



focus sm a e

linha de luminárias embutidas orientáveis para tecnologia led em alumínio tratado e pintado por processo eletrostático nas cores padrão lumini, com dispositivo antiofuscamento na cor preta.

informações técnicas

fonte de luz
LED integrado

IRC
alto índice de reprodução de cor (irc>90 | r9>60)

vida útil
50.000h

potência (W), fecho, temperatura de cor (K),
fluxo nominal (lm nominal), fluxo útil (lm útil)

W		K	lm nominal	lm útil
6	concentrado	2700		
6	médio	2700		
6	aberto	2700		
6	concentrado	3000	900	751
6	médio	3000	900	764
6	aberto	3000	900	772

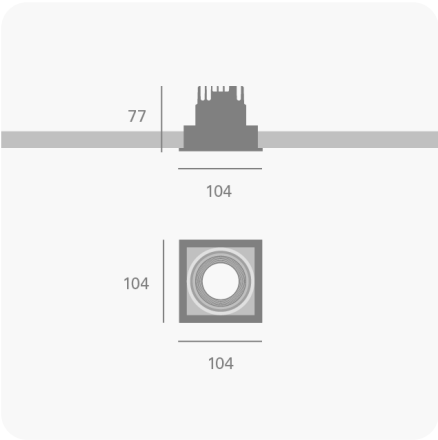
equipamentos
LED driver 180mA (incluso, ponto remoto)

controle
on/off
dim fphase
dim dali
dim 1-10V

instalação
forro de gesso
forro modular
marcenaria

IP
20

dimensões



acabamentos e cores

cores

 corten  titânio



cinza areia



grafite txt



cinza médio



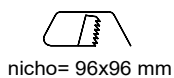
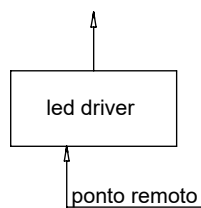
branco txt



preto txt

vista lateral

dimensões em milímetros



focus sm a e serie 3

folha
1/1

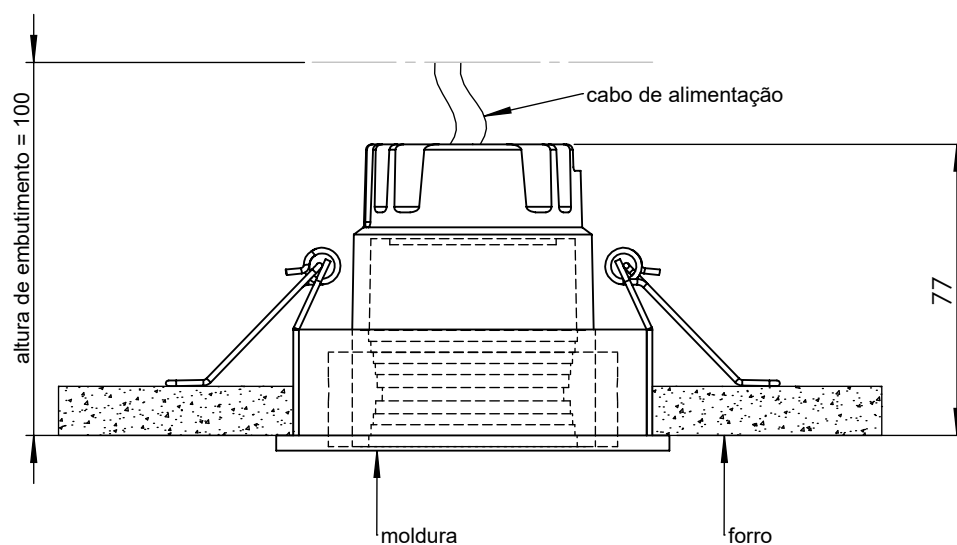
escala
1:2

data
15/02/2025

desenhista
joão v.

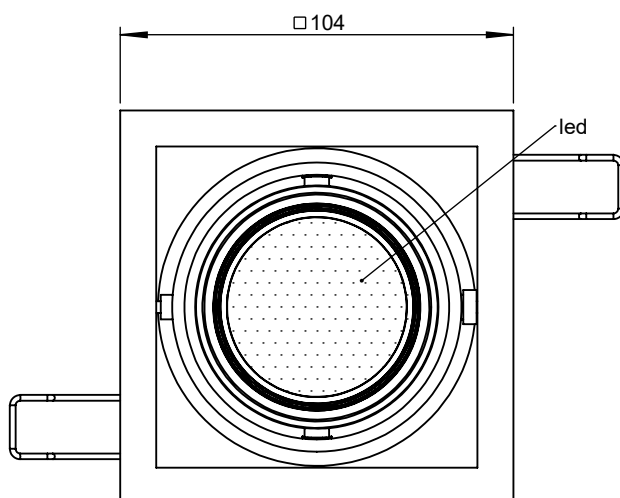
aprovação
severino

revisões
15/02/2025



vista inferior

dimensões em milímetros



para maiores informações,
consulte a área técnica
produto@lumini.com.br



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LumCAT:

Luminaire: focus sm a serie 3 e fa

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0560

Number of Lamps: 1

Power (W): 7.0700

Lamp flux(lm): 900.0

PF: 0.9700

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 771.67, Efficiency(%): 85.74% , Luminous Efficacy(lm/W): 109.15

Central intensity(cd): 2620.264, Maximum intensity(cd): 2620.264

Angle of maximum intensity: $C=0.0$ $\gamma=0.0$

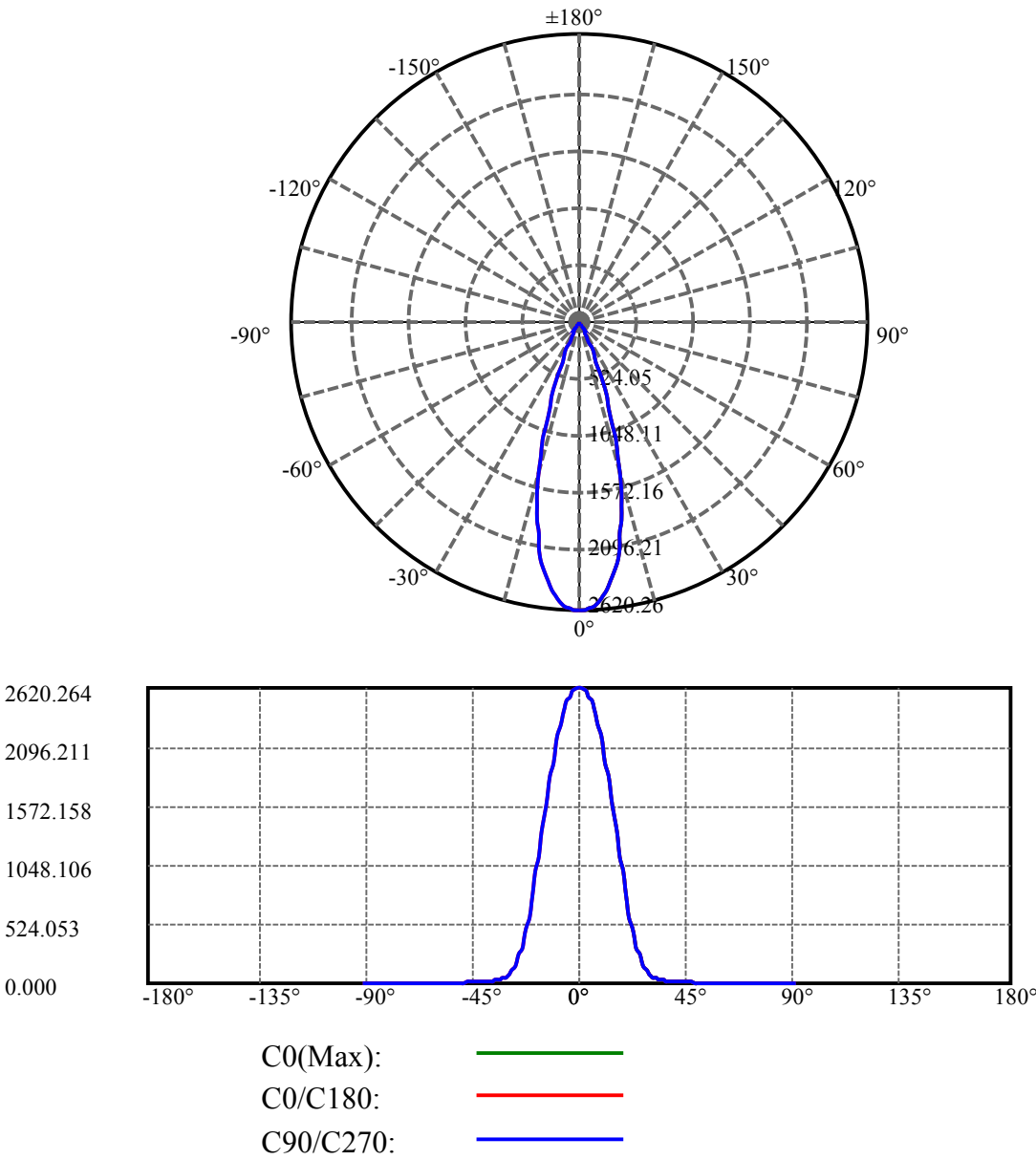
Beam angle of C0 plane : 31.52

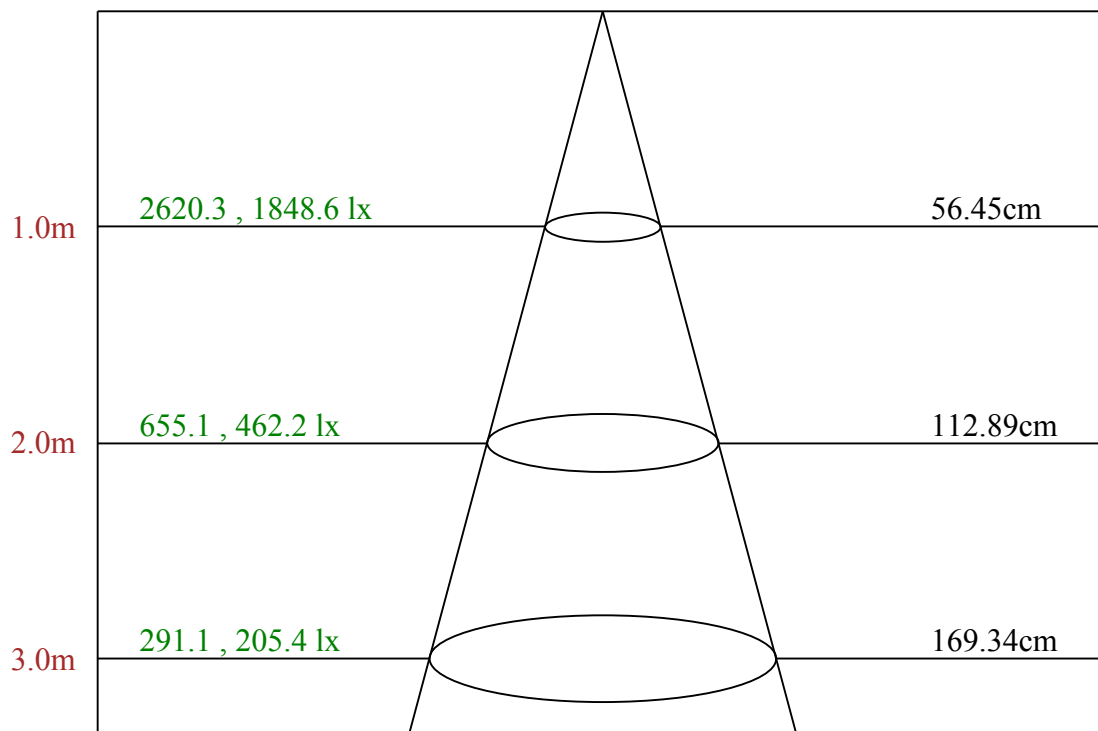
Average BeamAngle(IEC 61341): 31.52

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

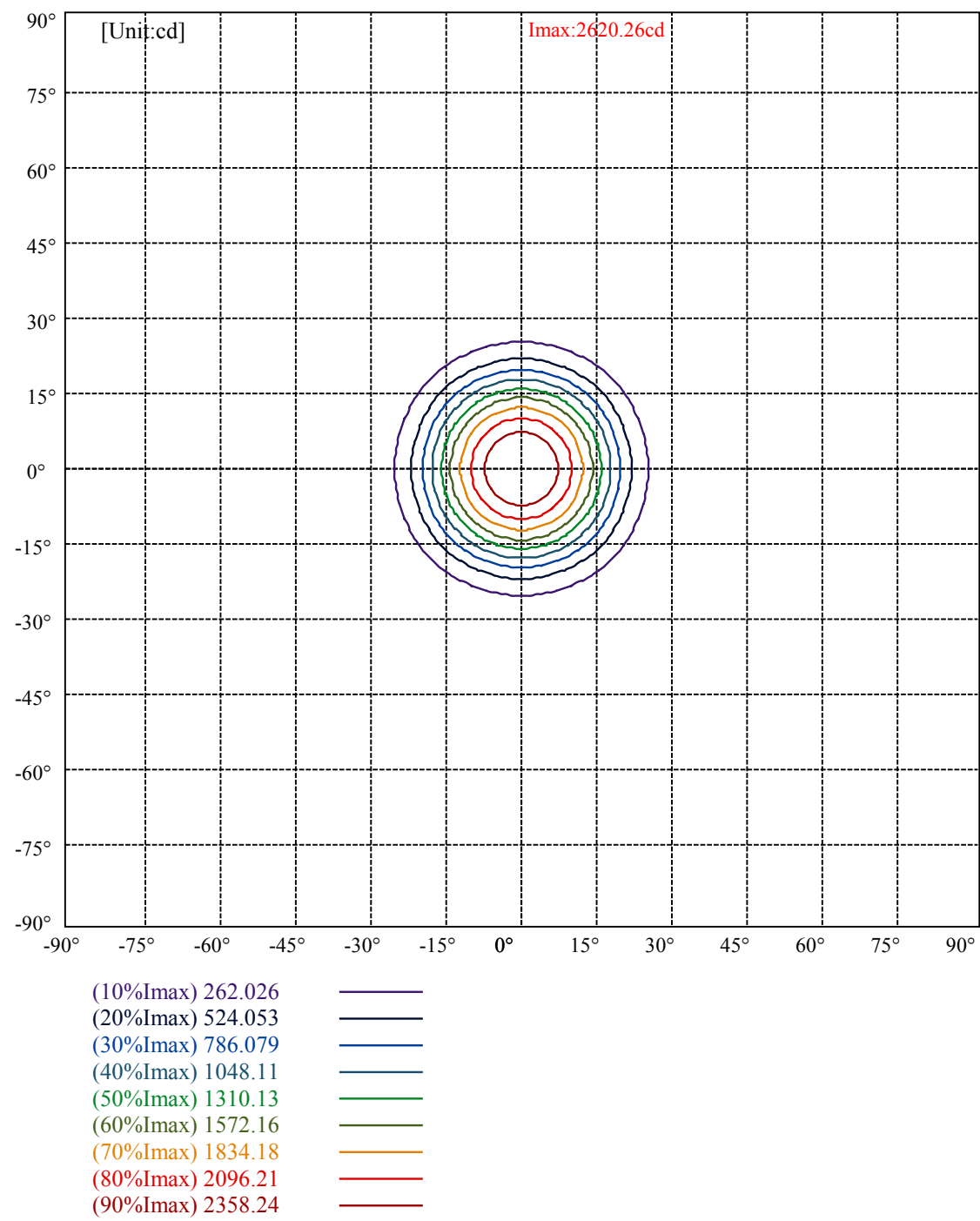
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 31.52



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	4496	3208	2140	2046	2123	2393	3041	4441	8668
C45	4496	3208	2140	2046	2123	2393	3041	4441	8668
C90	4496	3208	2140	2046	2123	2393	3041	4441	8668

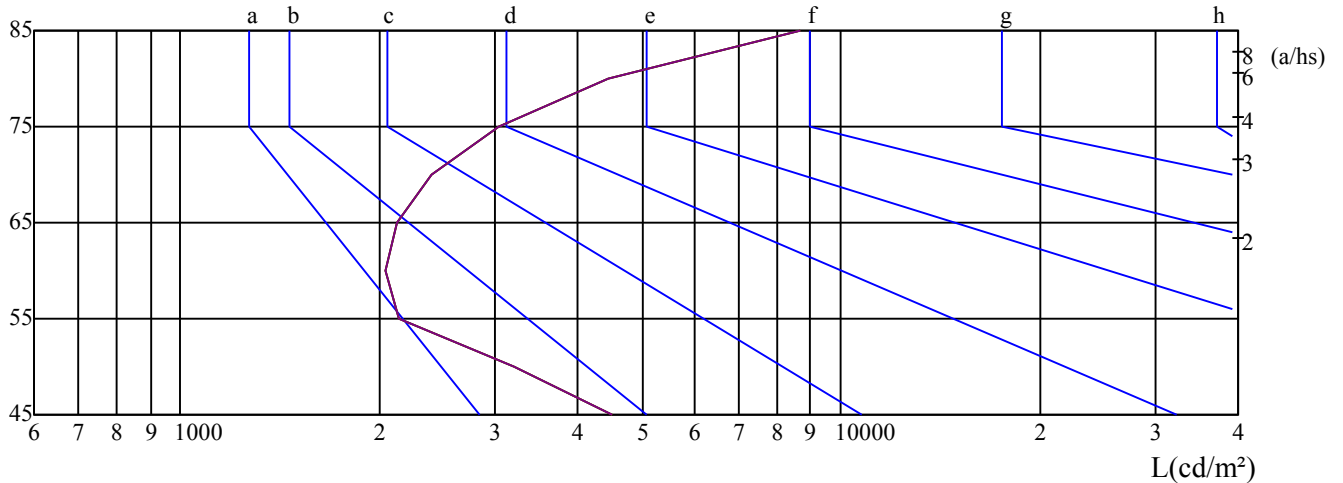
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2123	2123	2123	3041	3041	3041	8668	8668	8668

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	7.06	7.97	7.42	8.28	8.60	7.06	7.97	7.42	8.28	8.60
	3H	7.84	8.65	8.23	8.99	9.34	7.84	8.65	8.23	8.99	9.34
	4H	8.54	9.29	8.94	9.65	10.02	8.54	9.29	8.94	9.65	10.02
	6H	9.64	10.33	10.06	10.70	11.10	9.64	10.33	10.06	10.70	11.10
	8H	10.37	11.03	10.80	11.41	11.82	10.37	11.03	10.80	11.41	11.82
	12H	11.29	11.91	11.71	12.30	12.72	11.29	11.91	11.71	12.30	12.72
4H	2H	7.12	7.87	7.52	8.22	8.59	7.12	7.87	7.52	8.22	8.59
	3H	8.20	8.83	8.63	9.23	9.64	8.20	8.83	8.63	9.23	9.64
	4H	9.22	9.76	9.66	10.19	10.64	9.22	9.76	9.66	10.19	10.64
	6H	10.61	11.09	11.08	11.54	11.99	10.61	11.09	11.08	11.54	11.99
	8H	11.54	11.99	12.03	12.45	12.92	11.54	11.99	12.03	12.45	12.92
	12H	12.67	13.08	13.16	13.53	14.06	12.67	13.08	13.16	13.53	14.06
8H	4H	9.61	10.06	10.10	10.52	10.99	9.61	10.06	10.10	10.52	10.99
	6H	11.33	11.69	11.83	12.17	12.68	11.33	11.69	11.83	12.17	12.68
	8H	12.53	12.83	13.07	13.36	13.85	12.53	12.83	13.07	13.36	13.85
	12H	13.91	14.14	14.46	14.66	15.18	13.91	14.14	14.46	14.66	15.18
12H	4H	9.74	10.15	10.23	10.60	11.13	9.74	10.15	10.23	10.60	11.13
	6H	11.62	11.93	12.16	12.45	12.95	11.62	11.93	12.16	12.45	12.95
	8H	12.91	13.14	13.46	13.66	14.18	12.91	13.14	13.46	13.66	14.18
Variation with the observer position at spacings:											
S = 1.0H		2.1/-1.6					2.1/-1.6				
S = 1.5H		2.5/-1.5					2.5/-1.5				
S = 2.0H		2.9/-1.3					2.9/-1.3				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.0					-4.0				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm a serie 3 e fc

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0560

Number of Lamps: 1

Power (W): 7.0700

Lamp flux(lm): 900.0

PF: 0.9700

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 750.53, Efficiency(%): 83.39% , Luminous Efficacy(lm/W): 106.16

Central intensity(cd): 6473.293, Maximum intensity(cd): 6473.293

Angle of maximum intensity: $C=0.0$ $\gamma=0.0$

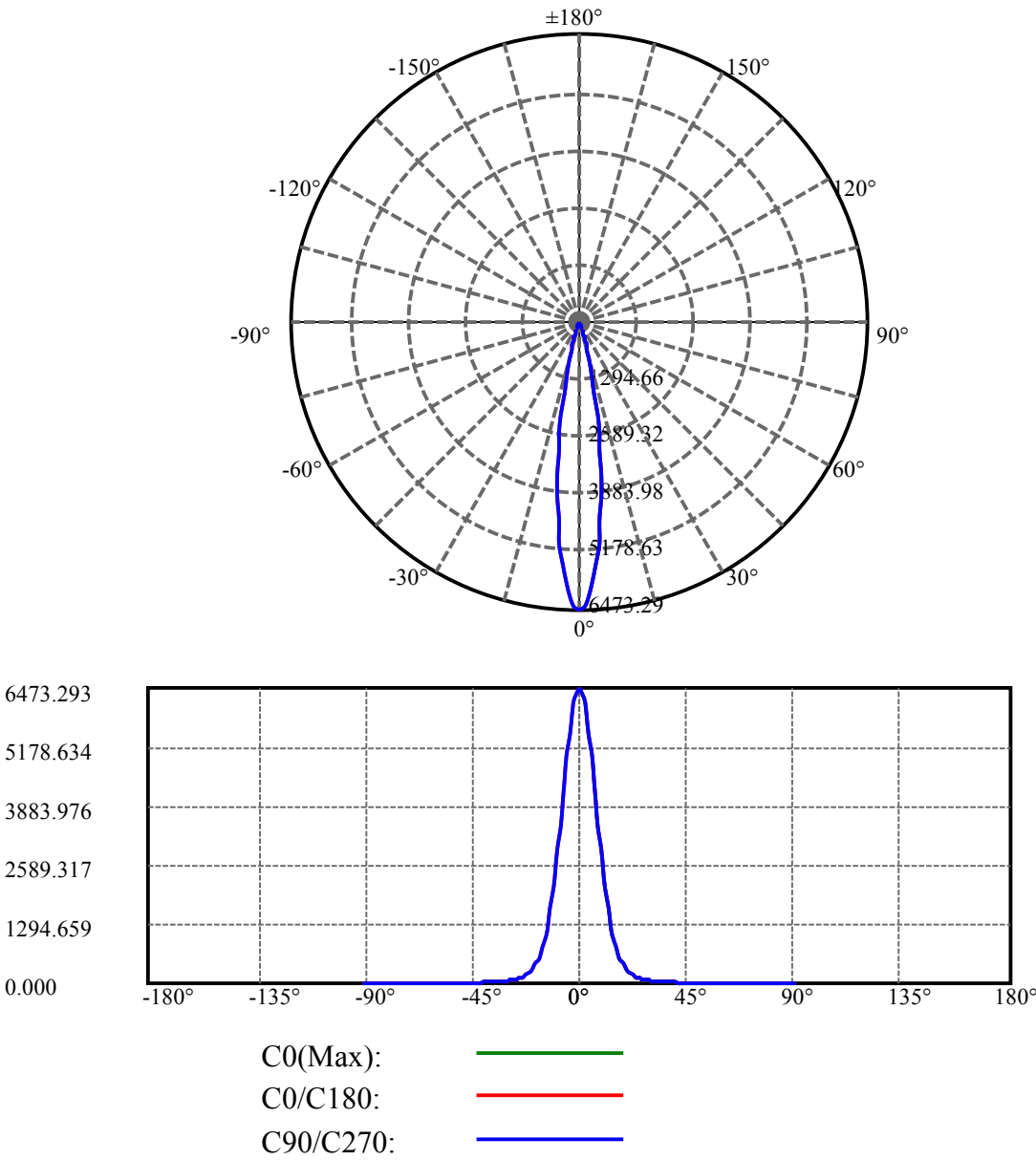
Beam angle of C0 plane : 16.81

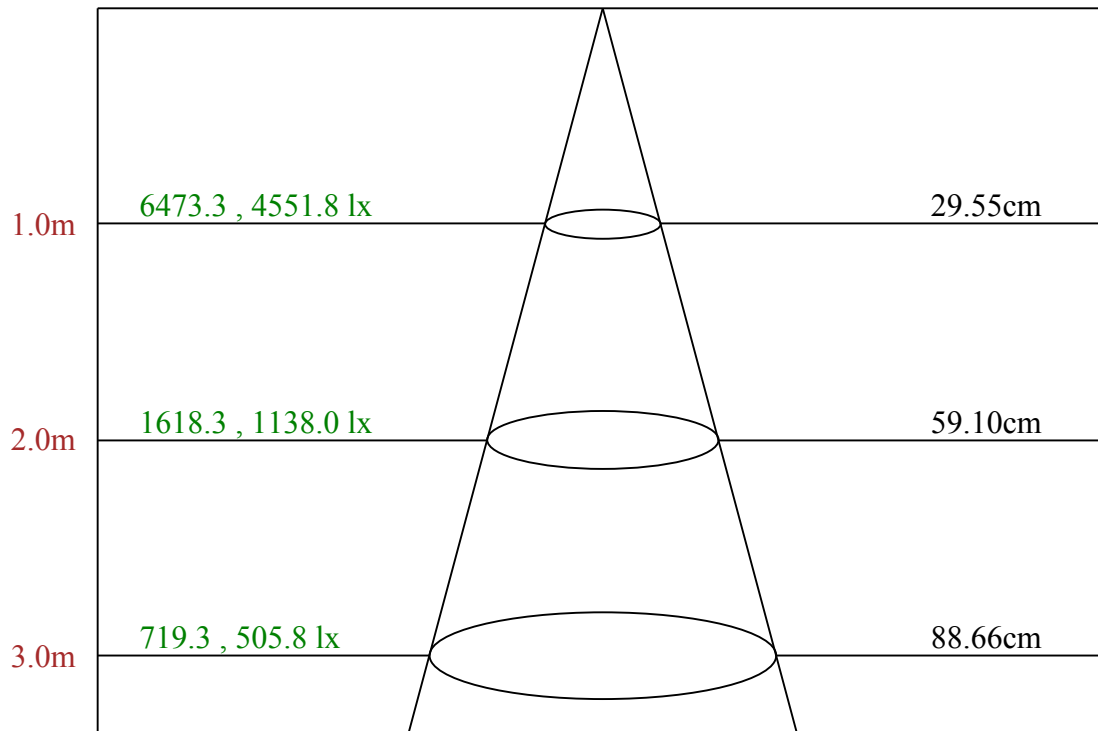
Average BeamAngle(IEC 61341): 16.81

Equipment: equipamento lumini
Temperature(°C): 25.5

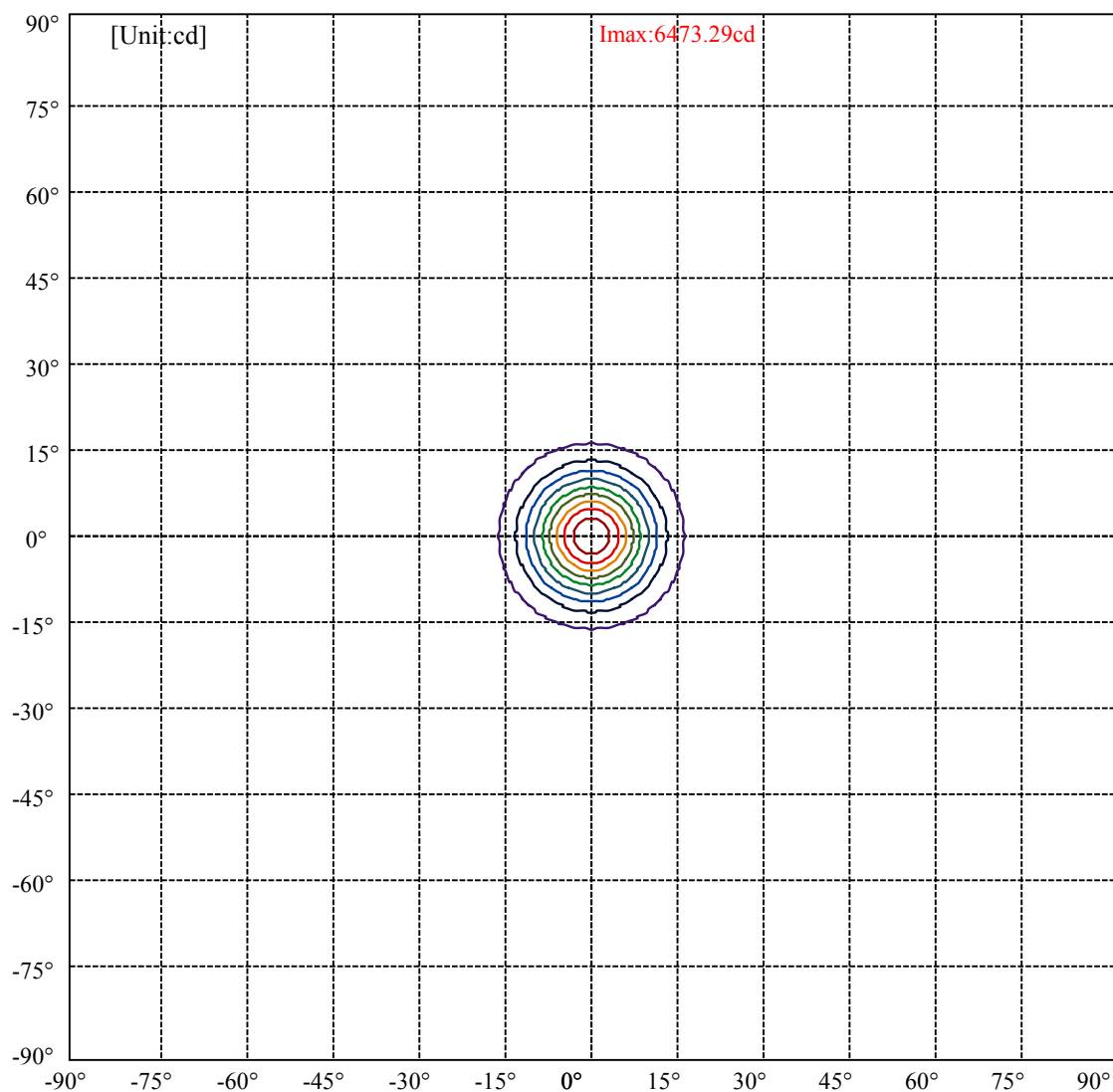
Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 16.81



(10%Imax) 647.329	—
(20%Imax) 1294.66	—
(30%Imax) 1941.99	—
(40%Imax) 2589.32	—
(50%Imax) 3236.65	—
(60%Imax) 3883.98	—
(70%Imax) 4531.31	—
(80%Imax) 5178.63	—
(90%Imax) 5825.96	—

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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	6143	4016	2250	2015	2011	2209	2858	4169	8126
C45	6143	4016	2250	2015	2011	2209	2858	4169	8126
C90	6143	4016	2250	2015	2011	2209	2858	4169	8126

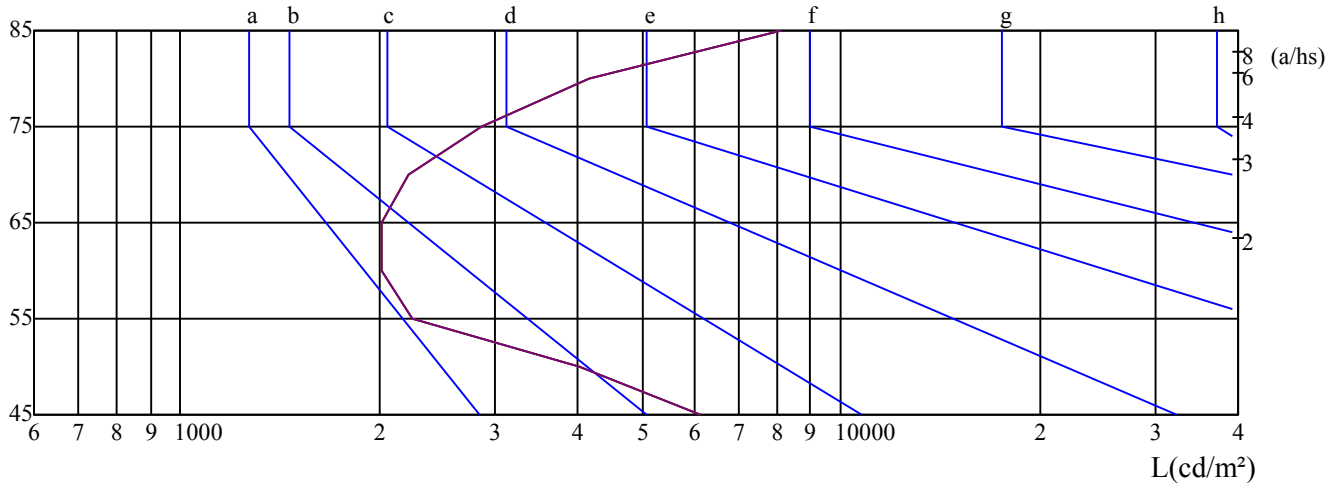
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2011	2011	2011	2858	2858	2858	8126	8126	8126

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	8.17	9.09	8.53	9.40	9.72	8.17	9.09	8.53	9.40	9.72
	3H	8.63	9.45	9.02	9.79	10.13	8.63	9.45	9.02	9.79	10.13
	4H	9.12	9.88	9.52	10.23	10.60	9.12	9.88	9.52	10.23	10.60
	6H	9.98	10.67	10.40	11.04	11.44	9.98	10.67	10.40	11.04	11.44
	8H	10.57	11.22	10.99	11.61	12.02	10.57	11.22	10.99	11.61	12.02
	12H	11.35	11.97	11.78	12.37	12.79	11.35	11.97	11.78	12.37	12.79
4H	2H	8.12	8.88	8.52	9.23	9.60	8.12	8.88	8.52	9.23	9.60
	3H	8.81	9.44	9.24	9.84	10.26	8.81	9.44	9.24	9.84	10.26
	4H	9.59	10.14	10.03	10.56	11.01	9.59	10.14	10.03	10.56	11.01
	6H	10.74	11.22	11.21	11.67	12.13	10.74	11.22	11.21	11.67	12.13
	8H	11.55	11.99	12.04	12.45	12.93	11.55	11.99	12.04	12.45	12.93
	12H	12.58	12.99	13.07	13.44	13.96	12.58	12.99	13.07	13.44	13.96
8H	4H	9.88	10.32	10.36	10.78	11.26	9.88	10.32	10.36	10.78	11.26
	6H	11.35	11.71	11.85	12.19	12.71	11.35	11.71	11.85	12.19	12.71
	8H	12.43	12.73	12.97	13.26	13.76	12.43	12.73	12.97	13.26	13.76
	12H	13.73	13.96	14.27	14.48	15.00	13.73	13.96	14.27	14.48	15.00
12H	4H	9.98	10.39	10.47	10.84	11.36	9.98	10.39	10.47	10.84	11.36
	6H	11.61	11.91	12.15	12.44	12.94	11.61	11.91	12.15	12.44	12.94
	8H	12.78	13.01	13.32	13.53	14.05	12.78	13.01	13.32	13.53	14.05
Variation with the observer position at spacings:											
S = 1.0H		1.8/-2.1					1.8/-2.1				
S = 1.5H		2.5/-1.7					2.5/-1.7				
S = 2.0H		3.0/-1.5					3.0/-1.5				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.7					-3.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm a serie 3 e fm

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0560

Number of Lamps: 1

Power (W): 7.0700

Lamp flux(lm): 900.0

PF: 0.9700

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 764.41, Efficiency(%): 84.93% , Luminous Efficacy(lm/W): 108.12

Central intensity(cd): 4866.266, Maximum intensity(cd): 4866.266

Angle of maximum intensity: $C=0.0$ $\gamma=0.0$

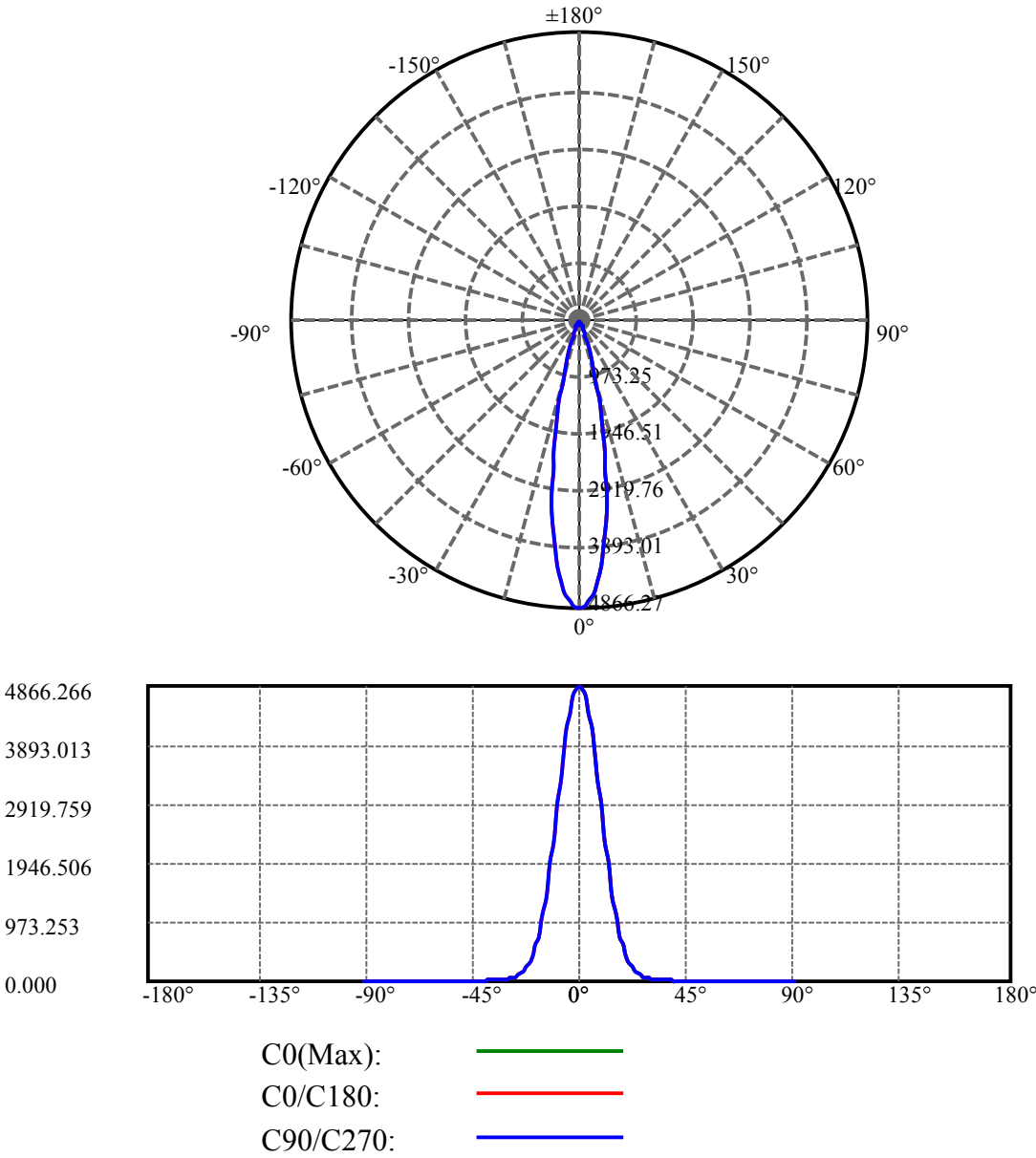
Beam angle of C0 plane : 20.91

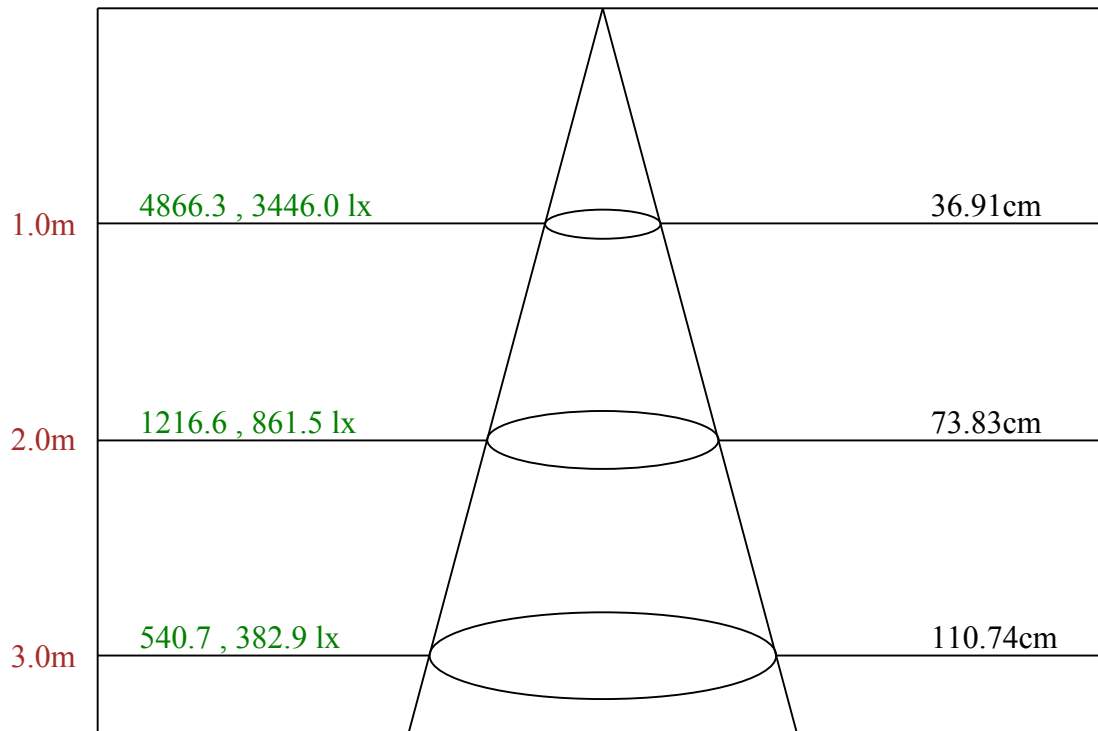
Average BeamAngle(IEC 61341): 20.91

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

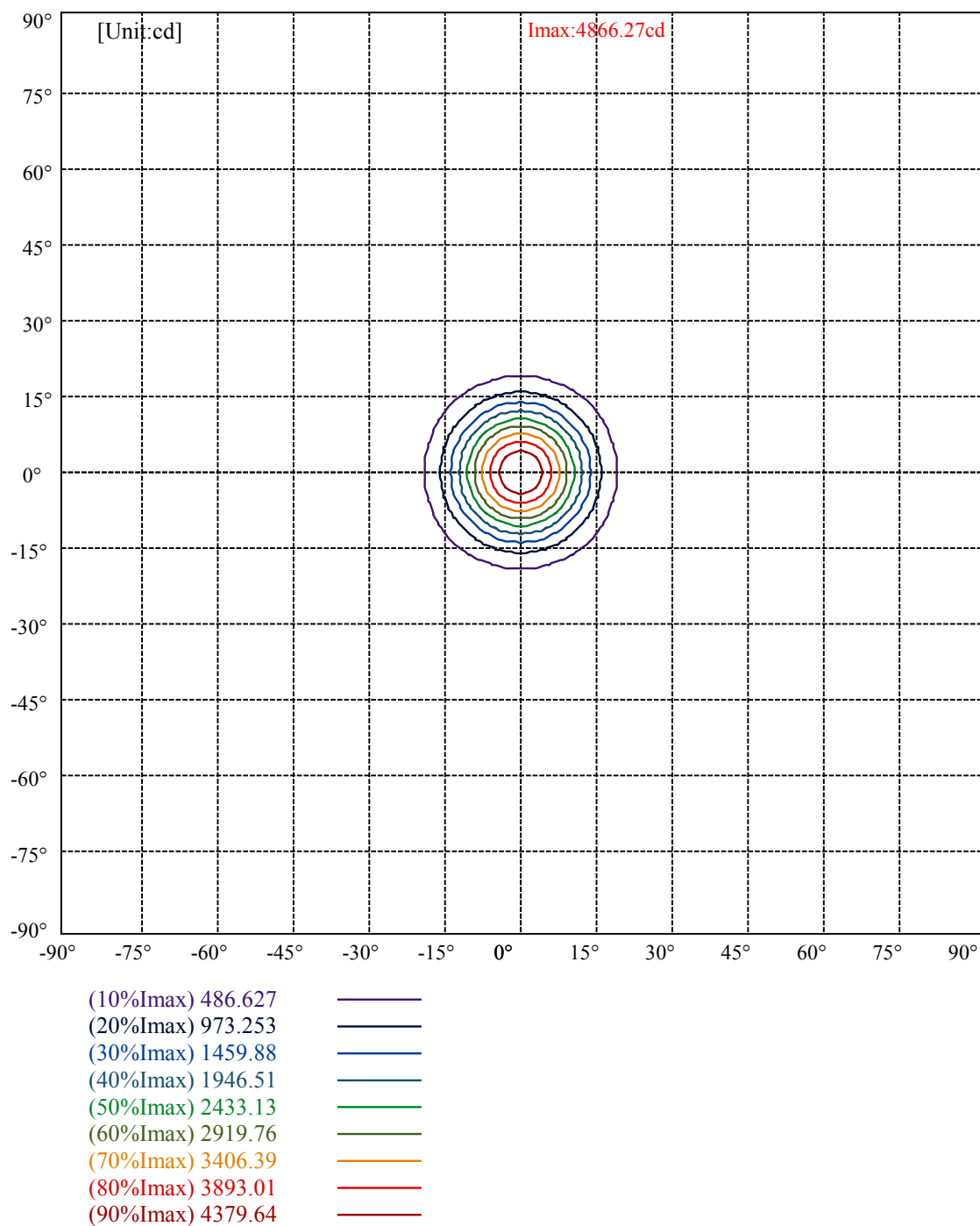
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 20.91



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	4029	3257	2223	2140	2197	2393	2980	4351	8487
C45	4029	3257	2223	2140	2197	2393	2980	4351	8487
C90	4029	3257	2223	2140	2197	2393	2980	4351	8487

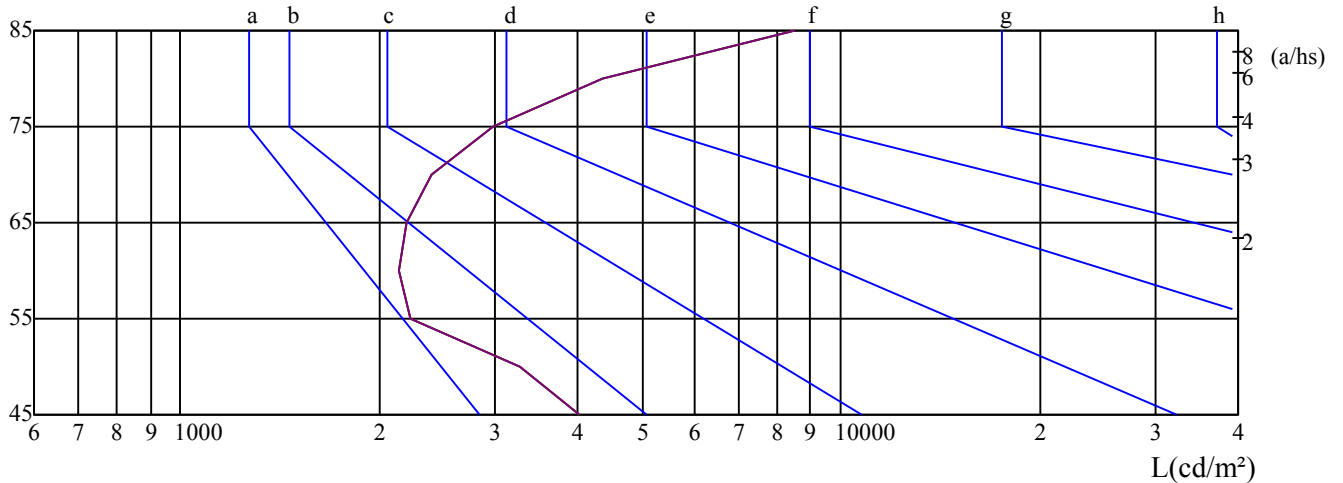
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2197	2197	2197	2980	2980	2980	8487	8487	8487

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

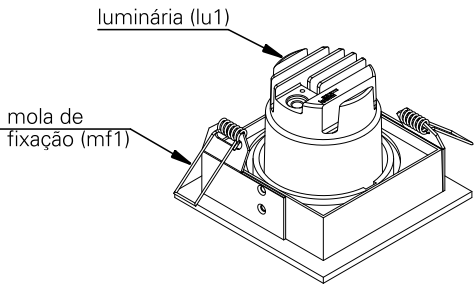
Operator: 01
Distance(m): 6.90

Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	6.36	7.27	6.72	7.58	7.90	6.36	7.27	6.72	7.58	7.90
	3H	7.38	8.19	7.77	8.53	8.88	7.38	8.19	7.77	8.53	8.88
	4H	8.15	8.91	8.56	9.26	9.63	8.15	8.91	8.56	9.26	9.63
	6H	9.33	10.01	9.75	10.39	10.79	9.33	10.01	9.75	10.39	10.79
	8H	10.10	10.75	10.52	11.14	11.55	10.10	10.75	10.52	11.14	11.55
	12H	11.04	11.66	11.47	12.06	12.48	11.04	11.66	11.47	12.06	12.48
4H	2H	6.55	7.30	6.95	7.66	8.02	6.55	7.30	6.95	7.66	8.02
	3H	7.86	8.49	8.29	8.89	9.30	7.86	8.49	8.29	8.89	9.30
	4H	8.94	9.48	9.38	9.91	10.36	8.94	9.48	9.38	9.91	10.36
	6H	10.38	10.86	10.85	11.31	11.76	10.38	10.86	10.85	11.31	11.76
	8H	11.34	11.78	11.82	12.24	12.72	11.34	11.78	11.82	12.24	12.72
	12H	12.48	12.89	12.98	13.35	13.87	12.48	12.89	12.98	13.35	13.87
8H	4H	9.36	9.80	9.84	10.26	10.73	9.36	9.80	9.84	10.26	10.73
	6H	11.12	11.48	11.63	11.96	12.48	11.12	11.48	11.63	11.96	12.48
	8H	12.34	12.64	12.88	13.17	13.66	12.34	12.64	12.88	13.17	13.66
	12H	13.74	13.97	14.29	14.49	15.01	13.74	13.97	14.29	14.49	15.01
12H	4H	9.49	9.90	9.98	10.35	10.88	9.49	9.90	9.98	10.35	10.88
	6H	11.43	11.73	11.96	12.25	12.75	11.43	11.73	11.96	12.25	12.75
	8H	12.73	12.95	13.27	13.47	14.00	12.73	12.95	13.27	13.47	14.00
Variation with the observer position at spacings:											
S = 1.0H		1.4/-1.2					1.4/-1.2				
S = 1.5H		1.6/-1.3					1.6/-1.3				
S = 2.0H		1.9/-1.2					1.9/-1.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.4					-4.4				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

focus

focus sm a cob série 2 e	nicho
focus sm b cob série 2 e	96x96mm
focus sm a série 3 e	96x183mm
focus sm b bath série 3 e	96x96mm
focus sm b série 3 e	96x183mm
focus sm b difusa série 2 e	96x183mm
focus sm a bath série 3 e	96x96mm
focus sm a difusa série 2 e	96x96mm
focus xsm a e	62x62mm
focus sm a dtw e	96x96mm
focus sm a e tr	96x96mm
focus sm b dtw e	96x183mm
focus sm b e tr	96x183mm



atenção

leia atentamente todas as instruções relacionadas ao seu produto antes de utilizá-lo.

antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

não são permitidas modificações no produto, esse deve atender à finalidade para a qual foi projetado e ser utilizado de acordo com as especificações técnicas.

em caso de dúvidas, entre em contato com o fabricante.

especificações técnicas

fonte de luz
módulo led integrado (incluso)

índice de proteção
IP20 - luminária para uso interno

peso
focus sm a cob série 2 e - 0,6 kg
focus sm b cob série 2 e - 1,1 kg
focus sm a série 3 e - 0,5 kg
focus sm b bath série 3 e - 0,4 kg
focus sm b série 3 e - 0,8 kg
focus sm b difusa série 2 e - 0,8 kg
focus sm a bath série 3 e - 0,4 kg
focus sm a difusa série 2 e - 0,5 kg
focus xsm a e - 0,3 kg
focus sm a dtw e - 0,5 kg
focus sm a e tr - 0,5 kg
focus sm b dtw e - 0,8 kg
focus sm b e tr - 0,8 kg

cuidados com o produto
o produto deve ser manuseado com cuidado para evitar riscos e deformações.

para limpeza, utilize detergente neutro e um pano de algodão macio. finalize com um pano de algodão seco.

instalação

conteúdo da embalagem
1 luminária

ferramentas necessárias
serra

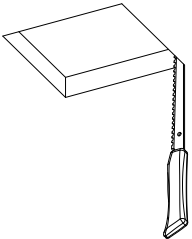
informações importantes
para a instalação, lave as mãos e seque as mãos, use luvas descartáveis.

antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

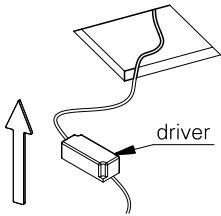
retire a luminária da embalagem com cuidado e apoie-o em uma superfície limpa e seca.

instalação passo a passo

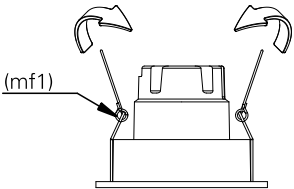
1. faça um nicho no forro conforme o modelo do produto na tabela.



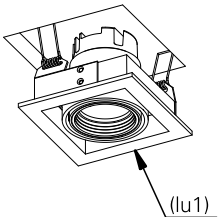
2. aloje o driver sobre o forro.
faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.
obs: drivers não se aplicam para versões tr



3. levante as molas de fixação (mf1) conforme a ilustração abaixo.



4. segurando as molas de fixação, encaixe a luminária (lu1) no nicho.



5. a luminária após instalada deverá ficar como ilustrado na imagem.
ligue a rede elétrica e teste o seu funcionamento.

