

SLED 9151 - BARRA DE LED LUMINA BACK 12W 24V TUNABLE WHITE 5700K 90



Fluxo luminoso – 588 lm/m

Potência – 5,4 W/m

Intensidade pico – 251cd

CCT – 5864K

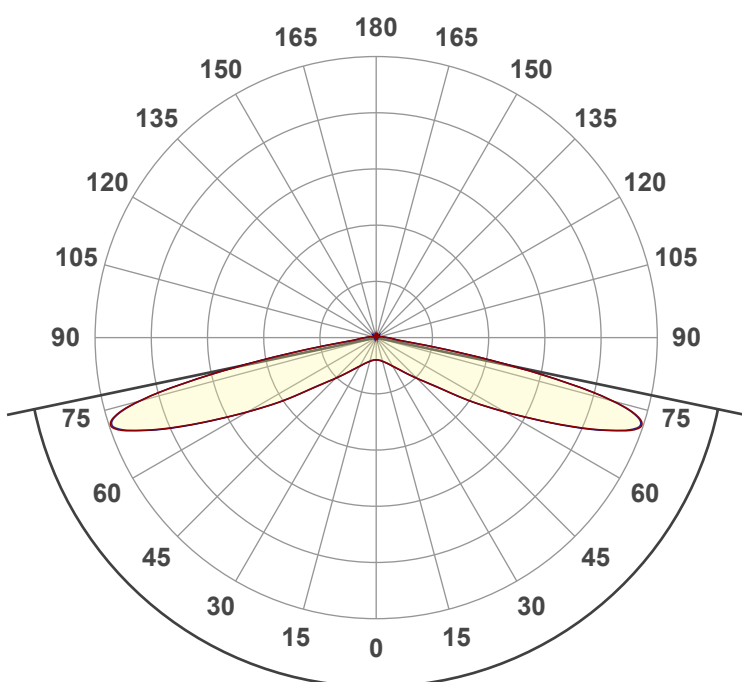


IRC – 91,5

Coordenada CIE 1931 – x- 0,325 y- 0,338

Data do ensaio

29/10/2024 16:51:15



Facho de abertura

156,3°

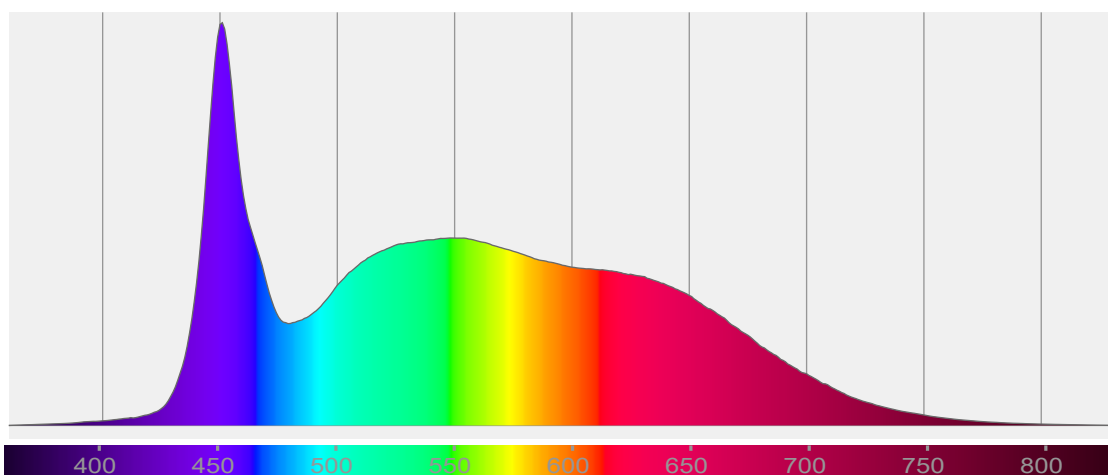
Rf 89,0

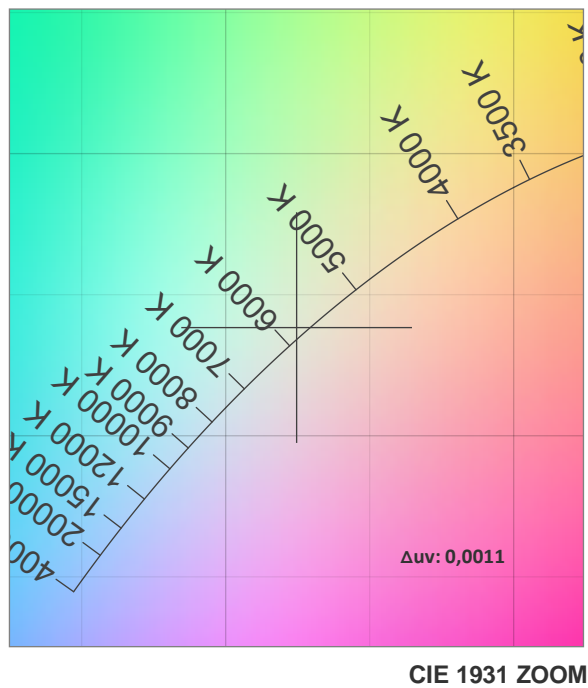
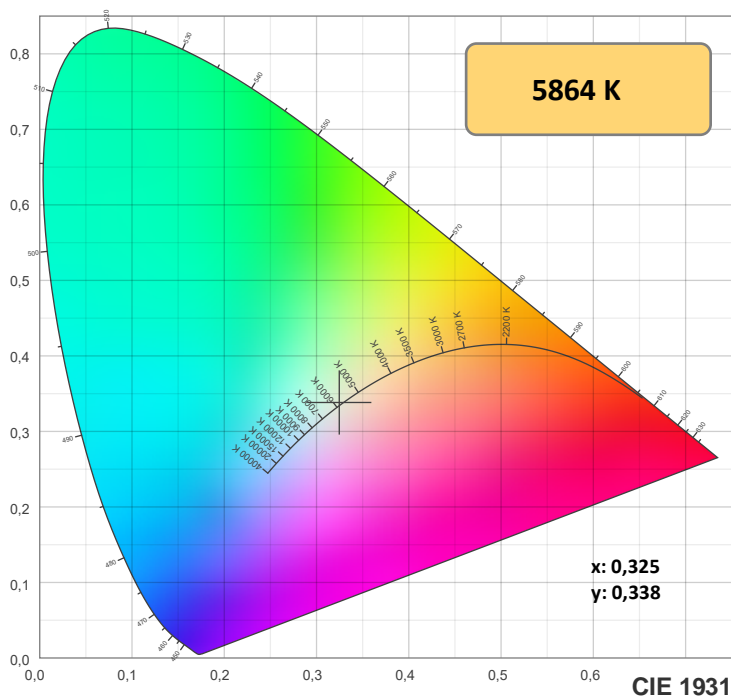
Fidelity index Rf

Rg 99,3

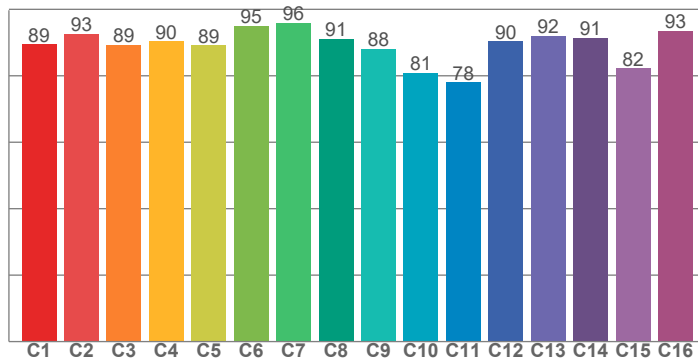
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	89	-5%	0%
2	93	-3%	2%
3	89	-2%	5%
4	90	-1%	4%
5	89	-1%	2%
6	95	0%	0%
7	96	-2%	-1%
8	91	-5%	2%
9	88	-6%	9%
10	81	-3%	12%
11	78	2%	14%
12	90	3%	6%
13	92	7%	1%
14	91	4%	-3%
15	82	10%	-13%
16	93	-2%	-3%

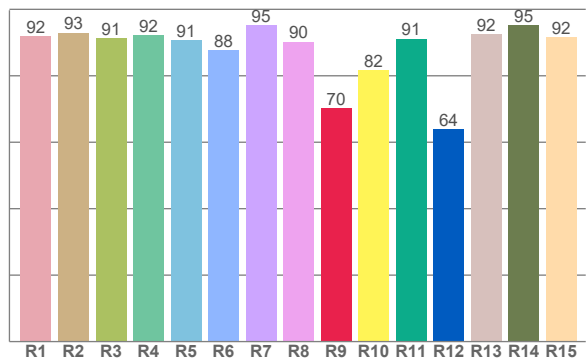




TM-30: 89,0



CRI: 91,5 (R1-R8)



CRIRa R1-R8 / CRIRe R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,9	93,0	91,3	92,1	90,7	87,7	95,3	90,2	70,3	81,7	91,2	63,9	92,4	95,1	91,5

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,5	92,6	89,2	90,3	89,2	95,1	95,8	91,2	88,2	81,0	78,0	90,4	91,9	91,3	82,2	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
5864 K	91,5	70,3	89,0	99,3	89,0	0,325	0,338	0,203	0,317	0,0011

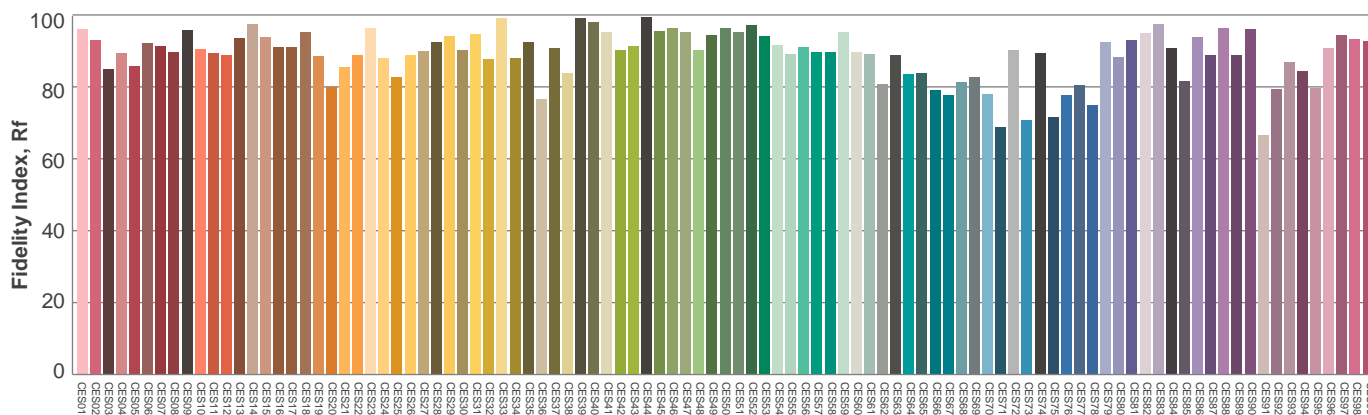
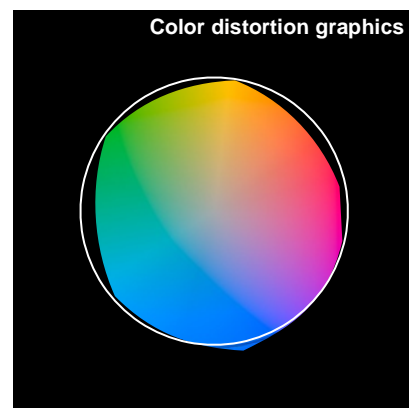
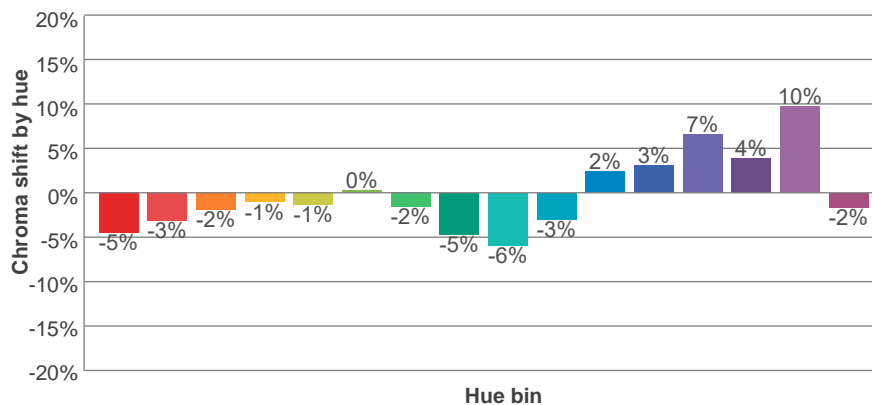
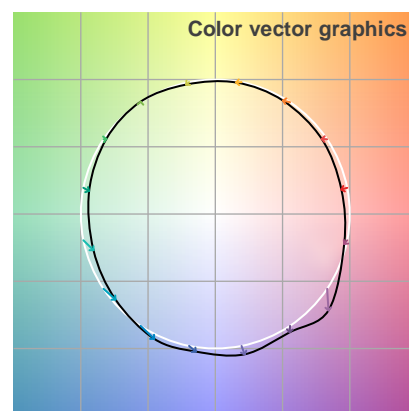
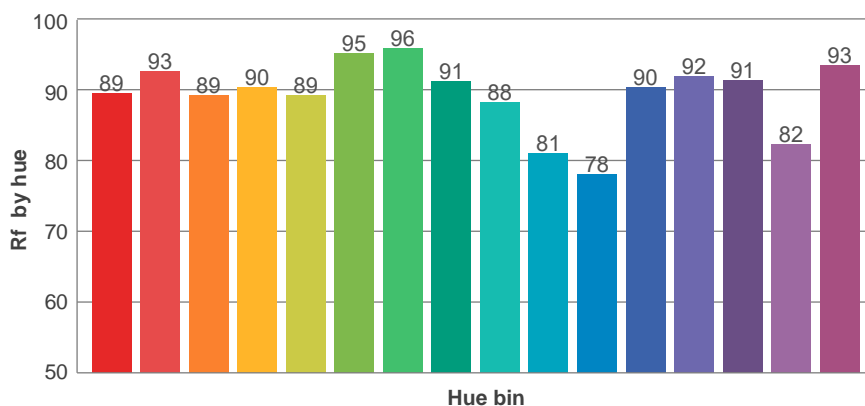
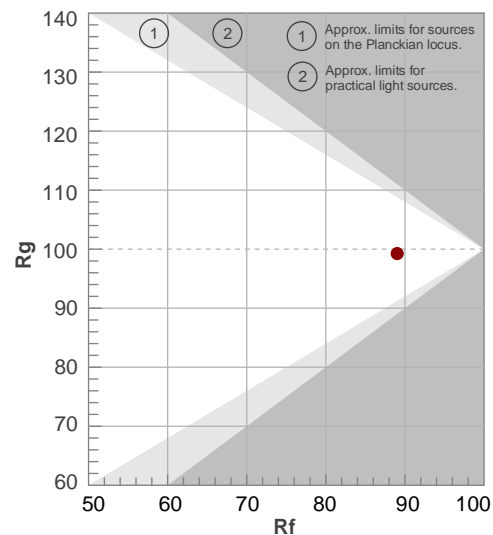
Rf 89,0

Fidelity index Rf

Rg 99,3

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	89	-5%	0%
2	93	-3%	2%
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5	89	-1%	2%
6	95	0%	0%
7	96	-2%	-1%
8	91	-5%	2%
9	88	-6%	9%
10	81	-3%	12%
11	78	2%	14%
12	90	3%	6%
13	92	7%	1%
14	91	4%	-3%
15	82	10%	-13%
16	93	-2%	-3%



Glare Evaluation According to UGR

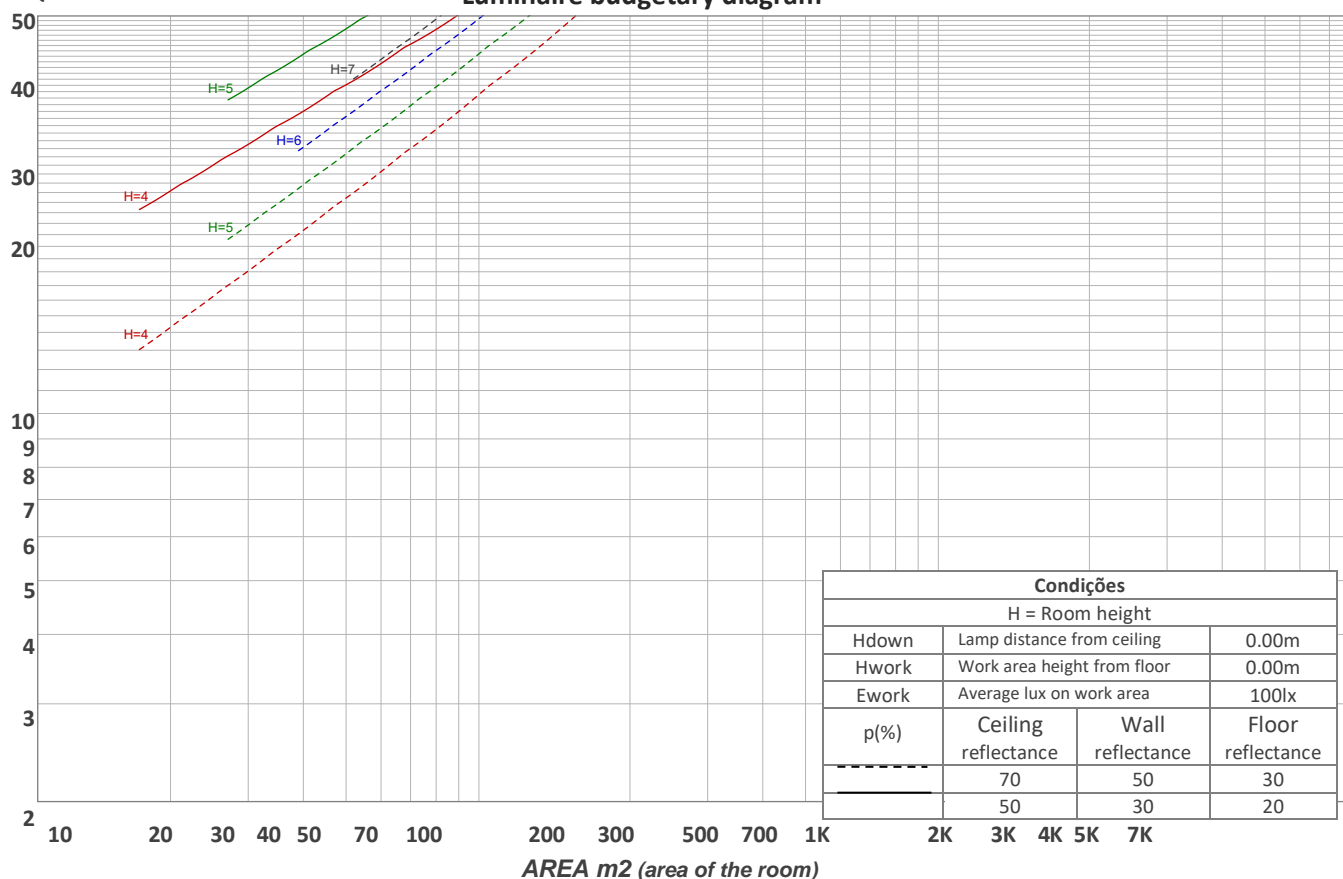
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,1	24,9	23,5	25,4	25,7	23,2	25,0	23,6	25,4	25,7
	3H	29,4	31,2	29,9	31,7	31,9	29,4	31,3	29,9	31,7	32,0
	4H	31,8	33,5	32,2	33,9	34,2	31,8	33,6	32,2	33,9	34,3
	6H	32,6	34,2	33,0	34,5	35,0	32,7	34,3	33,0	34,6	35,0
	8H	32,6	34,2	33,0	34,5	35,0	32,7	34,3	33,1	34,6	35,1
	12H	32,6	34,2	33,0	34,5	35,0	32,6	34,2	33,1	34,5	35,1
4H	2H	25,4	27,2	25,9	27,6	27,9	25,4	27,2	25,9	27,6	27,9
	3H	31,1	32,7	31,5	33,0	33,5	31,2	32,7	31,6	33,1	33,6
	4H	33,2	34,7	33,8	35,1	35,7	33,3	34,8	33,8	35,2	35,8
	6H	34,1	35,4	34,6	35,8	36,2	34,1	35,4	34,6	35,9	36,3
	8H	34,1	35,3	34,6	35,7	36,2	34,2	35,4	34,7	35,8	36,2
	12H	34,1	35,1	34,6	35,6	36,2	34,2	35,2	34,7	35,7	36,2
8H	4H	33,8	35,0	34,3	35,4	35,9	33,8	35,0	34,4	35,5	35,9
	6H	34,6	35,6	35,2	36,1	36,7	34,7	35,7	35,2	36,2	36,8
	8H	34,7	35,6	35,2	36,1	36,8	34,7	35,6	35,3	36,2	36,9
	12H	34,7	35,5	35,3	36,0	36,7	34,8	35,5	35,4	36,1	36,7
12H	4H	33,8	34,8	34,3	35,3	35,9	33,9	34,9	34,4	35,4	35,9
	6H	34,6	35,5	35,2	36,1	36,8	34,7	35,6	35,2	36,1	36,8
	8H	34,7	35,5	35,3	36,0	36,7	34,8	35,5	35,4	36,1	36,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					0,0 / 0,0				
S = 1.5H		0,1 / -0,1					0,1 / -0,1				
S = 2.0H		0,2 / -0,3					0,2 / -0,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 588 lm total luminous flux											

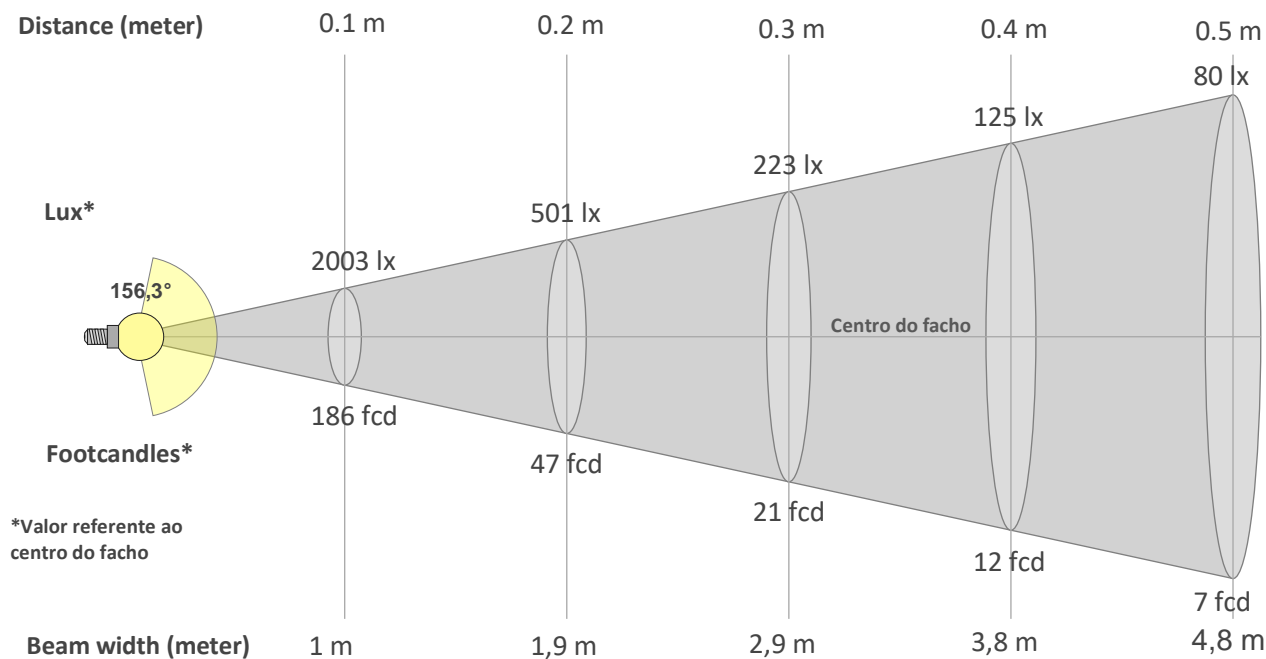
Coeficiente de utilização

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	100	100	100	98
1	101	93	85	79	97	90	83	77	85	79	74	80	76	72	76	73	69	66
2	85	72	61	52	82	70	60	51	65	57	49	61	54	48	58	52	46	43
3	74	58	45	35	70	56	44	35	52	42	34	49	40	33	45	38	32	29
4	65	48	35	25	62	46	34	25	43	33	24	40	31	24	37	29	23	20
5	58	41	28	19	56	39	28	19	36	26	18	34	25	18	32	24	17	14
6	53	35	23	15	50	34	23	15	32	22	14	30	21	14	28	20	14	11
7	48	31	20	12	46	30	19	12	28	19	12	26	18	11	25	17	11	8
8	45	28	17	10	43	27	17	10	25	16	10	24	15	9	22	15	9	7
9	42	25	15	9	40	25	15	8	23	14	8	22	14	8	20	13	8	5
10	39	23	14	7	37	22	13	7	21	13	7	20	12	7	19	12	7	5

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
20lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
1,9fcd	0,5fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
20	20	21	22	24	26	30	34	42	52	67	95	134	186	244	219	72	17	10	7
100%	101%	105%	111%	119%	130%	148%	172%	208%	259%	335%	474%	669%	930%	1218%	1094%	359%	85%	50%	33%

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°
20	20	21	22	24	26	30	35	42	52	66	95	134	187	242	218	72	16	10	6
100%	101%	104%	110%	118%	131%	149%	173%	208%	258%	331%	472%	667%	935%	1210%	1090%	362%	81%	49%	31%

Intensities in 180° c-plane

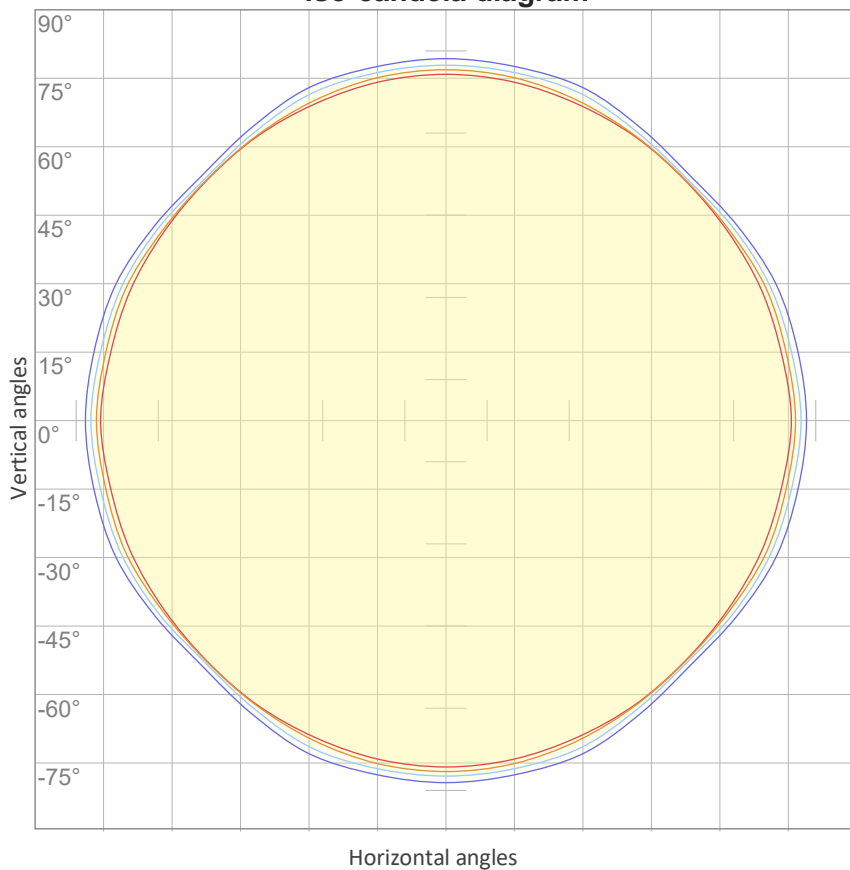
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
20	20	21	22	24	26	30	34	42	52	67	95	134	186	244	219	72	17	10	7
100%	101%	105%	111%	119%	130%	148%	172%	208%	259%	335%	474%	669%	930%	1218%	1094%	359%	85%	50%	33%

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°
20	20	21	22	24	26	30	35	42	52	66	95	134	187	242	218	72	16	10	6
100%	101%	104%	110%	118%	131%	149%	173%	208%	258%	331%	472%	667%	935%	1210%	1090%	362%	81%	49%	31%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
156,3°	165°	185,7°	28,9%	10,2%

iso-candela diagram



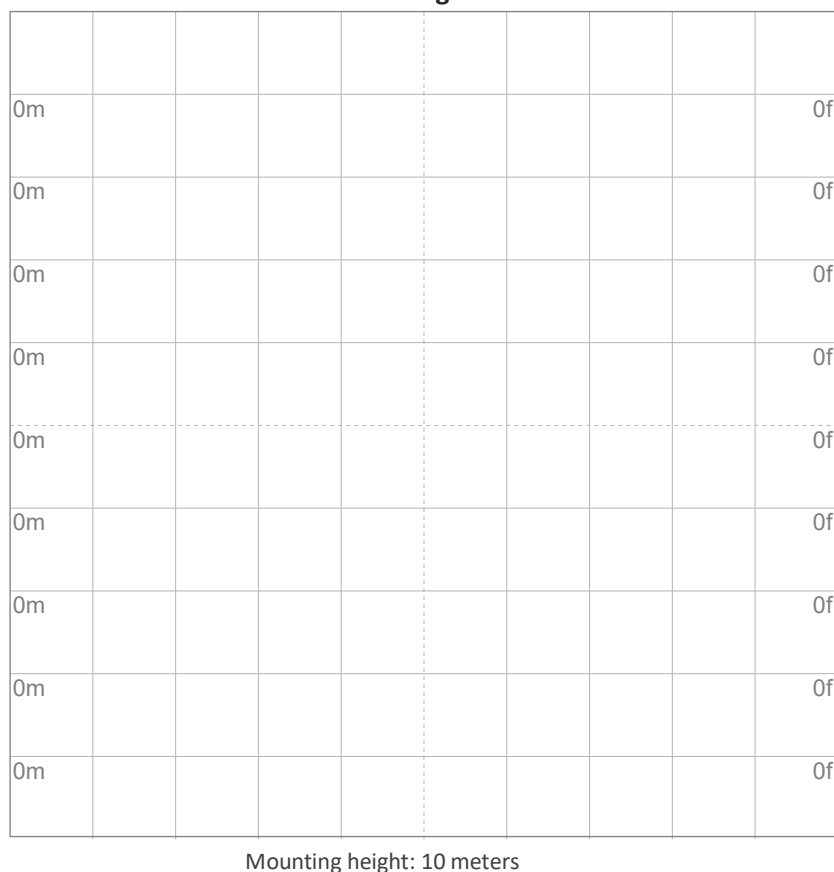
10%	2 cd
20%	4 cd
30%	6 cd
40%	8 cd
50%	10 cd
60%	12 cd
70%	14 cd
80%	16 cd
90%	18 cd

Conditions:

Number of c-planes: 16

Candela at center: 20 cd

iso-lux diagram



3%	6,01m lx
5%	10,0m lx
10%	20,0m lx
30%	60,1m lx
50%	0,100 lx

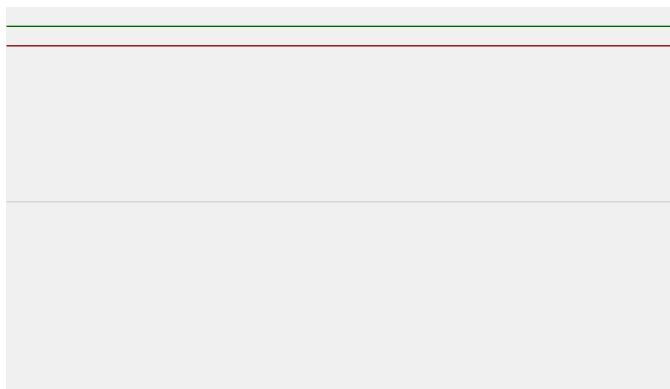
Conditions:

Number of c-planes: 16

Lux at center: 0,200 lx

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

Potência



Voltagem: 24,0 V

Corrente: 0,225 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a