

focus xsm 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
2	c	2700		
2	m	2700		
2	a	2700		
2	c	3000	235	125
2	m	3000	235	184
2	a	3000	235	138

equipamentos

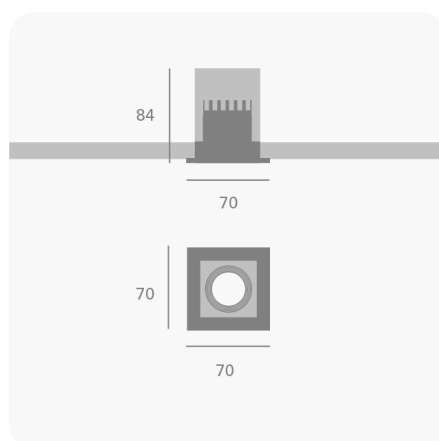
LED driver 700mA (incluso, ponto remoto)

controle
on/off

instalação
forro de gesso
forro modular
marcenaria

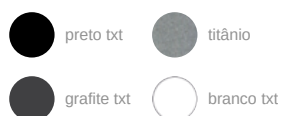
IP
20

dimensões



acabamentos e cores

cores





corten



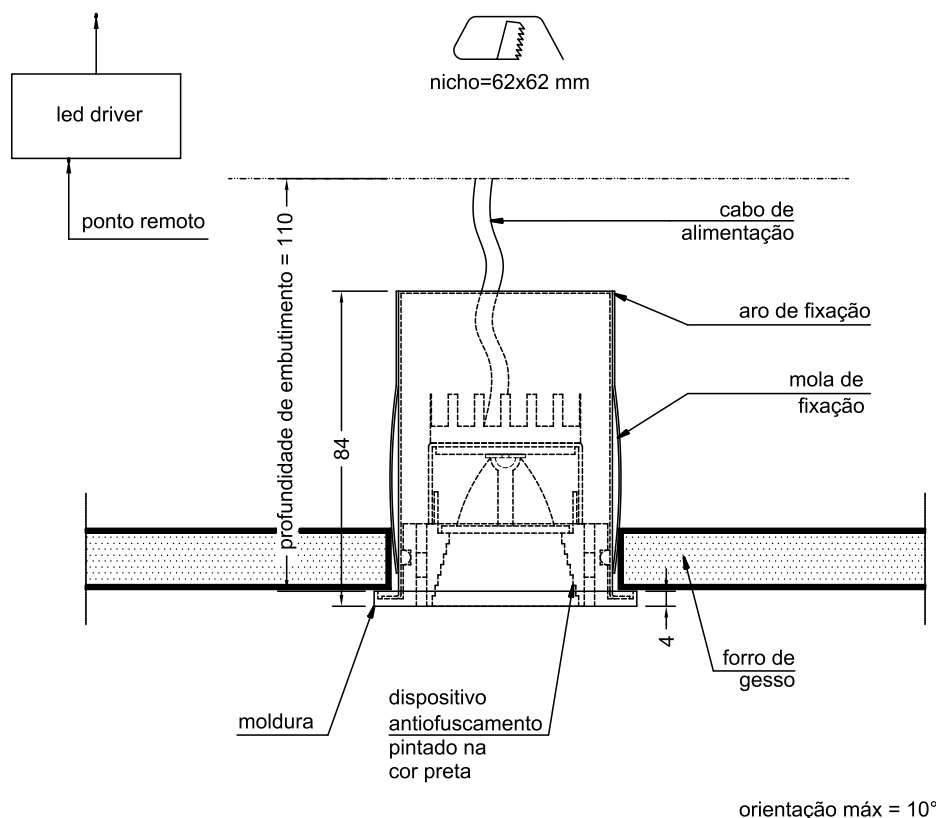
cinza médio



cinza areia

vista lateral

dimensões em milímetros



focus xsm a e

folha
1/1

escala
1:2

data
18/10/2018

desenhista
joao ferreira

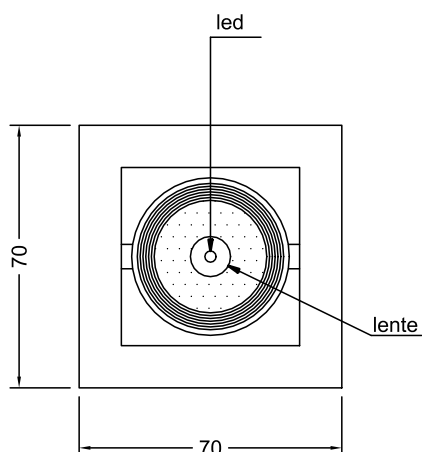
aprovação
edmilson

revisões

18/10/2018

vista inferior

dimensões em milímetros



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



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LumCAT:

Luminaire: focus xsm a e fc

LampCAT: modulo led 2W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.9500

Test No:

Current(A): 0.0520

Number of Lamps: 1

Power (W): 2.9280

Lamp flux(lm): 235.0

PF: 0.4380

Length(mm): 40

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 125.06, Efficiency(%): 53.21% , Luminous Efficacy(lm/W): 42.71

Central intensity(cd): 1205.818, Maximum intensity(cd): 1205.818

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

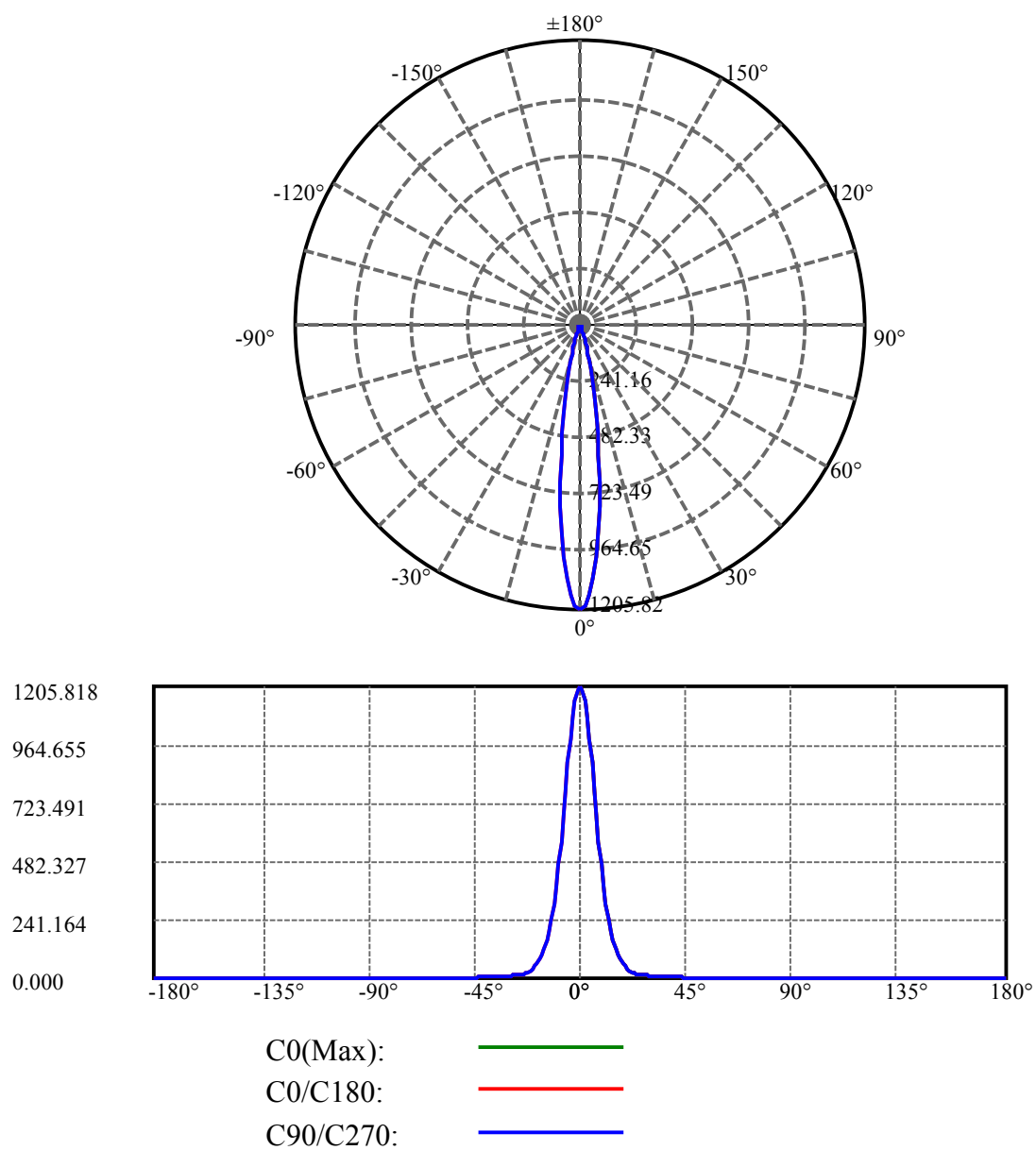
Beam angle of C0 plane : 15.25

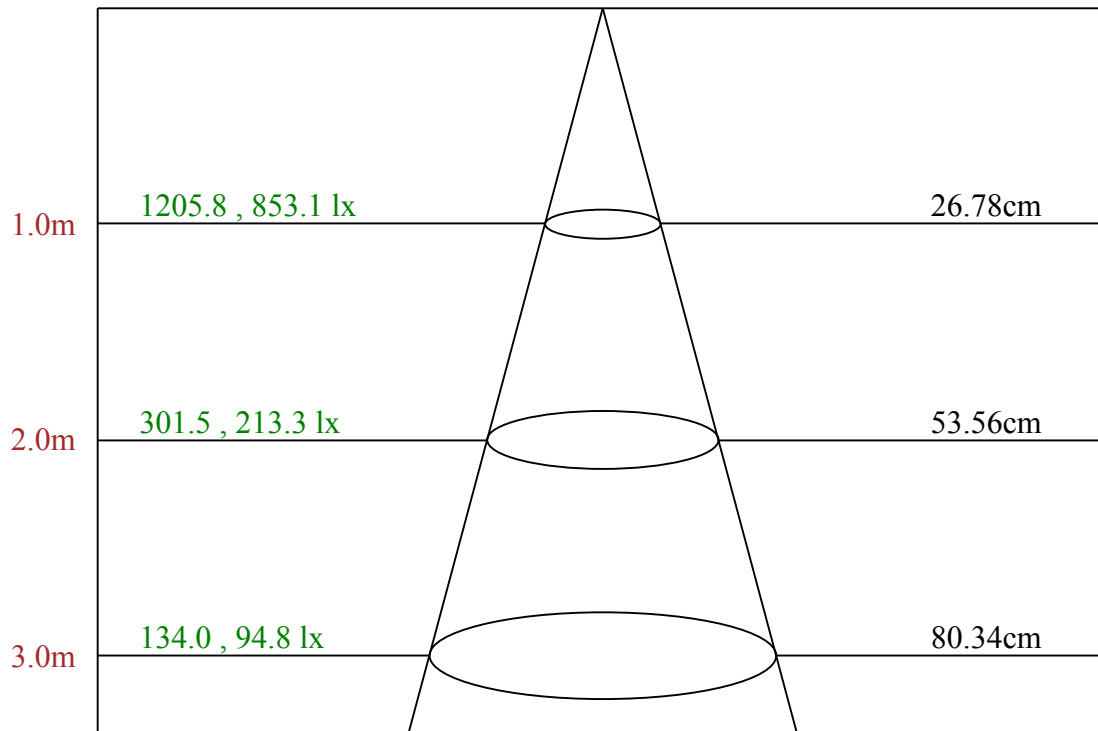
Average BeamAngle(IEC 61341): 15.25

Equipment: equipamento lumini
Temperature(°C): 25.0

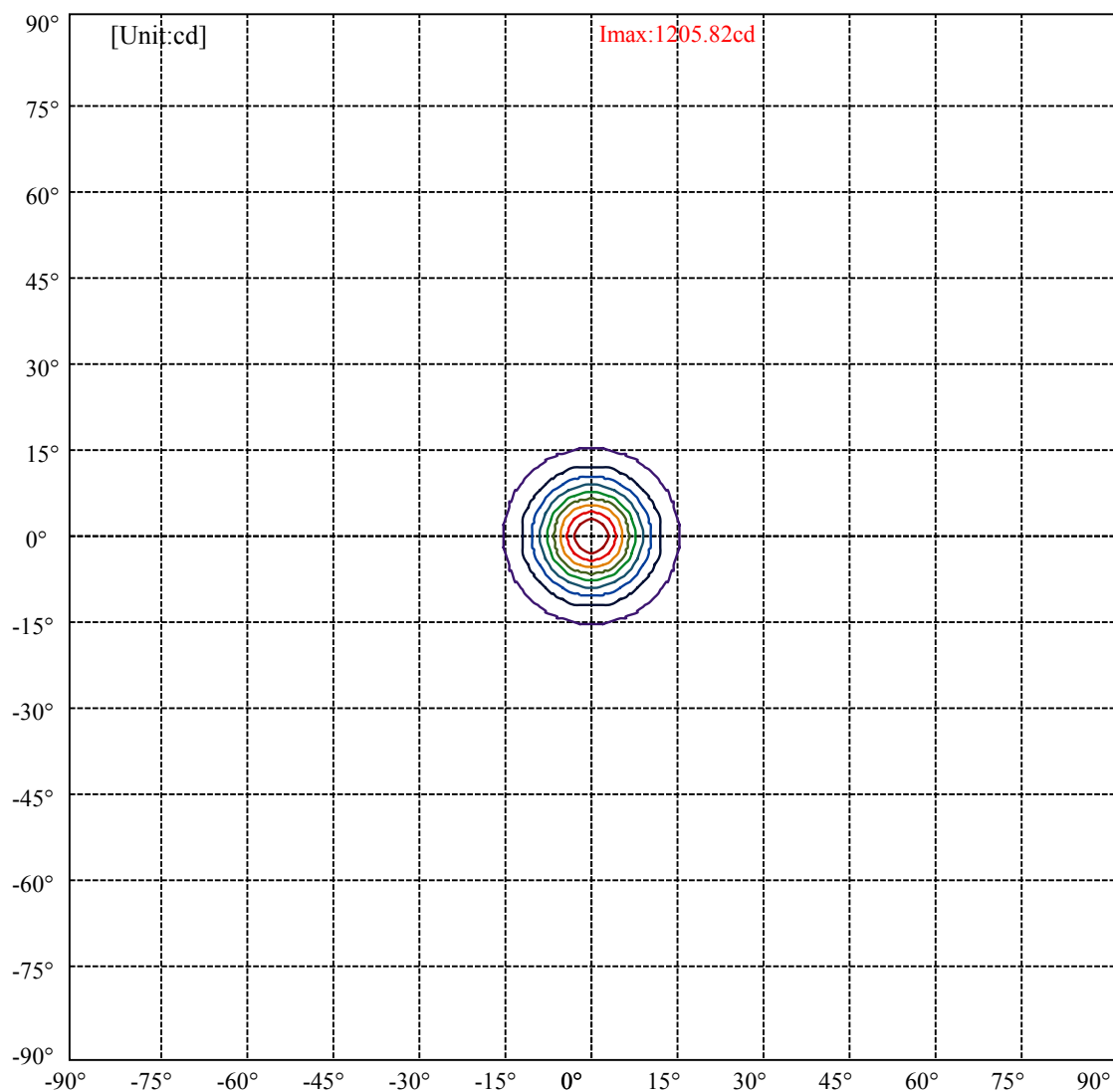
Date: 30/05/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 15.25



(10%Imax) 120.582	—
(20%Imax) 241.164	—
(30%Imax) 361.746	—
(40%Imax) 482.327	—
(50%Imax) 602.909	—
(60%Imax) 723.491	—
(70%Imax) 844.073	—
(80%Imax) 964.655	—
(90%Imax) 1085.24	—

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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	2788	1568	875	647	739	903	1178	1649	3243
C45	2788	1568	875	647	739	903	1178	1649	3243
C90	2788	1568	875	647	739	903	1178	1649	3243

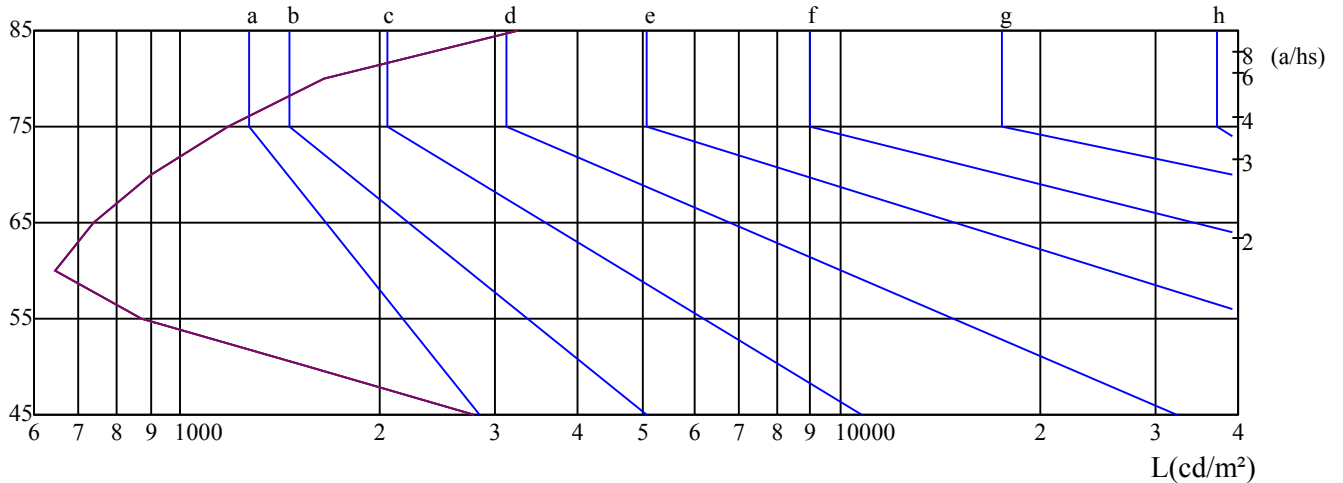
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
739	739	739	1178	1178	1178	3243	3243	3243

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): 25.0

Date: 30/05/2025
Humidity(%): 58.0%

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	5.73	6.64	6.14	7.01	7.39	5.56	6.47	5.97	6.84	7.21
	3H	6.14	6.95	6.58	7.34	7.75	6.03	6.84	6.46	7.23	7.63
	4H	6.65	7.40	7.09	7.80	8.23	6.55	7.30	6.99	7.70	8.13
	6H	7.46	8.14	7.92	8.57	9.03	7.43	8.11	7.89	8.54	9.00
	8H	7.99	8.64	8.46	9.08	9.54	8.08	8.73	8.55	9.17	9.63
	12H	8.75	9.37	9.23	9.82	10.29	8.83	9.45	9.30	9.89	10.37
4H	2H	5.65	6.39	6.09	6.80	7.23	5.49	6.24	5.93	6.64	7.07
	3H	6.30	6.93	6.77	7.37	7.85	6.20	6.83	6.68	7.28	7.75
	4H	7.11	7.66	7.60	8.13	8.63	7.04	7.58	7.52	8.05	8.56
	6H	8.21	8.69	8.73	9.19	9.70	8.22	8.71	8.74	9.20	9.71
	8H	8.97	9.41	9.50	9.92	10.45	9.10	9.55	9.63	10.05	10.58
	12H	9.98	10.39	10.51	10.88	11.46	10.08	10.49	10.62	10.99	11.57
8H	4H	7.42	7.86	7.95	8.37	8.90	7.36	7.80	7.88	8.30	8.83
	6H	8.85	9.21	9.40	9.73	10.30	8.88	9.24	9.43	9.77	10.33
	8H	9.88	10.19	10.46	10.75	11.31	10.03	10.34	10.61	10.90	11.45
	12H	11.15	11.39	11.74	11.95	12.52	11.27	11.50	11.85	12.06	12.63
12H	4H	7.53	7.94	8.06	8.43	9.01	7.46	7.87	7.99	8.37	8.94
	6H	9.13	9.43	9.70	10.00	10.55	9.16	9.46	9.73	10.03	10.58
	8H	10.26	10.50	10.85	11.06	11.63	10.39	10.63	10.98	11.19	11.76
Variation with the observer position at spacings:											
S = 1.0H		1.0/-2.0					1.0/-2.0				
S = 1.5H		1.6/-1.8					1.6/-1.8				
S = 2.0H		1.9/-1.7					1.9/-1.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-6.2					-6.2				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus xsm a e fm

LampCAT: modulo led 2W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.9500

Test No:

Current(A): 0.0520

Number of Lamps: 1

Power (W): 2.9350

Lamp flux(lm): 235.0

PF: 0.4380

Length(mm): 40

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 183.93, Efficiency(%): 78.27% , Luminous Efficacy(lm/W): 62.67

Central intensity(cd): 829.640, Maximum intensity(cd): 829.640

Angle of maximum intensity: C=0.0 γ =0.0

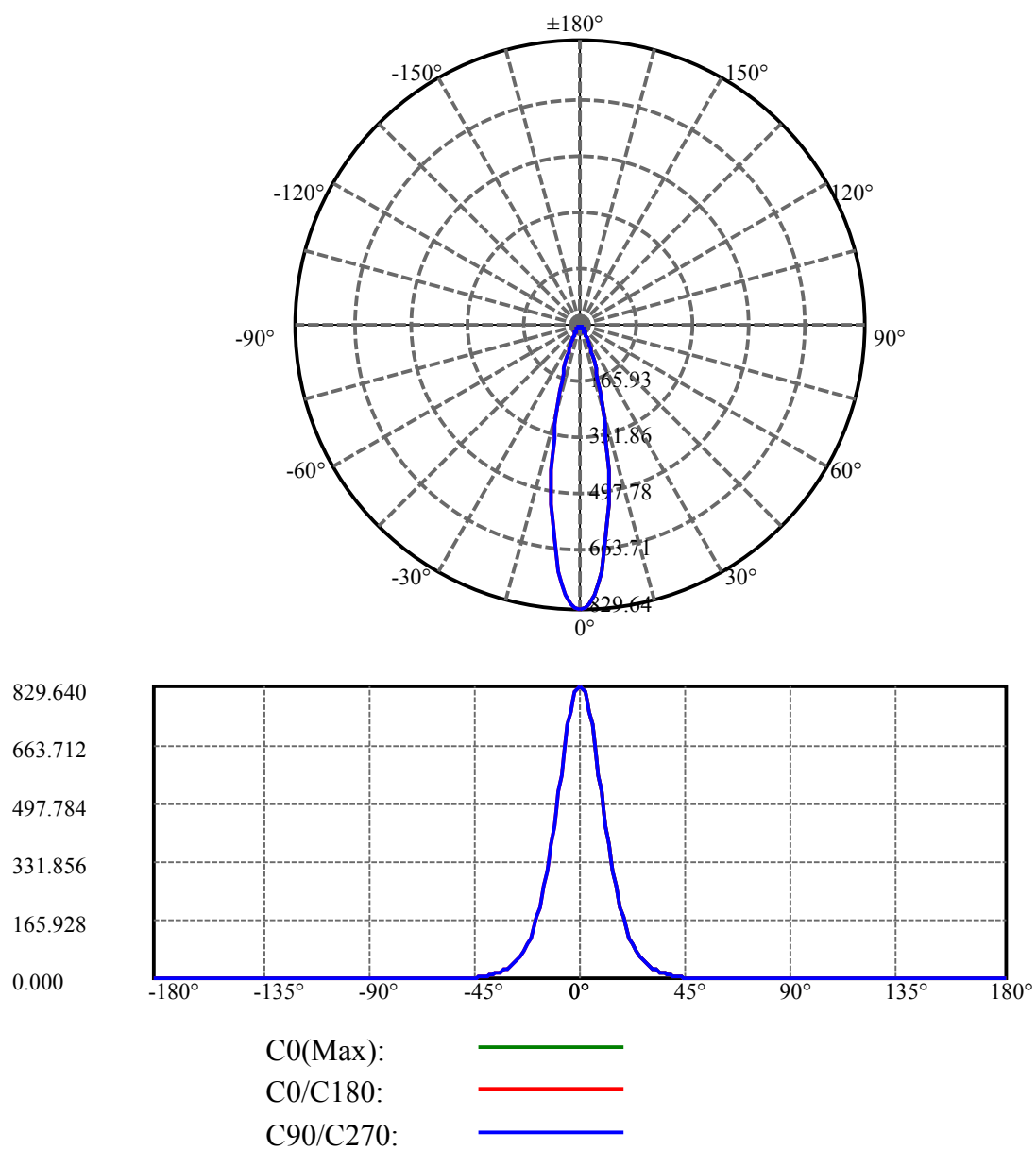
Beam angle of C0 plane : 22.65

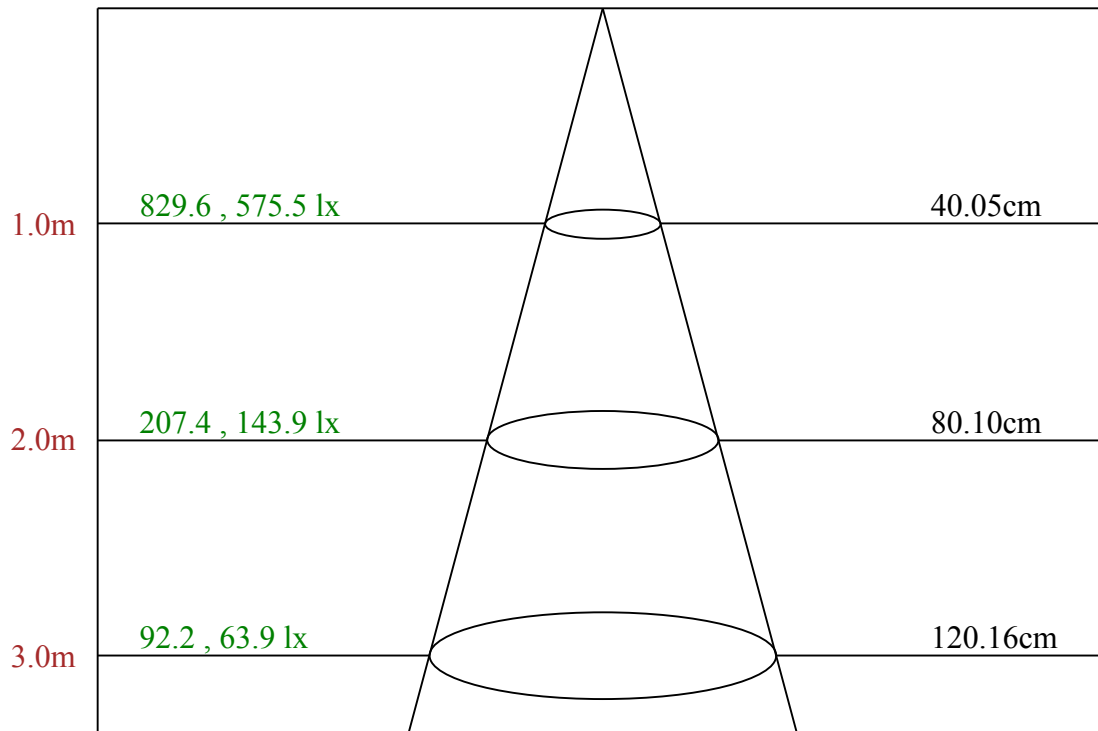
Average BeamAngle(IEC 61341): 22.65

Equipment: equipamento lumini
Temperature(°C): 25.0

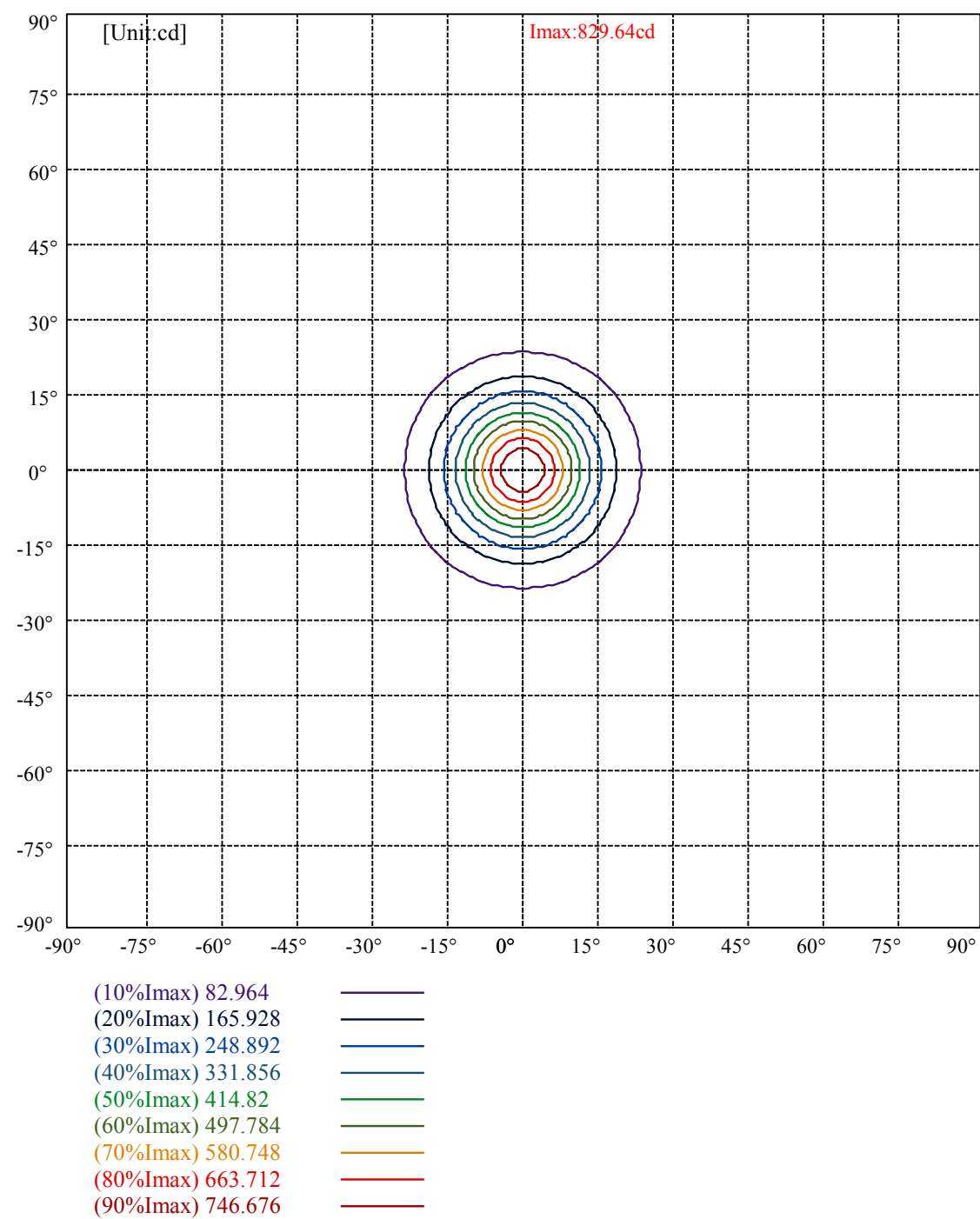
Date: 30/05/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 22.65



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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	1652	1169	927	774	915	1131	1495	2185	4353
C45	1652	1169	927	774	915	1131	1495	2185	4353
C90	1652	1169	927	774	915	1131	1495	2185	4353

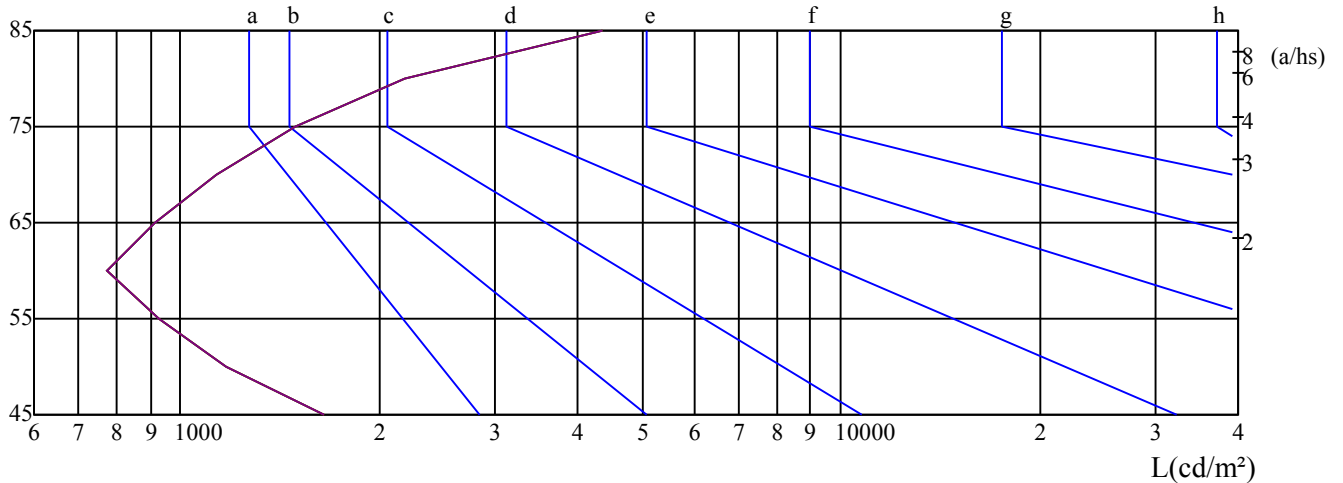
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
915	915	915	1495	1495	1495	4353	4353	4353

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($^{\circ}\text{C}$): 25.0

Date: 30/05/2025
Humidity(%): 58.0%

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	8.37	9.27	8.78	9.63	10.00	7.26	8.15	7.66	8.51	8.88
	3H	8.50	9.30	8.93	9.68	10.08	7.51	8.31	7.94	8.69	9.09
	4H	8.76	9.49	9.20	9.89	10.32	7.88	8.62	8.32	9.02	9.44
	6H	9.23	9.91	9.69	10.33	10.78	8.59	9.26	9.05	9.68	10.13
	8H	9.60	10.24	10.06	10.67	11.13	9.07	9.71	9.53	10.14	10.60
	12H	10.14	10.75	10.61	11.19	11.66	9.82	10.43	10.29	10.86	11.34
4H	2H	8.15	8.89	8.59	9.29	9.71	7.08	7.81	7.52	8.21	8.63
	3H	8.42	9.04	8.89	9.48	9.95	7.52	8.14	7.99	8.58	9.05
	4H	8.91	9.45	9.39	9.91	10.41	8.17	8.71	8.65	9.17	9.67
	6H	9.63	10.10	10.14	10.59	11.10	9.16	9.63	9.67	10.13	10.63
	8H	10.22	10.66	10.74	11.16	11.68	9.88	10.32	10.41	10.82	11.35
	12H	11.03	11.43	11.56	11.93	12.50	10.91	11.31	11.44	11.81	12.38
8H	4H	9.04	9.48	9.57	9.98	10.50	8.38	8.82	8.91	9.32	9.84
	6H	10.04	10.40	10.59	10.92	11.48	9.68	10.03	10.22	10.55	11.11
	8H	10.92	11.22	11.49	11.78	12.32	10.70	11.00	11.27	11.56	12.11
	12H	12.03	12.25	12.61	12.81	13.38	12.02	12.24	12.60	12.80	13.37
12H	4H	9.10	9.50	9.63	9.99	10.56	8.46	8.86	8.99	9.35	9.92
	6H	10.27	10.57	10.84	11.13	11.67	9.93	10.22	10.50	10.78	11.33
	8H	11.23	11.46	11.81	12.01	12.58	11.04	11.27	11.62	11.82	12.39
Variation with the observer position at spacings:											
S = 1.0H		4.3/-3.7					4.3/-3.7				
S = 1.5H		5.6/-2.7					5.6/-2.7				
S = 2.0H		6.3/-2.2					6.3/-2.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.8					-4.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus xsm a e fa

LampCAT: modulo led 2W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.9600

Test No:

Current(A): 0.0520

Number of Lamps: 1

Power (W): 2.9270

Lamp flux(lm): 235.0

PF: 0.4370

Length(mm): 40

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 137.59, Efficiency(%): 58.55% , Luminous Efficacy(lm/W): 47.01

Central intensity(cd): 251.500, Maximum intensity(cd): 251.500

Angle of maximum intensity: C=0.0 γ =0.0

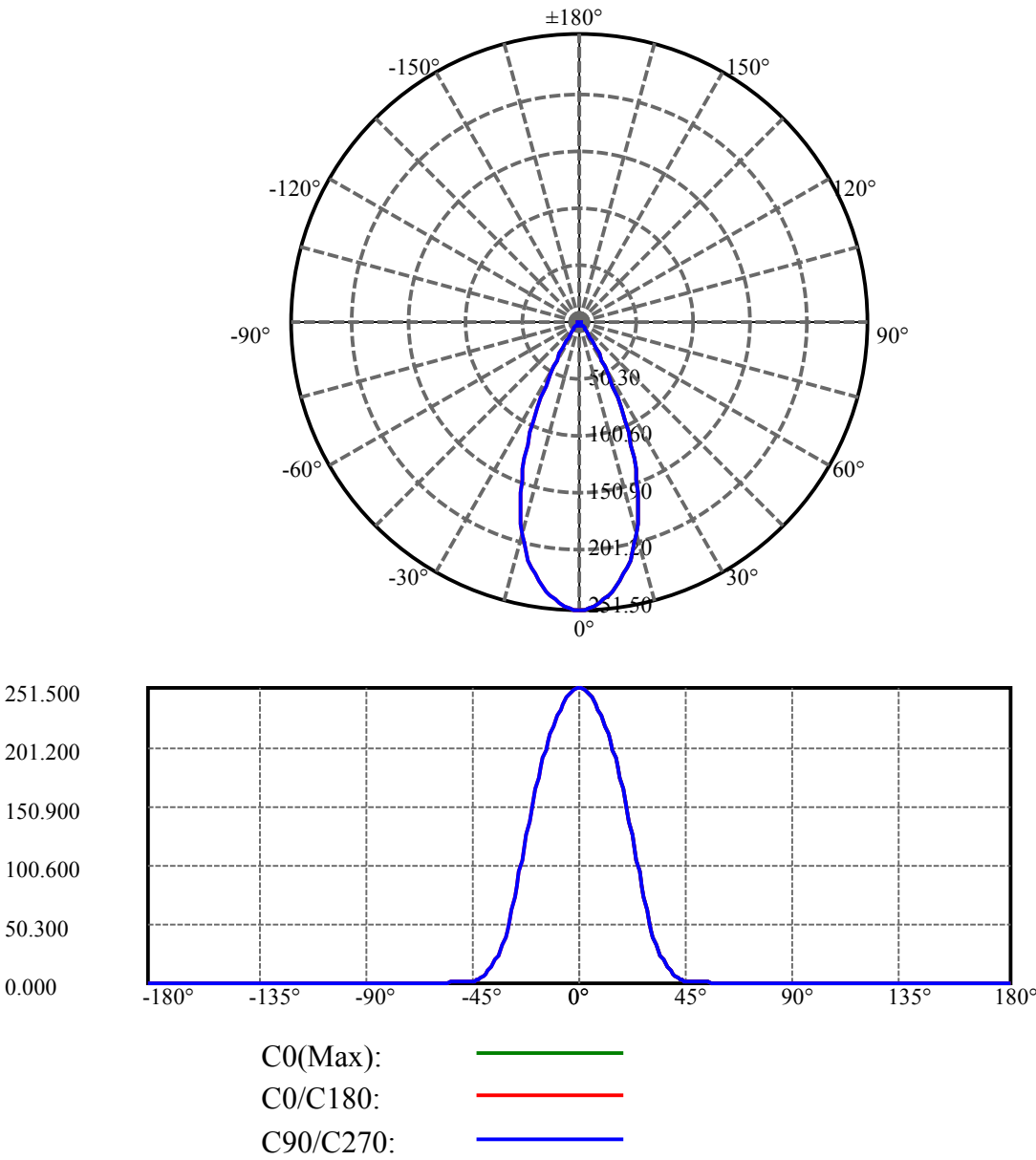
Beam angle of C0 plane : 44.23

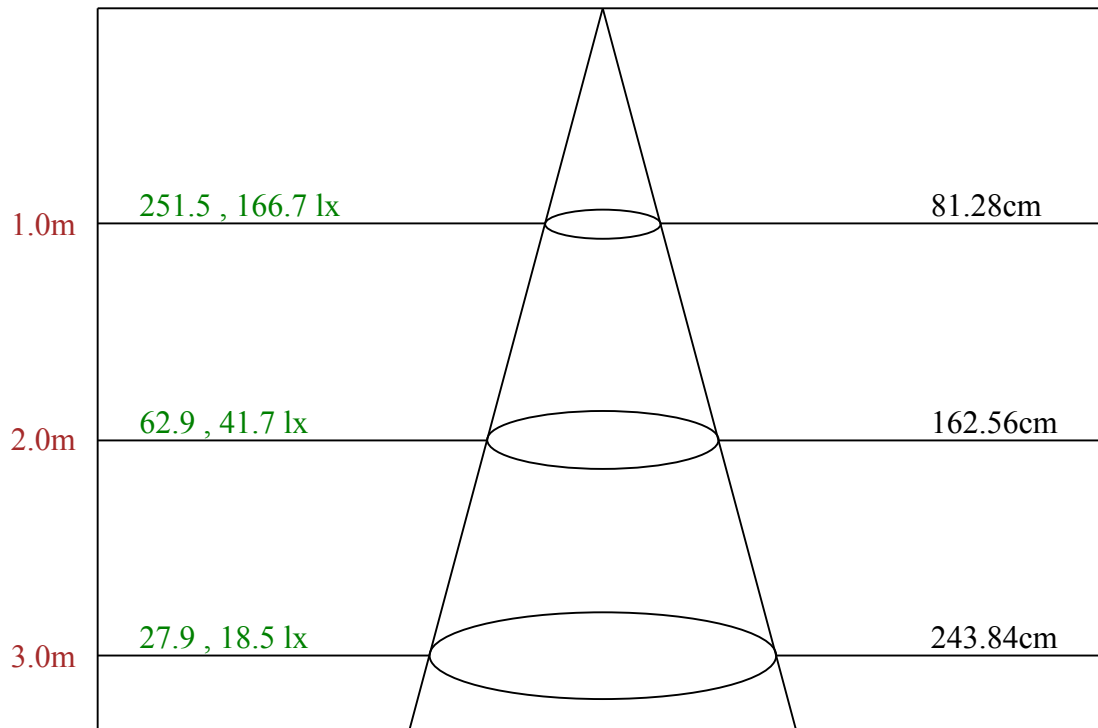
Aveage BeamAngle(IEC 61341):44.23

Equipment: equipamento lumini
Temperature(°C): 25.0

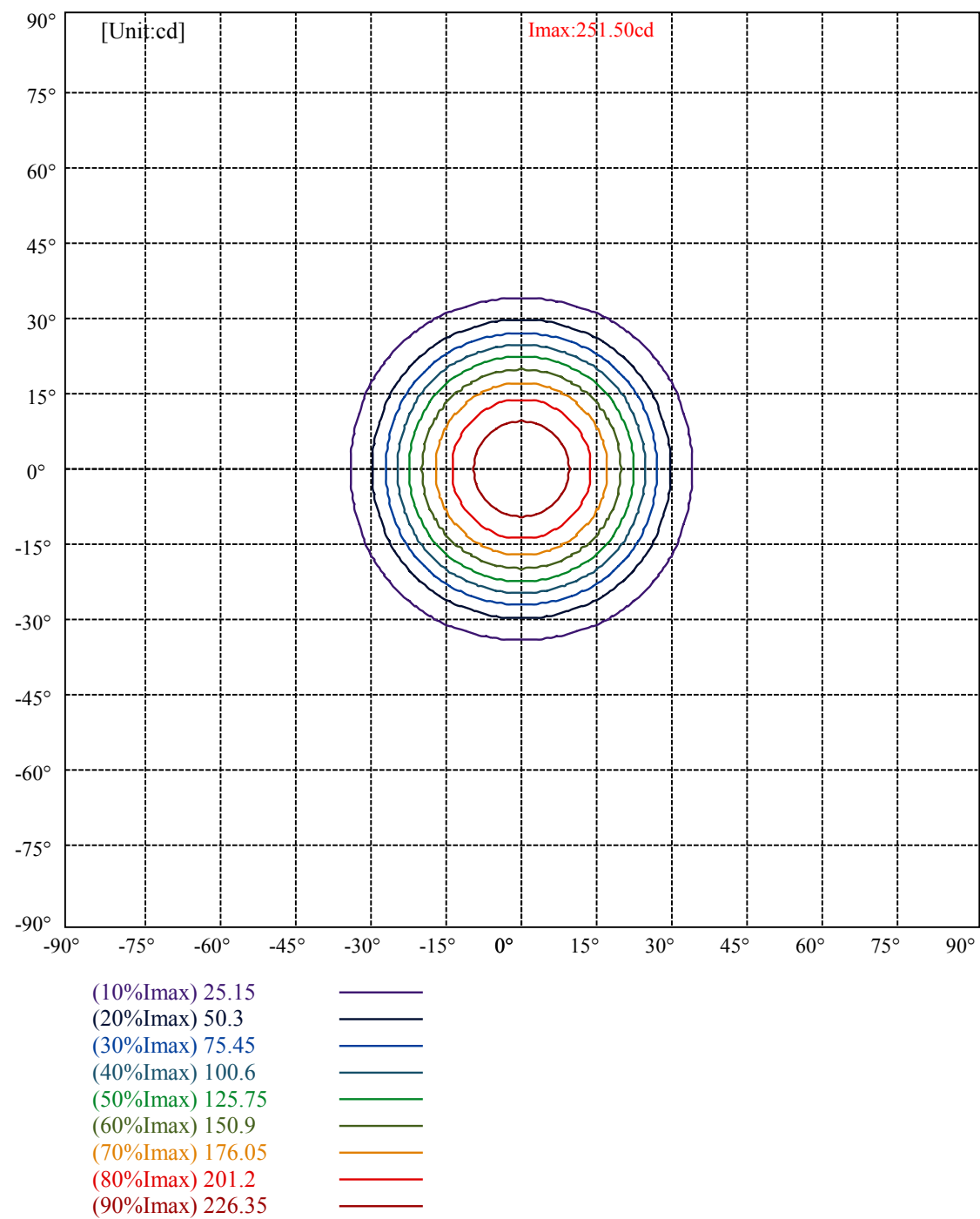
Date: 30/05/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 44.23



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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	1704	1331	817	617	722	859	1092	1628	2817
C45	1704	1331	817	617	722	859	1092	1628	2817
C90	1704	1331	817	617	722	859	1092	1628	2817

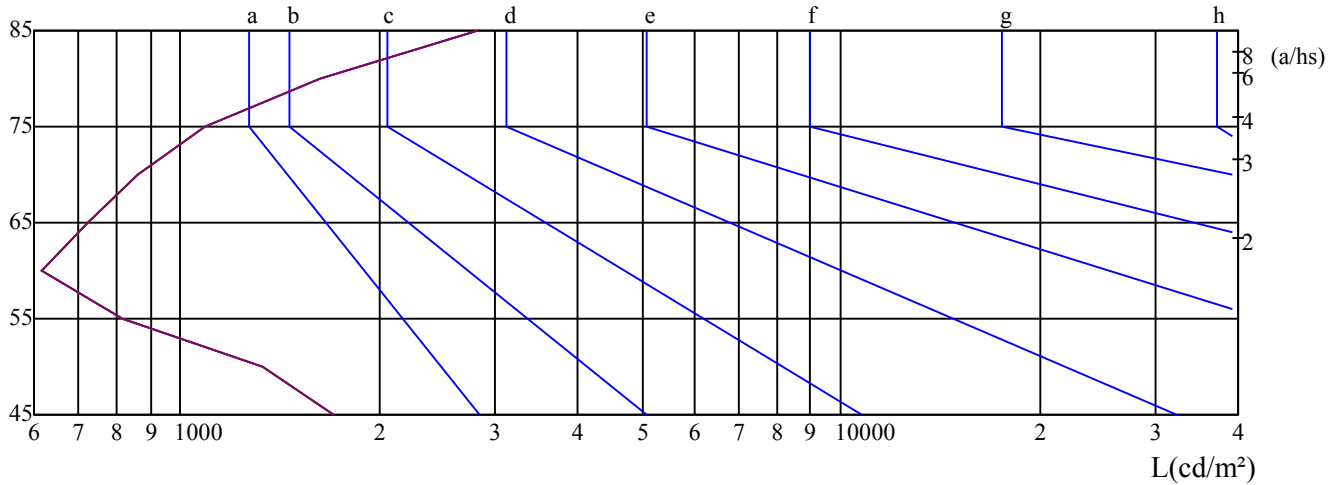
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
722	722	722	1092	1092	1092	2817	2817	2817

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): 25.0

Date: 30/05/2025
Humidity(%): 58.0%

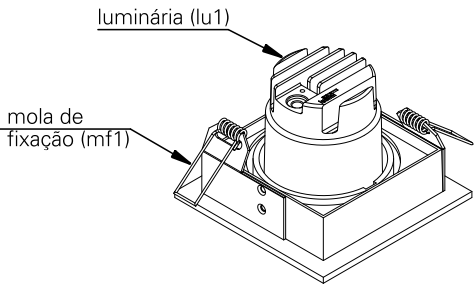
Operator: 01
Distance(m): 6.90

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	10.06	10.97	10.47	11.32	11.69	9.42	10.32	9.82	10.68	11.05
	3H	10.03	10.83	10.46	11.21	11.61	9.42	10.22	9.85	10.60	11.00
	4H	10.11	10.85	10.55	11.25	11.67	9.52	10.26	9.96	10.66	11.08
	6H	10.37	11.05	10.83	11.47	11.92	9.82	10.50	10.28	10.92	11.37
	8H	10.56	11.21	11.02	11.63	12.09	10.02	10.66	10.48	11.09	11.55
	12H	10.86	11.47	11.33	11.91	12.38	10.35	10.96	10.82	11.40	11.87
4H	2H	9.80	10.54	10.24	10.94	11.36	9.17	9.91	9.61	10.31	10.73
	3H	9.83	10.45	10.30	10.89	11.36	9.25	9.88	9.72	10.31	10.78
	4H	10.06	10.60	10.54	11.07	11.56	9.52	10.06	9.99	10.52	11.02
	6H	10.47	10.95	10.99	11.44	11.94	9.99	10.47	10.50	10.96	11.46
	8H	10.84	11.28	11.37	11.78	12.30	10.36	10.80	10.88	11.30	11.82
	12H	11.36	11.77	11.89	12.26	12.83	10.92	11.33	11.45	11.82	12.39
8H	4H	10.06	10.50	10.58	11.00	11.52	9.55	9.99	10.07	10.48	11.00
	6H	10.64	11.00	11.18	11.52	12.08	10.22	10.58	10.76	11.09	11.65
	8H	11.26	11.56	11.83	12.12	12.66	10.82	11.12	11.39	11.68	12.23
	12H	12.01	12.24	12.59	12.79	13.36	11.63	11.86	12.21	12.41	12.98
12H	4H	10.06	10.47	10.59	10.96	11.52	9.56	9.96	10.08	10.45	11.02
	6H	10.77	11.07	11.34	11.63	12.17	10.36	10.66	10.93	11.22	11.77
	8H	11.44	11.67	12.02	12.22	12.79	11.03	11.26	11.61	11.81	12.38
Variation with the observer position at spacings:											
S = 1.0H		5.3/-6.1					5.3/-6.1				
S = 1.5H		7.4/-4.7					7.4/-4.7				
S = 2.0H		8.8/-3.8					8.8/-3.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		-6.5					-6.5				

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



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.

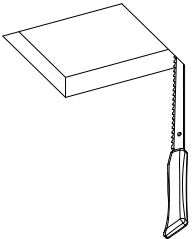
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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

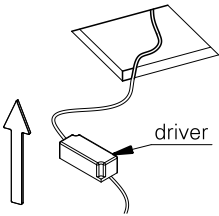
instalação passo a passo



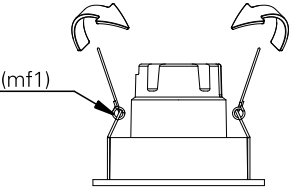
1. faça um nicho no forro conforme o modelo do produto na tabela.



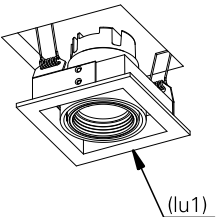
2. aloje o driver sobre o forro.
faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.
obs: drivers não se aplicam para versões tr



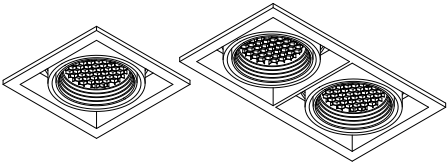
3. levante as molas de fixação (mf1) conforme a ilustração abaixo.



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.



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.