

SLED9099 - BARRA DE LED 18WM 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 – 1700 lm/m

Potência – 18,5 W/m

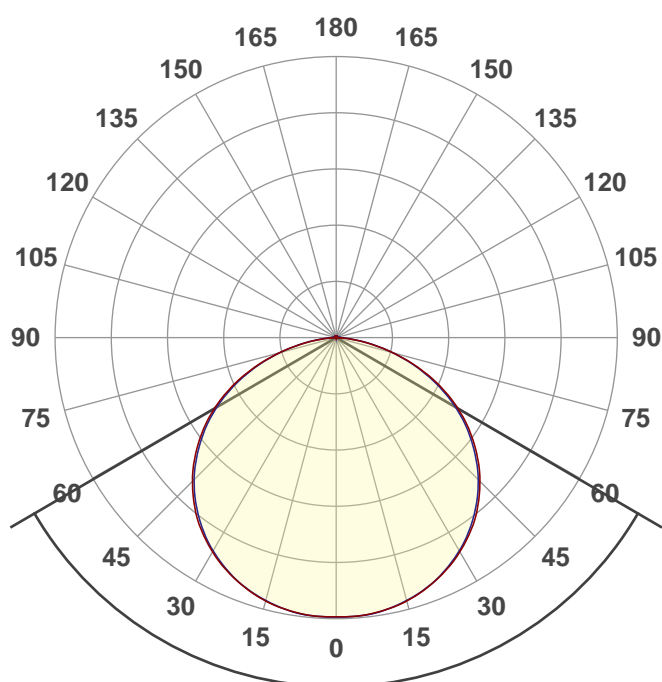
Intensidade pico – 548cd

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

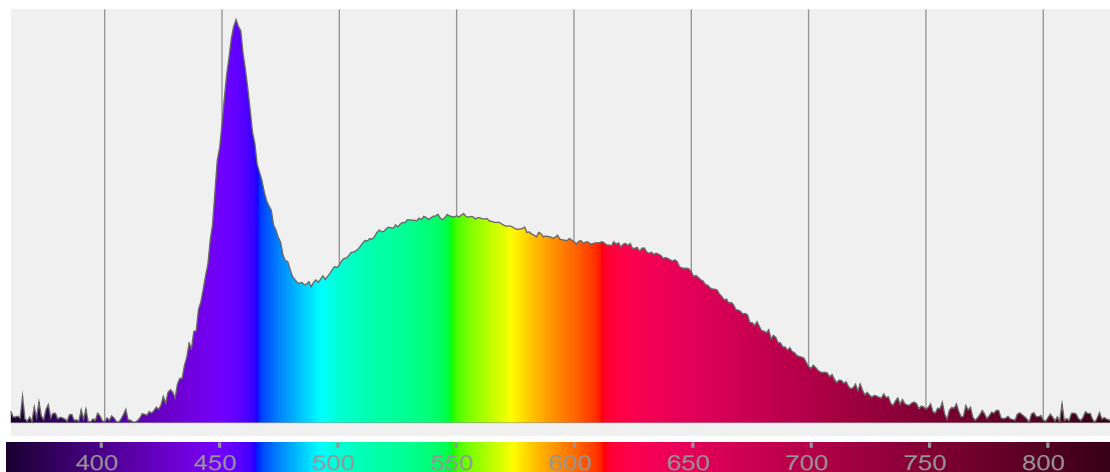
Rf 89,1

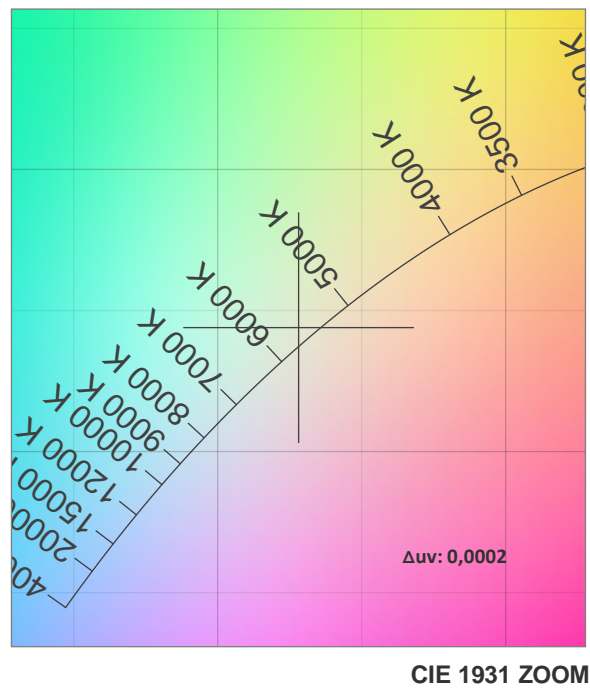
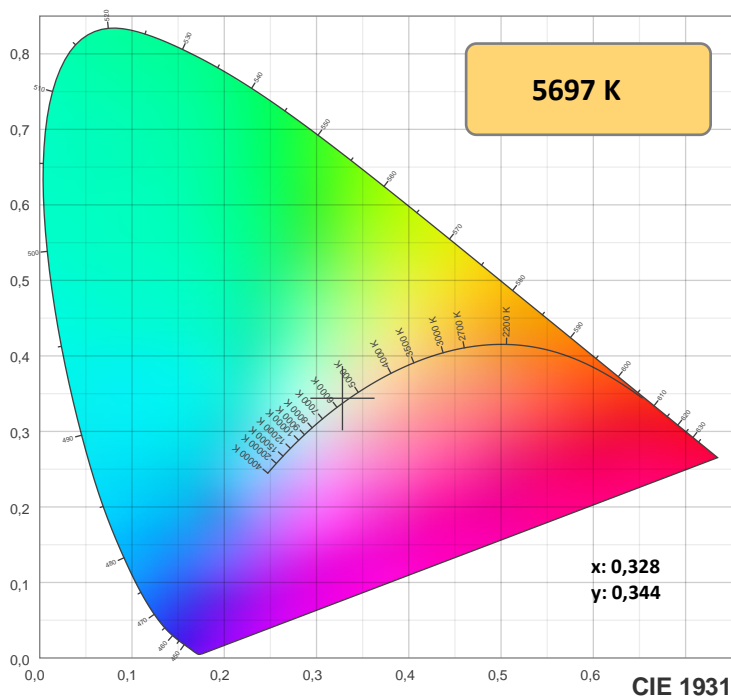
Fidelity index Rf

Rg 96,4

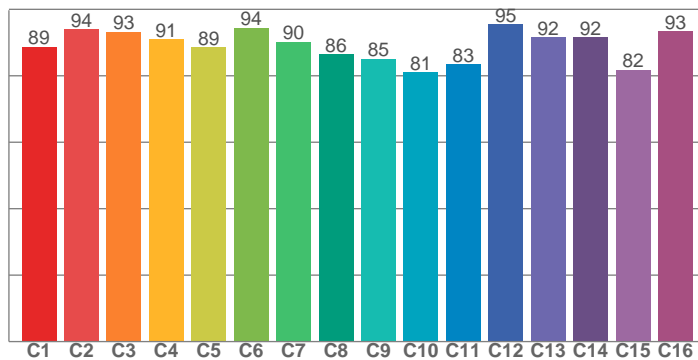
Gamut index Rg

Hue Bin	R _f	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%

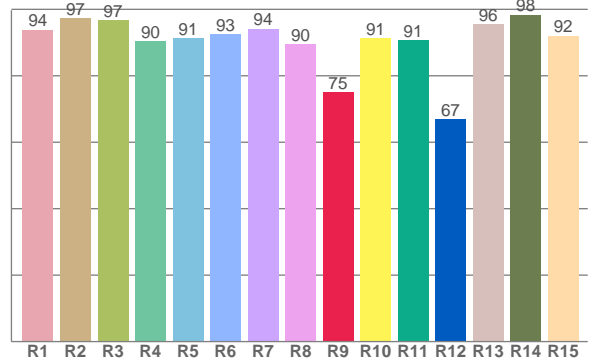




TM-30: 89,1



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

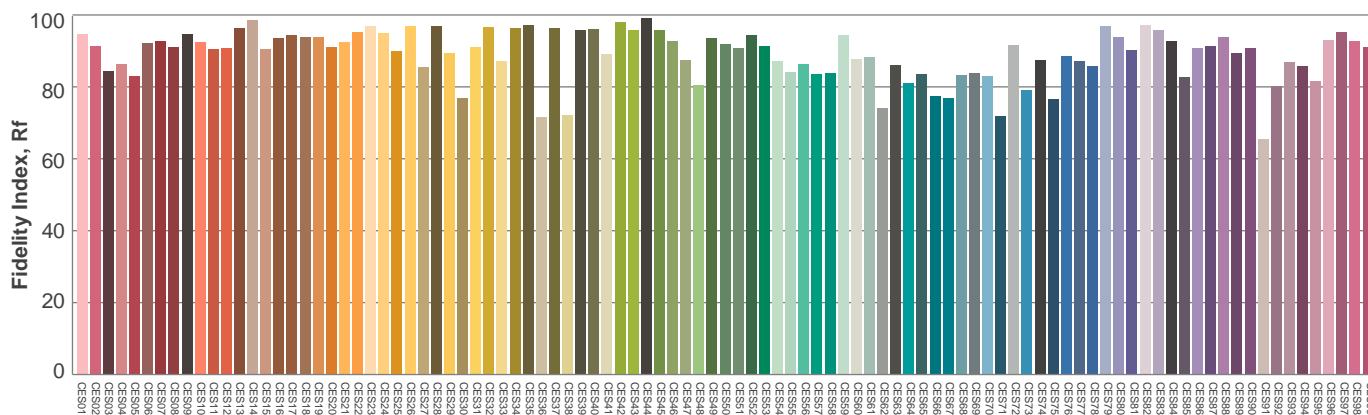
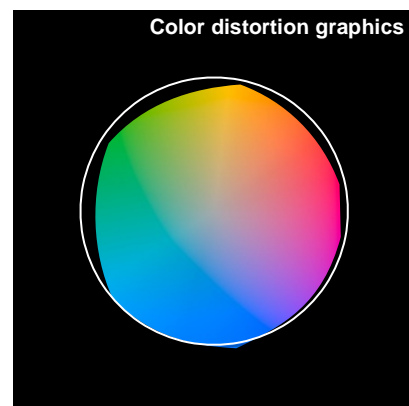
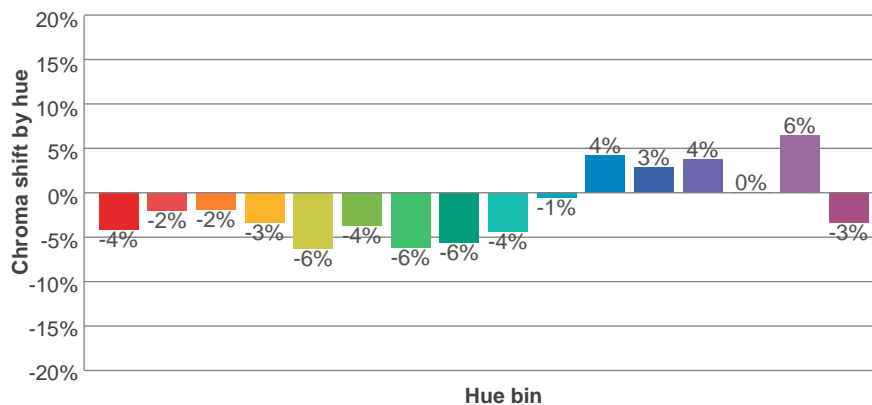
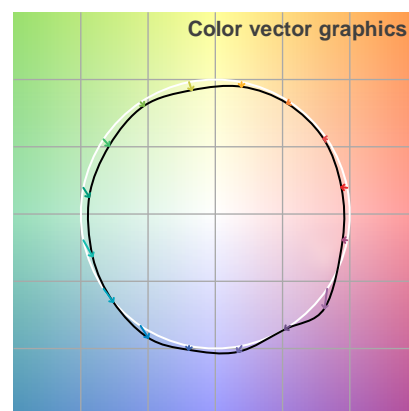
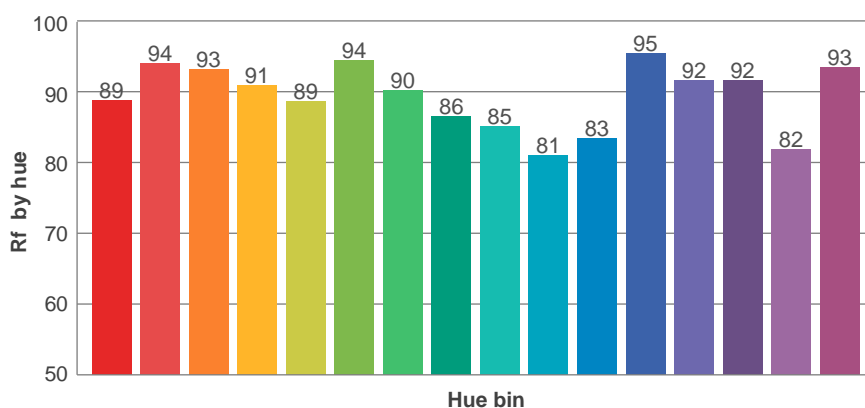
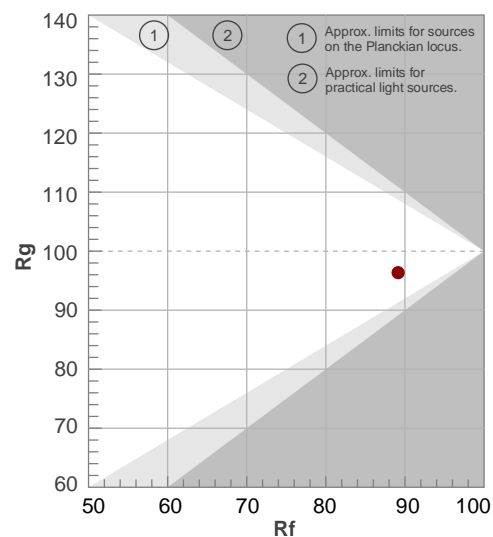
Rf 89,1

Fidelity index Rf

Rg 96,4

Gamut index Rg

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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%



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

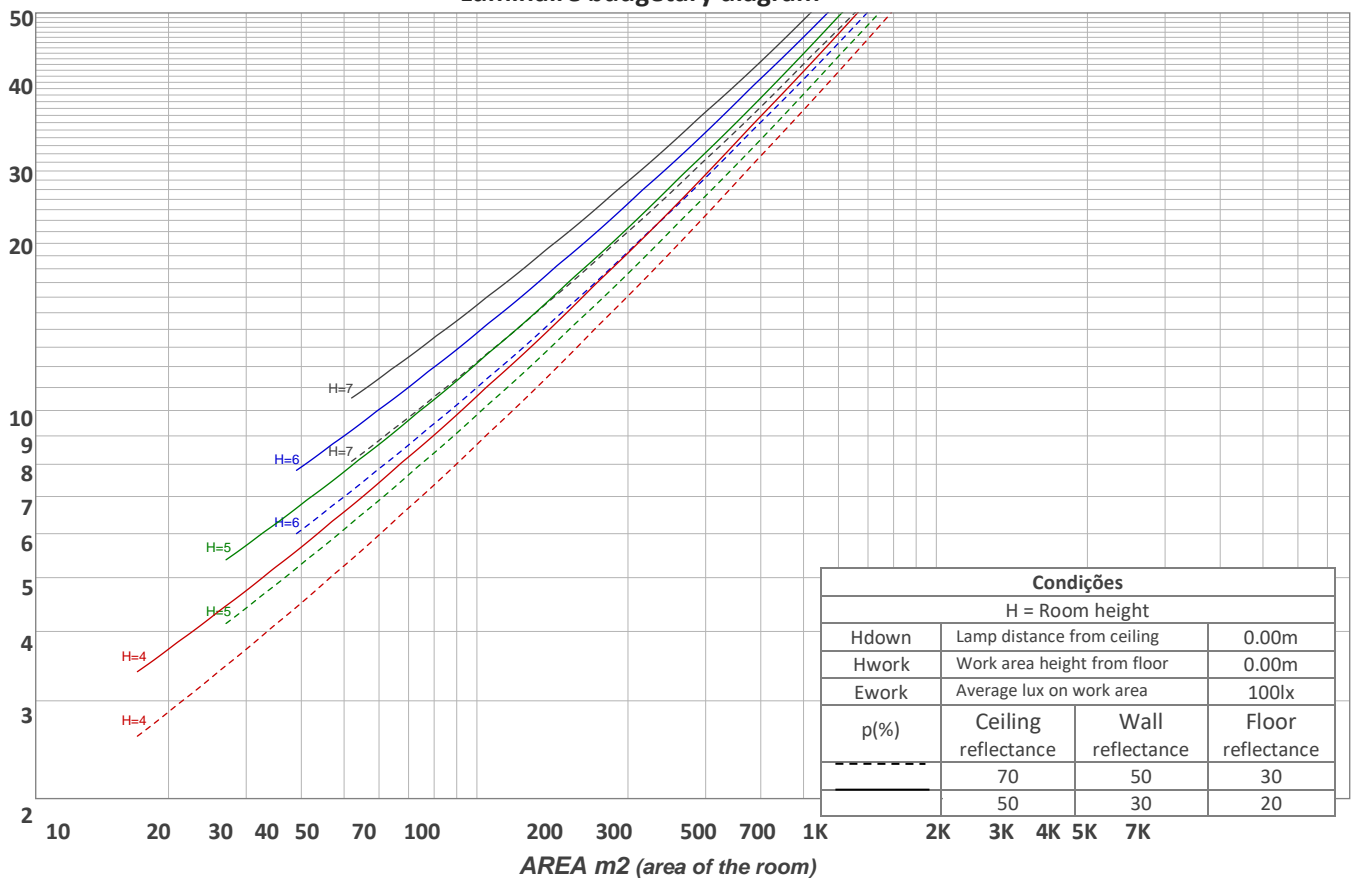
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24,0	25,3	24,3	25,6	25,8	24,1	25,3	24,3	25,7	25,9
	3H	25,5	26,8	25,9	27,1	27,3	25,6	26,9	26,0	27,2	27,4
	4H	26,1	27,3	26,5	27,6	27,9	26,2	27,4	26,6	27,7	28,0
	6H	26,5	27,6	26,8	27,9	28,3	26,7	27,8	27,0	28,1	28,5
	8H	26,6	27,6	26,9	27,9	28,4	26,8	27,9	27,2	28,2	28,6
	12H	26,6	27,6	27,0	28,0	28,4	26,9	27,9	27,3	28,2	28,7
4H	2H	24,7	25,9	25,1	26,2	26,4	24,7	25,9	25,1	26,2	26,5
	3H	26,4	27,4	26,8	27,8	28,2	26,5	27,5	26,9	27,9	28,3
	4H	27,0	28,0	27,5	28,4	28,9	27,2	28,1	27,6	28,5	29,1
	6H	27,5	28,4	28,0	28,8	29,1	27,7	28,6	28,2	28,9	29,3
	8H	27,6	28,4	28,1	28,8	29,2	27,9	28,7	28,4	29,1	29,5
	12H	27,7	28,4	28,2	28,8	29,3	28,0	28,6	28,5	29,1	29,6
8H	4H	27,3	28,1	27,8	28,5	28,9	27,4	28,2	27,9	28,6	29,0
	6H	27,9	28,5	28,4	29,0	29,6	28,1	28,7	28,6	29,2	29,7
	8H	28,1	28,7	28,6	29,2	29,8	28,4	28,9	28,9	29,4	30,1
	12H	28,2	28,7	28,8	29,2	29,8	28,5	29,0	29,1	29,5	30,1
12H	4H	27,3	28,0	27,8	28,4	28,9	27,4	28,1	27,9	28,5	29,0
	6H	28,0	28,5	28,5	29,0	29,7	28,1	28,7	28,7	29,2	29,9
	8H	28,2	28,6	28,8	29,2	29,8	28,4	28,9	29,0	29,4	30,0
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 1700 lm total luminous flux											

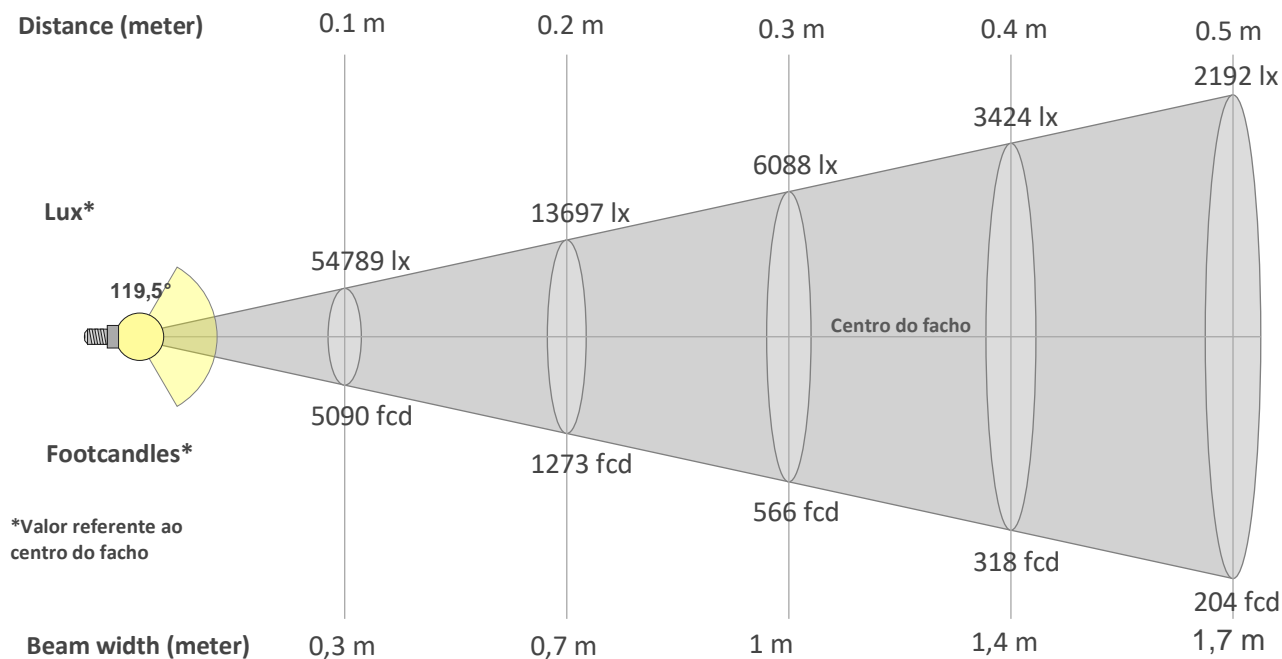
Coeficiente de utilização

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
548lx	137lx	61lx	34lx	22lx	15lx	11lx	9lx	7lx	5lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	2lx	1lx
50,9fcd	12,7fcd	5,7fcd	3,2fcd	2fcd	1,4fcd	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°
548	547	542	534	521	505	485	460	432	398	361	319	274	224	171	116	65	24	4	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°
548	547	542	533	521	504	482	457	427	393	355	314	268	219	167	115	66	26	5	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

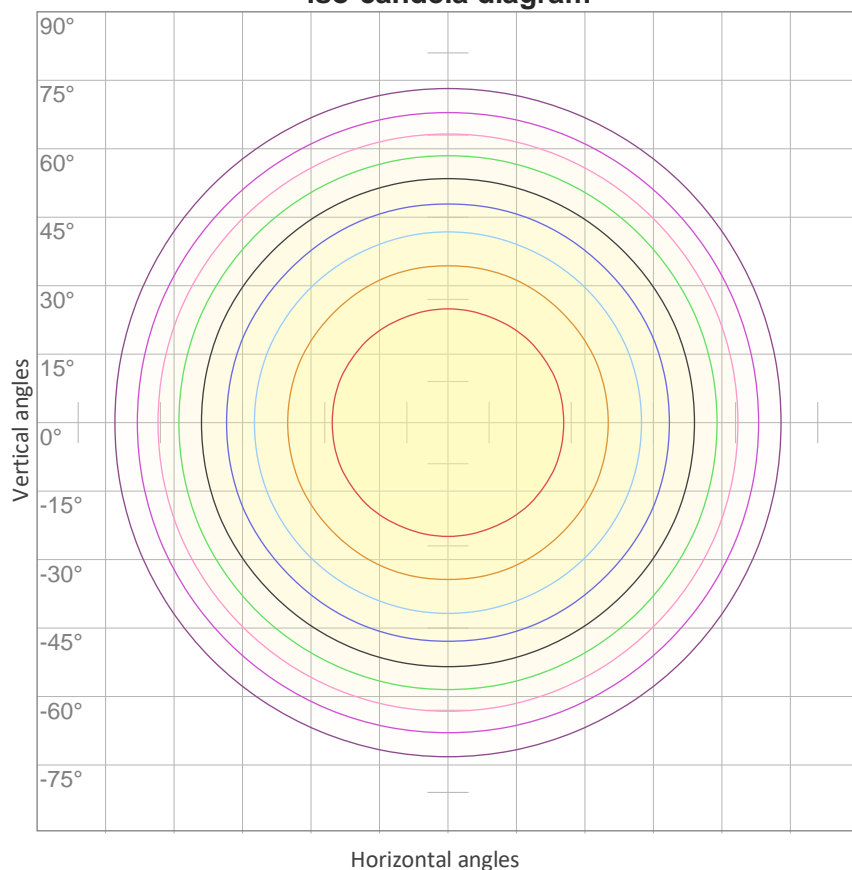
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
548	547	542	534	521	505	485	460	432	398	361	319	274	224	171	116	65	24	4	2
100%	100%	99%	98%	95%	92%	88%	84%	79%	73%	66%	58%	50%	41%	31%	21%	12%	4%	1%	0%

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°
548	547	542	533	521	504	482	457	427	393	355	314	268	219	167	115	66	26	5	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



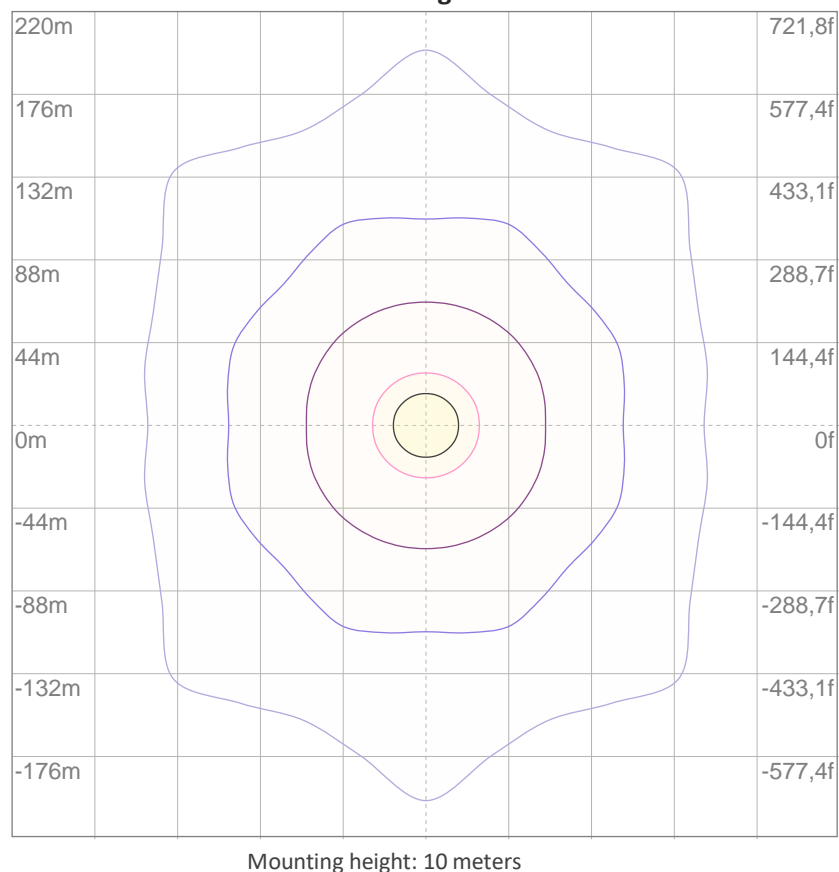
10%	55 cd
20%	110 cd
30%	164 cd
40%	219 cd
50%	274 cd
60%	329 cd
70%	384 cd
80%	438 cd
90%	493 cd

Conditions:

Number of c-planes: 16

Candela at center: 548 cd

iso-lux diagram



3%	0,164 lx
5%	0,274 lx
10%	0,548 lx
30%	1,64 lx
50%	2,74 lx

Conditions:

Number of c-planes: 16

Lux at center: 5,48 lx

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

Potência

Vttagem: 12,0 V

Corrente: 1,54 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a