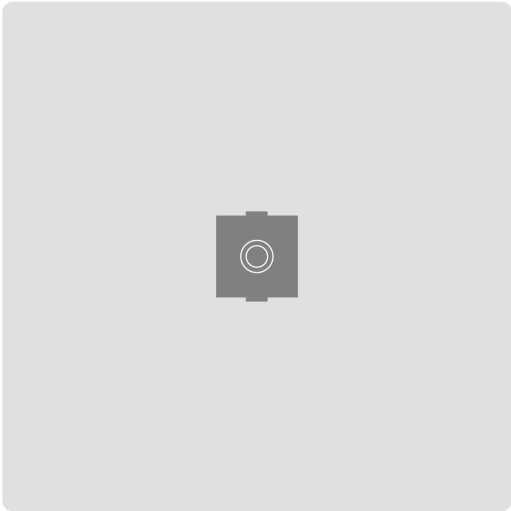




micro concentra 4 e

linha de luminárias embutidas, para tecnologia led. permite instalação em forro de gesso, alvenaria, laje, marcenaria ou trilho, com opções de fachos fixos. sua principal característica é o excelente controle antiofuscamento, eficiência luminosa e tamanhos reduzidos.

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
4	c	2700		
4	m	2700		
4	c	3000	429	116
4	m	3000	429	123

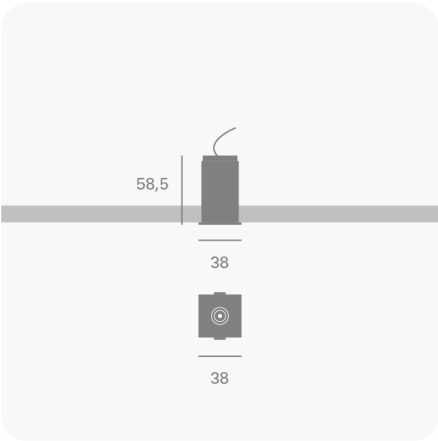
equipamentos
LED driver 700mA (incluso, ponto remoto)

controle
on/off
dim fphase
dim dali

instalação
forro de gesso
marcenaria

IP
20

dimensões



acabamentos e cores

cores

-  grafite txt
-  corten
-  preto txt
-  branco txt



cinza médio



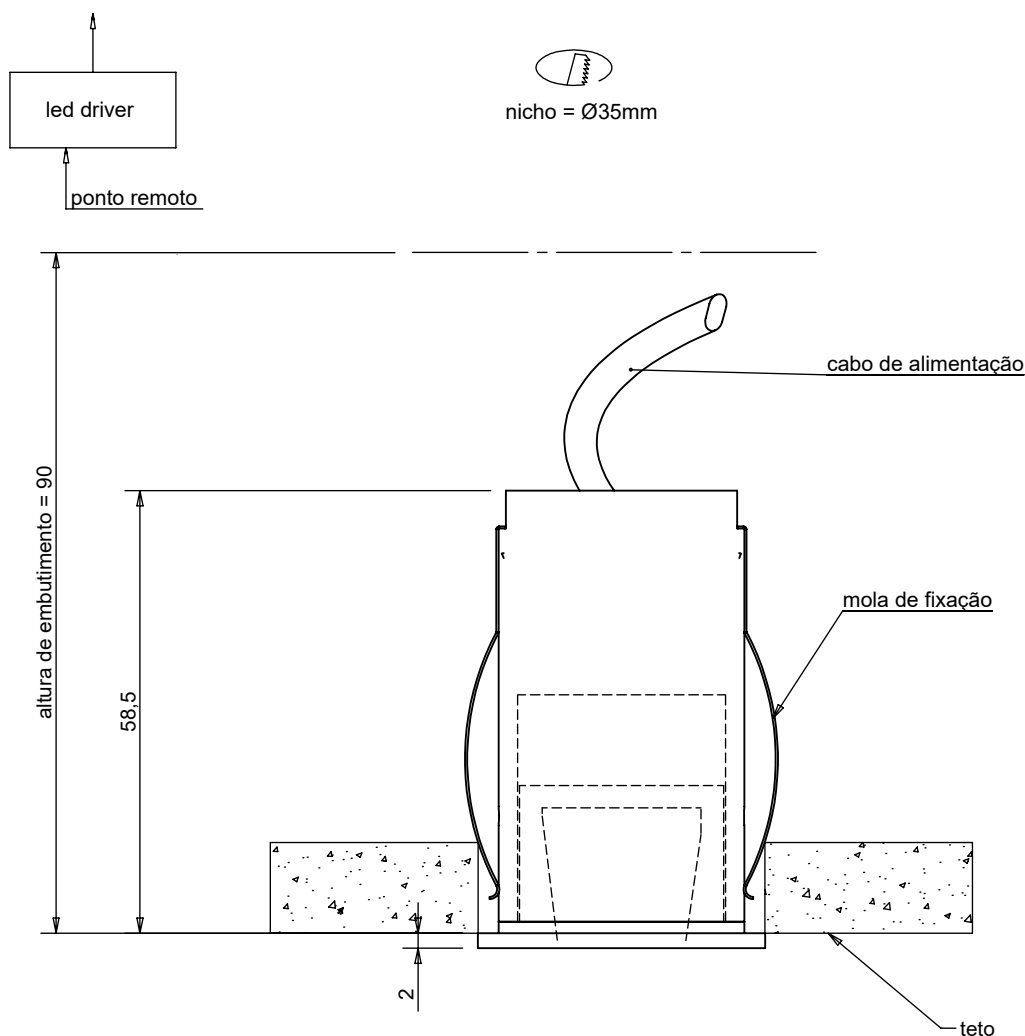
cinza areia



titânio

vista frontal

dimensões em milímetros



micro concentra 4 e

folha
1/1

escala
1:1

data
28/02/2025

desenhista
emilson

aprovação
edmilson

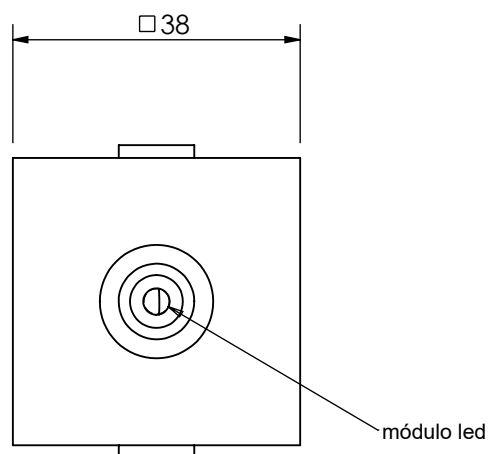
revisões

28/02/2025

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

vista inferior

dimensões em milímetros





lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email: laboratorio@lumini.com.br
Tel: +55 11 3437-5555 Fax: +55 11 3437-5555
Address: Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: micro concentra 4 e fc

LampCAT: modulo led 4W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.9100

Test No:

Current(A): 0.0830

Number of Lamps: 1

Power (W): 5.2970

Lamp flux(lm): 429.0

PF: 0.5020

Length(mm): 12

Width(mm): 12

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 116.31, Efficiency(%): 27.11% , Luminous Efficacy(lm/W): 21.96

Central intensity(cd): 511.891, Maximum intensity(cd): 511.891

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

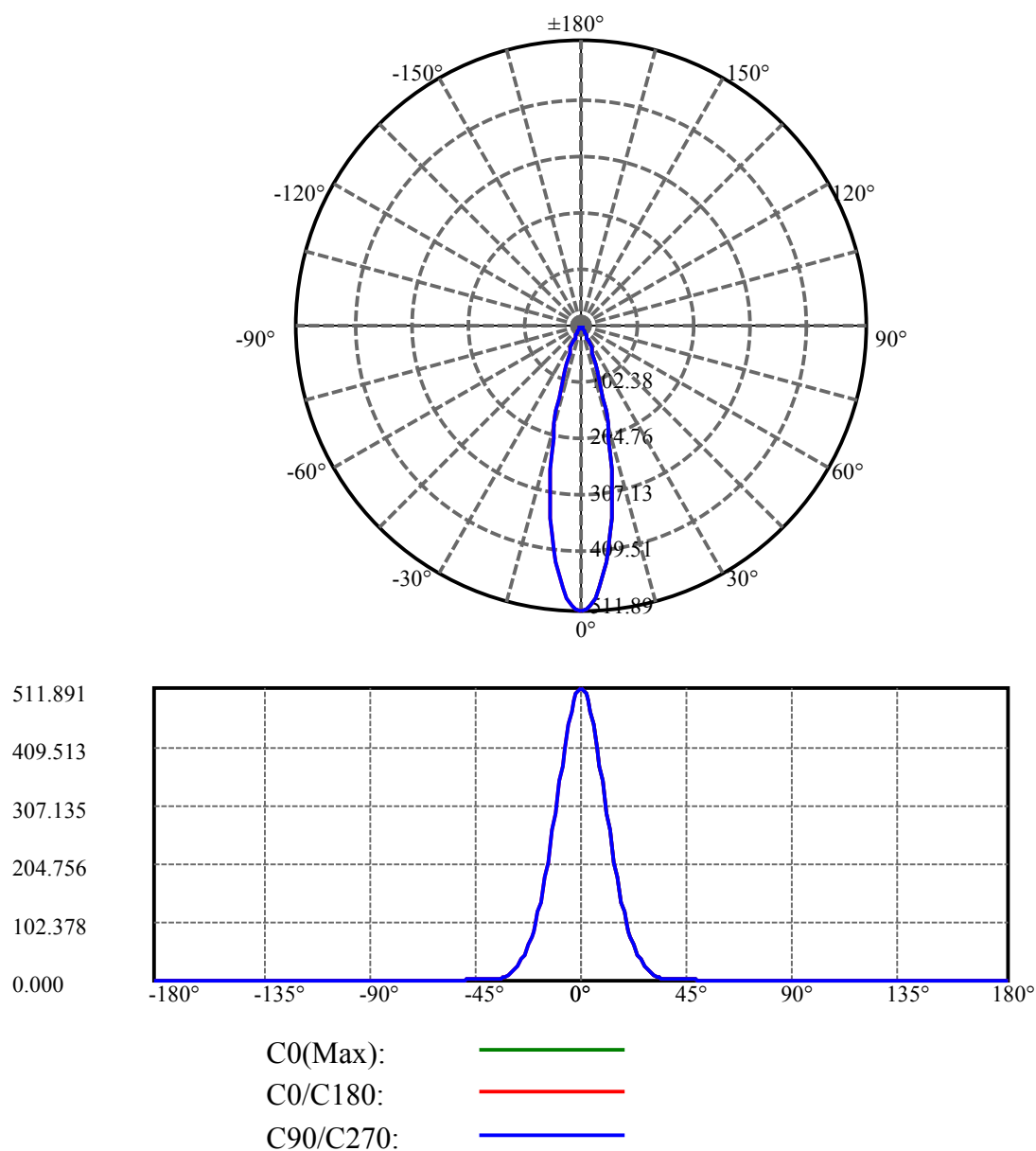
Beam angle of C0 plane : 24.54

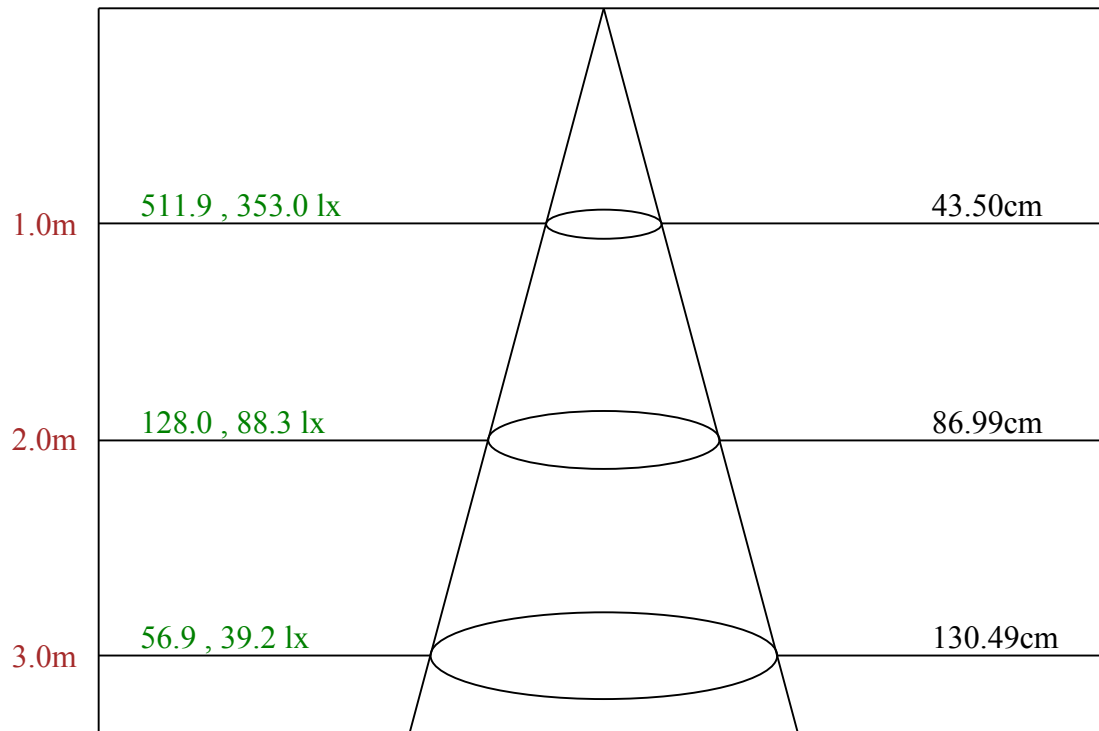
Average BeamAngle(IEC 61341): 24.54

Equipment: equipamento lumini
Temperature(°C): 25.5

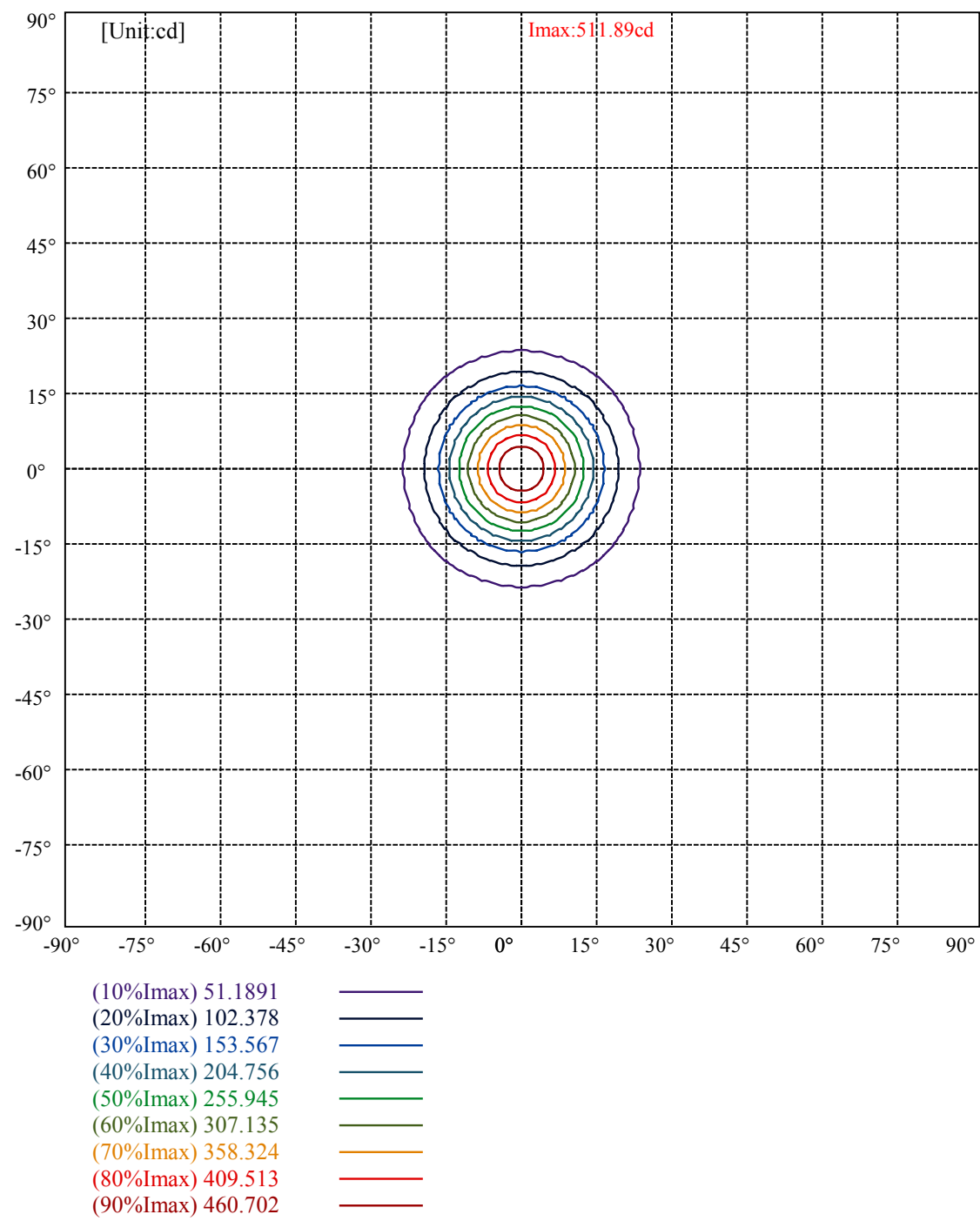
Date: 19/03/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 24.54



Luminance Table

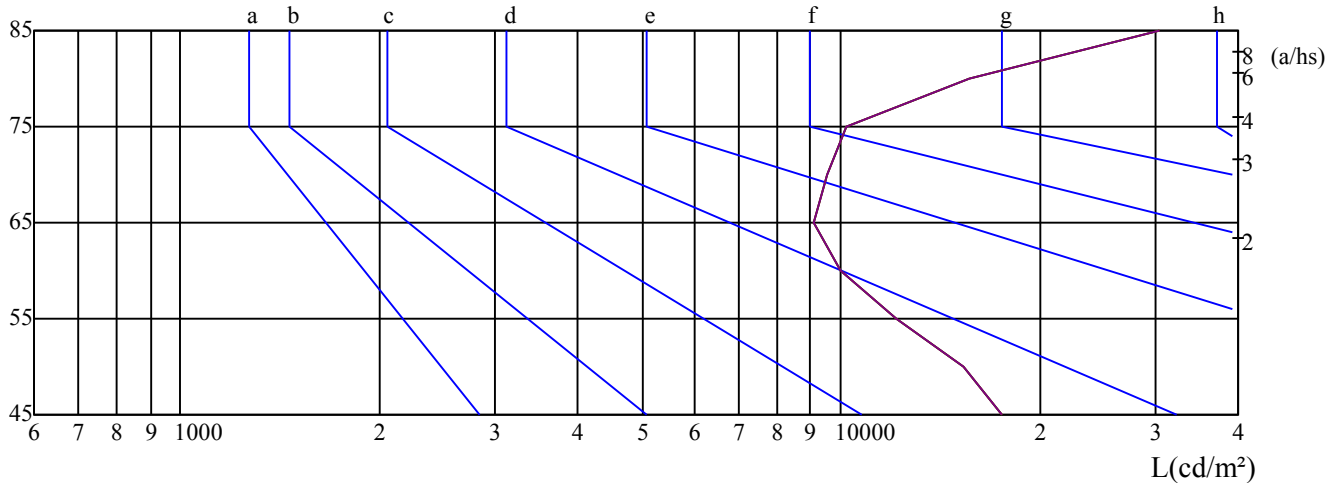
γ	45	50	55	60	65	70	75	80	85
C0	17592	15302	12177	10001	9095	9546	10220	15708	30348
C45	17592	15302	12177	10001	9095	9546	10220	15708	30348
C90	17592	15302	12177	10001	9095	9546	10220	15708	30348

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9095	9095	9095	10220	10220	10220	30348	30348	30348

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 ———

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	11.56	12.47	11.97	12.83	13.20	12.83	13.74	13.24	14.10	14.47
	3H	12.54	13.35	12.97	13.73	14.13	13.68	14.48	14.11	14.87	15.27
	4H	13.26	14.00	13.70	14.41	14.83	14.15	14.90	14.60	15.30	15.72
	6H	14.29	14.97	14.75	15.40	15.85	14.90	15.59	15.37	16.01	16.46
	8H	14.98	15.63	15.45	16.06	16.53	15.40	16.05	15.86	16.48	16.94
	12H	15.88	16.50	16.35	16.94	17.41	16.20	16.82	16.67	17.25	17.73
4H	2H	11.87	12.61	12.31	13.01	13.44	12.95	13.70	13.39	14.10	14.52
	3H	13.14	13.77	13.61	14.21	14.68	14.06	14.69	14.53	15.13	15.60
	4H	14.11	14.65	14.59	15.11	15.62	14.74	15.29	15.22	15.75	16.25
	6H	15.35	15.82	15.86	16.32	16.82	15.73	16.21	16.24	16.70	17.21
	8H	16.21	16.66	16.74	17.16	17.68	16.42	16.86	16.95	17.36	17.89
	12H	17.31	17.72	17.84	18.21	18.78	17.46	17.87	17.99	18.36	18.93
8H	4H	14.46	14.90	14.98	15.40	15.93	15.00	15.44	15.53	15.94	16.47
	6H	16.01	16.37	16.56	16.89	17.46	16.28	16.64	16.83	17.16	17.72
	8H	17.15	17.45	17.72	18.01	18.56	17.27	17.57	17.84	18.13	18.68
	12H	18.51	18.74	19.09	19.30	19.87	18.59	18.82	19.17	19.38	19.95
12H	4H	14.56	14.97	15.09	15.46	16.03	15.09	15.49	15.62	15.99	16.56
	6H	16.29	16.59	16.86	17.15	17.70	16.54	16.84	17.11	17.40	17.95
	8H	17.51	17.74	18.09	18.29	18.87	17.62	17.85	18.20	18.40	18.98
Variation with the observer position at spacings:											
S = 1.0H		1.6/-1.0					1.6/-1.0				
S = 1.5H		2.1/-1.2					2.1/-1.2				
S = 2.0H		2.7/-1.2					2.7/-1.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		1.4					1.4				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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www.lumini.com.br
Email: laboratorio@lumini.com.br
Tel: +55 11 3437-5555 Fax: +55 11 3437-5555
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LumCAT:

Luminaire: micro concentra 4 e fm

LampCAT: modulo led 4W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.9100

Test No:

Current(A): 0.0830

Number of Lamps: 1

Power (W): 5.3020

Lamp flux(lm): 429.0

PF: 0.5020

Length(mm): 12

Width(mm): 12

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 122.73, Efficiency(%): 28.61% , Luminous Efficacy(lm/W): 23.15

Central intensity(cd): 415.921, Maximum intensity(cd): 415.921

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

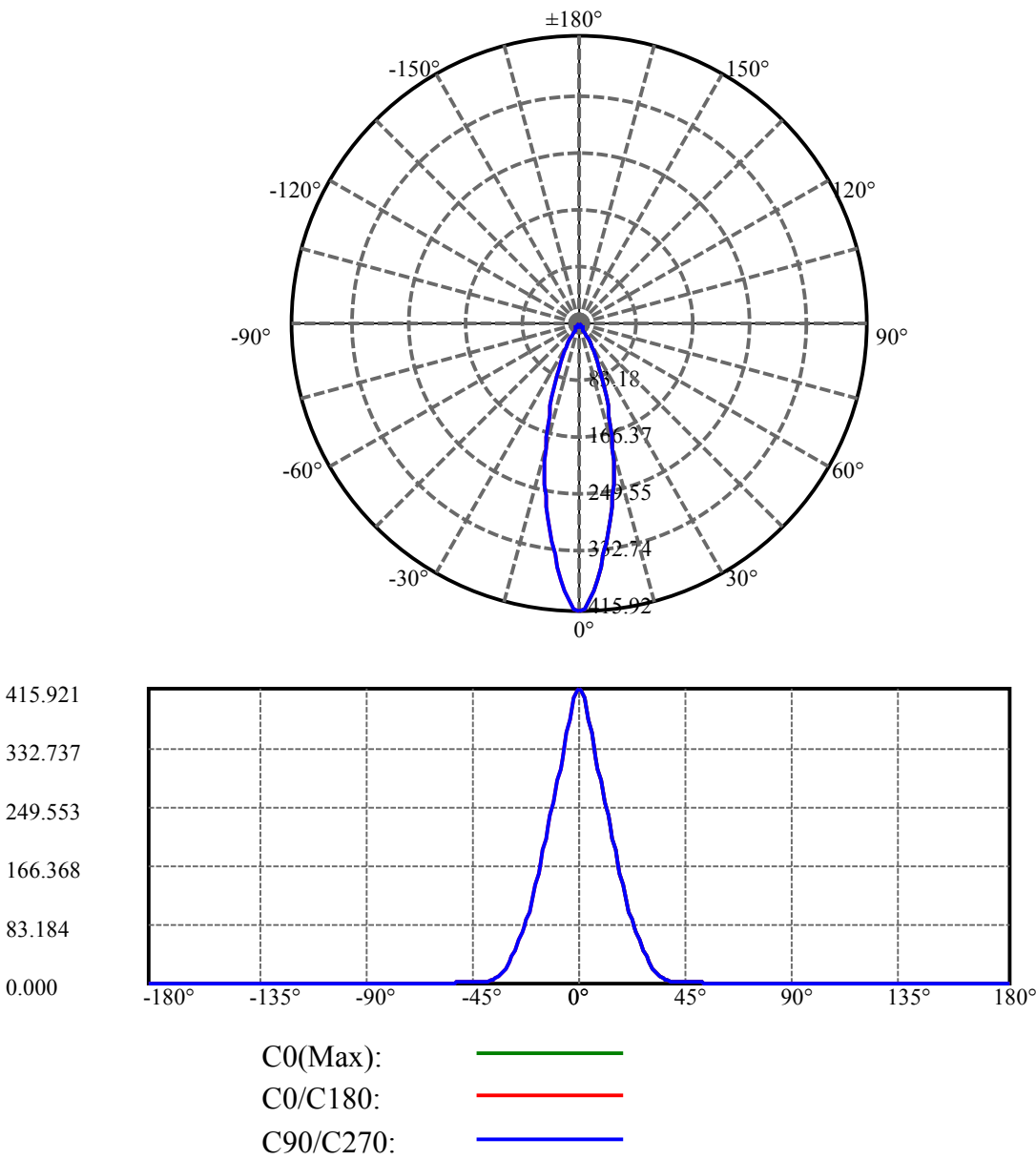
Beam angle of C0 plane : 27.62

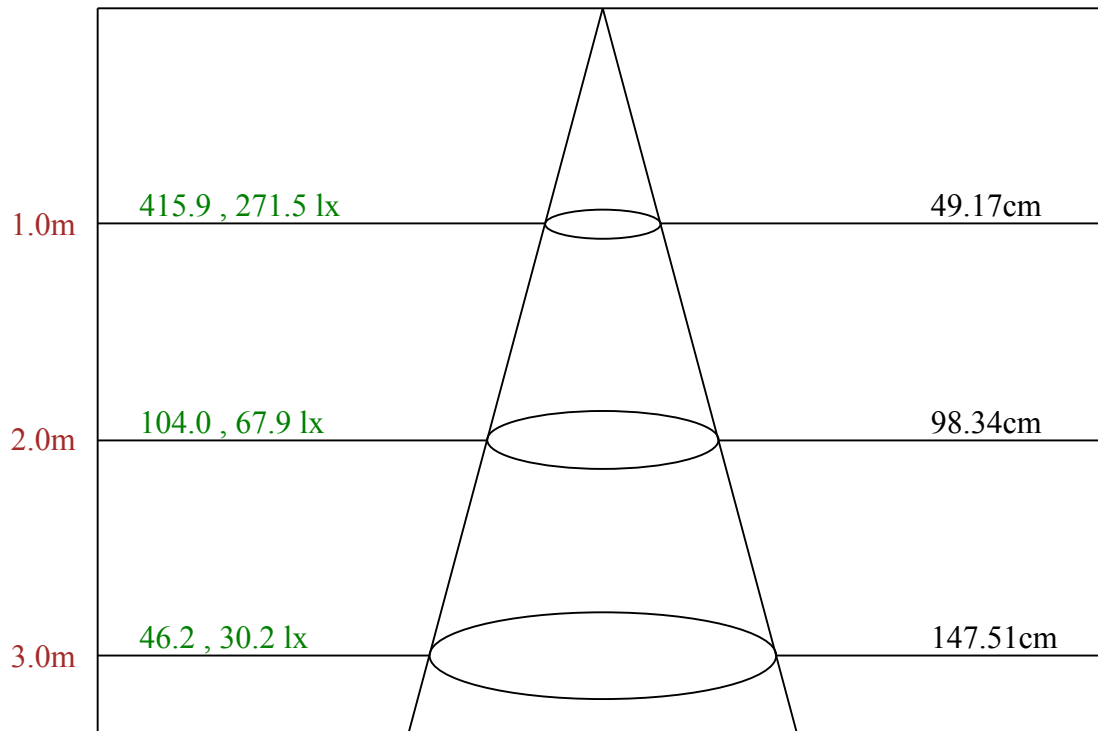
Average BeamAngle(IEC 61341): 27.62

Equipment: equipamento lumini
Temperature(°C): 25.5

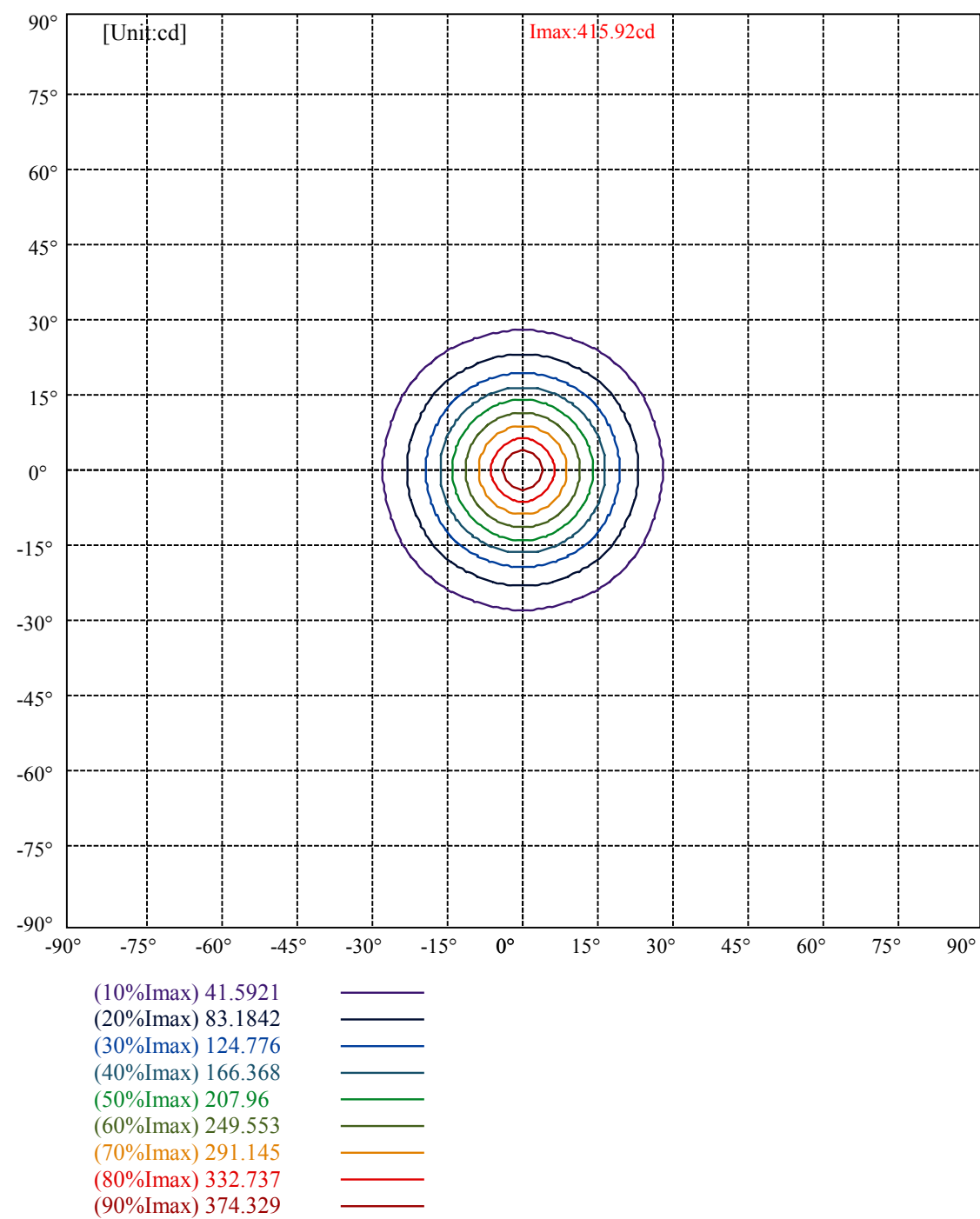
Date: 19/03/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 27.62



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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	18820	15109	12249	9836	9583	9908	10539	14756	30348
C45	18820	15109	12249	9836	9583	9908	10539	14756	30348
C90	18820	15109	12249	9836	9583	9908	10539	14756	30348

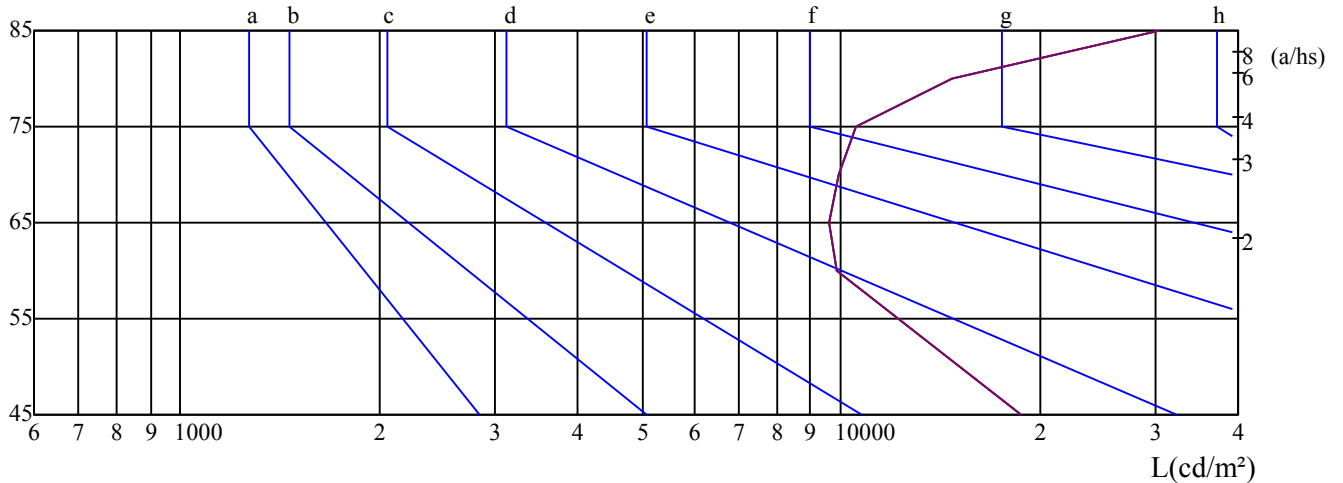
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9583	9583	9583	10539	10539	10539	30348	30348	30348

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($^{\circ}\text{C}$): 25.5

Date: 19/03/2025
Humidity(%): 55.0%

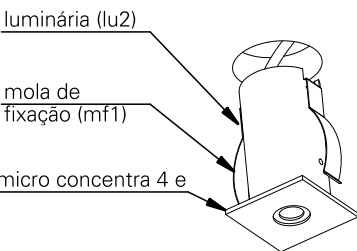
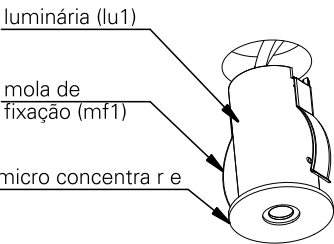
Operator: 01
Distance(m): 6.90

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	15.14	16.04	15.54	16.40	16.77	15.36	16.27	15.77	16.62	17.00
	3H	15.49	16.30	15.92	16.68	17.08	15.64	16.44	16.07	16.83	17.23
	4H	15.77	16.51	16.21	16.91	17.33	15.89	16.63	16.33	17.03	17.45
	6H	16.27	16.95	16.73	17.37	17.82	16.30	16.98	16.76	17.40	17.85
	8H	16.63	17.28	17.09	17.71	18.17	16.66	17.31	17.12	17.73	18.19
	12H	17.16	17.78	17.63	18.21	18.68	17.19	17.80	17.65	18.24	18.71
4H	2H	15.06	15.81	15.50	16.20	16.62	15.27	16.02	15.71	16.42	16.84
	3H	15.59	16.21	16.05	16.65	17.12	15.72	16.35	16.19	16.78	17.25
	4H	16.08	16.62	16.56	17.09	17.59	16.17	16.71	16.65	17.17	17.67
	6H	16.79	17.27	17.30	17.76	18.26	16.78	17.25	17.29	17.75	18.25
	8H	17.35	17.79	17.88	18.29	18.82	17.34	17.78	17.87	18.28	18.80
	12H	18.13	18.53	18.65	19.02	19.59	18.12	18.52	18.64	19.01	19.58
8H	4H	16.22	16.66	16.74	17.16	17.68	16.29	16.73	16.81	17.23	17.75
	6H	17.21	17.57	17.75	18.09	18.65	17.19	17.55	17.74	18.07	18.63
	8H	18.03	18.33	18.60	18.89	19.43	18.01	18.31	18.58	18.87	19.42
	12H	19.07	19.30	19.65	19.85	20.42	19.06	19.29	19.64	19.84	20.41
12H	4H	16.27	16.67	16.79	17.17	17.73	16.34	16.74	16.86	17.23	17.80
	6H	17.42	17.72	17.99	18.28	18.82	17.40	17.70	17.97	18.26	18.81
	8H	18.30	18.53	18.88	19.08	19.65	18.29	18.52	18.87	19.07	19.64
Variation with the observer position at spacings:											
S = 1.0H		4.0/-2.3					4.0/-2.3				
S = 1.5H		5.3/-2.1					5.3/-2.1				
S = 2.0H		6.0/-1.7					6.0/-1.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		2.3					2.3				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

micro concentra

micro concentra r e
micro concentra 4 e



atenção

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

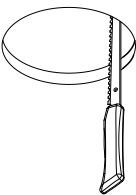
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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.

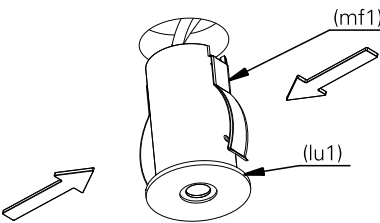
em caso de dúvidas, entre em contato com o fabricante.

instalação passo a passo

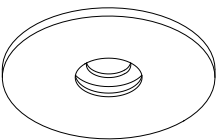
micro concentra r
1.1 faça um nicho no forro conforme o modelo do produto na tabela.
micro concentra r e - nicho = Ø35mm



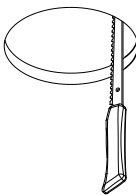
2.1 segurando as molas de fixação, encaixe a luminária (lu1) no nicho.



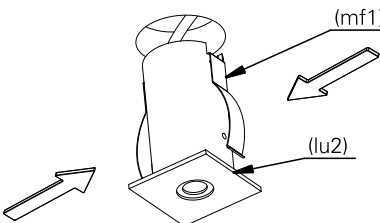
3.1 a luminária após instalada deverá ficar como ilustrado na imagem.
ligue a rede elétrica e teste o seu funcionamento.



micro concentra 4 e
1.2 faça um nicho no forro conforme o modelo do produto na tabela.
micro concentra 4 e - nicho = Ø35mm



2.2 segurando as molas de fixação, encaixe a luminária (lu2) no nicho.



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

