

SLED9079 - BARRA DE LED 23WM 1800K 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 – 1340 lm/m

Potência – 22,2 W/m

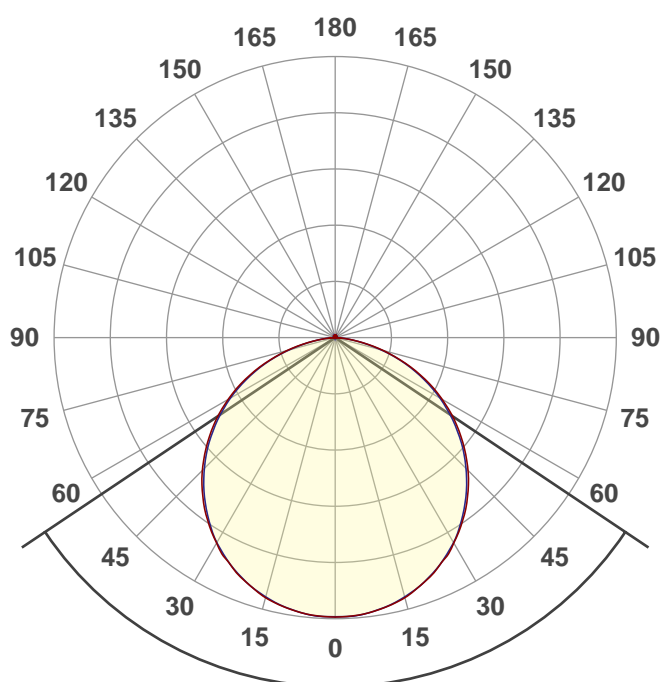
Intensidade pico – 471cd

CCT – 1834K



IRC – 95,2

Coordenada CIE 1931 – x- 0,546 y- 0,409



Facho de abertura

112,4°

Data do ensaio

10/04/2023 14:21:14

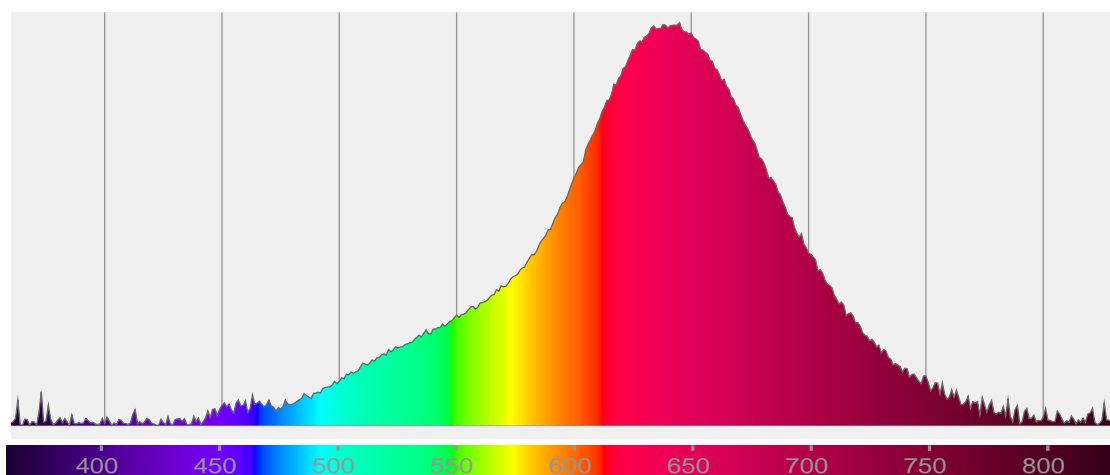
Rf 94,2

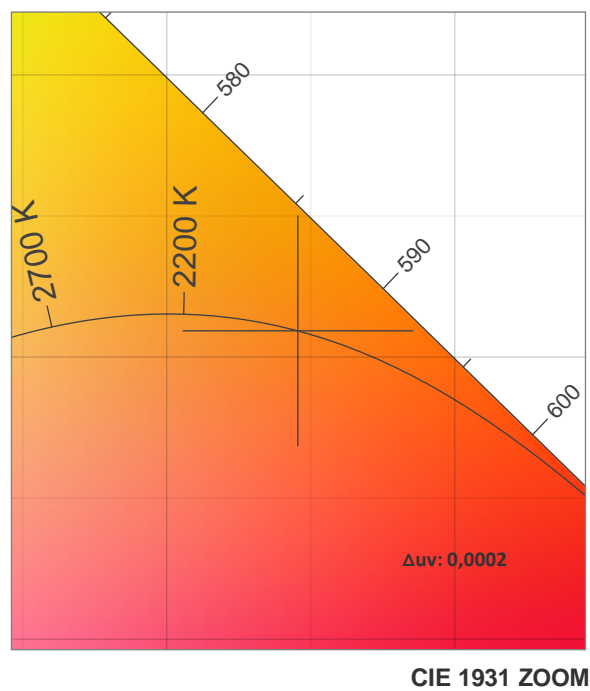
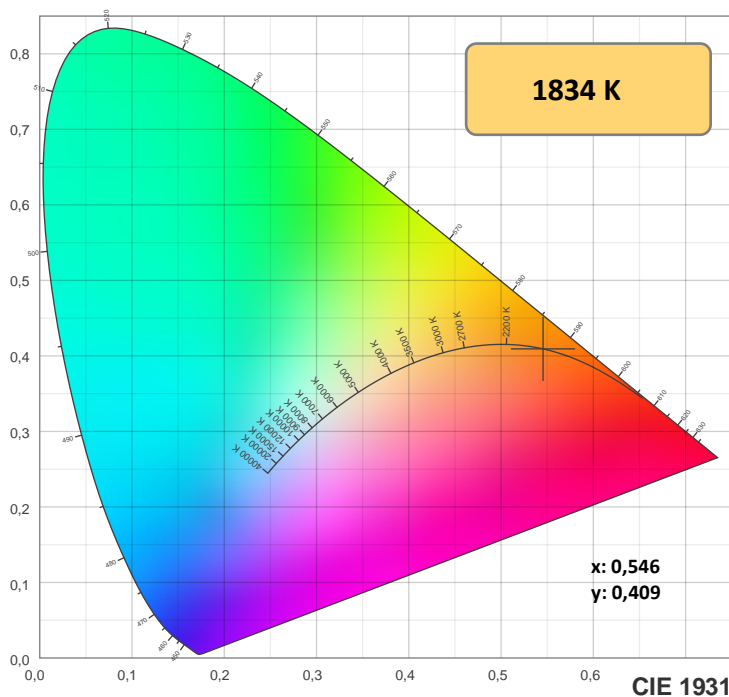
Fidelity index Rf

Rg 98,5

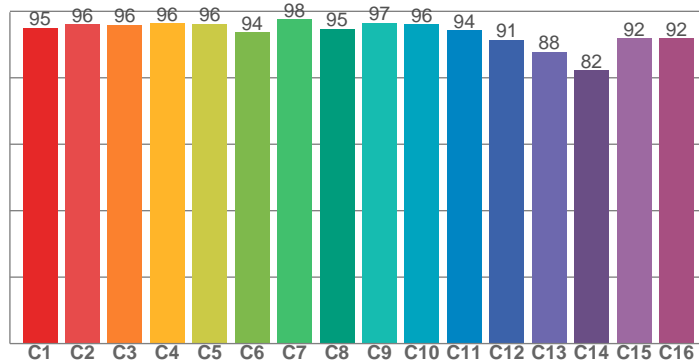
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	95	-2%	1%
2	96	-1%	1%
3	96	0%	-2%
4	96	-2%	-1%
5	96	-2%	1%
6	94	1%	5%
7	98	0%	2%
8	95	3%	2%
9	97	2%	0%
10	96	1%	-1%
11	94	2%	-3%
12	91	2%	-6%
13	88	0%	-12%
14	82	-5%	-17%
15	92	-4%	-4%
16	92	-5%	-3%

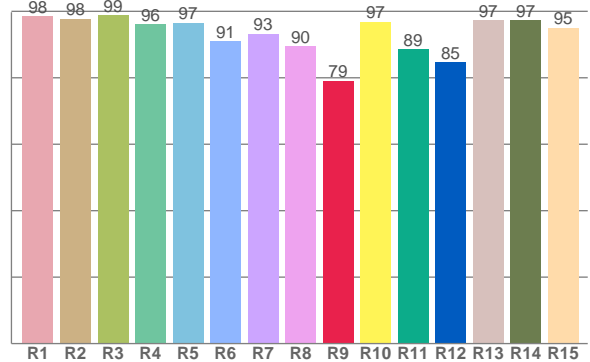




TM-30: 94,2



CRI: 95,2 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,5	97,8	98,8	96,2	96,6	91,0	93,2	89,5	79,1	96,9	88,7	84,7	97,3	97,3	95,0

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	96,1	95,9	96,4	96,3	93,6	97,6	94,8	96,6	96,1	94,3	91,4	87,9	82,3	91,8	91,9

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
1834 K	95,2	79,1	94,2	98,5	78,3	0,546	0,409	0,320	0,360	0,0002

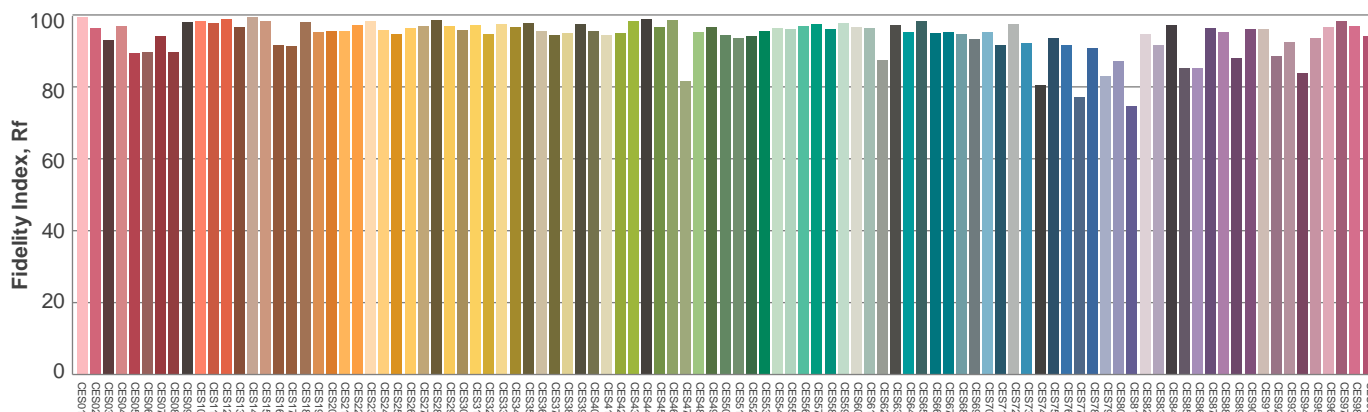
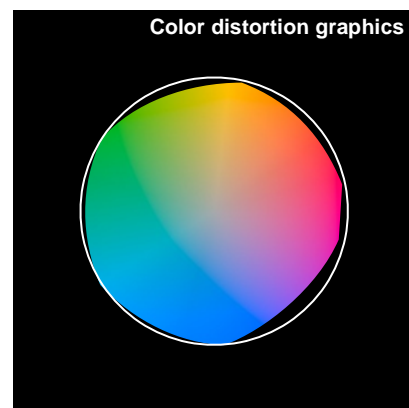
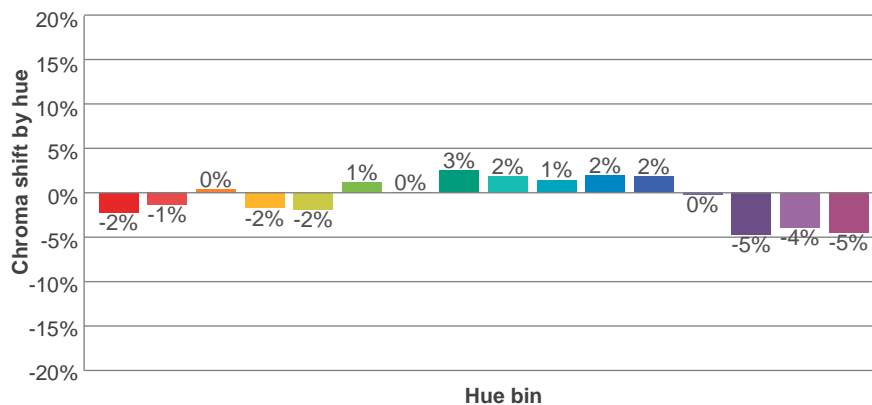
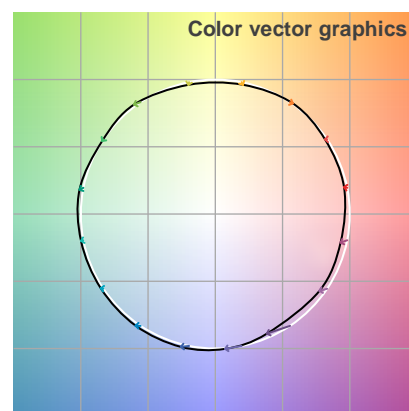
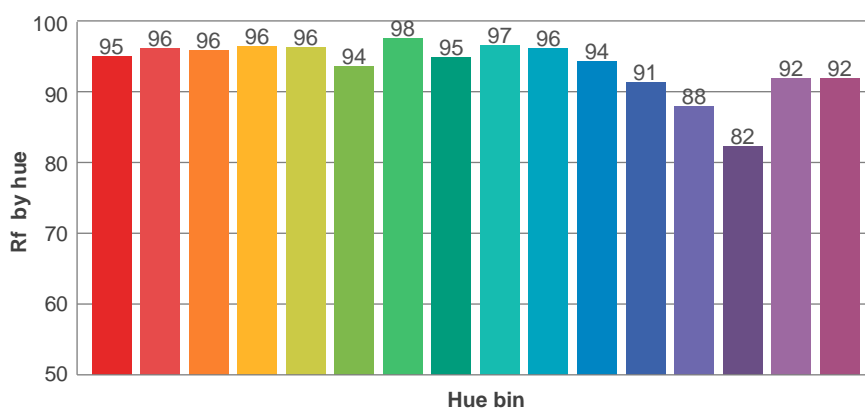
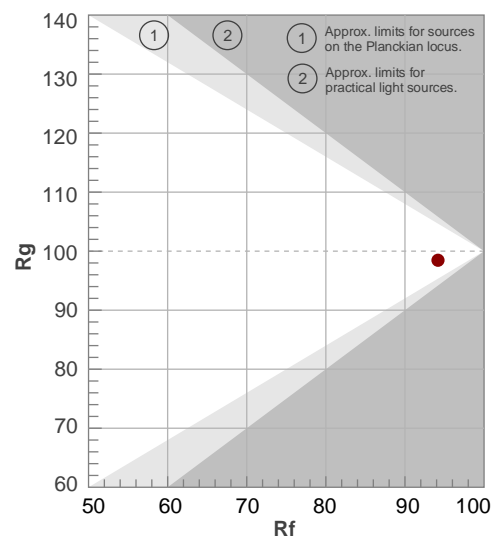
Rf 94,2

Fidelity index Rf

Rg 98,5

Gamut index Rg

Hue Bin	R _i	Shifts (%)	
		Chroma	Hue
1	95	-2%	1%
2	96	-1%	1%
3	96	0%	-2%
4	96	-2%	-1%
5	96	-2%	1%
6	94	1%	5%
7	98	0%	2%
8	95	3%	2%
9	97	2%	0%
10	96	1%	-1%
11	94	2%	-3%
12	91	2%	-6%
13	88	0%	-12%
14	82	-5%	-17%
15	92	-4%	-4%
16	92	-5%	-3%



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

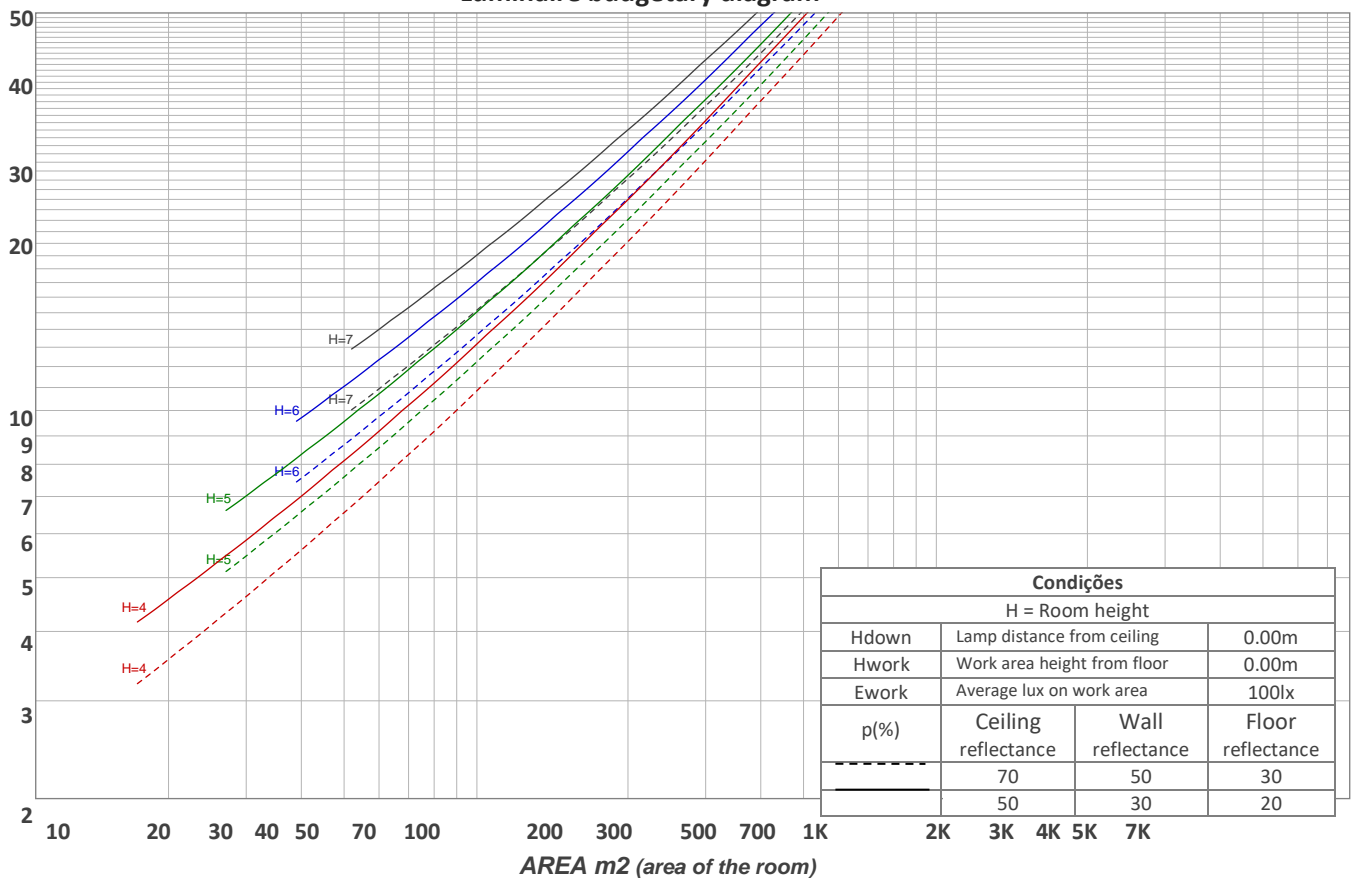
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,1	24,3	23,3	24,6	24,8	23,1	24,3	23,4	24,6	24,9
	3H	24,4	25,7	24,8	26,0	26,2	24,5	25,7	24,9	26,0	26,3
	4H	24,9	26,1	25,3	26,4	26,7	25,0	26,2	25,5	26,5	26,8
	6H	25,3	26,3	25,6	26,6	27,0	25,4	26,5	25,8	26,8	27,2
	8H	25,3	26,3	25,7	26,7	27,1	25,5	26,5	25,8	26,8	27,3
	12H	25,3	26,3	25,7	26,7	27,1	25,5	26,5	25,9	26,8	27,3
4H	2H	23,6	24,8	24,1	25,1	25,4	23,7	24,9	24,1	25,2	25,4
	3H	25,3	26,3	25,7	26,6	27,1	25,4	26,3	25,7	26,7	27,2
	4H	25,8	26,7	26,3	27,2	27,7	25,9	26,8	26,4	27,3	27,8
	6H	26,2	27,1	26,7	27,4	27,8	26,3	27,2	26,8	27,6	28,0
	8H	26,3	27,1	26,8	27,5	27,9	26,4	27,2	27,0	27,6	28,0
	12H	26,3	27,0	26,8	27,4	27,9	26,5	27,1	27,0	27,6	28,1
8H	4H	26,0	26,8	26,6	27,2	27,6	26,1	26,9	26,7	27,3	27,7
	6H	26,5	27,1	27,1	27,6	28,2	26,7	27,3	27,2	27,7	28,3
	8H	26,7	27,2	27,2	27,7	28,4	26,8	27,4	27,4	27,9	28,5
	12H	26,7	27,2	27,3	27,7	28,3	26,9	27,3	27,5	27,9	28,5
12H	4H	26,0	26,7	26,5	27,1	27,6	26,1	26,8	26,6	27,2	27,7
	6H	26,6	27,1	27,1	27,6	28,3	26,7	27,2	27,2	27,8	28,4
	8H	26,7	27,2	27,3	27,7	28,3	26,9	27,3	27,5	27,8	28,4
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					0,2 / -0,3				
S = 2.0H		0,5 / -0,6					0,5 / -0,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1340 lm total luminous flux											

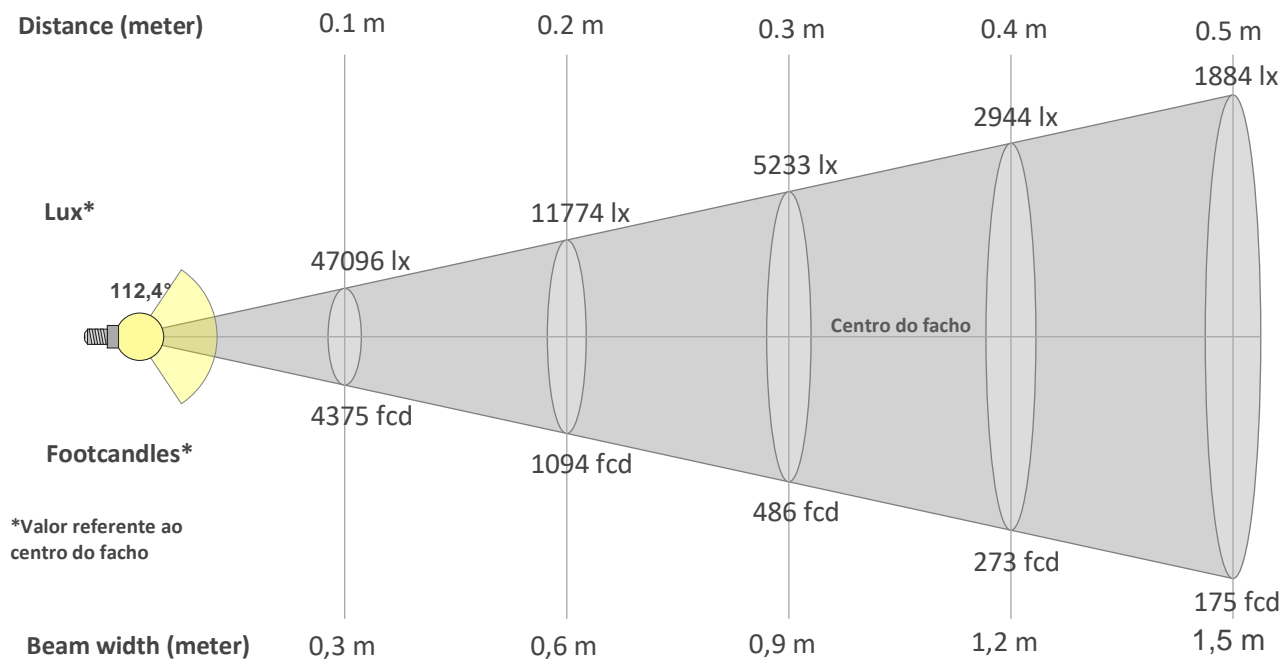
Coeficiente de utilização

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	100	96	106	102	98	94	97	94	91	93	91	88	90	87	86	83
2	99	91	84	78	96	89	83	77	85	80	75	82	77	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	68	63	72	67	62	69	65	61	59
4	83	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	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
471lx	118lx	52lx	29lx	19lx	13lx	10lx	7lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
43,8fcd	10,9fcd	4,9fcd	2,7fcd	1,8fcd	1,2fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	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°
471	469	463	454	439	421	400	375	347	317	283	247	208	168	125	84	44	14	2	2
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	44%	36%	27%	18%	9%	3%	0%	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°
471	469	463	452	438	420	399	372	343	312	278	242	204	163	123	80	42	14	2	2
100%	100%	98%	96%	93%	89%	85%	79%	73%	66%	59%	51%	43%	35%	26%	17%	9%	3%	0%	0%

Intensities in 180° c-plane

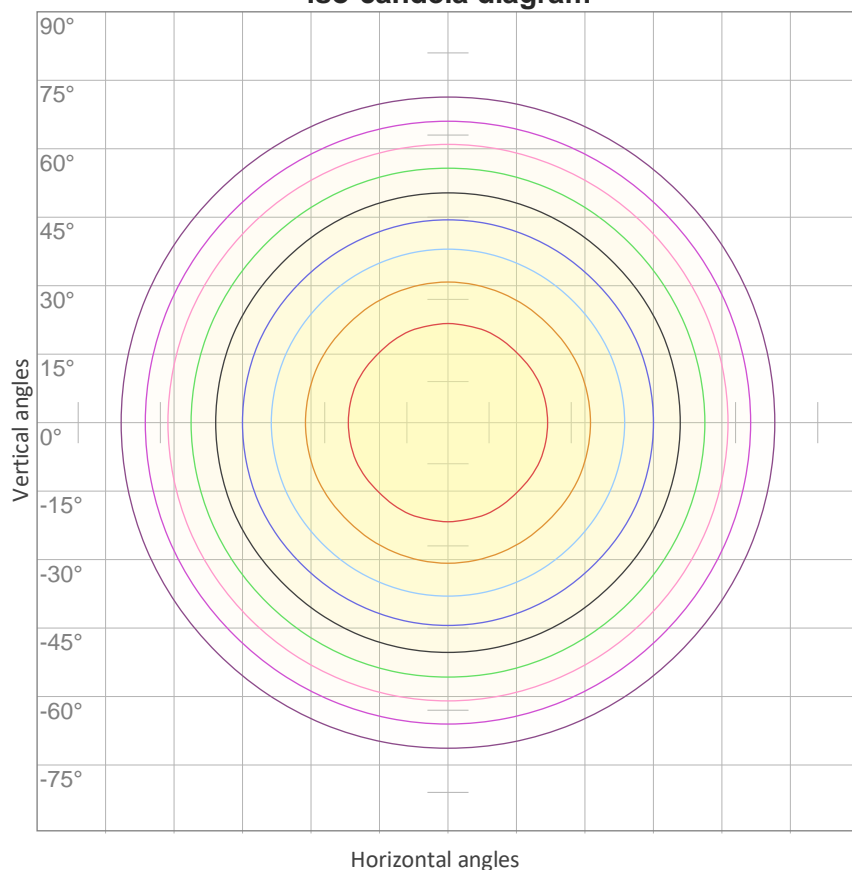
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
471	469	463	454	439	421	400	375	347	317	283	247	208	168	125	84	44	14	2	2
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	44%	36%	27%	18%	9%	3%	0%	0%

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°
471	469	463	452	438	420	399	372	343	312	278	242	204	163	123	80	42	14	2	2
100%	100%	98%	96%	93%	89%	85%	79%	73%	66%	59%	51%	43%	35%	26%	17%	9%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112,4°	158,9°	170,9°	79,1%	53,8%

iso-candela diagram



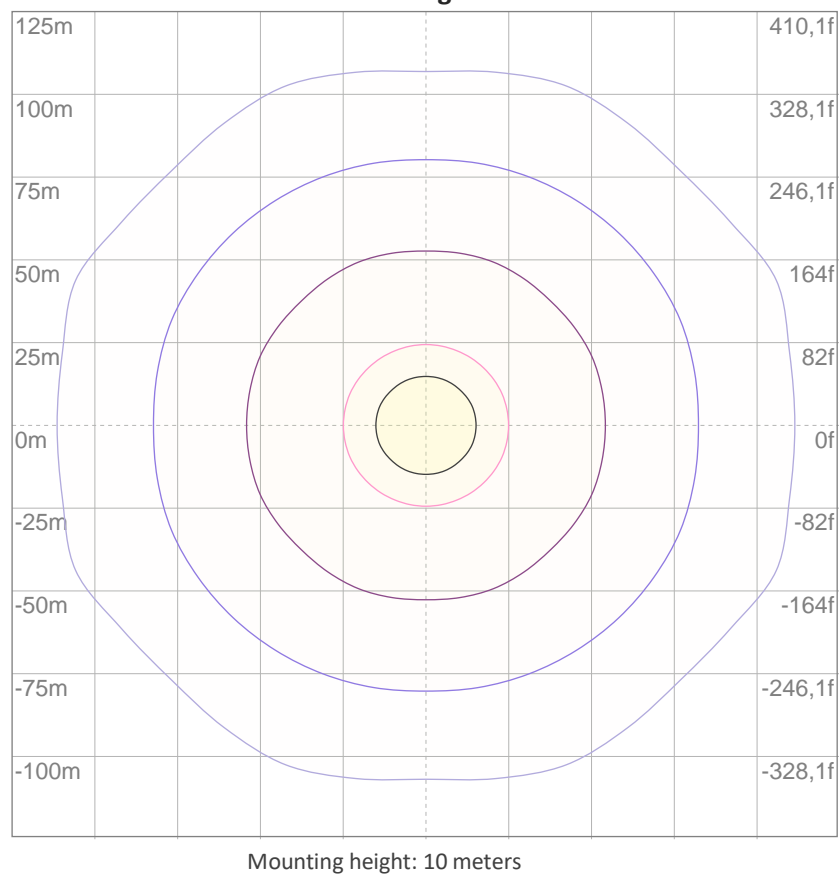
10%	47 cd
20%	94 cd
30%	141 cd
40%	188 cd
50%	235 cd
60%	283 cd
70%	330 cd
80%	377 cd
90%	424 cd

Conditions:

Number of c-planes: 16

Candela at center: 471 cd

iso-lux diagram



3%	0,141 lx
5%	0,235 lx
10%	0,471 lx
30%	1,41 lx
50%	2,35 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,71 lx

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

Potência

Vttagem: 12,0 V

Corrente: 1,85 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a