

focus sm a dtw 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), facho, temperatura de cor (K),
fluxo nominal (lm nominal), fluxo útil (lm útil)

W		K	lm nominal	lm útil
12	concentrado	dim to warm	924	651
12	médio	dim to warm	924	649
12	aberto	dim to warm	924	631

equipamentos

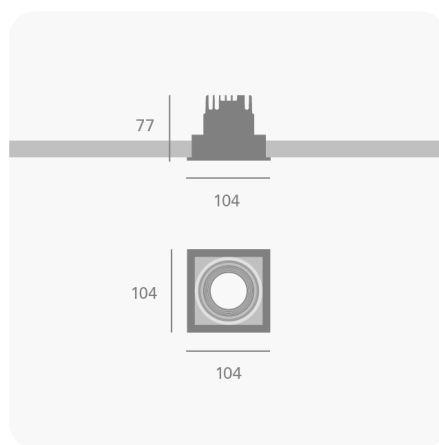
LED driver 700mA (incluso, ponto remoto)

controle
on/off
dim fphase

instalação
forro de gesso
forro modular
marcenaria

IP
20

dimensões



acabamentos e cores

cores

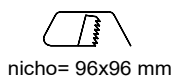
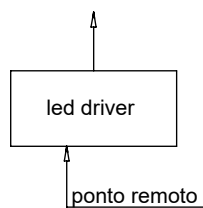




titânio

vista lateral

dimensões em milímetros



focus sm a dtw e

folha
1/1

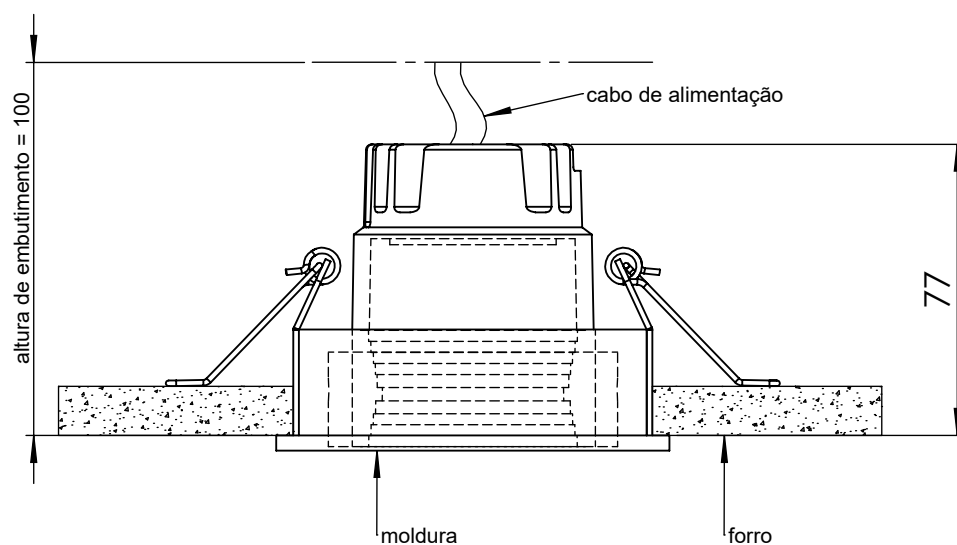
escala
1:2

data
11/06/2025

desenhista
joão v.

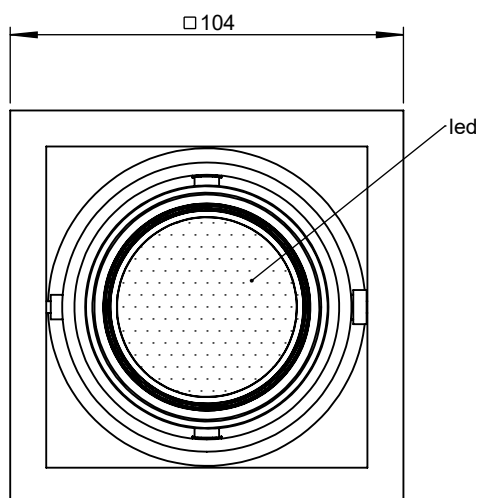
aprovação
severino

revisões
11/06/2025



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 dtw e fc

LampCAT: modulo led dtw 12W 27K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.7800

Test No:

Current(A): 0.1130

Number of Lamps: 1

Power (W): 14.1220

Lamp flux(lm): 924.0

PF: 0.9760

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 650.56, Efficiency(%): 70.41% , Luminous Efficacy(lm/W): 46.07

Central intensity(cd): 3030.769, Maximum intensity(cd): 3030.769

Angle of maximum intensity: C=0.0 γ =0.0

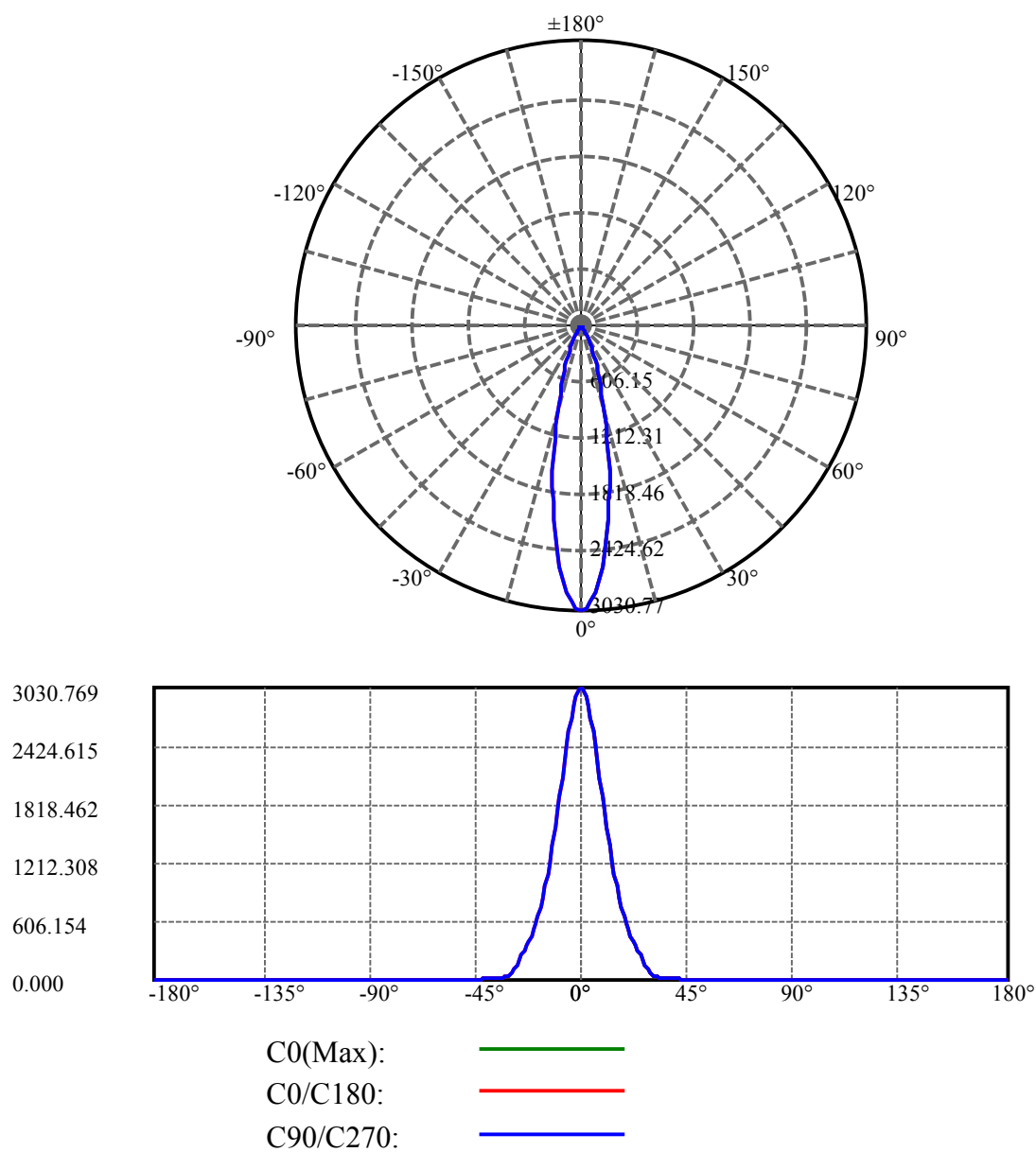
Beam angle of C0 plane : 22.69

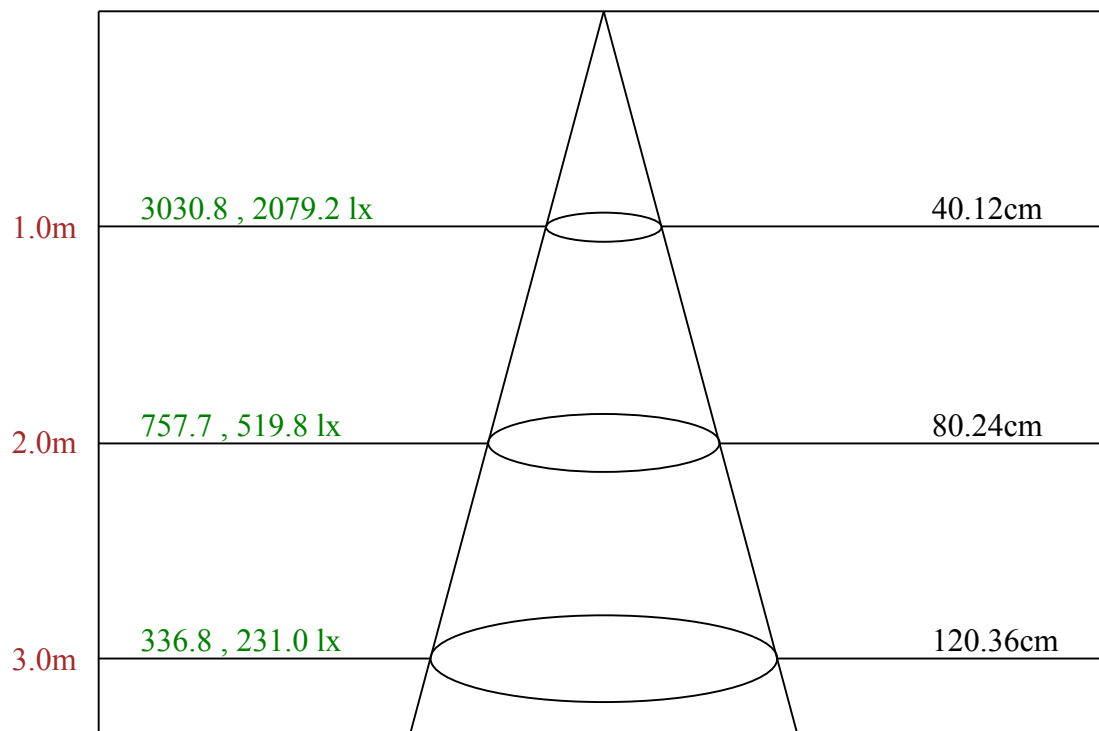
Average BeamAngle(IEC 61341): 22.69

Equipment: equipamento lumini
Temperature(°C): 25.0

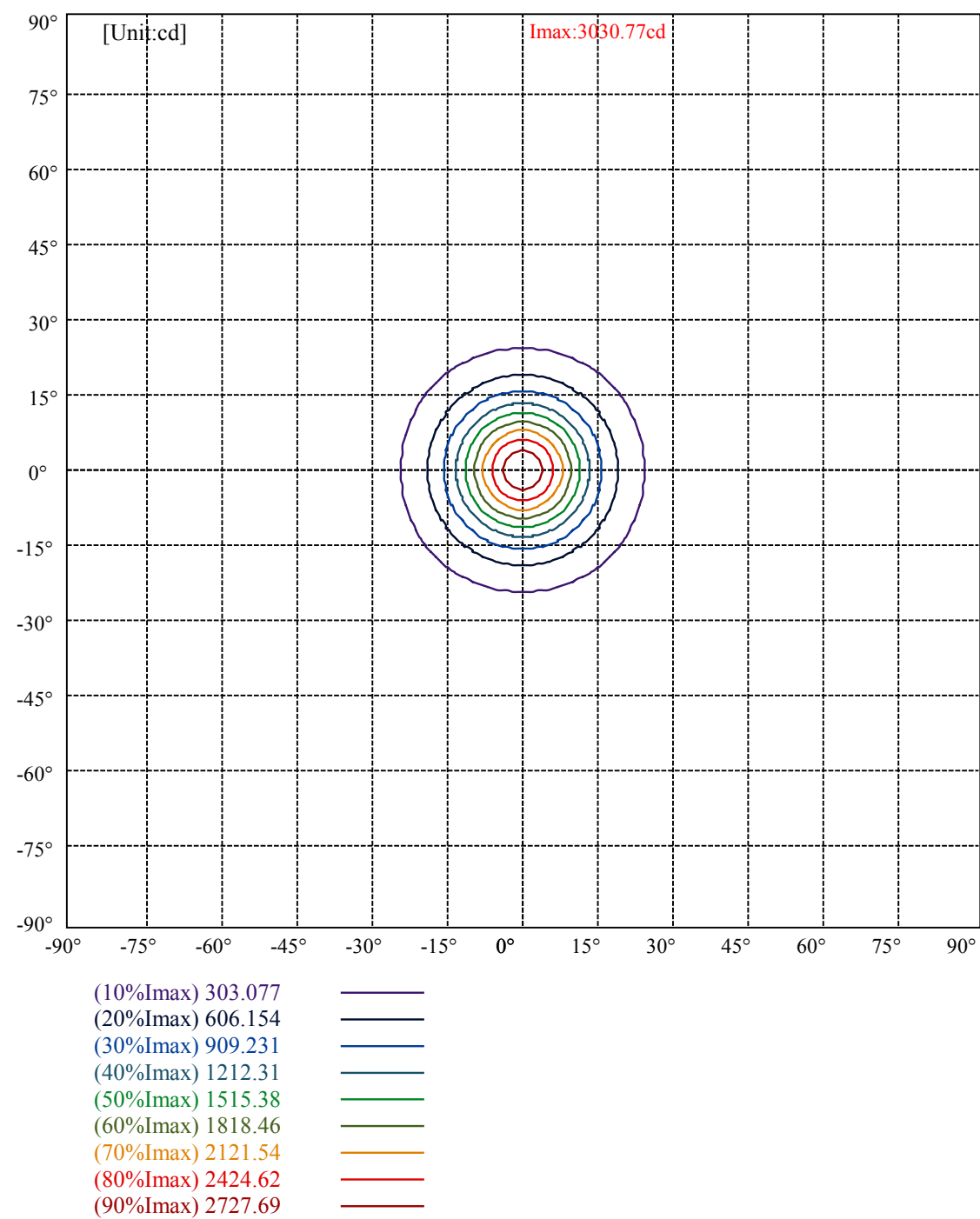
Date: 29/05/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 22.69



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

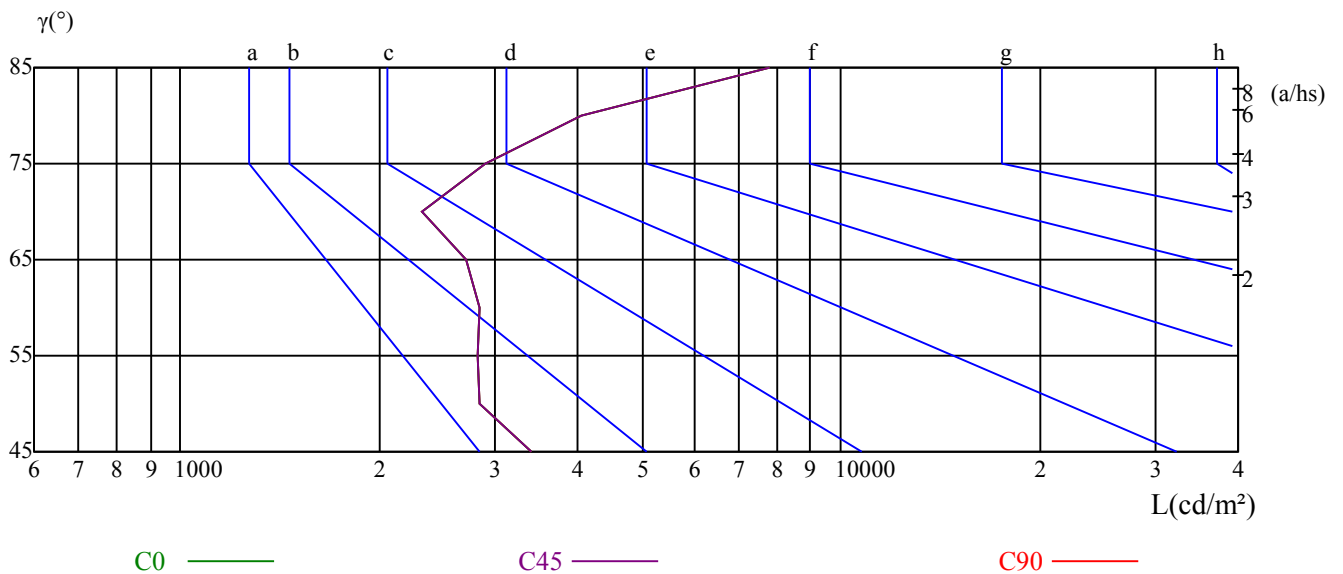
γ	45	50	55	60	65	70	75	80	85
C0	3411	2831	2813	2829	2705	2318	2896	4056	7788
C45	3411	2831	2813	2829	2705	2318	2896	4056	7788
C90	3411	2831	2813	2829	2705	2318	2896	4056	7788

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2705	2705	2705	2896	2896	2896	7788	7788	7788

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



Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.0

Date: 29/05/2025
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	7.09	7.99	7.50	8.35	8.72	7.43	8.33	7.83	8.68	9.05
	3H	8.19	9.00	8.62	9.38	9.78	8.59	9.39	9.02	9.77	10.17
	4H	8.86	9.60	9.30	10.00	10.42	9.18	9.92	9.62	10.32	10.74
	6H	9.90	10.58	10.36	11.00	11.45	10.12	10.80	10.58	11.22	11.67
	8H	10.55	11.20	11.01	11.62	12.08	10.70	11.35	11.16	11.78	12.24
	12H	11.40	12.01	11.87	12.45	12.92	11.47	12.08	11.94	12.52	12.99
4H	2H	7.56	8.31	8.01	8.70	9.12	7.84	8.58	8.28	8.98	9.40
	3H	8.82	9.45	9.29	9.88	10.35	9.13	9.76	9.60	10.20	10.67
	4H	9.73	10.27	10.20	10.73	11.23	9.97	10.50	10.44	10.97	11.47
	6H	10.97	11.44	11.48	11.94	12.44	11.11	11.59	11.62	12.08	12.58
	8H	11.78	12.22	12.30	12.72	13.24	11.87	12.31	12.39	12.80	13.33
	12H	12.82	13.23	13.35	13.72	14.29	12.83	13.23	13.36	13.72	14.29
8H	4H	10.06	10.50	10.58	11.00	11.52	10.27	10.71	10.79	11.20	11.73
	6H	11.61	11.97	12.15	12.48	13.05	11.71	12.07	12.26	12.59	13.15
	8H	12.68	12.98	13.25	13.54	14.08	12.73	13.03	13.30	13.59	14.13
	12H	13.99	14.21	14.57	14.77	15.34	13.96	14.19	14.54	14.74	15.31
12H	4H	10.16	10.57	10.69	11.06	11.63	10.36	10.77	10.89	11.26	11.83
	6H	11.87	12.17	12.44	12.73	13.28	11.97	12.27	12.54	12.83	13.38
	8H	13.02	13.25	13.60	13.80	14.37	13.06	13.29	13.64	13.85	14.42
Variation with the observer position at spacings:											
S = 1.0H		1.0/-0.9					1.0/-0.9				
S = 1.5H		1.2/-1.2					1.2/-1.2				
S = 2.0H		1.4/-0.9					1.4/-0.9				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.8					-3.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm a dtw e fm

LampCAT: modulo led dtw 12W 27K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.7900

Test No:

Current(A): 0.1140

Number of Lamps: 1

Power (W): 14.1610

Lamp flux(lm): 924.0

PF: 0.9760

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 649.02, Efficiency(%): 70.24% , Luminous Efficacy(lm/W): 45.83

Central intensity(cd): 2982.635, Maximum intensity(cd): 2982.635

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

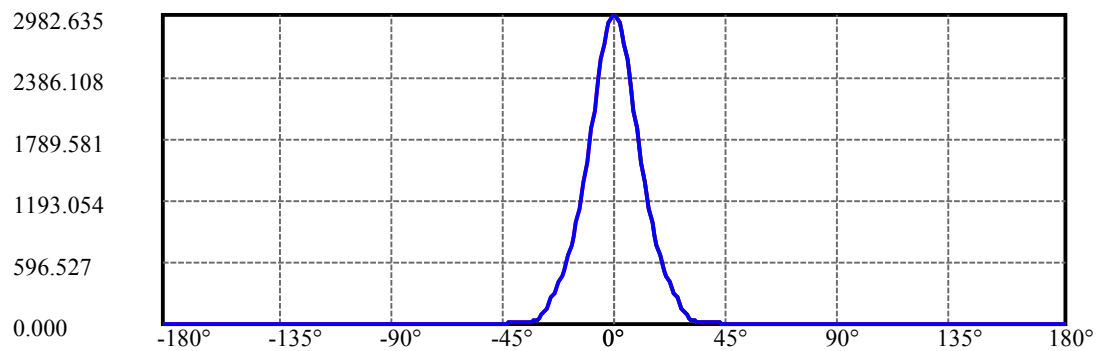
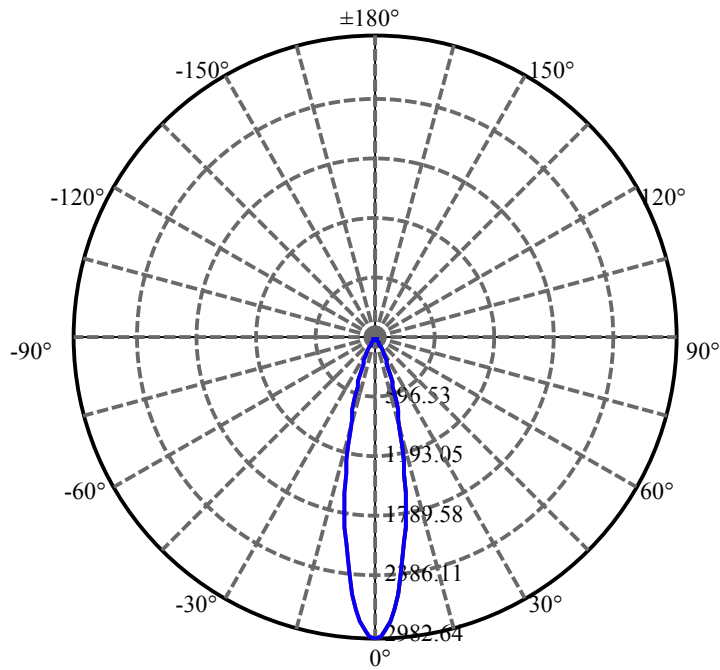
Beam angle of C0 plane : 22.77

Average BeamAngle(IEC 61341): 22.77

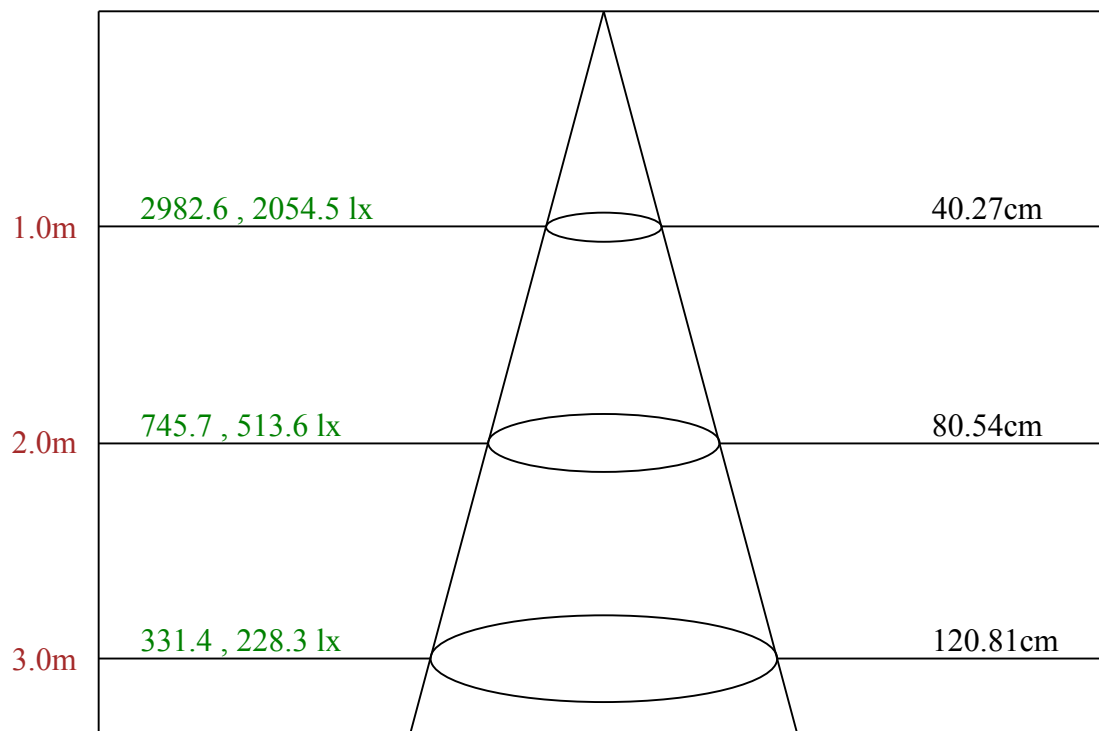
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 29/05/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

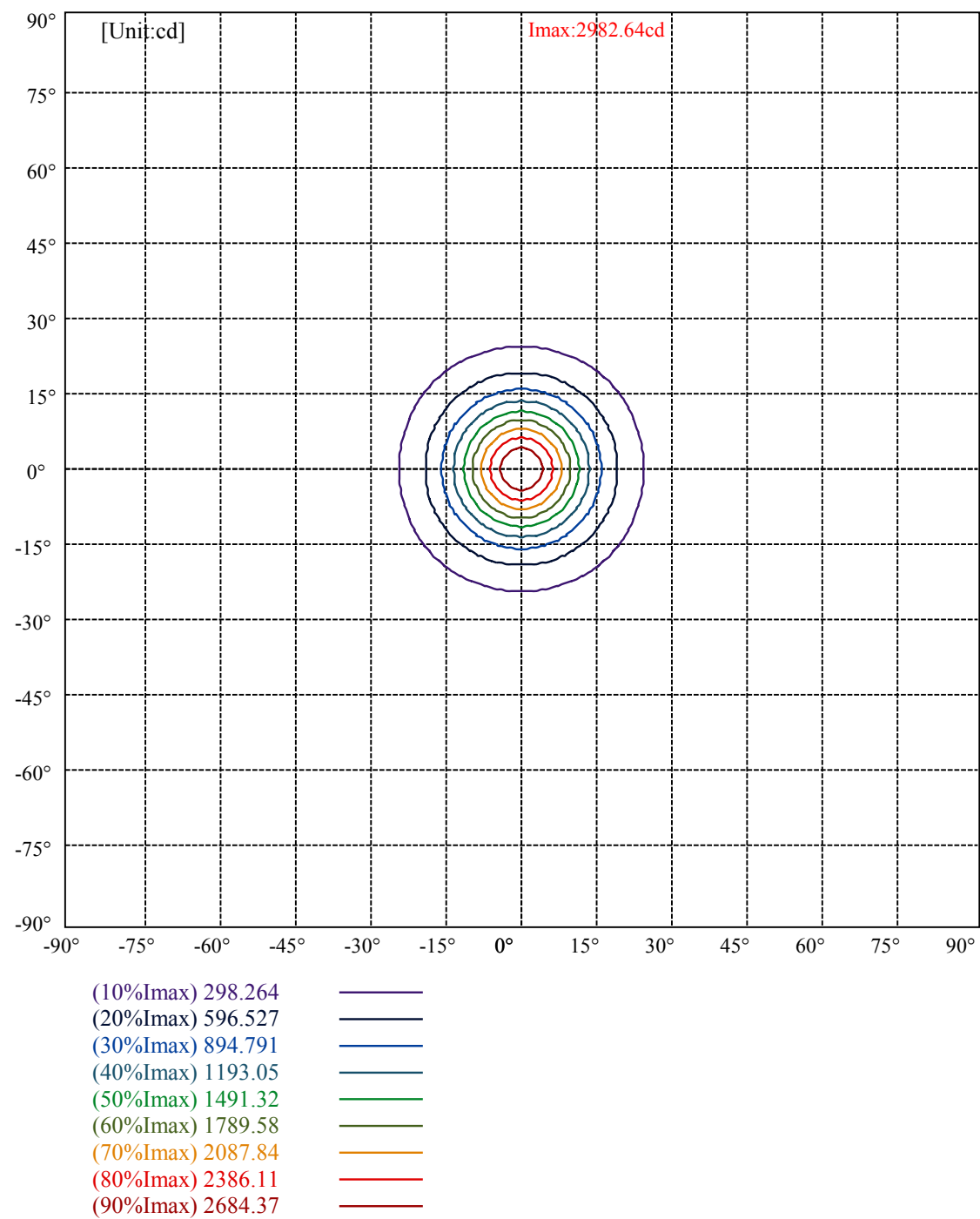


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 22.77



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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	3417	2834	2778	2790	2681	2347	2866	4101	7788
C45	3417	2834	2778	2790	2681	2347	2866	4101	7788
C90	3417	2834	2778	2790	2681	2347	2866	4101	7788

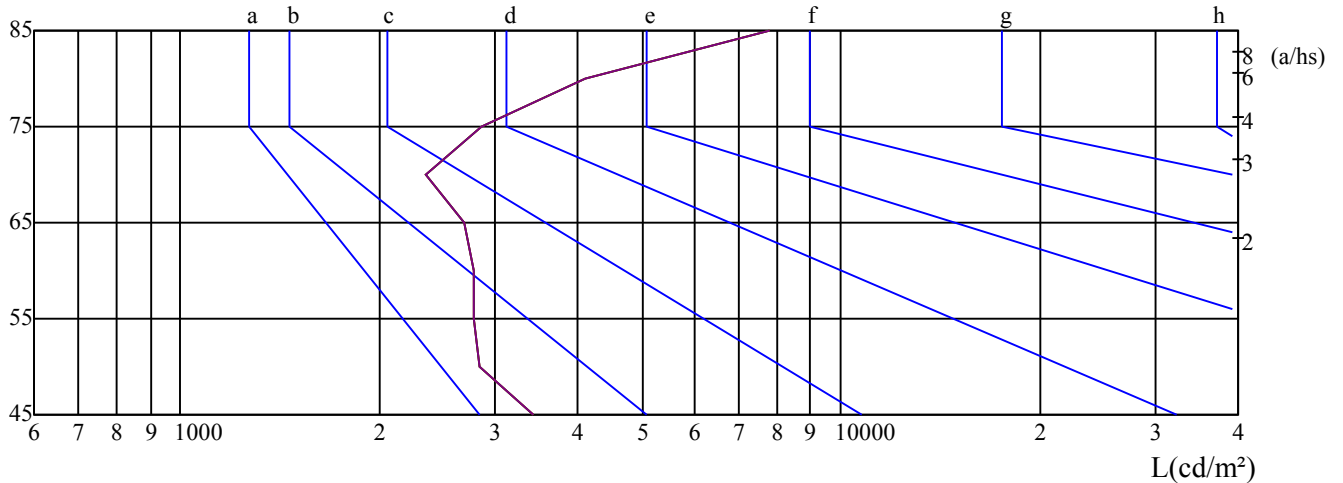
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2681	2681	2681	2866	2866	2866	7788	7788	7788

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: 29/05/2025
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	6.80	7.70	7.21	8.06	8.43	7.22	8.12	7.62	8.47	8.84
	3H	7.91	8.71	8.33	9.09	9.49	8.34	9.14	8.77	9.52	9.92
	4H	8.61	9.36	9.05	9.75	10.17	8.96	9.71	9.41	10.10	10.53
	6H	9.67	10.34	10.13	10.77	11.22	9.93	10.60	10.38	11.02	11.48
	8H	10.32	10.97	10.78	11.39	11.85	10.55	11.19	11.01	11.62	12.08
	12H	11.15	11.76	11.61	12.20	12.67	11.35	11.96	11.82	12.40	12.87
4H	2H	7.25	7.99	7.69	8.39	8.81	7.59	8.33	8.03	8.73	9.15
	3H	8.53	9.15	8.99	9.59	10.06	8.87	9.50	9.34	9.94	10.40
	4H	9.49	10.02	9.96	10.49	10.99	9.75	10.29	10.23	10.75	11.25
	6H	10.75	11.22	11.26	11.72	12.22	10.93	11.41	11.44	11.90	12.40
	8H	11.57	12.01	12.09	12.51	13.03	11.73	12.17	12.25	12.67	13.19
	12H	12.58	12.99	13.11	13.48	14.05	12.73	13.13	13.26	13.63	14.19
8H	4H	9.85	10.29	10.37	10.79	11.31	10.07	10.51	10.59	11.01	11.53
	6H	11.42	11.78	11.96	12.30	12.86	11.57	11.93	12.11	12.44	13.00
	8H	12.51	12.81	13.08	13.37	13.91	12.63	12.93	13.20	13.49	14.04
	12H	13.78	14.01	14.36	14.56	15.13	13.90	14.12	14.47	14.68	15.25
12H	4H	9.96	10.37	10.49	10.86	11.43	10.17	10.58	10.70	11.07	11.64
	6H	11.70	12.00	12.27	12.56	13.11	11.84	12.13	12.41	12.69	13.24
	8H	12.87	13.10	13.45	13.65	14.22	12.98	13.21	13.56	13.76	14.33
Variation with the observer position at spacings:											
S = 1.0H		1.0/-0.9					1.0/-0.9				
S = 1.5H		1.2/-1.2					1.2/-1.2				
S = 2.0H		1.4/-0.9					1.4/-0.9				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.8					-3.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm a dtw e fa

LampCAT: modulo led dtw 12W 27K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.7900

Test No:

Current(A): 0.1130

Number of Lamps: 1

Power (W): 14.1510

Lamp flux(lm): 924.0

PF: 0.9760

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 631.32, Efficiency(%): 68.32% , Luminous Efficacy(lm/W): 44.61

Central intensity(cd): 1533.506, Maximum intensity(cd): 1533.923

Angle of maximum intensity: C=0.0 γ =1.0

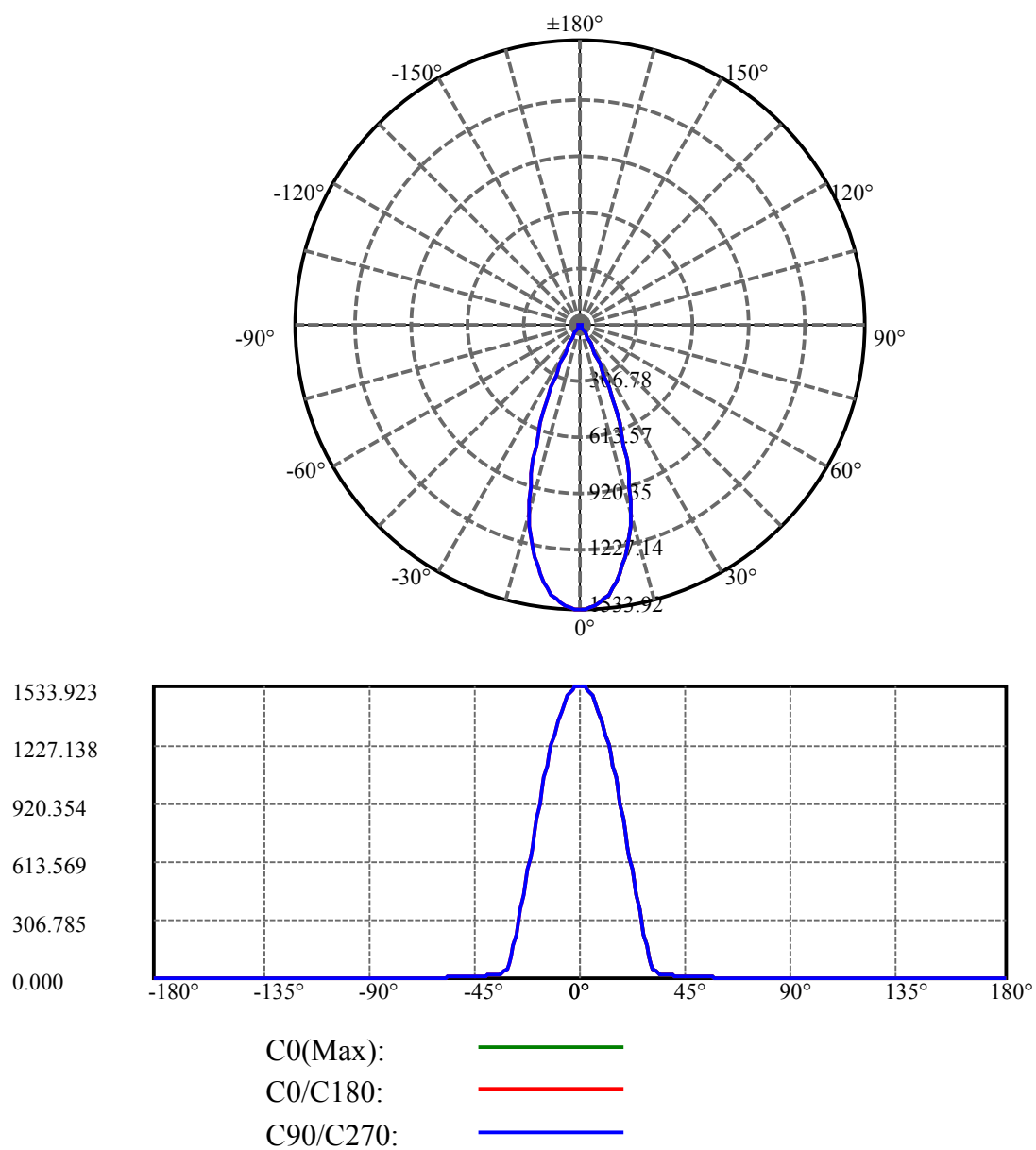
Beam angle of C0 plane : 38.01

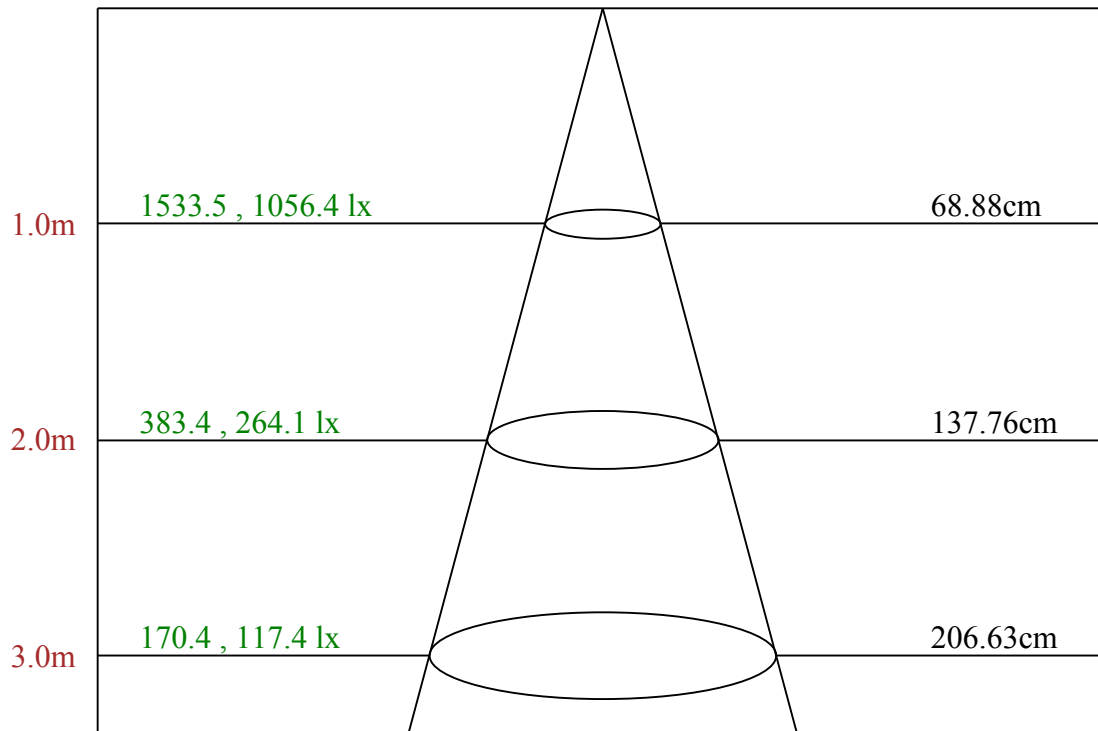
Average BeamAngle(IEC 61341): 38.01

Equipment: equipamento lumini
Temperature(°C): 25.0

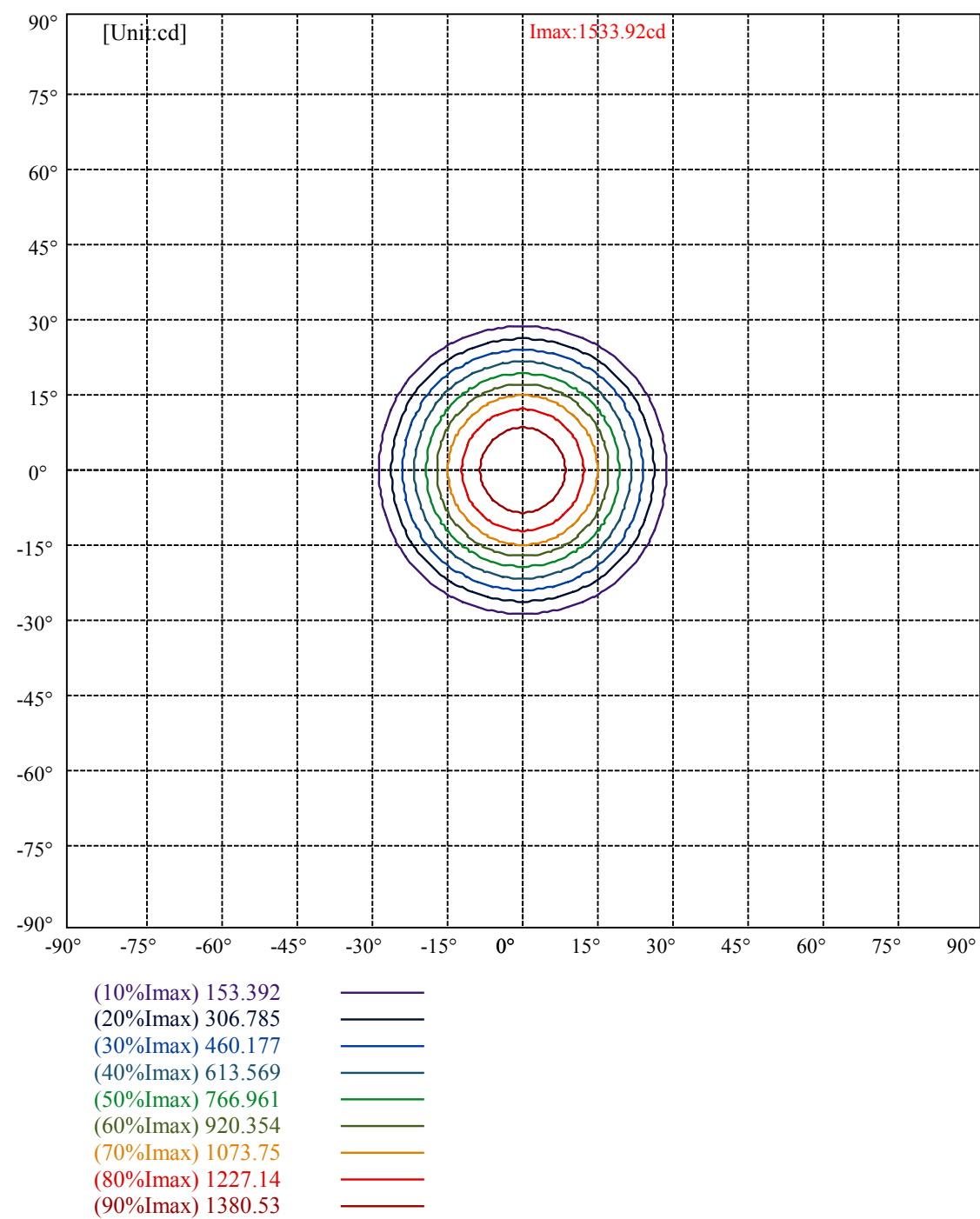
Date: 29/05/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 38.01



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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	4463	3578	3025	2758	2616	2238	2721	3841	7246
C45	4463	3578	3025	2758	2616	2238	2721	3841	7246
C90	4463	3578	3025	2758	2616	2238	2721	3841	7246

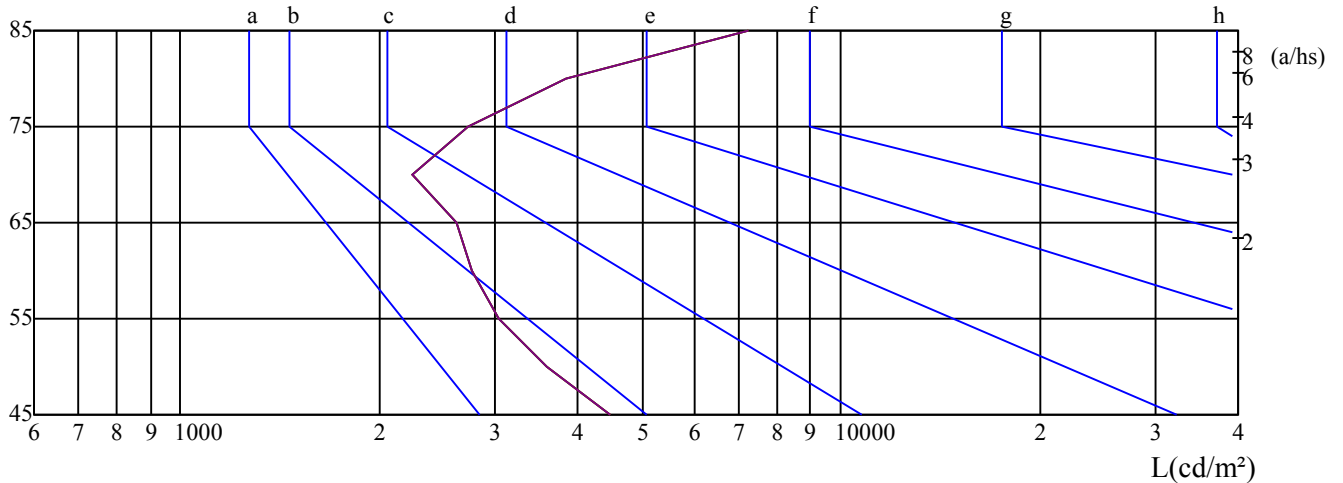
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2616	2616	2616	2721	2721	2721	7246	7246	7246

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: 29/05/2025
Humidity(%): 58.0%

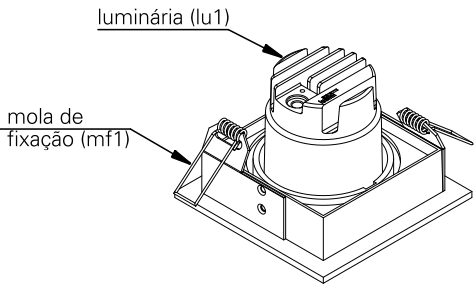
Operator: 01
Distance(m): 6.90

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	7.80	8.70	8.20	9.06	9.43	8.25	9.15	8.65	9.51	9.88
	3H	8.64	9.45	9.07	9.83	10.23	9.08	9.88	9.50	10.26	10.66
	4H	9.18	9.93	9.62	10.32	10.74	9.53	10.28	9.97	10.67	11.09
	6H	10.02	10.70	10.48	11.12	11.57	10.28	10.96	10.74	11.38	11.83
	8H	10.58	11.23	11.04	11.66	12.12	10.80	11.45	11.26	11.87	12.33
	12H	11.32	11.93	11.78	12.37	12.84	11.47	12.08	11.93	12.52	12.98
4H	2H	8.12	8.87	8.56	9.26	9.68	8.50	9.25	8.94	9.64	10.06
	3H	9.13	9.75	9.59	10.19	10.66	9.48	10.10	9.94	10.54	11.01
	4H	9.90	10.44	10.38	10.90	11.40	10.16	10.70	10.64	11.16	11.66
	6H	10.95	11.43	11.46	11.92	12.42	11.13	11.60	11.64	12.10	12.60
	8H	11.69	12.14	12.22	12.63	13.15	11.83	12.27	12.35	12.77	13.29
	12H	12.63	13.04	13.16	13.53	14.10	12.71	13.11	13.23	13.60	14.17
8H	4H	10.17	10.61	10.69	11.11	11.63	10.40	10.84	10.92	11.33	11.86
	6H	11.53	11.90	12.08	12.41	12.97	11.67	12.03	12.21	12.55	13.11
	8H	12.54	12.84	13.10	13.39	13.94	12.64	12.94	13.21	13.50	14.04
	12H	13.74	13.97	14.32	14.52	15.09	13.78	14.01	14.36	14.56	15.13
12H	4H	10.26	10.67	10.79	11.16	11.72	10.48	10.88	11.00	11.37	11.94
	6H	11.78	12.08	12.35	12.64	13.19	11.91	12.21	12.48	12.77	13.31
	8H	12.87	13.09	13.44	13.65	14.22	12.95	13.18	13.53	13.74	14.30
Variation with the observer position at spacings:											
S = 1.0H		1.2/-1.0					1.2/-1.0				
S = 1.5H		1.7/-1.1					1.7/-1.1				
S = 2.0H		2.2/-1.1					2.2/-1.1				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.5					-3.5				

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



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

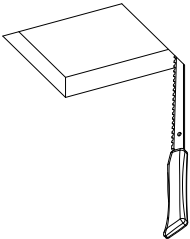
para a instalação, lave as mãos e seque as mãos, use luvas descartáveis.

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

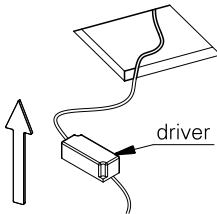
retire a luminária da embalagem com cuidado e apoie-o em uma superfície limpa e seca.

instalação passo a passo

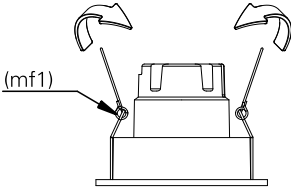
1. faça um nicho no forro conforme o modelo do produto na tabela.



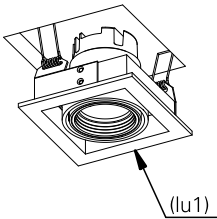
2. aloje o driver sobre o forro. faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda. obs: drivers não se aplicam para versões tr



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.

