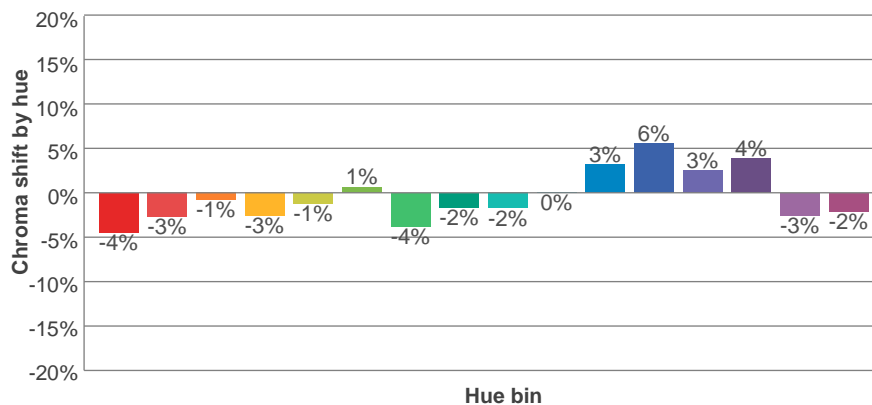
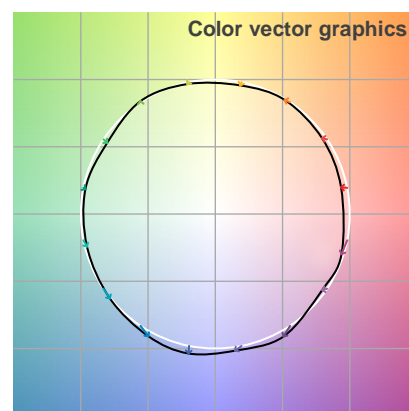
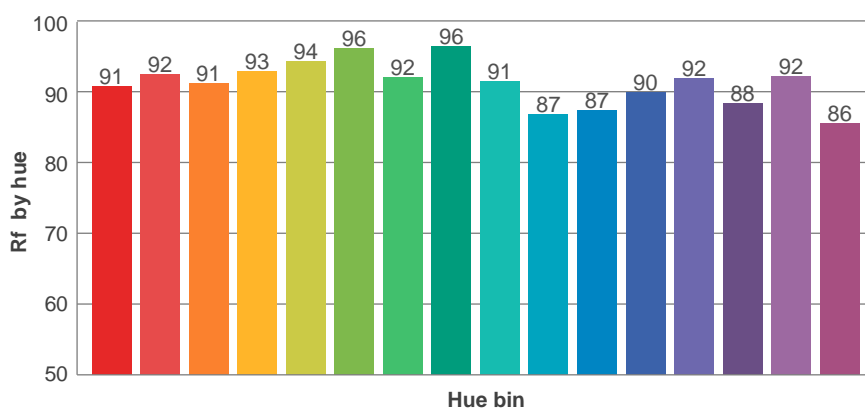
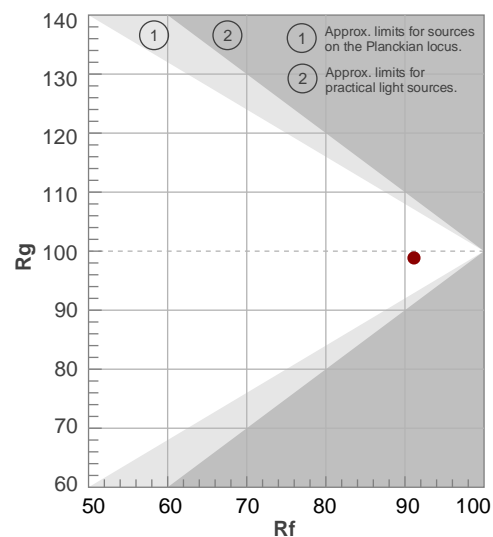
**Rf 91,1**

Fidelity index Rf

**Rg 98,9**

Gamut index Rg

Hue Bin	R <sub>i</sub>	Shifts (%)	
		Chroma	Hue
1	91	-4%	1%
2	92	-3%	3%
3	91	-1%	4%
4	93	-3%	0%
5	94	-1%	2%
6	96	1%	0%
7	92	-4%	1%
8	96	-2%	1%
9	91	-2%	5%
10	87	0%	9%
11	87	3%	9%
12	90	6%	1%
13	92	3%	-5%
14	88	4%	-8%
15	92	-3%	-3%
16	86	-2%	-11%



Glare Evaluation According to UGR

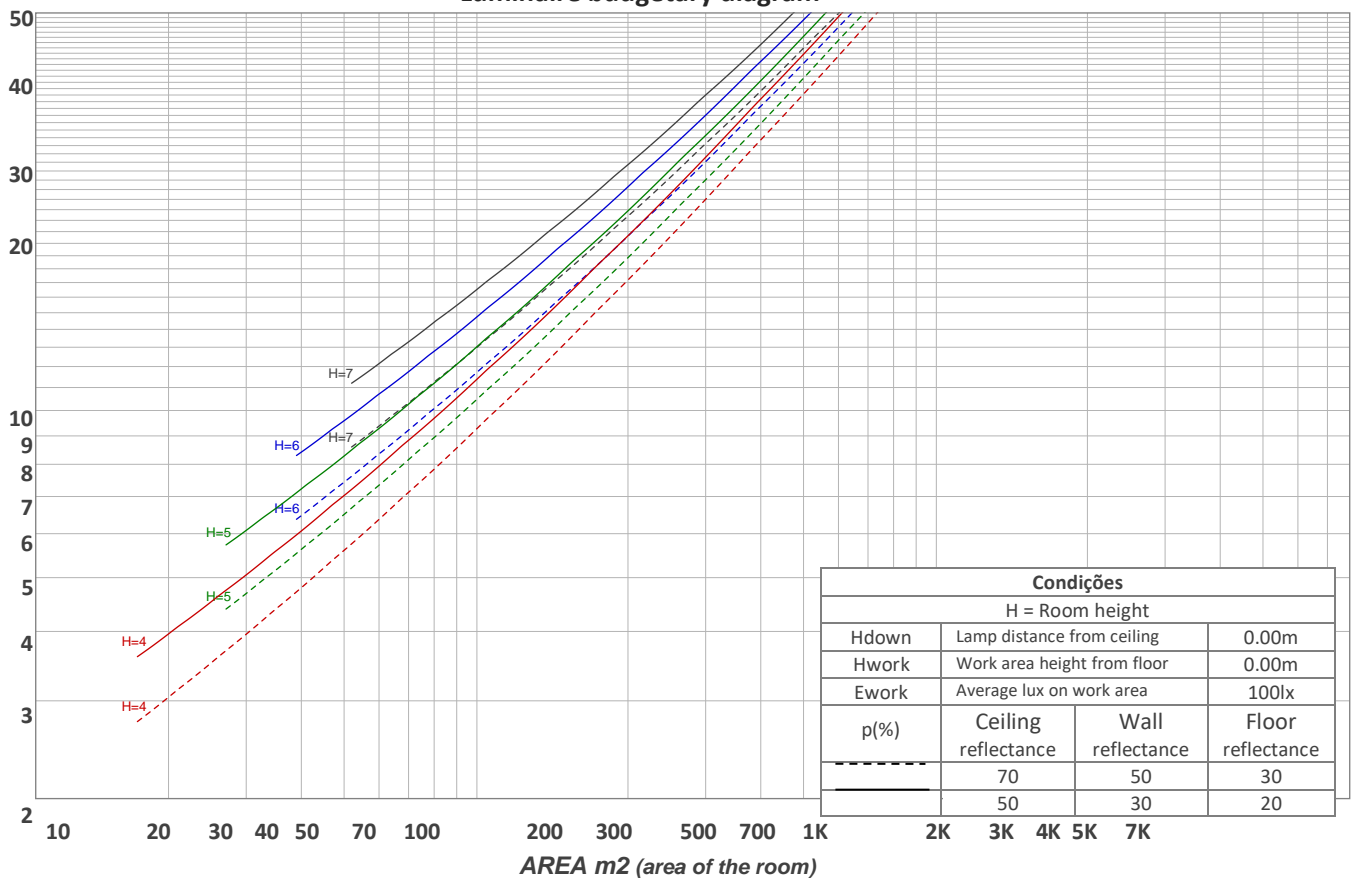
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X    Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,4	24,6	23,6	24,9	25,2	23,7	24,9	23,9	25,2	25,5
	3H	24,8	26,1	25,2	26,4	26,6	25,4	26,7	25,8	27,0	27,2
	4H	25,4	26,7	25,9	27,0	27,3	26,2	27,4	26,6	27,7	28,0
	6H	26,0	27,0	26,3	27,3	27,7	27,0	28,1	27,3	28,4	28,8
	8H	26,1	27,1	26,4	27,5	27,9	27,3	28,4	27,7	28,7	29,1
	12H	26,1	27,2	26,5	27,5	28,0	27,6	28,6	28,0	29,0	29,5
4H	2H	24,0	25,2	24,4	25,5	25,8	24,3	25,5	24,7	25,8	26,1
	3H	25,8	26,8	26,2	27,2	27,7	26,3	27,3	26,7	27,7	28,2
	4H	26,5	27,4	27,0	27,9	28,4	27,2	28,1	27,7	28,6	29,1
	6H	27,0	27,9	27,6	28,3	28,7	28,1	29,0	28,6	29,4	29,8
	8H	27,2	28,1	27,8	28,5	28,9	28,5	29,3	29,0	29,7	30,1
	12H	27,3	28,0	27,9	28,5	29,0	28,9	29,6	29,4	30,0	30,5
8H	4H	26,9	27,7	27,4	28,1	28,5	27,5	28,3	28,0	28,7	29,1
	6H	27,6	28,2	28,1	28,7	29,3	28,6	29,2	29,1	29,7	30,3
	8H	27,9	28,5	28,4	29,0	29,7	29,1	29,7	29,6	30,2	30,9
	12H	28,1	28,6	28,7	29,1	29,7	29,6	30,1	30,2	30,6	31,3
12H	4H	26,9	27,6	27,4	28,1	28,6	27,5	28,2	28,0	28,6	29,1
	6H	27,7	28,3	28,3	28,8	29,5	28,6	29,2	29,2	29,7	30,4
	8H	28,1	28,5	28,7	29,1	29,7	29,2	29,7	29,8	30,2	30,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					0,1 / -0,1				
S = 1.5H		0,1 / -0,2					0,1 / -0,1				
S = 2.0H		0,4 / -0,5					0,3 / -0,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1610 lm total luminous flux											

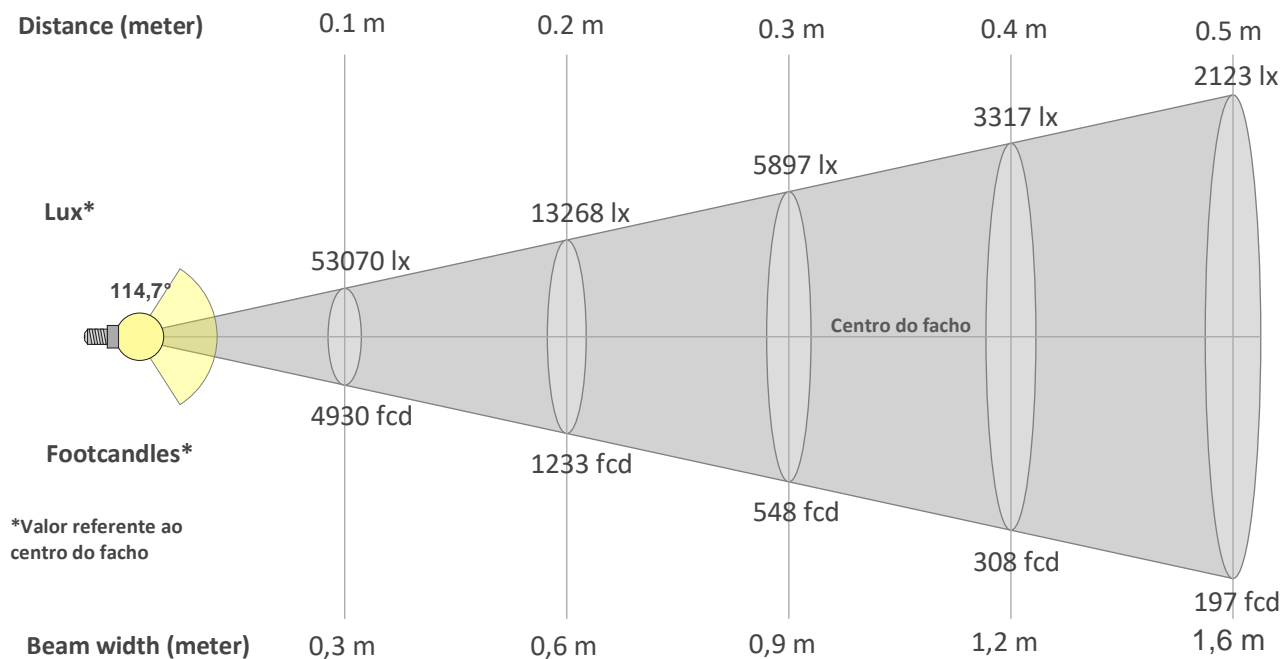
### Coeficiente de utilização

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	110	110	110	105	105	105	101	101	101	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	67
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	54	50	47
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	34	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	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
531lx	133lx	59lx	33lx	21lx	15lx	11lx	8lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx
49,3fcd	12,3fcd	5,5fcd	3,1fcd	2fcd	1,4fcd	1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	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°
531	528	521	509	493	473	450	421	389	355	319	279	238	195	151	107	65	29	6	3
100%	100%	98%	96%	93%	89%	85%	79%	73%	67%	60%	53%	45%	37%	28%	20%	12%	6%	1%	1%

### 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°
531	528	522	510	494	474	450	423	392	360	325	288	249	210	169	130	92	59	33	18
100%	100%	98%	96%	93%	89%	85%	80%	74%	68%	61%	54%	47%	39%	32%	24%	17%	11%	6%	3%

### Intensities in 180° c-plane

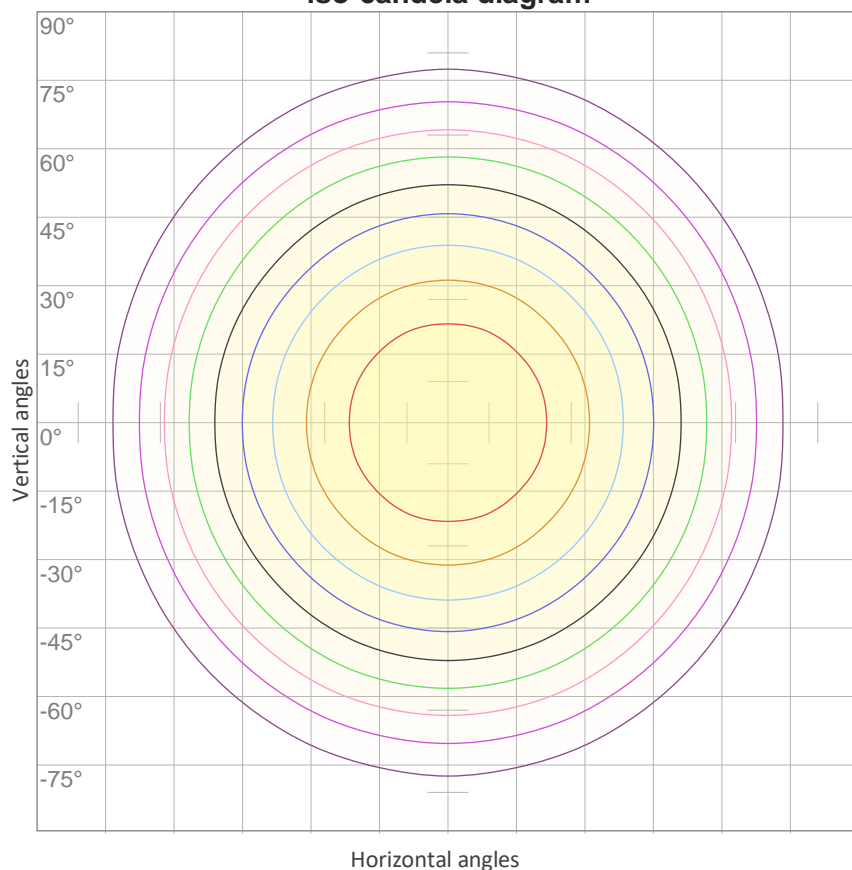
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
531	528	521	509	493	473	450	421	389	355	319	279	238	195	151	107	65	29	6	3
100%	100%	98%	96%	93%	89%	85%	79%	73%	67%	60%	53%	45%	37%	28%	20%	12%	6%	1%	1%

### 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°
531	528	522	510	494	474	450	423	392	360	325	288	249	210	169	130	92	59	33	18
100%	100%	98%	96%	93%	89%	85%	80%	74%	68%	61%	54%	47%	39%	32%	24%	17%	11%	6%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,7°	167,8°	185,5°	74,9%	50,6%

**iso-candela diagram**



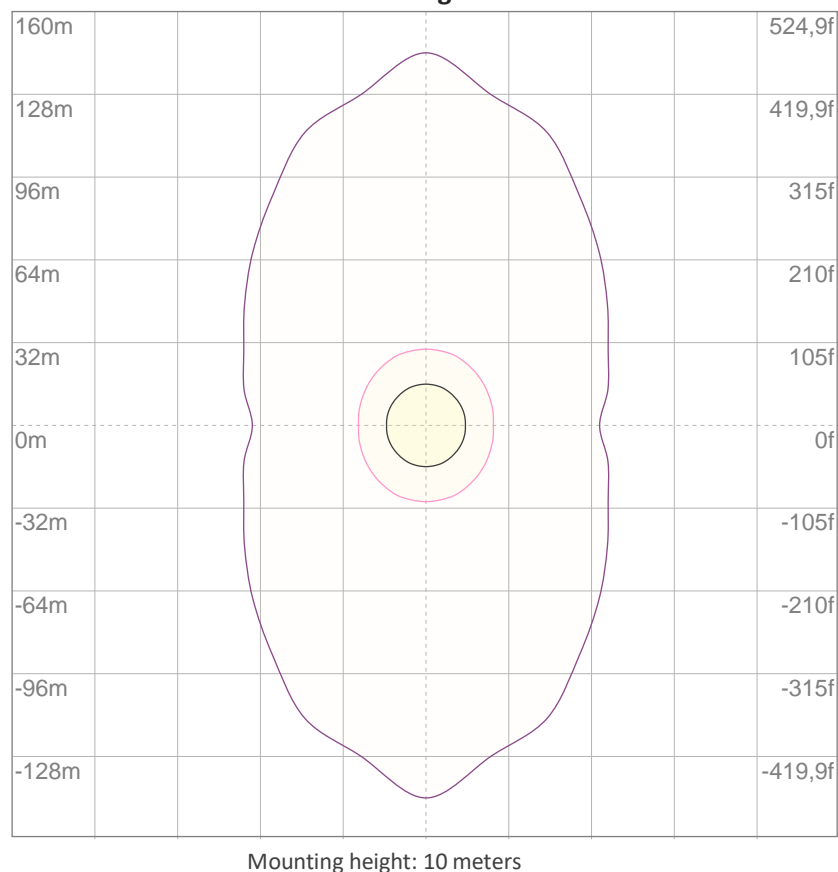
10%	53 cd
20%	106 cd
30%	159 cd
40%	212 cd
50%	265 cd
60%	318 cd
70%	371 cd
80%	425 cd
90%	478 cd

Conditions:

Number of c-planes: 16

Candela at center: 531 cd

**iso-lux diagram**



3%	0,159 lx
5%	0,265 lx
10%	0,531 lx
30%	1,59 lx
50%	2,65 lx

Conditions:

Number of c-planes: 16

Lux at center: 5,31 lx

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

**Potência**


**Vttagem: 12,0 V**

**Corrente: 1,52 A**

**Frequência: 0 Hz**

**FP: 1,0**

**THD**



**THD corrente: n/a**

**THD tensão: n/a**