

FITA SLED8230 20WM 3000K 95 - 1m



Fluxo luminoso – 1407 lm/m

Potência – 21,0 W/m

Intensidade pico – 473cd

CCT – 2955K

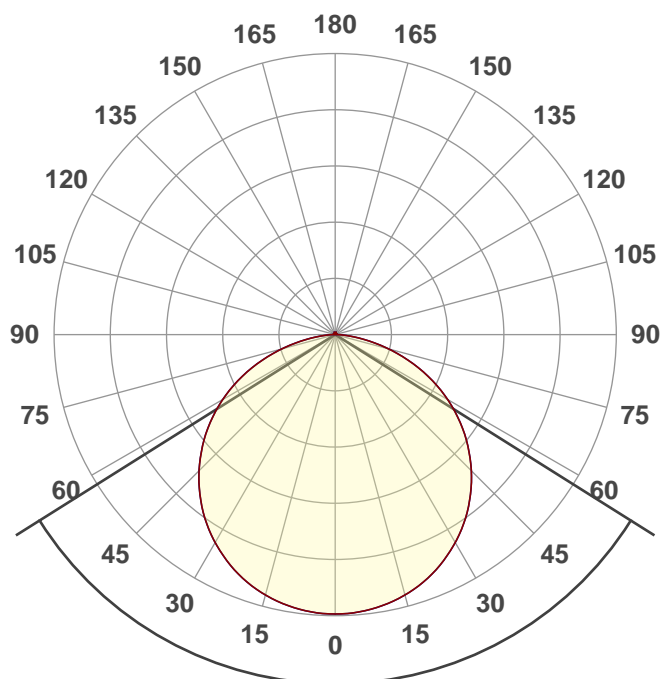


IRC – 97,5

Coordenada CIE 1931 – x- 0,438 y- 0,401

Data do ensaio

20/07/2021 16:11:24



Facho de abertura

115,7°

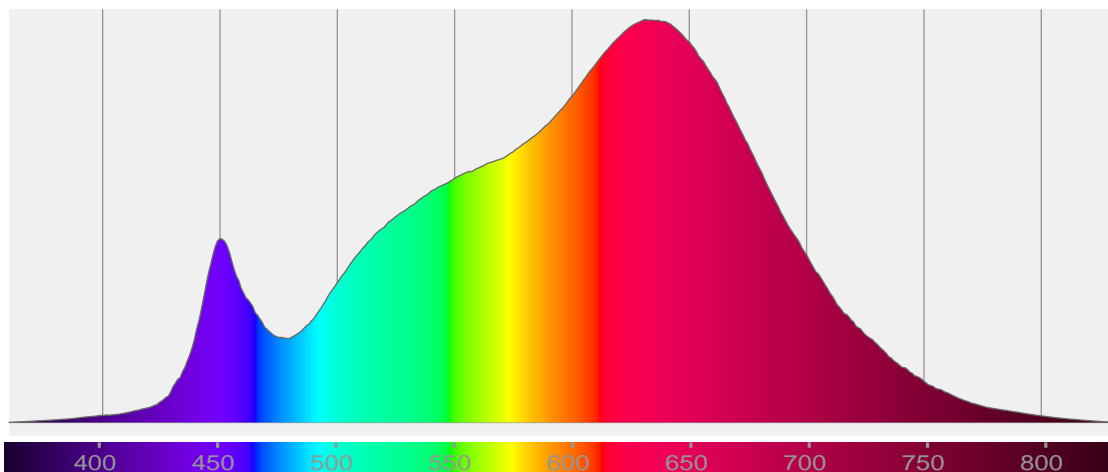
Rf 94,7

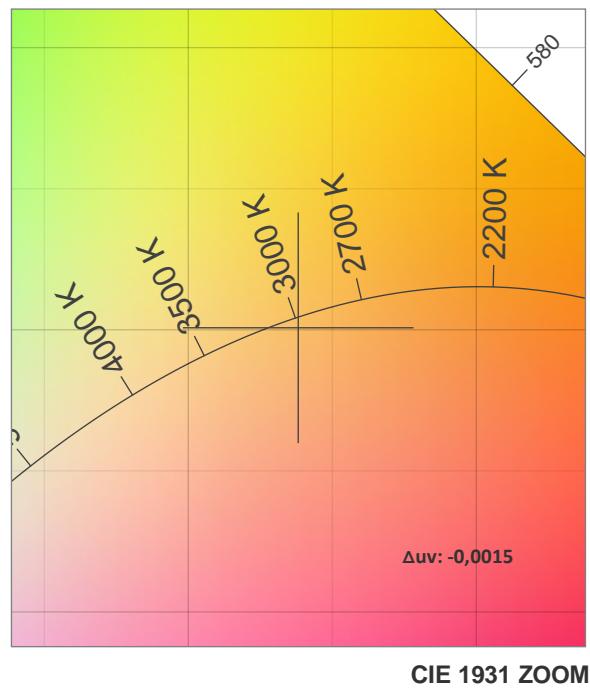
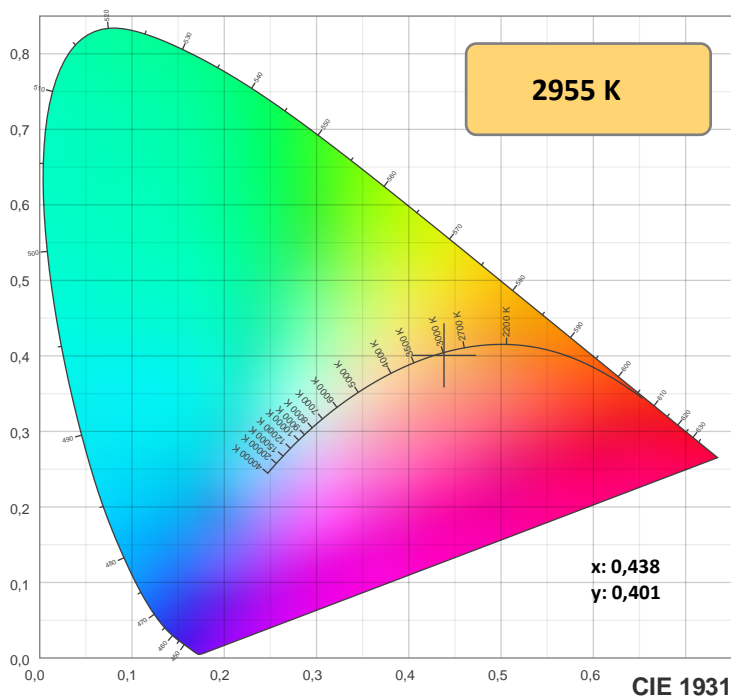
Fidelity index Rf

Rg 102,7

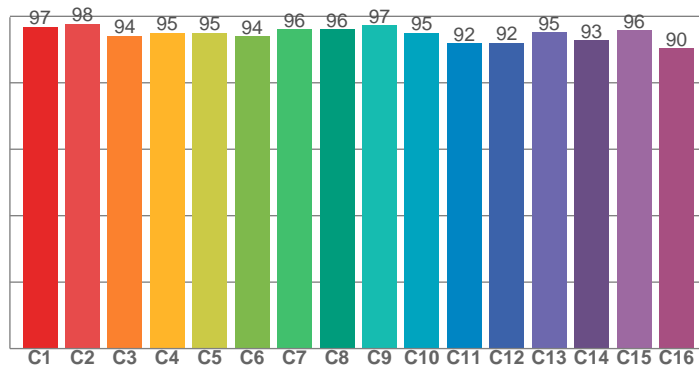
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	97	-1%	-1%
2	98	-1%	1%
3	94	0%	3%
4	95	0%	2%
5	95	2%	3%
6	94	4%	1%
7	96	2%	-2%
8	96	1%	-2%
9	97	0%	0%
10	95	-1%	3%
11	92	1%	6%
12	92	4%	2%
13	95	3%	-1%
14	93	5%	-3%
15	96	1%	-2%
16	90	2%	-8%

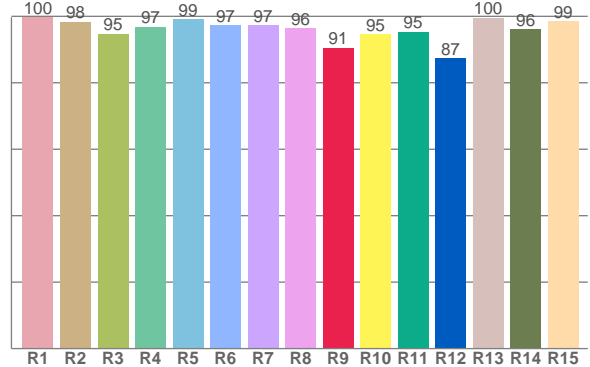




TM-30: 94,7



CRI: 97,5 (R1-R8)



CRIRA R1-R8 / CRIR R1-R15

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,7	98,4	94,7	96,9	99,0	97,2	97,4	96,4	90,6	94,6	95,4	87,4	99,6	96,0	98,6

TM30 valores C. 16 valores extraídos dos 99.

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,8	97,7	94,0	94,9	95,0	93,9	96,1	96,1	97,3	95,1	91,9	91,9	95,1	92,8	95,8	90,4

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
2955 K	97,5	90,6	94,7	102,7	94,1	0,438	0,401	0,253	0,347	-0,0015

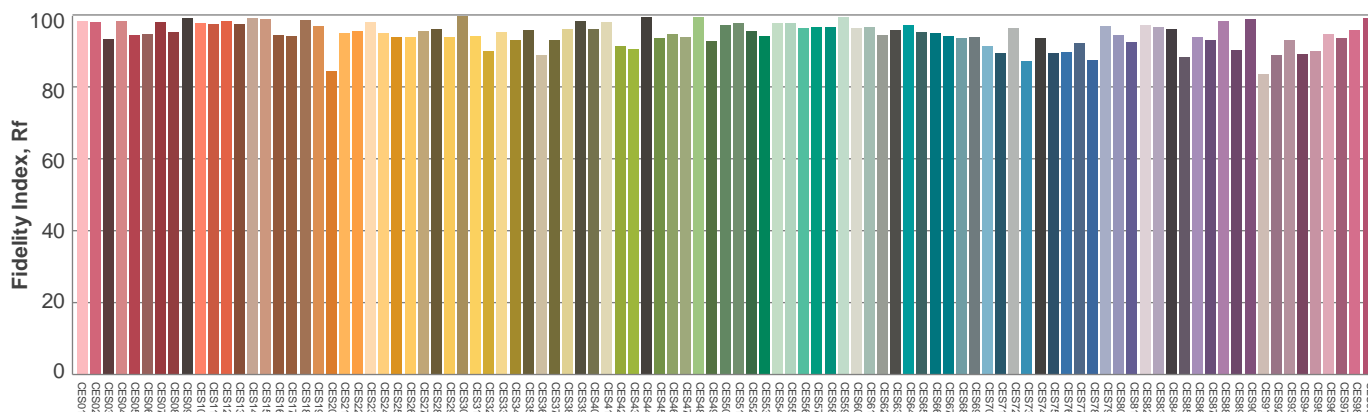
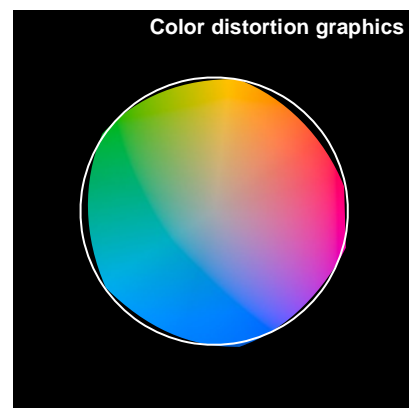
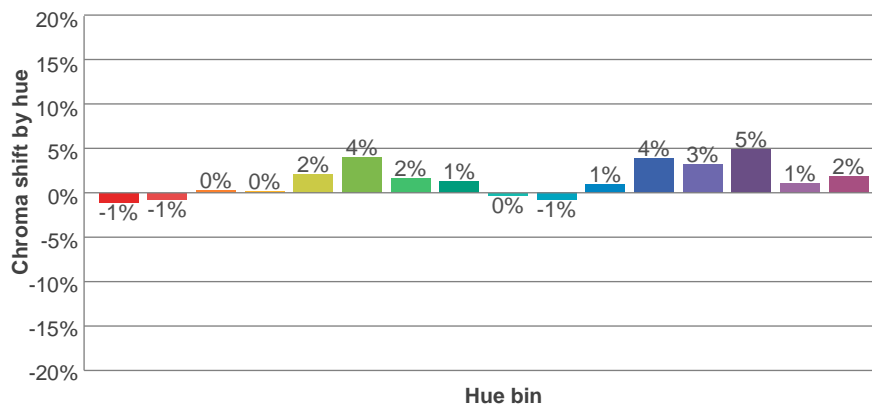
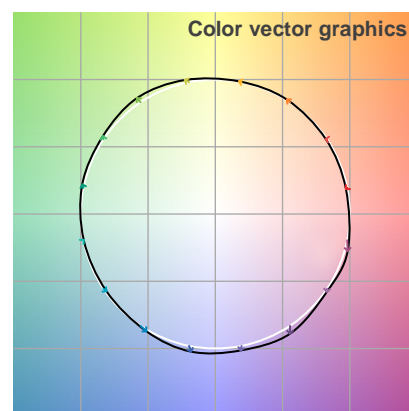
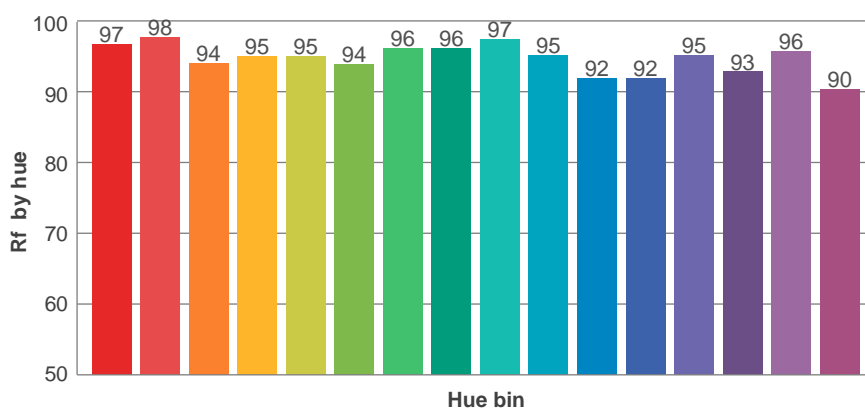
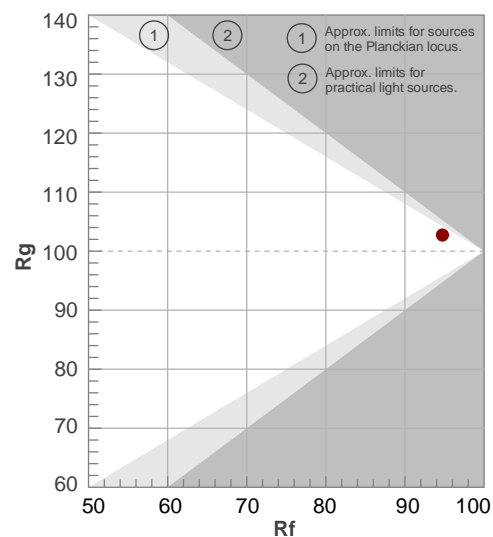
Rf 94,7

Fidelity index Rf

Rg 102,7

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	97	-1%	-1%
2	98	-1%	1%
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4	95	0%	2%
5	95	2%	3%
6	94	4%	1%
7	96	2%	-2%
8	96	1%	-2%
9	97	0%	0%
10	95	-1%	3%
11	92	1%	6%
12	92	4%	2%
13	95	3%	-1%
14	93	5%	-3%
15	96	1%	-2%
16	90	2%	-8%



Avaliação todas as amostras de cores

Glare Evaluation According to UGR

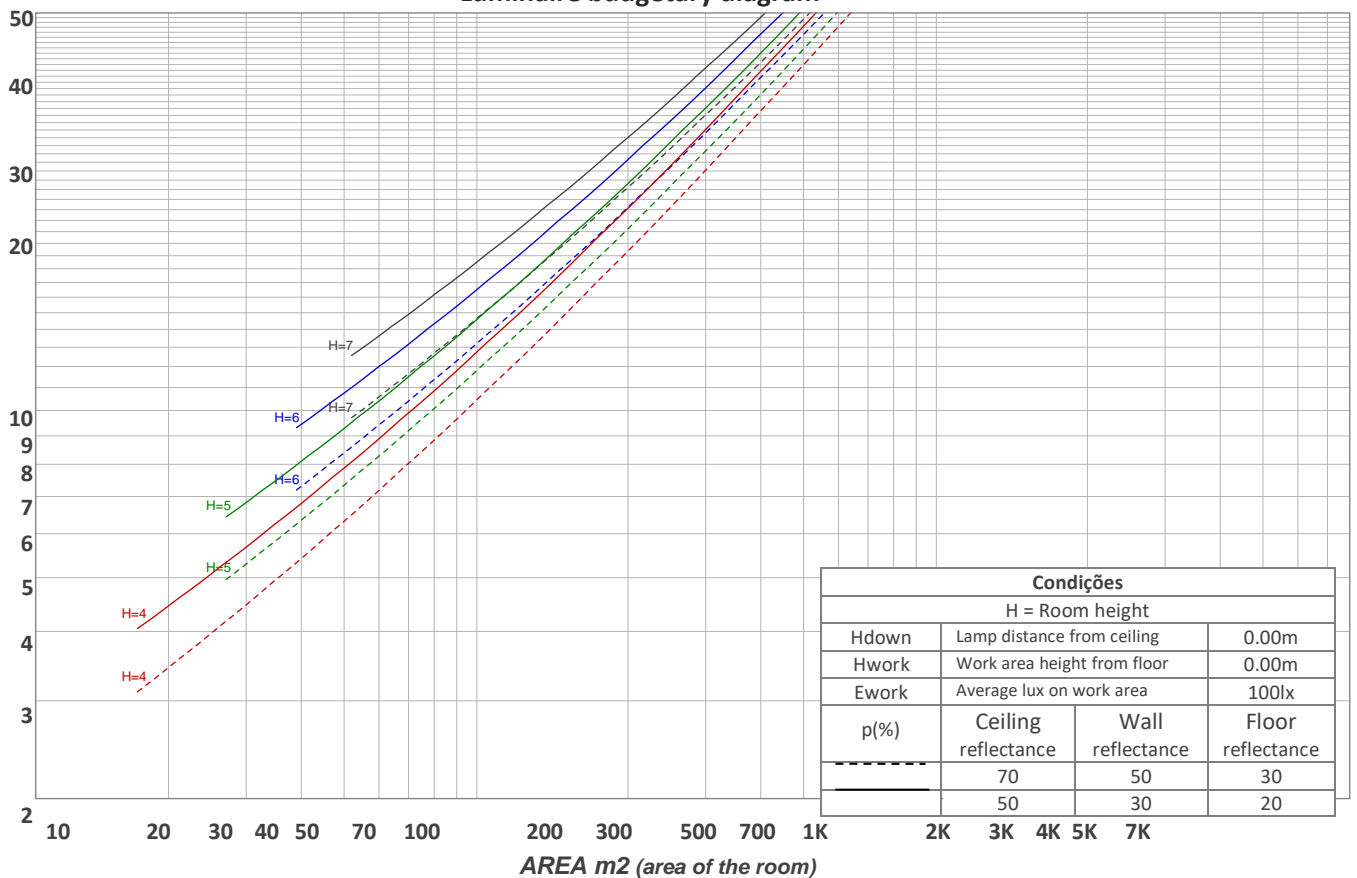
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	26,5	27,7	26,7	28,0	28,3	26,6	27,8	26,8	28,1	28,4
	3H	27,9	29,2	28,3	29,5	29,7	28,1	29,3	28,5	29,6	29,9
	4H	28,5	29,7	28,9	30,0	30,3	28,7	29,9	29,1	30,2	30,5
	6H	28,9	30,0	29,2	30,3	30,7	29,2	30,2	29,5	30,5	30,9
	8H	29,0	30,0	29,4	30,4	30,8	29,3	30,3	29,6	30,6	31,0
	12H	29,0	30,0	29,4	30,4	30,9	29,3	30,3	29,7	30,7	31,1
4H	2H	27,1	28,3	27,5	28,6	28,9	27,2	28,4	27,6	28,7	28,9
	3H	28,8	29,8	29,2	30,2	30,6	29,0	30,0	29,3	30,3	30,8
	4H	29,4	30,4	29,9	30,8	31,3	29,6	30,5	30,1	31,0	31,5
	6H	29,9	30,8	30,4	31,2	31,5	30,1	31,0	30,6	31,4	31,8
	8H	30,0	30,8	30,6	31,2	31,6	30,3	31,1	30,8	31,5	31,9
	12H	30,1	30,8	30,6	31,2	31,7	30,4	31,0	30,9	31,5	32,0
8H	4H	29,7	30,5	30,2	30,9	31,3	29,9	30,7	30,4	31,0	31,4
	6H	30,3	30,9	30,8	31,4	32,0	30,5	31,1	31,0	31,6	32,2
	8H	30,5	31,1	31,1	31,6	32,3	30,8	31,3	31,3	31,8	32,5
	12H	30,6	31,1	31,2	31,6	32,2	30,9	31,3	31,5	31,9	32,5
12H	4H	29,7	30,4	30,2	30,8	31,3	29,9	30,5	30,4	31,0	31,5
	6H	30,4	30,9	30,9	31,4	32,1	30,6	31,1	31,1	31,6	32,3
	8H	30,6	31,0	31,2	31,6	32,2	30,8	31,3	31,4	31,8	32,4
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					0,1 / -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 1407 lm total luminous flux											

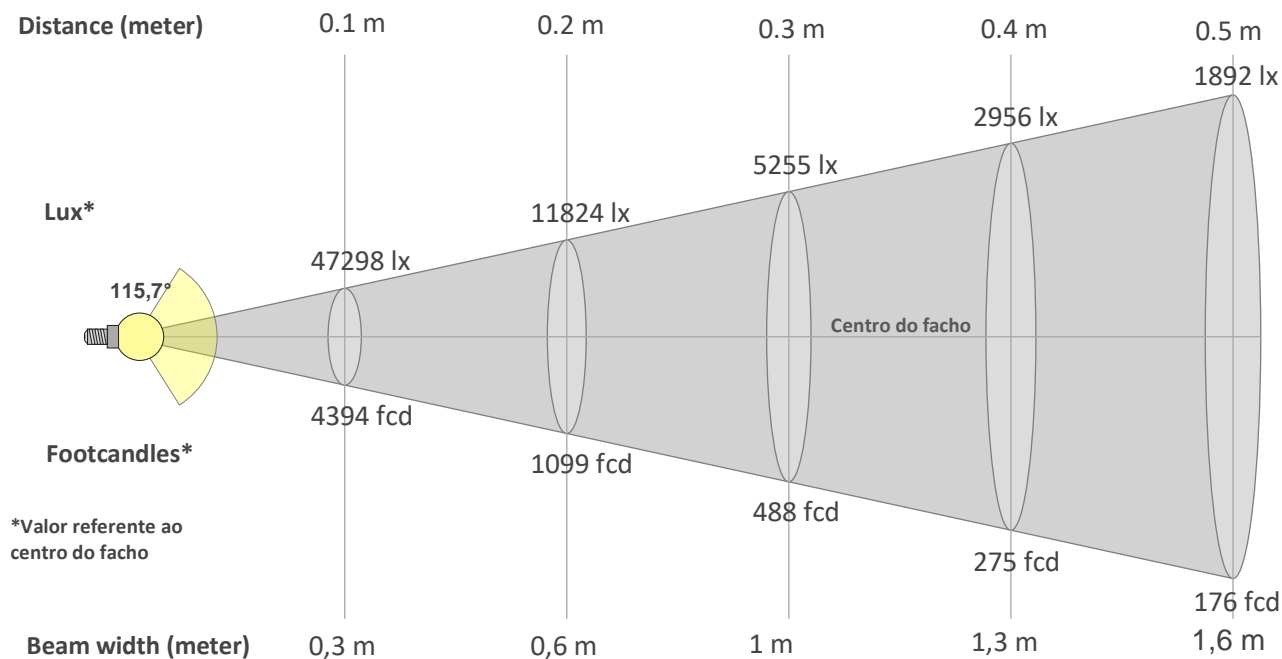
Coeficiente de utilização

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	76	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	68	64	60	57
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	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
473lx	118lx	53lx	30lx	19lx	13lx	10lx	7lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
43,9fcd	11fcd	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°
473	471	465	456	443	427	406	383	356	326	293	258	220	179	136	94	53	21	4	2
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	20%	11%	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°
473	471	465	456	443	427	406	383	356	326	293	258	220	179	136	94	53	21	4	2
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	20%	11%	4%	1%	0%

Intensities in 180° c-plane

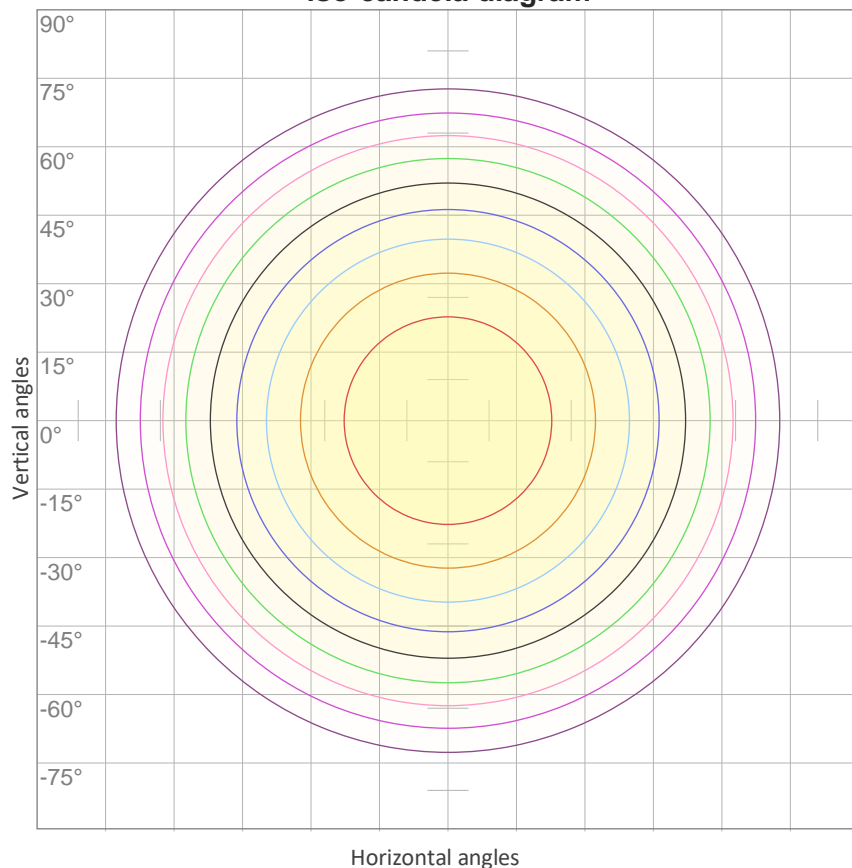
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
473	471	465	456	443	427	406	383	356	326	293	258	220	179	136	94	53	21	4	2
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	20%	11%	4%	1%	0%

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°
473	471	465	456	443	427	406	383	356	326	293	258	220	179	136	94	53	21	4	2
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	20%	11%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
115,7°	161,6°	174,2°	77,6%	52,3%

iso-candela diagram



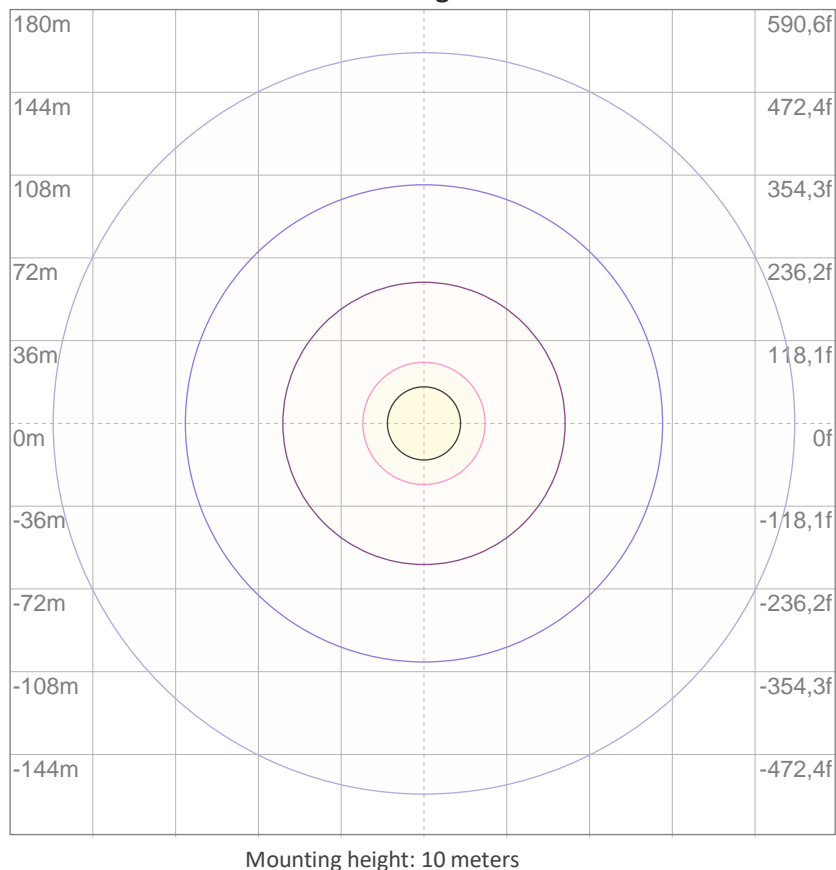
10%	47 cd
20%	95 cd
30%	142 cd
40%	189 cd
50%	236 cd
60%	284 cd
70%	331 cd
80%	378 cd
90%	426 cd

Conditions:

Number of c-planes: 16

Candela at center: 473 cd

iso-lux diagram



3%	0,142 lx
5%	0,236 lx
10%	0,473 lx
30%	1,42 lx
50%	2,36 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,73 lx

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

Potência

Vttagem: 12,0 V

Corrente: 1,75 A

Frequência: 0 Hz

FP: 1,0

THD



THD corrente: n/a

THD tensão: n/a