

mini downled r série 2 e

linha de luminárias embutidas circulares para iluminação geral. difusor de alta transmitância, dissipador em alumínio injetado, controle antiofuscamento através do próprio refletor e moldura em alumínio. fixação por meio de molas em aço inox.

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	a	2700		
4	c	3000	429	226
4	m	3000	429	262
4	a	3000	429	175

equipamentos

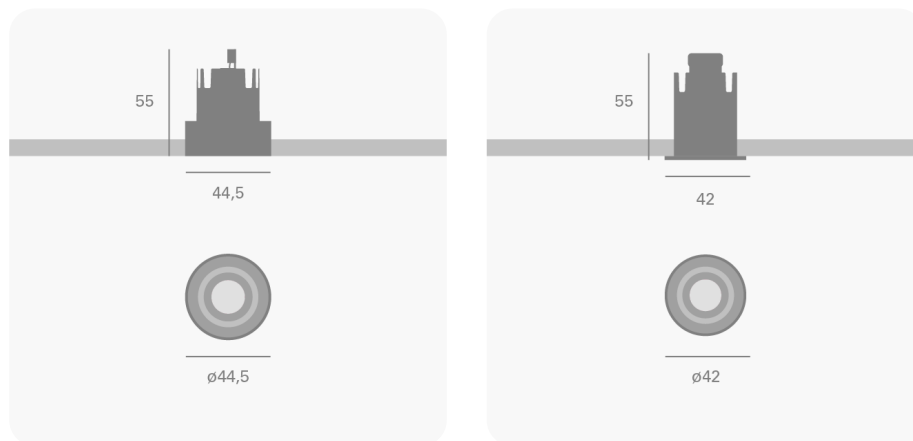
LED driver 700mA (incluso, ponto remoto)

controle
on/off
dim fphase
dim dali

instalação
forro de gesso
marcenaria

IP
20

dimensões



acabamentos e cores

cores





vista lateral

dimensões em milímetros

mini downled r

folha
1/1

escala
1:2

data
14/11/2022

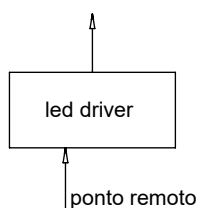
desenhista
emilson

aprovação
edmilson

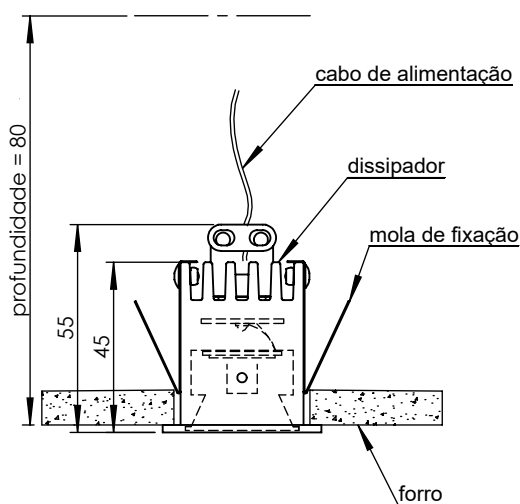
revisões
14/11/2022

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

nicho = Ø50mm
acessório - versão no frame

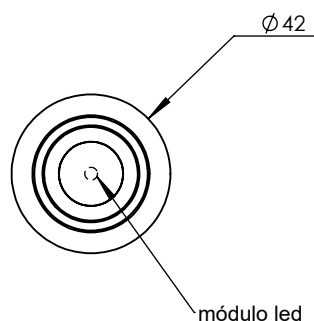
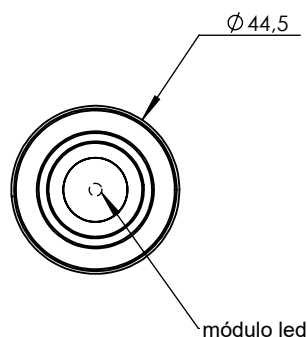


nicho = Ø36mm
versão mini frame



vista inferior

dimensões em milímetros





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LumCAT:

Luminaire: mini downled r serie 2 e fa

LampCAT: modulo led 4W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 125.0000

Test No:

Current(A): 0.0450

Number of Lamps: 1

Power (W): 5.6250

Lamp flux(lm): 429.0

PF: 0.0000

Length(mm): 26

Width(mm): 26

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 174.92, Efficiency(%): 40.77% , Luminous Efficacy(lm/W): 31.10

Central intensity(cd): 420.789, Maximum intensity(cd): 420.789

Angle of maximum intensity: C=0.0 γ =0.0

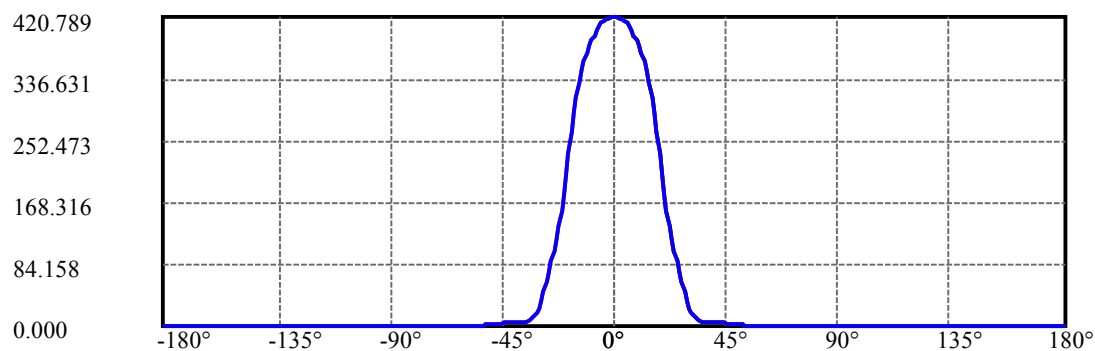
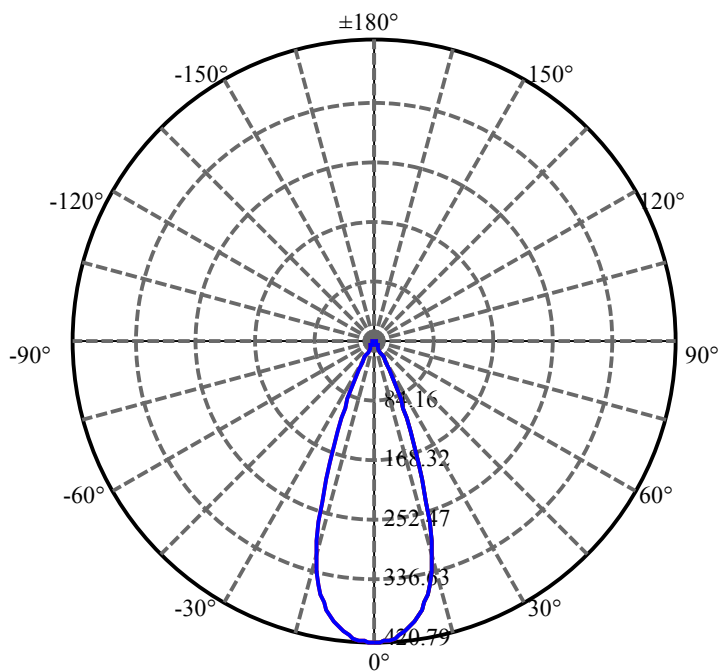
Beam angle of C0 plane : 37.68

Aveage BeamAngle(IEC 61341):37.68

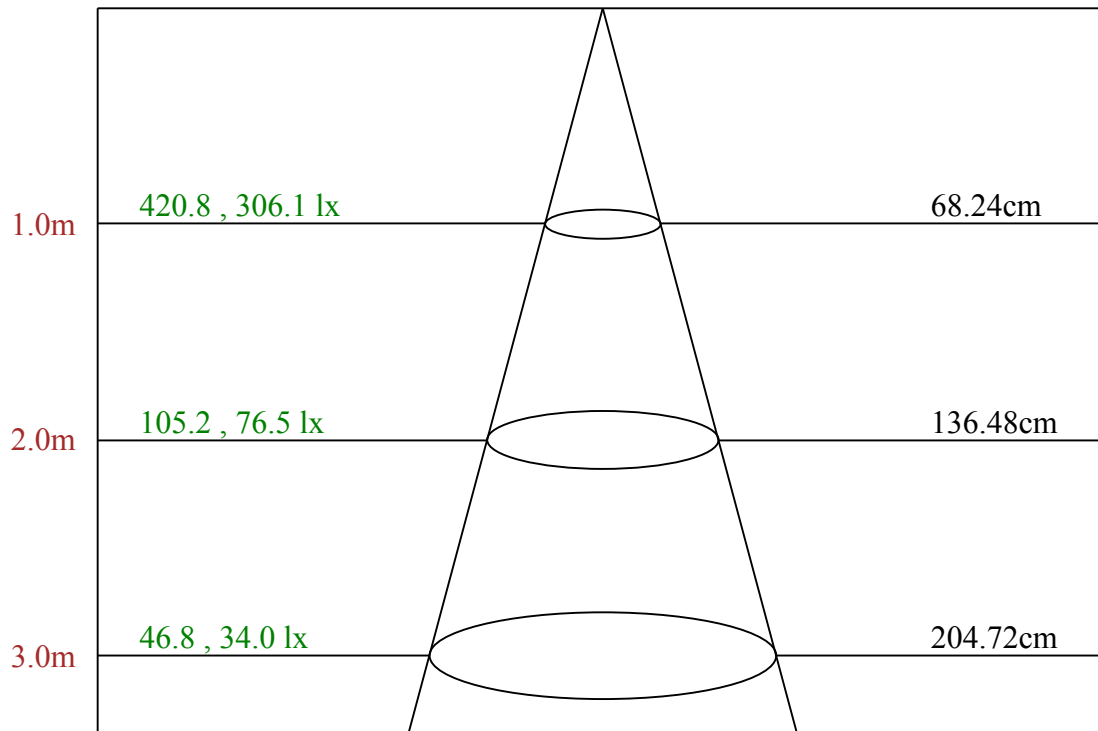
Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 29/01/2025
Humidity(%): 55.0%

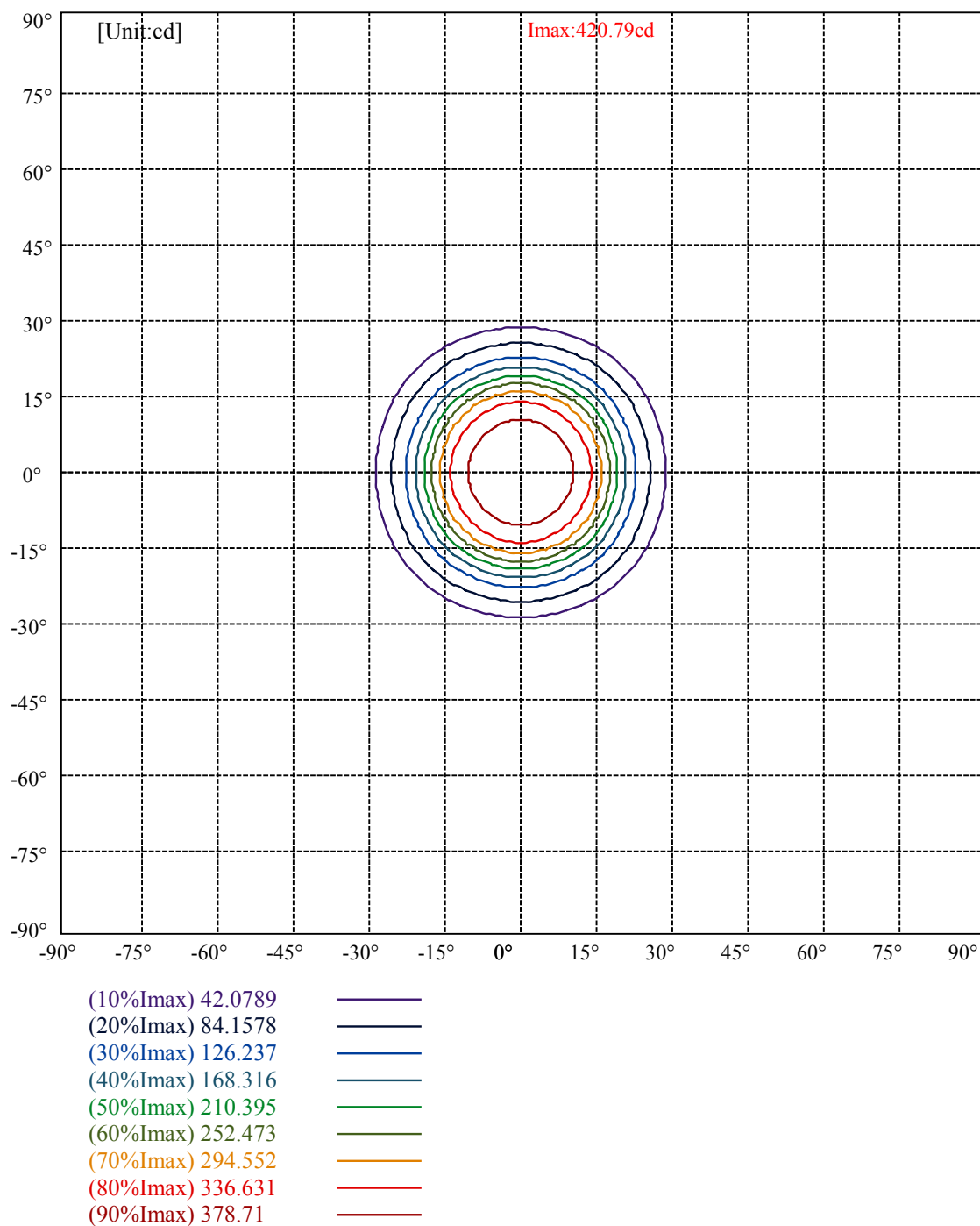
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 37.68



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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	7532	3753	2671	2571	2479	2806	3469	5171	9091
C45	7532	3753	2671	2571	2479	2806	3469	5171	9091
C90	7532	3753	2671	2571	2479	2806	3469	5171	9091

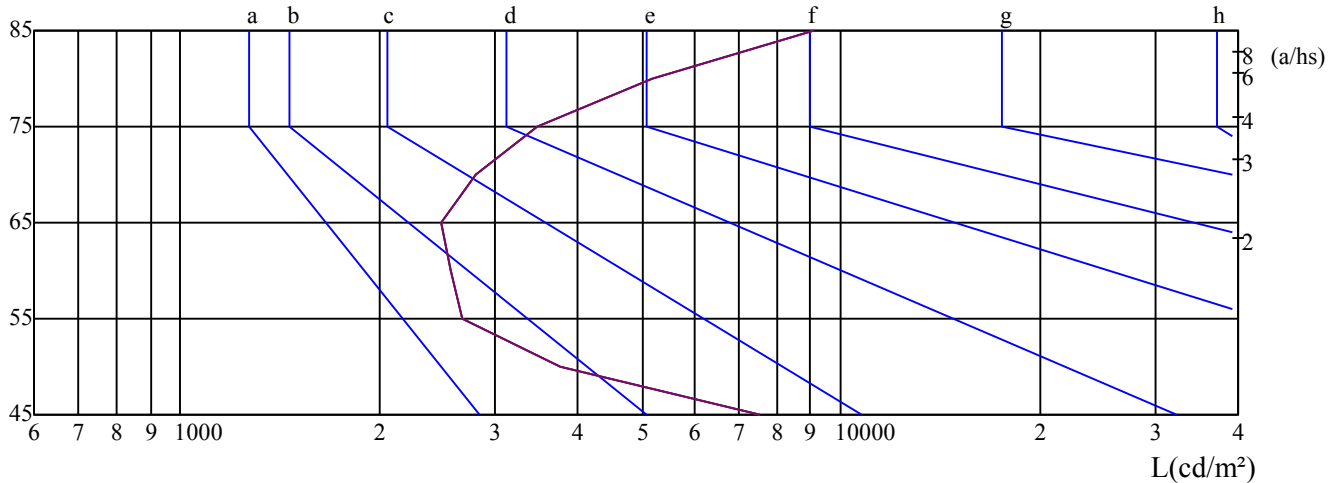
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2479	2479	2479	3469	3469	3469	9091	9091	9091

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: 29/01/2025
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	7.75	8.65	8.15	9.01	9.38	8.47	9.37	8.87	9.73	10.10
	3H	8.53	9.34	8.96	9.72	10.12	9.13	9.94	9.56	10.32	10.72
	4H	9.27	10.01	9.71	10.41	10.83	9.76	10.51	10.20	10.91	11.33
	6H	10.30	10.98	10.76	11.41	11.86	10.71	11.39	11.17	11.81	12.26
	8H	10.99	11.64	11.46	12.07	12.53	11.32	11.97	11.79	12.40	12.86
	12H	11.76	12.37	12.23	12.81	13.28	12.12	12.74	12.59	13.17	13.64
4H	2H	7.82	8.57	8.26	8.97	9.39	8.47	9.22	8.91	9.61	10.04
	3H	8.92	9.54	9.38	9.98	10.45	9.41	10.04	9.88	10.48	10.94
	4H	9.96	10.50	10.44	10.97	11.47	10.35	10.89	10.83	11.35	11.85
	6H	11.28	11.76	11.79	12.25	12.75	11.58	12.05	12.09	12.55	13.05
	8H	12.16	12.61	12.69	13.10	13.63	12.39	12.83	12.92	13.33	13.86
	12H	13.12	13.53	13.65	14.02	14.59	13.41	13.81	13.93	14.31	14.87
8H	4H	10.35	10.79	10.87	11.29	11.81	10.68	11.12	11.20	11.62	12.14
	6H	11.99	12.35	12.53	12.87	13.43	12.22	12.58	12.76	13.10	13.66
	8H	13.13	13.43	13.70	13.99	14.53	13.30	13.60	13.87	14.16	14.71
	12H	14.32	14.54	14.89	15.10	15.67	14.55	14.78	15.13	15.34	15.91
12H	4H	10.48	10.88	11.00	11.37	11.94	10.79	11.20	11.32	11.69	12.26
	6H	12.28	12.58	12.85	13.14	13.69	12.49	12.79	13.06	13.35	13.90
	8H	13.47	13.70	14.05	14.26	14.83	13.63	13.86	14.21	14.41	14.99
Variation with the observer position at spacings:											
S = 1.0H		1.9/-1.7					1.9/-1.7				
S = 1.5H		2.5/-1.6					2.5/-1.6				
S = 2.0H		3.0/-1.3					3.0/-1.3				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-2.8					-2.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: mini downled r serie 2 e fc

LampCAT: modulo led 4W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 125.0000

Test No:

Current(A): 0.0450

Number of Lamps: 1

Power (W): 5.6250

Lamp flux(lm): 429.0

PF: 0.0000

Length(mm): 26

Width(mm): 26

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 226.44, Efficiency(%): 52.78% , Luminous Efficacy(lm/W): 40.26

Central intensity(cd): 1625.525, Maximum intensity(cd): 1631.250

Angle of maximum intensity: C=0.0 γ =1.0

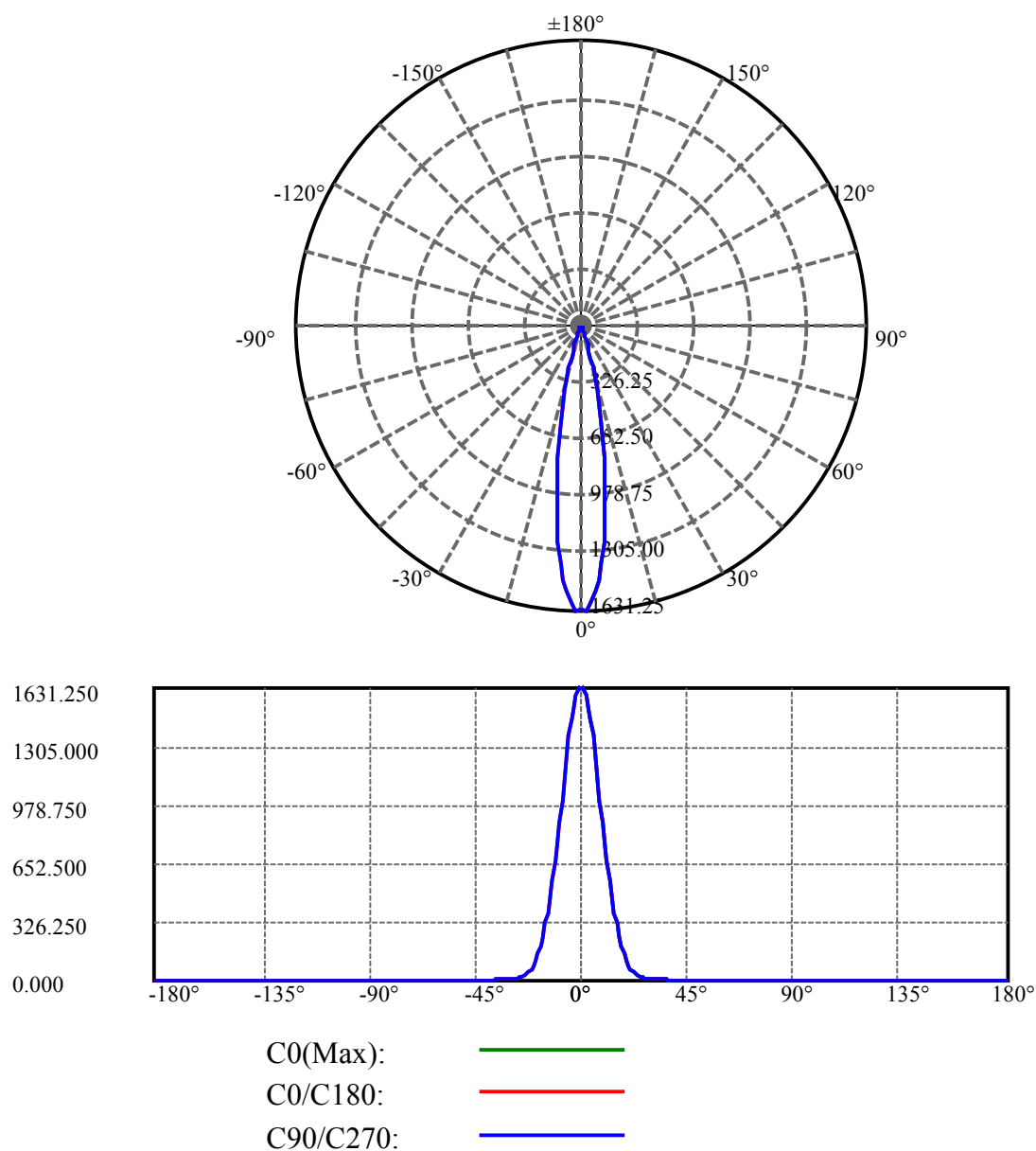
Beam angle of C0 plane : 19.25

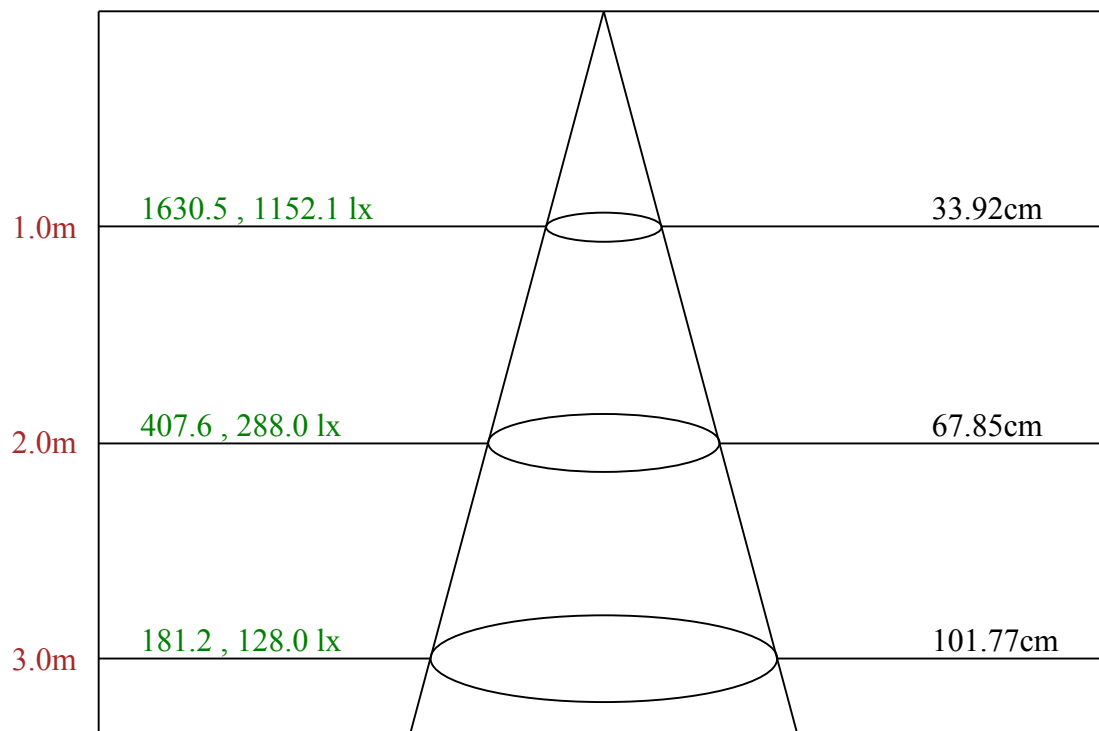
Average BeamAngle(IEC 61341): 19.25

Equipment: equipamento lumini
Temperature(°C): 25.5

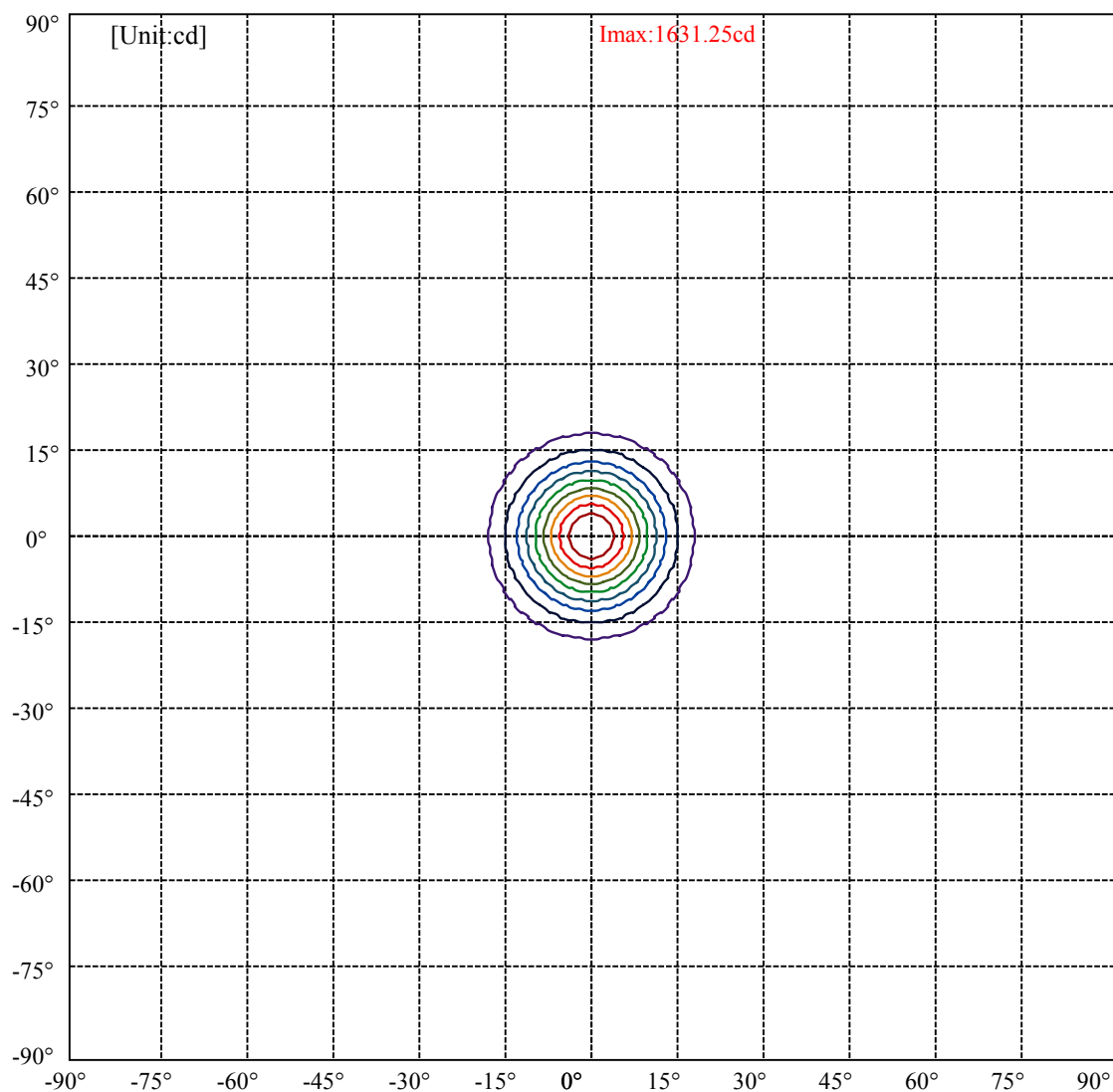
Date: 29/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 19.25



(10%Imax) 163.125	—
(20%Imax) 326.25	—
(30%Imax) 489.375	—
(40%Imax) 652.5	—
(50%Imax) 815.625	—
(60%Imax) 978.75	—
(70%Imax) 1141.87	—
(80%Imax) 1305	—
(90%Imax) 1468.12	—

Luminance Table

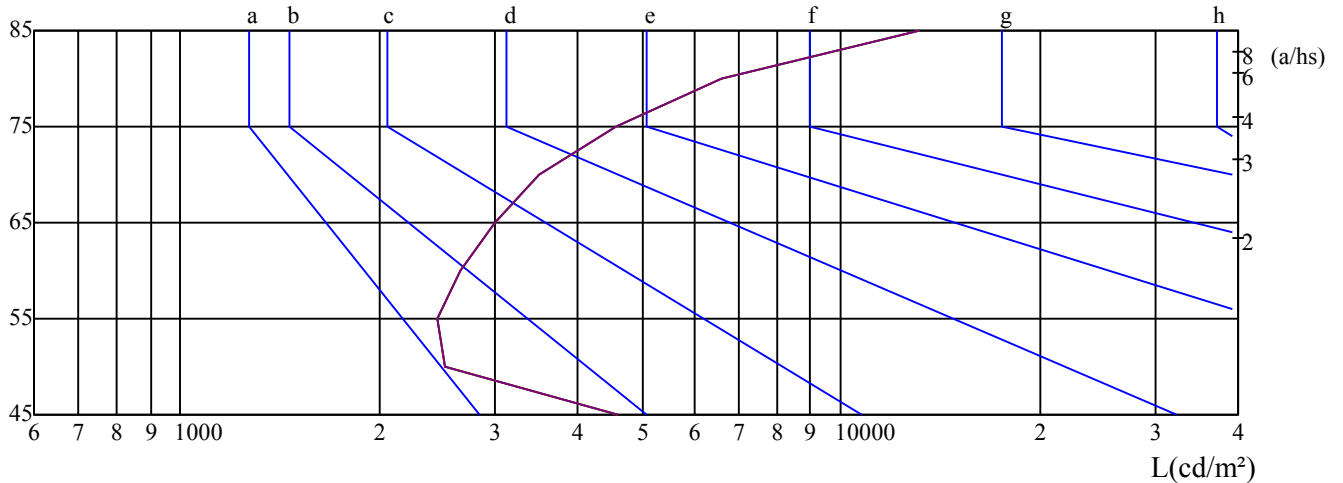
γ	45	50	55	60	65	70	75	80	85
C0	4582	2520	2456	2659	3000	3501	4558	6591	13131
C45	4582	2520	2456	2659	3000	3501	4558	6591	13131
C90	4582	2520	2456	2659	3000	3501	4558	6591	13131

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3000	3000	3000	4558	4558	4558	13131	13131	13131

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	6.62	7.51	7.03	7.87	8.25	7.09	7.98	7.50	8.34	8.72
	3H	8.15	8.94	8.58	9.33	9.74	8.35	9.14	8.78	9.53	9.93
	4H	9.31	10.04	9.76	10.45	10.87	9.33	10.06	9.77	10.46	10.89
	6H	10.91	11.58	11.37	12.01	12.46	10.66	11.33	11.12	11.76	12.21
	8H	11.81	12.45	12.28	12.88	13.35	11.52	12.16	11.98	12.59	13.06
	12H	13.00	13.61	13.47	14.05	14.52	12.58	13.18	13.05	13.62	14.10
4H	2H	6.92	7.66	7.37	8.06	8.49	7.31	8.05	7.76	8.45	8.88
	3H	8.79	9.41	9.26	9.85	10.32	8.91	9.53	9.38	9.97	10.45
	4H	10.27	10.81	10.75	11.27	11.78	10.22	10.75	10.70	11.22	11.73
	6H	12.10	12.57	12.62	13.07	13.58	11.81	12.28	12.32	12.78	13.28
	8H	13.17	13.61	13.70	14.11	14.64	12.85	13.29	13.38	13.79	14.32
	12H	14.55	14.95	15.08	15.44	16.02	14.10	14.50	14.63	15.00	15.57
8H	4H	10.77	11.21	11.30	11.71	12.24	10.72	11.16	11.25	11.66	12.19
	6H	12.89	13.25	13.44	13.77	14.33	12.63	12.98	13.17	13.50	14.07
	8H	14.23	14.53	14.81	15.09	15.64	13.95	14.24	14.52	14.81	15.36
	12H	15.84	16.07	16.43	16.63	17.20	15.44	15.66	16.02	16.22	16.79
12H	4H	10.92	11.32	11.45	11.82	12.39	10.89	11.29	11.42	11.79	12.36
	6H	13.20	13.50	13.78	14.06	14.61	12.97	13.27	13.54	13.83	14.38
	8H	14.64	14.86	15.22	15.42	16.00	14.39	14.61	14.97	15.17	15.74
Variation with the observer position at spacings:											
S = 1.0H		0.9/-1.2					0.9/-1.2				
S = 1.5H		0.9/-1.3					0.9/-1.3				
S = 2.0H		1.0/-1.2					1.0/-1.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.5					-3.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: mini downled r serie 2 e fm

LampCAT: modulo led 4W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 125.0000

Test No:

Current(A): 0.0450

Number of Lamps: 1

Power (W): 5.6250

Lamp flux(lm): 429.0

PF: 0.0000

Length(mm): 26

Width(mm): 26

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 262.38, Efficiency(%): 61.16% , Luminous Efficacy(lm/W): 46.65

Central intensity(cd): 977.802, Maximum intensity(cd): 977.802

Angle of maximum intensity: C=0.0 γ =0.0

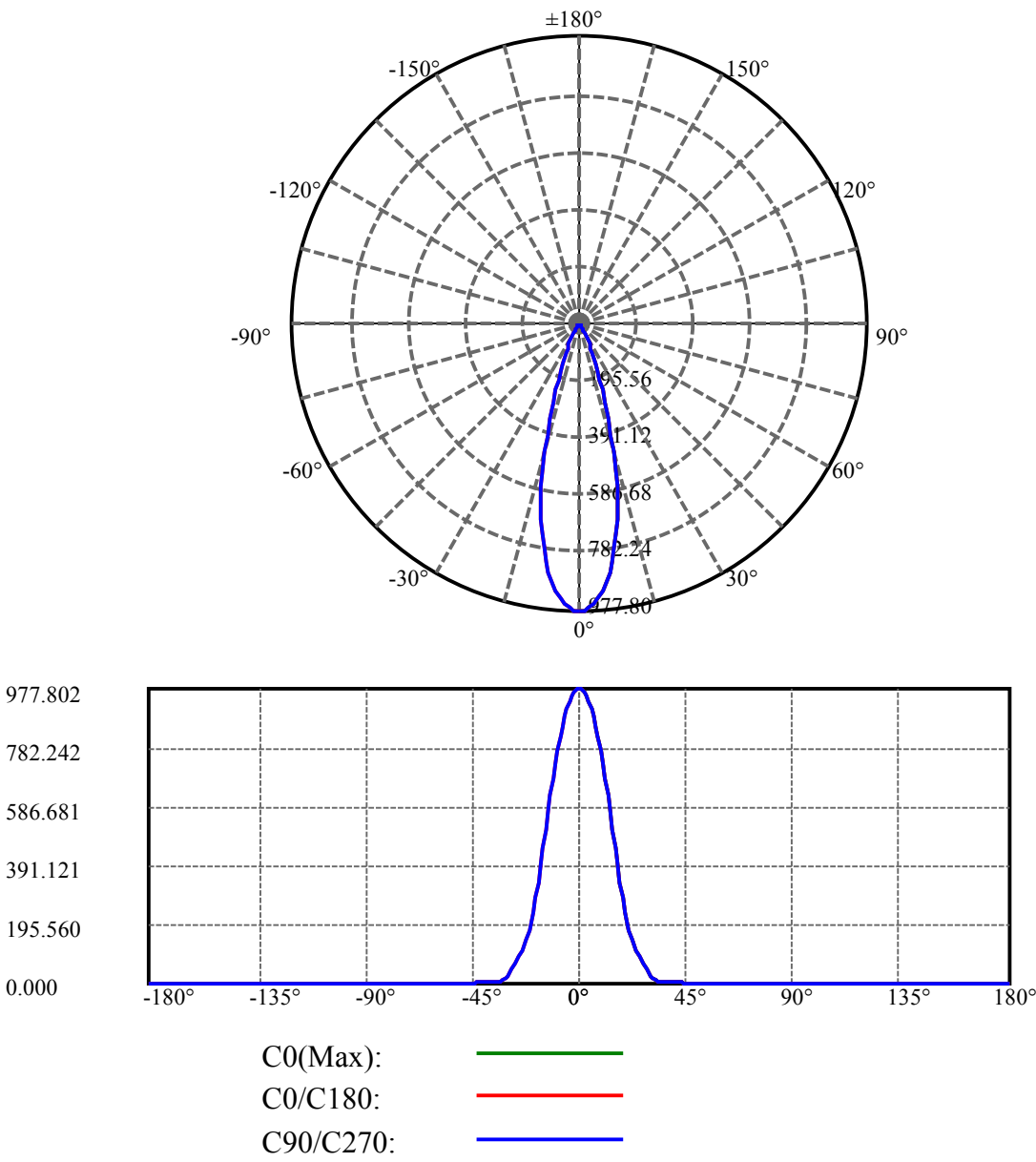
Beam angle of C0 plane : 28.77

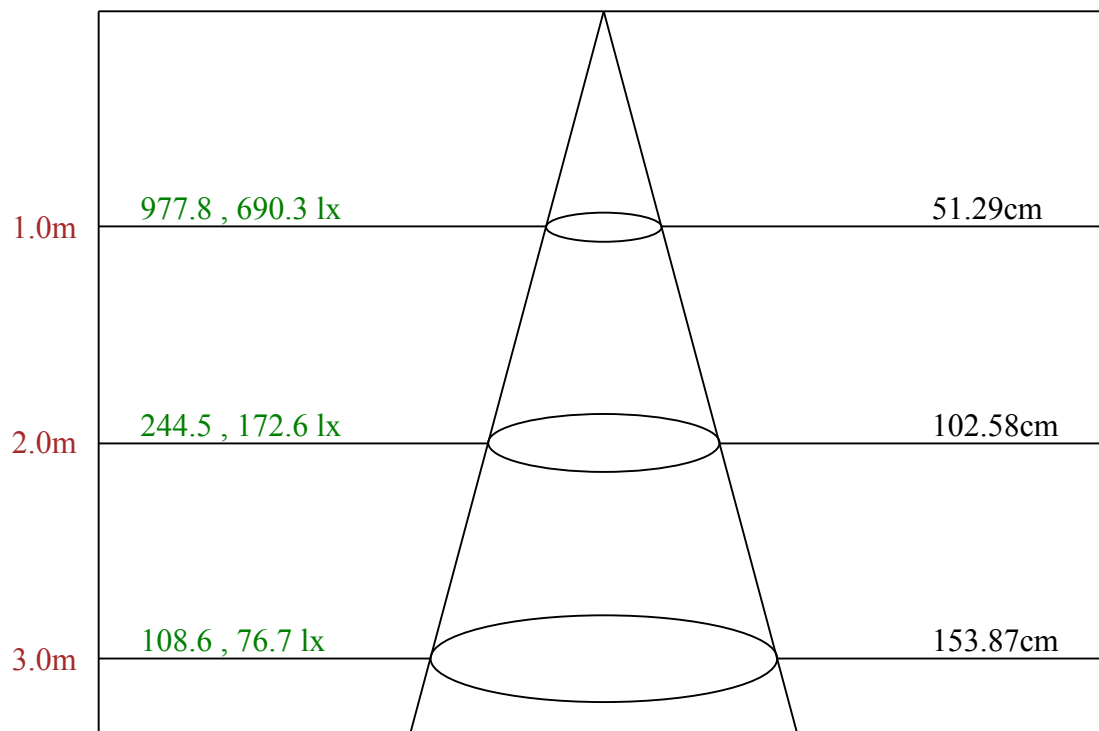
Aveage BeamAngle(IEC 61341):28.77

Equipment: equipamento lumini
Temperature(°C): 25.5

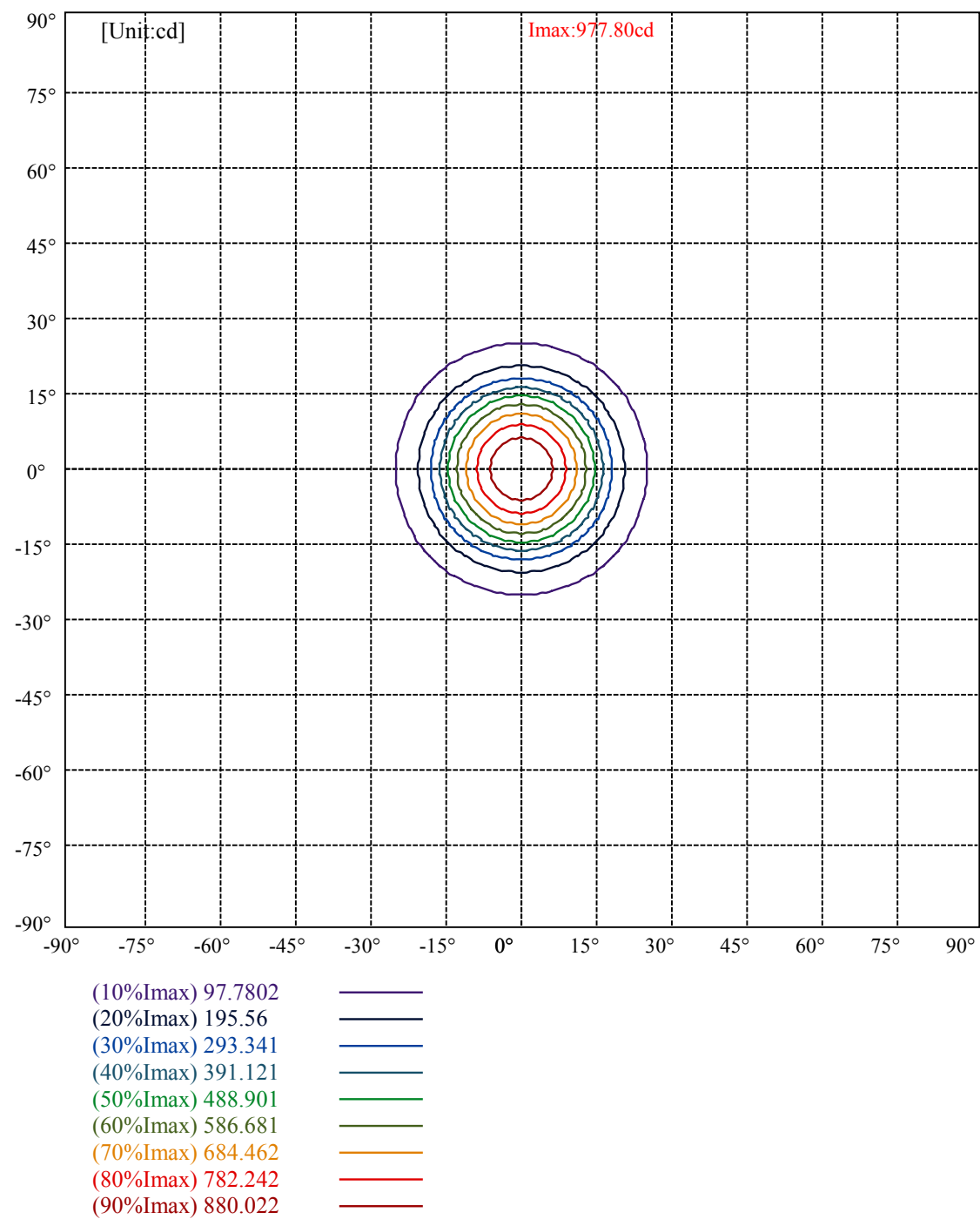
Date: 29/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 28.77



Luminance Table

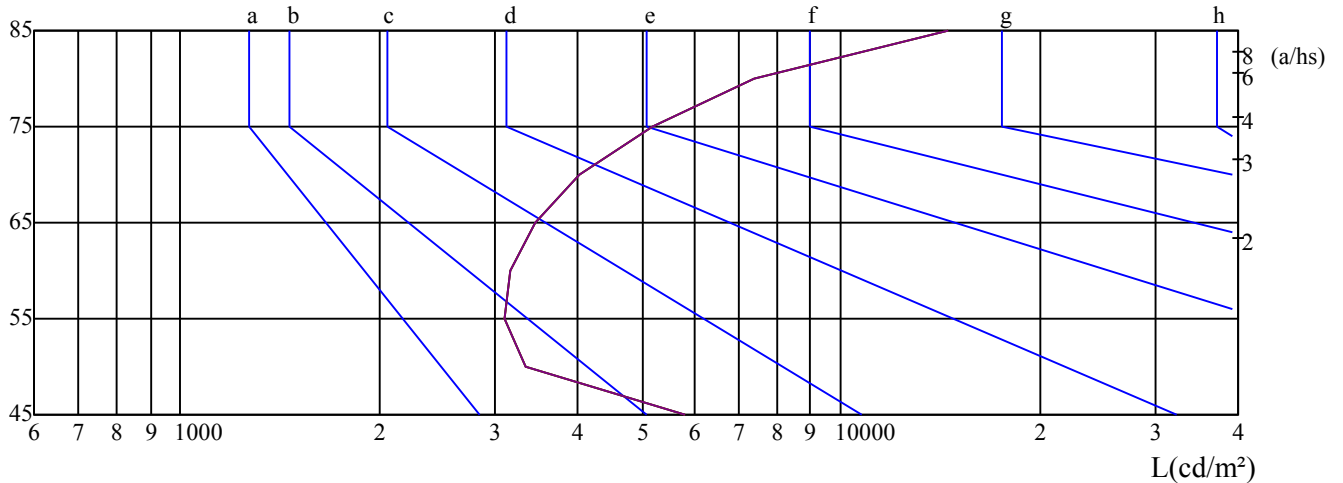
γ	45	50	55	60	65	70	75	80	85
C0	5827	3342	3100	3152	3458	4015	5170	7402	14545
C45	5827	3342	3100	3152	3458	4015	5170	7402	14545
C90	5827	3342	3100	3152	3458	4015	5170	7402	14545

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3458	3458	3458	5170	5170	5170	14545	14545	14545

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 ———

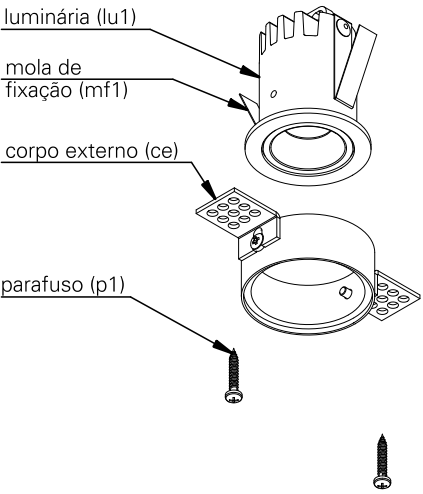
C90 ———

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	6.25	7.14	6.66	7.50	7.88	6.95	7.85	7.36	8.20	8.58
	3H	8.04	8.83	8.47	9.22	9.62	8.45	9.25	8.88	9.63	10.03
	4H	9.20	9.93	9.64	10.33	10.76	9.51	10.25	9.95	10.65	11.07
	6H	10.72	11.39	11.18	11.82	12.27	10.99	11.66	11.45	12.09	12.54
	8H	11.64	12.28	12.11	12.71	13.17	11.88	12.52	12.34	12.95	13.41
	12H	12.75	13.35	13.22	13.79	14.27	12.96	13.56	13.43	14.00	14.48
4H	2H	6.71	7.44	7.15	7.84	8.27	7.28	8.01	7.72	8.41	8.84
	3H	8.82	9.44	9.29	9.88	10.35	9.12	9.74	9.59	10.18	10.65
	4H	10.28	10.81	10.76	11.28	11.78	10.49	11.03	10.97	11.49	12.00
	6H	12.01	12.48	12.52	12.97	13.48	12.21	12.68	12.73	13.18	13.68
	8H	13.08	13.52	13.61	14.02	14.54	13.26	13.69	13.78	14.19	14.72
	12H	14.35	14.75	14.88	15.25	15.82	14.51	14.92	15.04	15.41	15.98
8H	4H	10.85	11.28	11.37	11.78	12.31	11.02	11.45	11.54	11.95	12.48
	6H	12.88	13.24	13.43	13.76	14.32	13.05	13.40	13.59	13.92	14.49
	8H	14.21	14.50	14.78	15.06	15.61	14.34	14.64	14.91	15.20	15.75
	12H	15.70	15.93	16.28	16.48	17.06	15.83	16.06	16.41	16.61	17.19
12H	4H	11.03	11.43	11.56	11.92	12.49	11.18	11.58	11.71	12.08	12.65
	6H	13.23	13.53	13.80	14.09	14.63	13.38	13.67	13.95	14.24	14.78
	8H	14.63	14.85	15.21	15.41	15.98	14.75	14.97	15.33	15.53	16.10
Variation with the observer position at spacings:											
S = 1.0H		1.3/-1.1					1.3/-1.1				
S = 1.5H		1.4/-1.2					1.4/-1.2				
S = 2.0H		1.5/-1.2					1.5/-1.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.0					-3.0				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

downled

mini downled r série 2 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.

especificações técnicas

fonte de luz
módulo led integrado (incluso)

índice de proteção
IP20 - luminária para uso interno

peso

mini downled r série 2 e - versão mini frame - 0,1 kg
mini downled r série 2 e - versão no frame - 0,2 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
1 moldura
2 parafusos atarrachantes

ferramentas necessárias

chave philips

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.

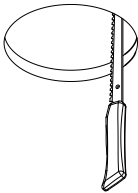
retire a luminária da embalagem com cuidado e apoie-o em uma superfície limpa e seca.

instalação passo a passo

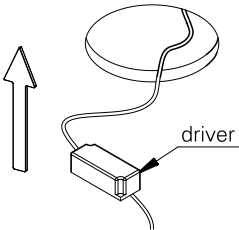
1.1 faça um nicho no forro conforme o modelo do produto na tabela.

mini downled r série 2 e - versão no frame
nicho = Ø50mm

mini downled r série 2 e - versão mini frame
nicho = Ø36mm

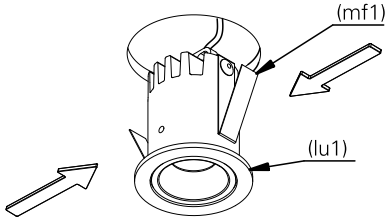


2.1 aloje o driver sobre o forro. faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.



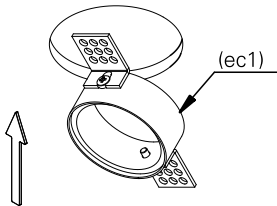
versão mini frame

3.1 segurando as molas de fixação (mf1), encaixe a luminária (lu1) no nicho.

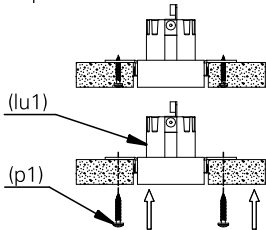


acessório - versão no frame

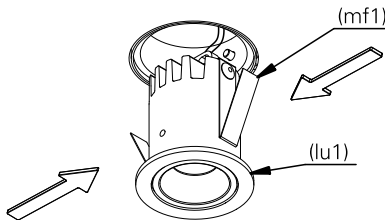
1.2 passe a corpo externo (m1) pelo nicho conforme a imagem faceando com o gesso.



2.2 utilize os parafusos (p1) para fixar a luminária (lu1) e de o acabamento no forro com gesso, não deixando o parafuso aparente. espere a secagem do gesso para prosseguir a próxima etapa.



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



a luminária após instalada deverá ficar como ilustrado na imagem.

ligue a rede elétrica e teste o seu funcionamento.

