

downled sm r cob 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
12,5	c	2700		
12,5	m	2700		
12,5	a	2700		
12,5	c	3000	1520	1304
12,5	m	3000	1520	1250
12,5	a	3000	1520	1220

equipamentos

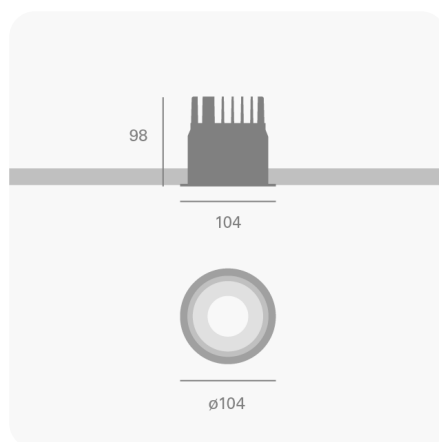
LED driver 700mA (incluso, ponto remoto)

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

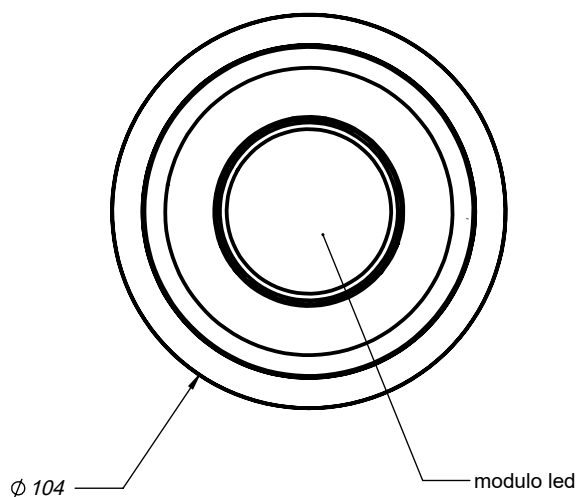
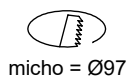
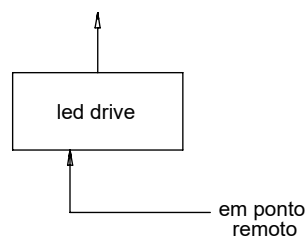


cinza areia



vista inferior

dimensões em milímetros



downled sm r s2 e

folha
1/1

escala
1:5

data
17/12/2024

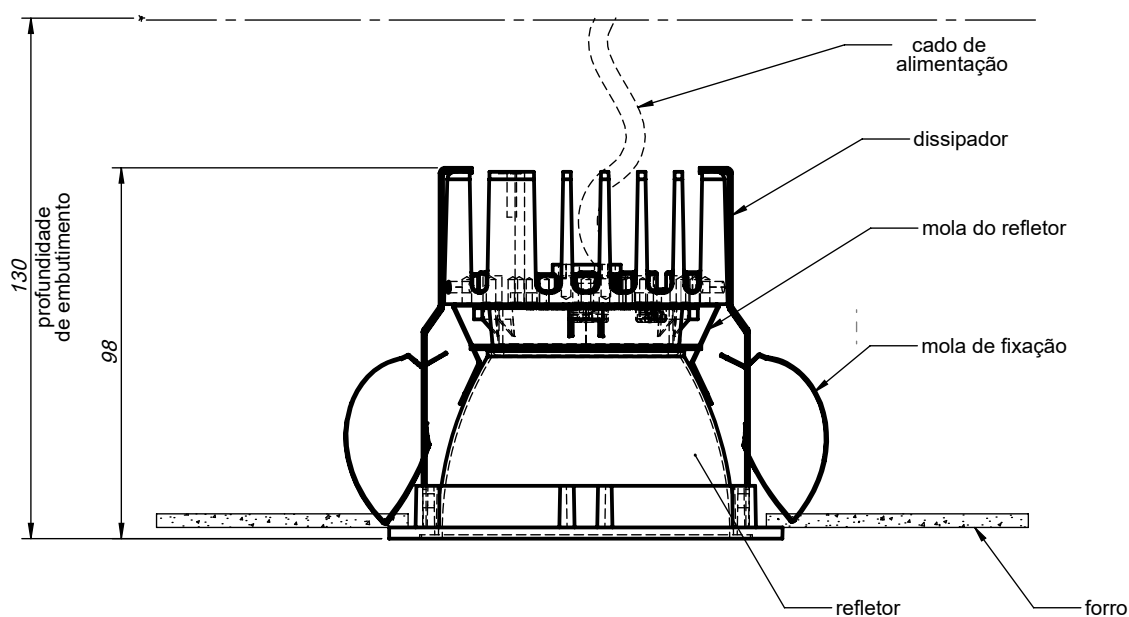
desenhista
fernando.c

aprovação
severino

revisões
17/12/2024

vista lateral

dimensões em milímetros



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



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LumCAT:

Luminaire: downled sm r cob e fa

LampCAT: modulo led 12.5W 30K irc 90

Ballast type: led driver 350mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.1050

Number of Lamps: 1

Power (W): 13.4500

Lamp flux(lm): 1520.0

PF: 0.9900

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1220.01, Efficiency(%): 80.26% , Luminous Efficacy(lm/W): 90.71

Central intensity(cd): 2373.882, Maximum intensity(cd): 2373.882

Angle of maximum intensity: C=0.0 γ =0.0

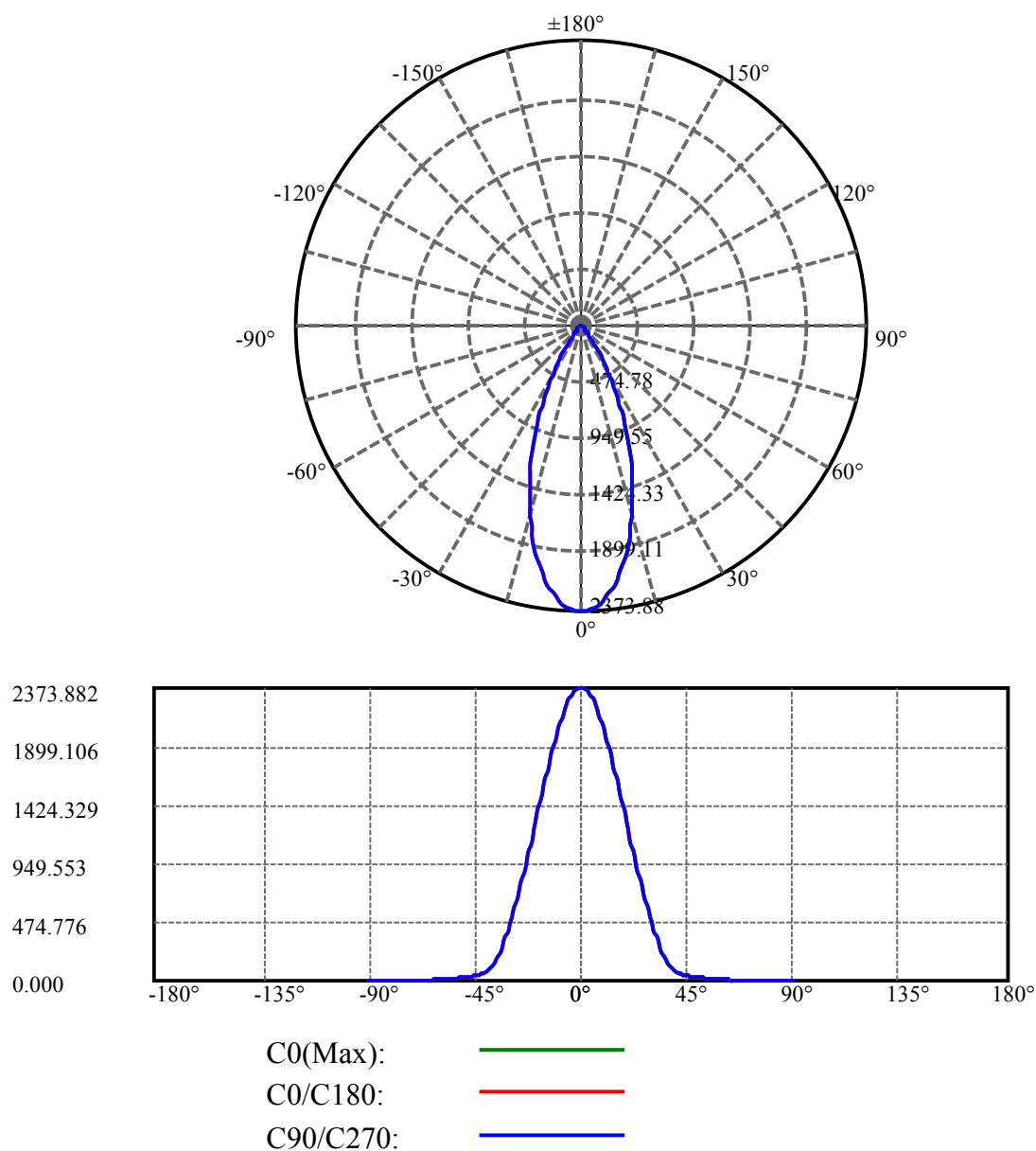
Beam angle of C0 plane : 40.68

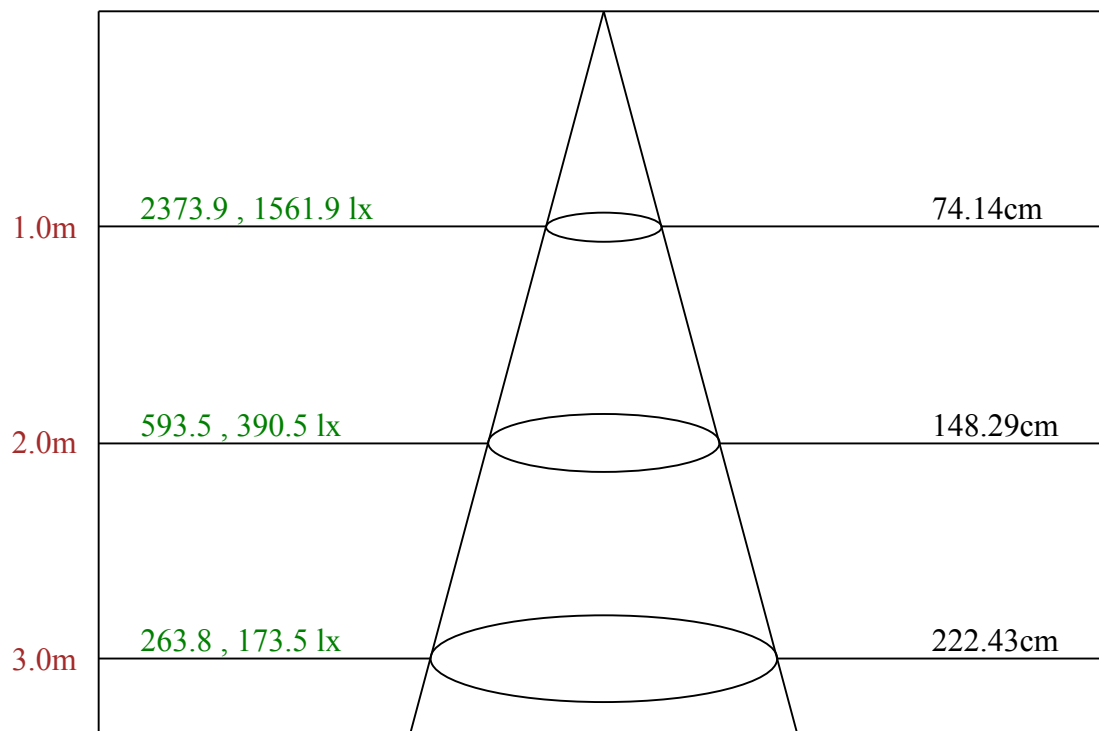
Aveage BeamAngle(IEC 61341):40.68

Equipment: equipamento lumini
Temperature(°C): 25.5

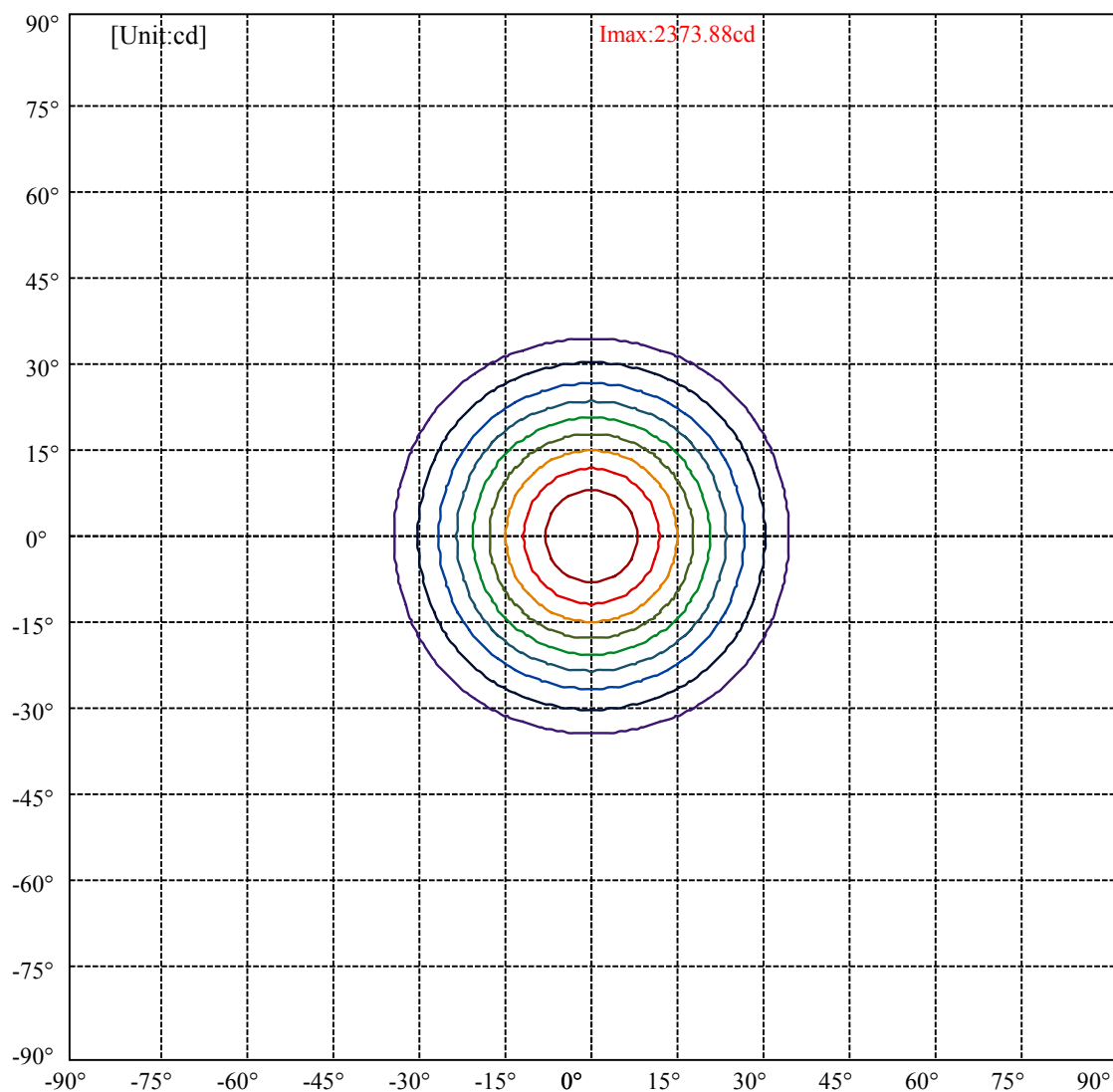
Date: 29/10/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 40.68



(10%Imax) 237.388	—
(20%Imax) 474.776	—
(30%Imax) 712.165	—
(40%Imax) 949.553	—
(50%Imax) 1186.94	—
(60%Imax) 1424.33	—
(70%Imax) 1661.72	—
(80%Imax) 1899.11	—
(90%Imax) 2136.49	—

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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	9899	7045	5106	3436	2063	1658	2093	3071	6021
C45	9899	7045	5106	3436	2063	1658	2093	3071	6021
C90	9899	7045	5106	3436	2063	1658	2093	3071	6021

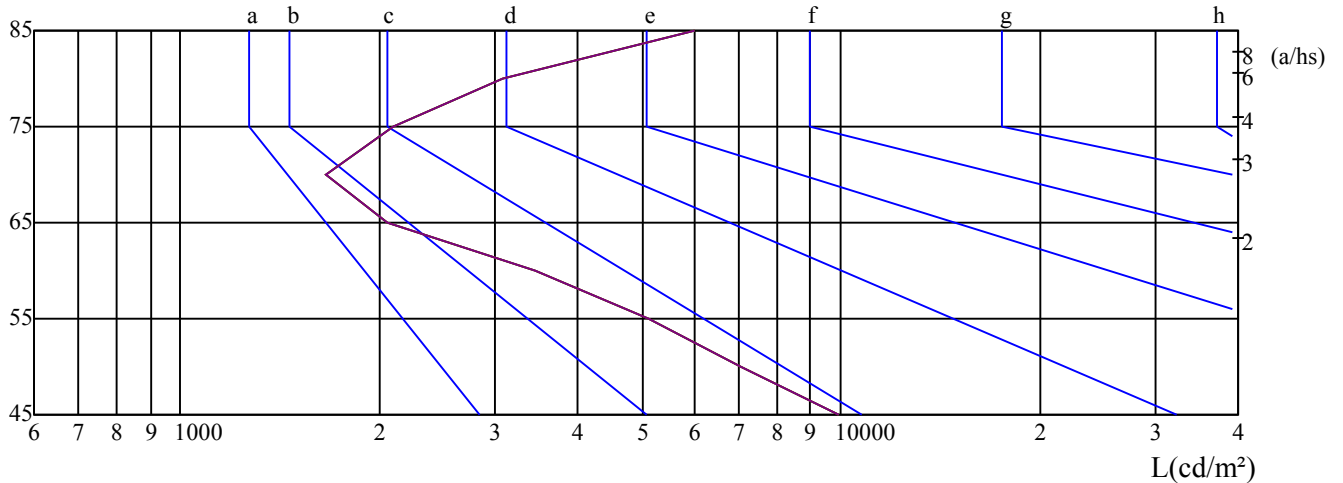
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2063	2063	2063	2093	2093	2093	6021	6021	6021

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: 29/10/2024
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	15.45	16.40	15.82	16.71	17.03	15.45	16.40	15.82	16.71	17.03
	3H	15.31	16.15	15.70	16.49	16.84	15.31	16.15	15.70	16.49	16.84
	4H	15.26	16.04	15.66	16.39	16.76	15.26	16.04	15.66	16.39	16.76
	6H	15.28	15.99	15.70	16.37	16.77	15.28	15.99	15.70	16.37	16.77
	8H	15.30	15.98	15.72	16.36	16.77	15.30	15.98	15.72	16.36	16.77
	12H	15.38	16.02	15.80	16.41	16.83	15.38	16.02	15.80	16.41	16.83
4H	2H	15.21	15.98	15.61	16.34	16.71	15.21	15.98	15.61	16.34	16.71
	3H	15.05	15.70	15.48	16.10	16.52	15.05	15.70	15.48	16.10	16.52
	4H	15.07	15.63	15.51	16.06	16.51	15.07	15.63	15.51	16.06	16.51
	6H	15.12	15.61	15.59	16.06	16.52	15.12	15.61	15.59	16.06	16.52
	8H	15.22	15.68	15.71	16.14	16.61	15.22	15.68	15.71	16.14	16.61
	12H	15.43	15.85	15.92	16.30	16.83	15.43	15.85	15.92	16.30	16.83
8H	4H	14.93	15.39	15.41	15.84	16.32	14.93	15.39	15.41	15.84	16.32
	6H	15.05	15.43	15.56	15.91	16.42	15.05	15.43	15.56	15.91	16.42
	8H	15.30	15.61	15.83	16.13	16.63	15.30	15.61	15.83	16.13	16.63
	12H	15.66	15.90	16.20	16.42	16.94	15.66	15.90	16.20	16.42	16.94
12H	4H	14.90	15.32	15.39	15.77	16.29	14.90	15.32	15.39	15.77	16.29
	6H	15.10	15.41	15.63	15.93	16.43	15.10	15.41	15.63	15.93	16.43
	8H	15.35	15.59	15.89	16.11	16.63	15.35	15.59	15.89	16.11	16.63
Variation with the observer position at spacings:											
S = 1.0H		5.2/-5.5					5.2/-5.5				
S = 1.5H		7.7/-6.1					7.7/-6.1				
S = 2.0H		9.4/-5.8					9.4/-5.8				
Standard tables:		BK1					BK1				
Uncorrected UGR		-2.8					-2.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: downled sm r cob e fc

LampCAT: modulo led 12.5W 30K irc 90

Ballast type: led driver 350mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.1050

Number of Lamps: 1

Power (W): 13.4500

Lamp flux(lm): 1520.0

PF: 0.9900

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1303.99, Efficiency(%): 85.79% , Luminous Efficacy(lm/W): 96.95

Central intensity(cd): 4549.611, Maximum intensity(cd): 4549.611

Angle of maximum intensity: C=0.0 γ =0.0

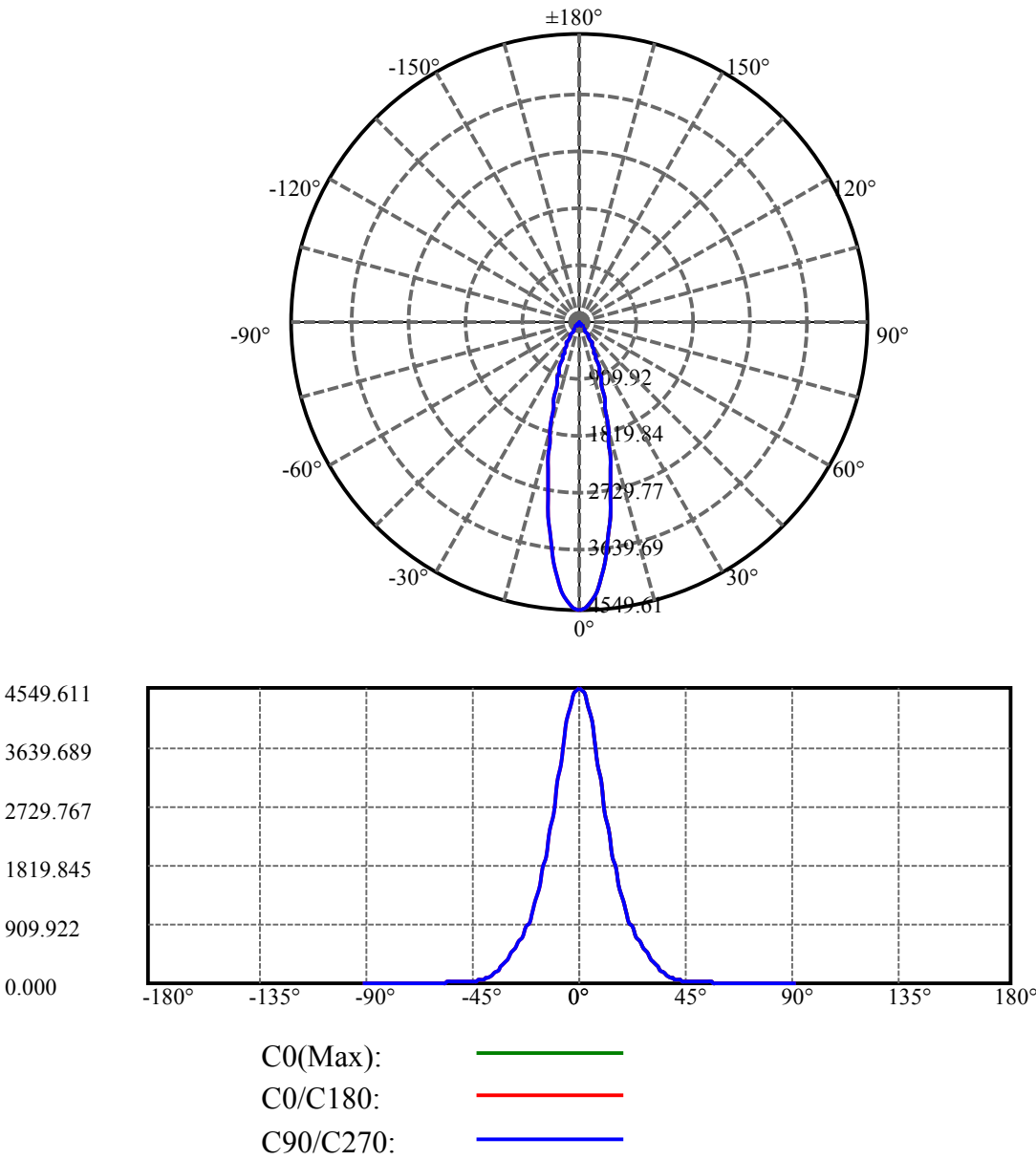
Beam angle of C0 plane : 25.00

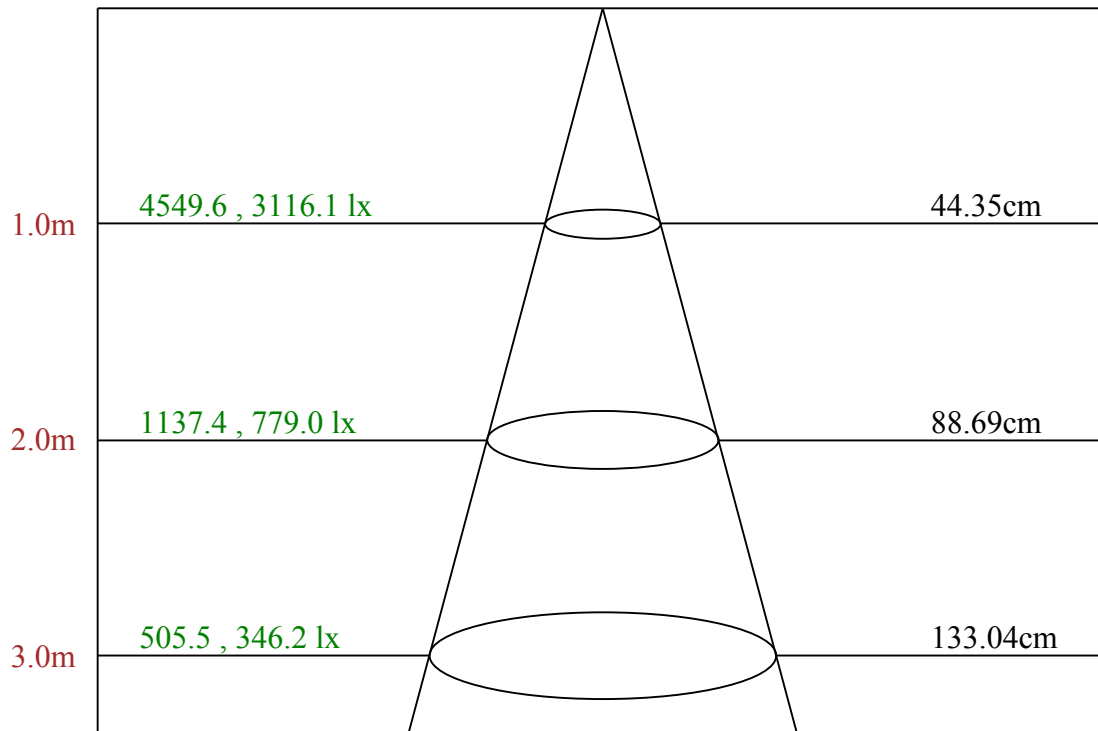
Aveage BeamAngle(IEC 61341):25.00

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 29/10/2024
Humidity(%): 55.0%

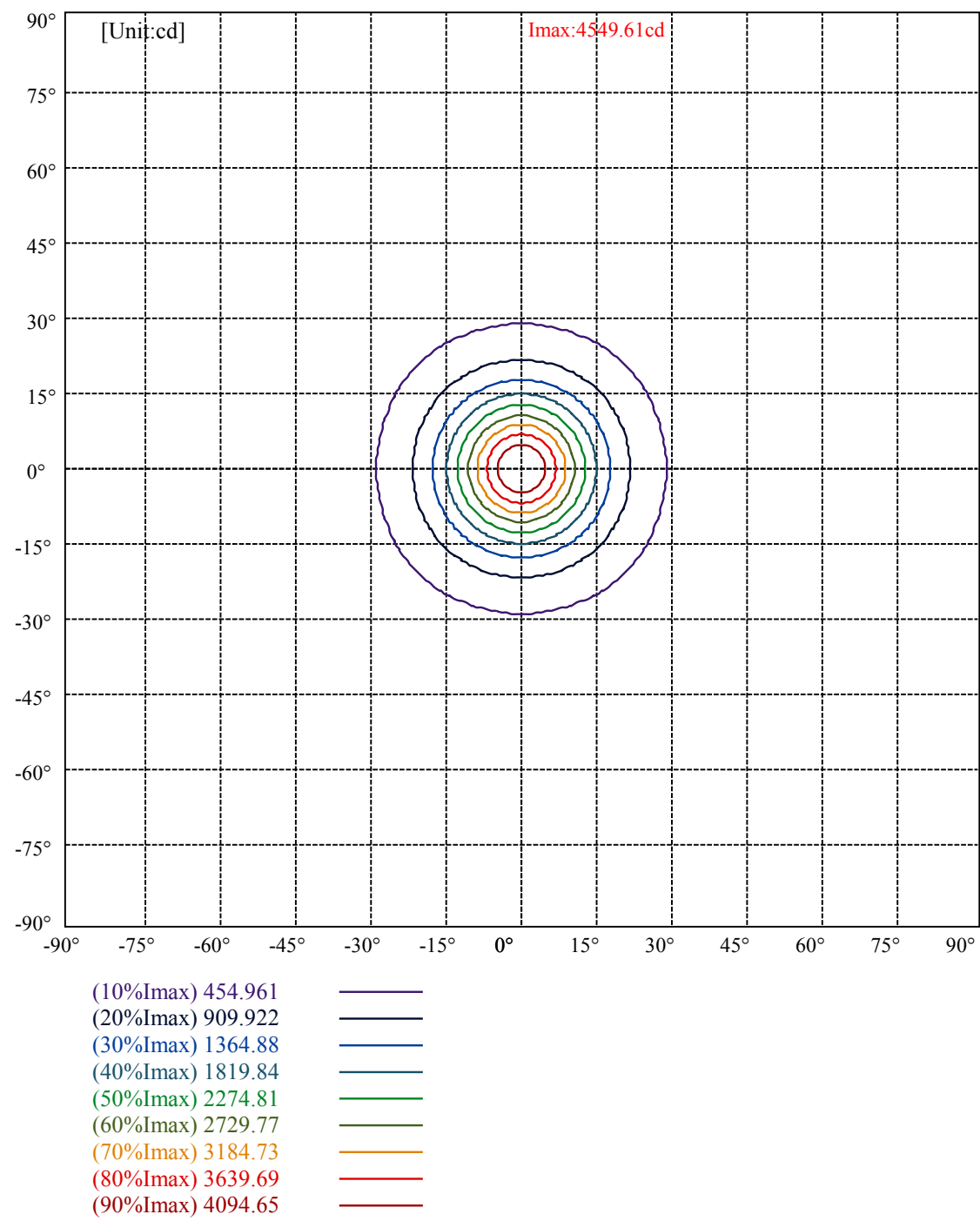
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 25.00



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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	7840	5754	4530	3419	2283	1807	2289	3363	6604
C45	7840	5754	4530	3419	2283	1807	2289	3363	6604
C90	7840	5754	4530	3419	2283	1807	2289	3363	6604

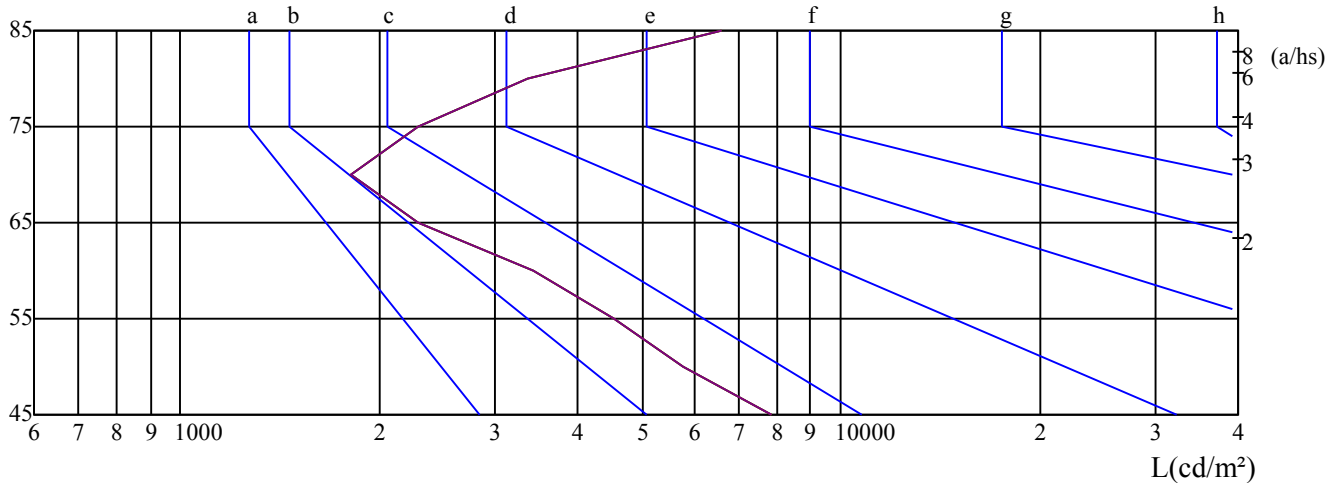
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2283	2283	2283	2289	2289	2289	6604	6604	6604

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: 29/10/2024
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	14.17	15.11	14.53	15.42	15.73	14.17	15.11	14.53	15.42	15.73
	3H	14.08	14.91	14.47	15.25	15.59	14.08	14.91	14.47	15.25	15.59
	4H	14.06	14.83	14.46	15.19	15.55	14.06	14.83	14.46	15.19	15.55
	6H	14.14	14.84	14.56	15.22	15.62	14.14	14.84	14.56	15.22	15.62
	8H	14.22	14.89	14.64	15.27	15.68	14.22	14.89	14.64	15.27	15.68
	12H	14.38	15.01	14.80	15.40	15.82	14.38	15.01	14.80	15.40	15.82
4H	2H	13.95	14.72	14.35	15.07	15.44	13.95	14.72	14.35	15.07	15.44
	3H	13.86	14.51	14.29	14.90	15.32	13.86	14.51	14.29	14.90	15.32
	4H	13.93	14.49	14.37	14.91	15.36	13.93	14.49	14.37	14.91	15.36
	6H	14.08	14.57	14.56	15.03	15.48	14.08	14.57	14.56	15.03	15.48
	8H	14.28	14.73	14.76	15.19	15.66	14.28	14.73	14.76	15.19	15.66
	12H	14.61	15.02	15.10	15.48	16.00	14.61	15.02	15.10	15.48	16.00
8H	4H	13.83	14.28	14.31	14.74	15.21	13.83	14.28	14.31	14.74	15.21
	6H	14.10	14.47	14.61	14.95	15.46	14.10	14.47	14.61	14.95	15.46
	8H	14.47	14.78	15.00	15.30	15.80	14.47	14.78	15.00	15.30	15.80
	12H	15.00	15.24	15.55	15.76	16.28	15.00	15.24	15.55	15.76	16.28
12H	4H	13.81	14.22	14.30	14.68	15.20	13.81	14.22	14.30	14.68	15.20
	6H	14.17	14.48	14.71	15.00	15.50	14.17	14.48	14.71	15.00	15.50
	8H	14.57	14.81	15.12	15.33	15.85	14.57	14.81	15.12	15.33	15.85
Variation with the observer position at spacings:											
S = 1.0H		5.0/-4.8					5.0/-4.8				
S = 1.5H		7.2/-4.8					7.2/-4.8				
S = 2.0H		8.8/-4.4					8.8/-4.4				
Standard tables:		BK2					BK2				
Uncorrected UGR		-3.5					-3.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: downled sm r cob e fm

LampCAT: modulo led 12.5W 30K irc 90

Ballast type: led driver 350mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.1050

Number of Lamps: 1

Power (W): 13.4500

Lamp flux(lm): 1520.0

PF: 0.9900

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1250.23, Efficiency(%): 82.25% , Luminous Efficacy(lm/W): 92.95

Central intensity(cd): 3690.013, Maximum intensity(cd): 3690.013

Angle of maximum intensity: C=0.0 γ =0.0

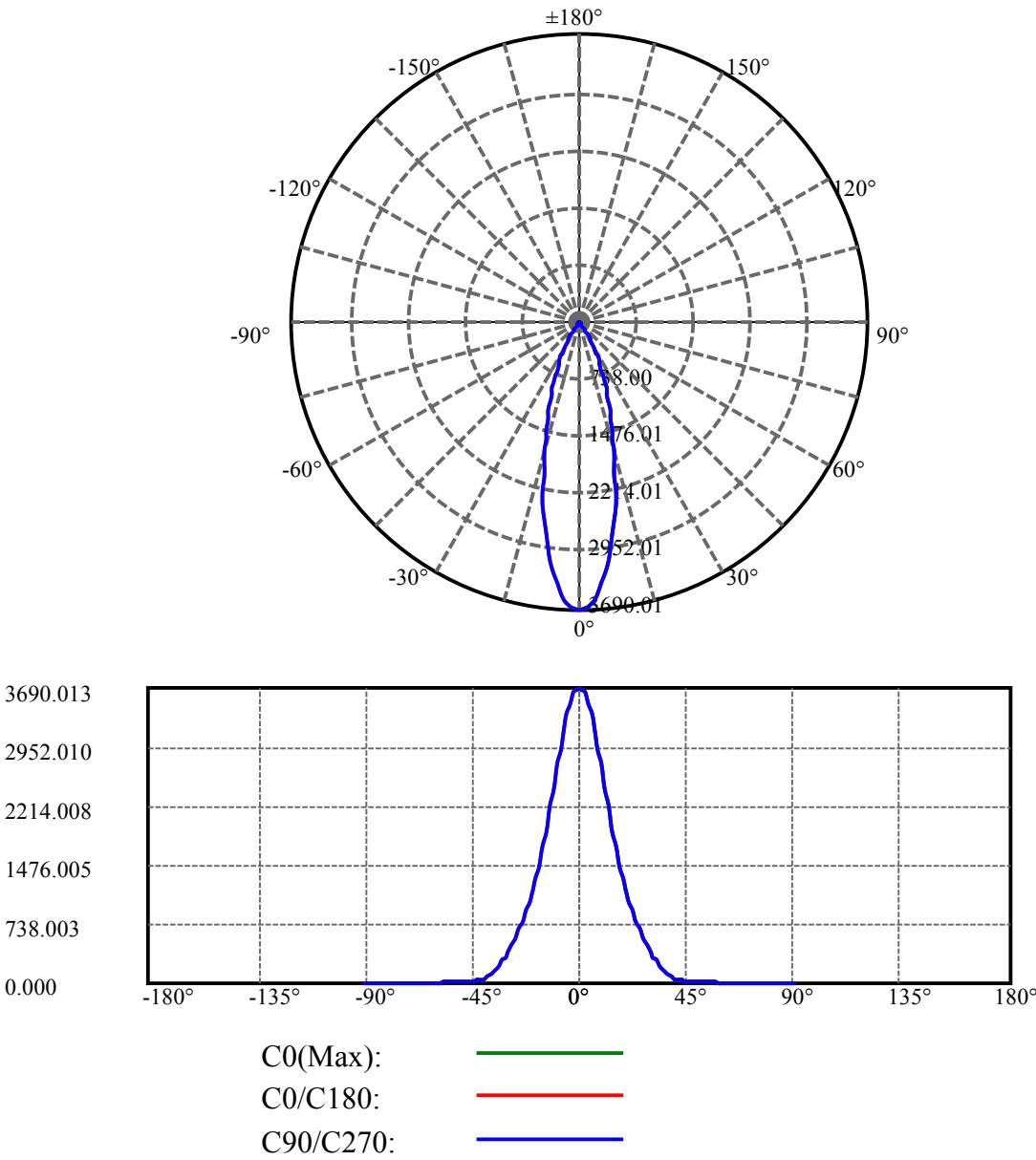
Beam angle of C0 plane : 28.46

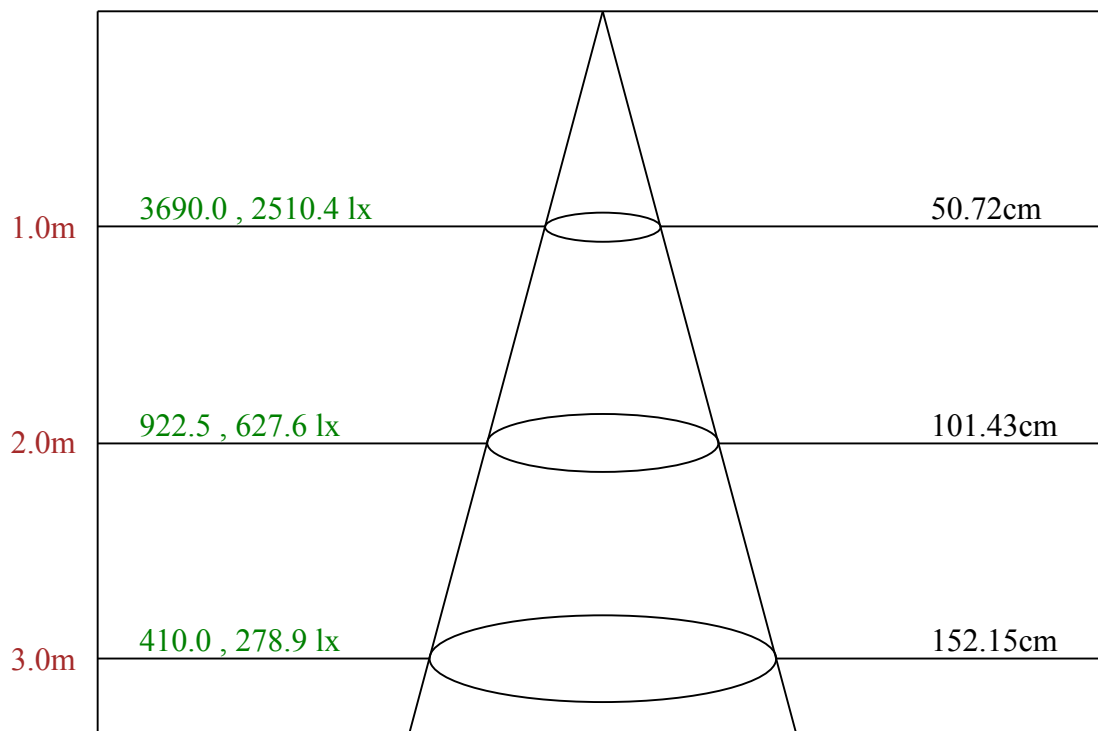
Aveage BeamAngle(IEC 61341):28.46

Equipment: equipamento lumini
Temperature(°C): 25.5

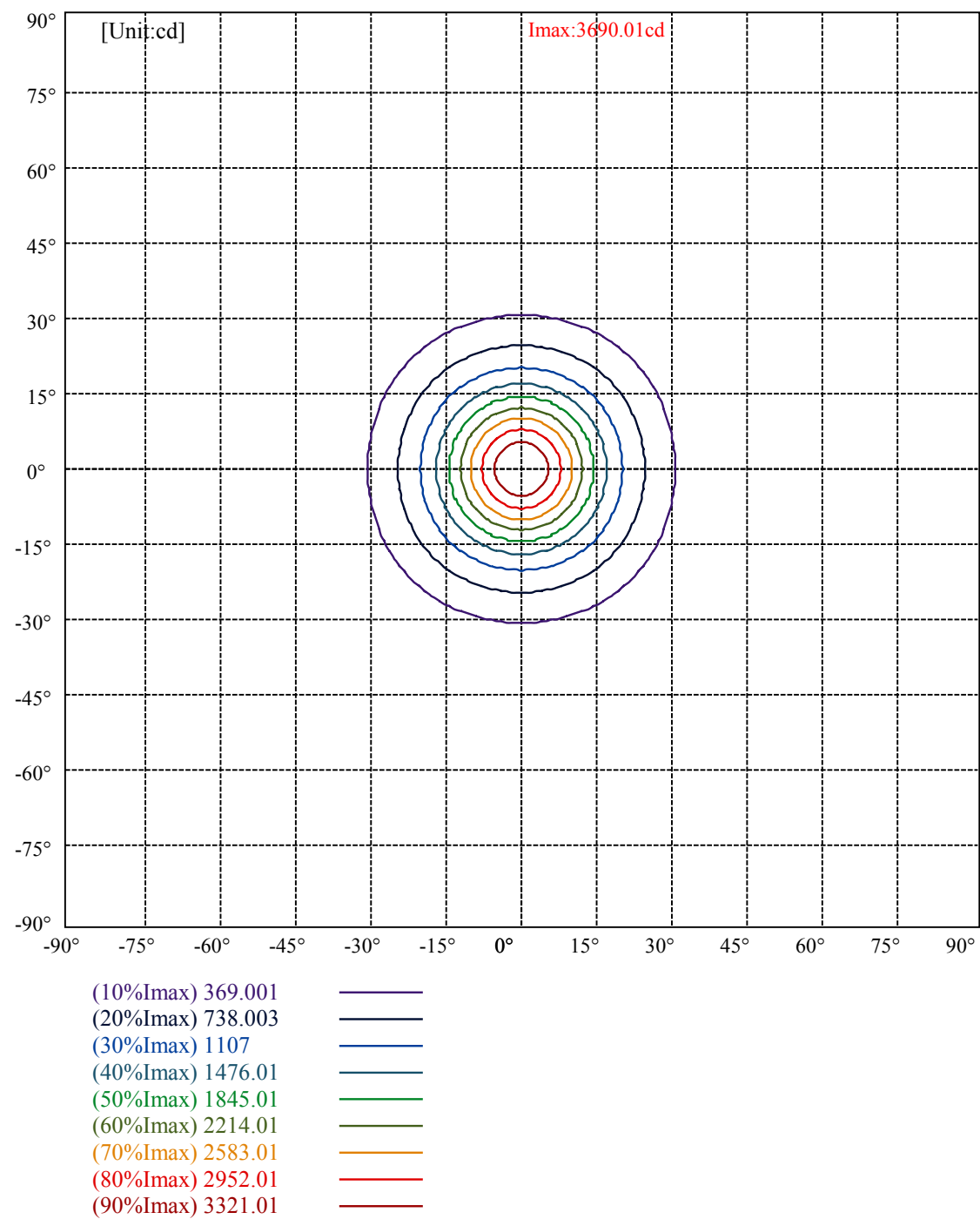
Date: 29/10/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 28.46



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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	7792	5688	4294	3301	2223	1732	2224	3314	6507
C45	7792	5688	4294	3301	2223	1732	2224	3314	6507
C90	7792	5688	4294	3301	2223	1732	2224	3314	6507

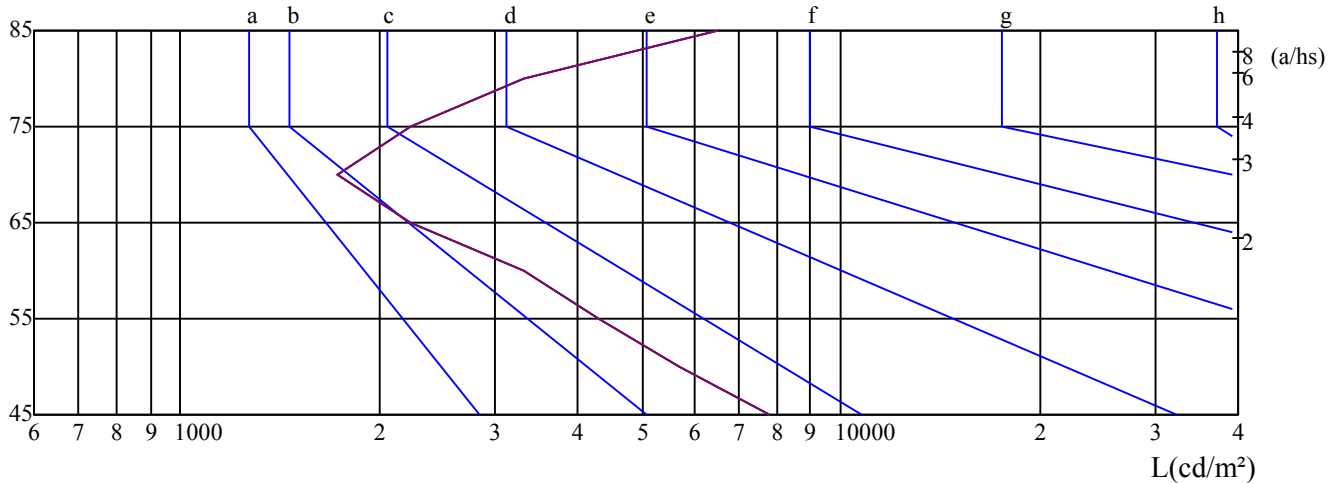
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2223	2223	2223	2224	2224	2224	6507	6507	6507

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: 29/10/2024
Humidity(%): 55.0%

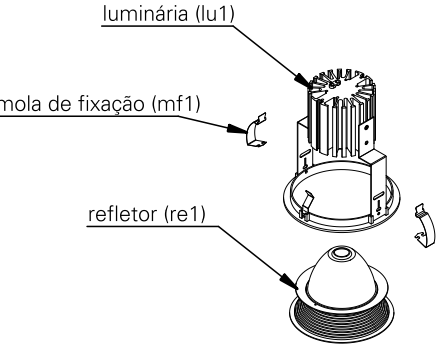
Operator: 01
Distance(m): 6.90

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	14.13	15.07	14.49	15.38	15.69	14.13	15.07	14.49	15.38	15.69
	3H	14.03	14.86	14.42	15.20	15.55	14.03	14.86	14.42	15.20	15.55
	4H	14.02	14.79	14.42	15.14	15.51	14.02	14.79	14.42	15.14	15.51
	6H	14.10	14.80	14.52	15.18	15.58	14.10	14.80	14.52	15.18	15.58
	8H	14.17	14.84	14.59	15.23	15.64	14.17	14.84	14.59	15.23	15.64
	12H	14.33	14.96	14.76	15.36	15.78	14.33	14.96	14.76	15.36	15.78
4H	2H	13.90	14.67	14.30	15.03	15.40	13.90	14.67	14.30	15.03	15.40
	3H	13.81	14.46	14.24	14.85	15.27	13.81	14.46	14.24	14.85	15.27
	4H	13.89	14.44	14.33	14.87	15.32	13.89	14.44	14.33	14.87	15.32
	6H	14.04	14.53	14.51	14.98	15.43	14.04	14.53	14.51	14.98	15.43
	8H	14.23	14.68	14.71	15.14	15.62	14.23	14.68	14.71	15.14	15.62
	12H	14.56	14.98	15.05	15.43	15.95	14.56	14.98	15.05	15.43	15.95
8H	4H	13.78	14.23	14.27	14.69	15.17	13.78	14.23	14.27	14.69	15.17
	6H	14.05	14.42	14.56	14.90	15.42	14.05	14.42	14.56	14.90	15.42
	8H	14.42	14.73	14.95	15.25	15.75	14.42	14.73	14.95	15.25	15.75
	12H	14.96	15.19	15.50	15.71	16.24	14.96	15.19	15.50	15.71	16.24
12H	4H	13.76	14.18	14.25	14.63	15.15	13.76	14.18	14.25	14.63	15.15
	6H	14.13	14.44	14.66	14.96	15.46	14.13	14.44	14.66	14.96	15.46
	8H	14.52	14.76	15.07	15.28	15.80	14.52	14.76	15.07	15.28	15.80
Variation with the observer position at spacings:											
S = 1.0H		5.1/-4.9					5.1/-4.9				
S = 1.5H		7.3/-4.8					7.3/-4.8				
S = 2.0H		8.9/-4.4					8.9/-4.4				
Standard tables:		BK2					BK2				
Uncorrected UGR		-3.6					-3.6				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

downled

downled md r cob e	Ø148mm
downled sm r cob e	Ø95mm
downled sm r dual color e	Ø95mm
downled md r s2 e	Ø149mm
downled sm r s2 e	Ø97mm
downled md r wide s2 e	Ø149mm
downled sm r wide s2 e	Ø97mm
downled sm r-d e	Ø95mm
downled sm r-d dual color e	Ø95mm



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
downled md r cob e - 1,0 kg
downled sm r cob e - 0,5 kg
downled sm r dual color e - 0,5 kg
downled md r e - 1,0 kg
downled sm r e - 0,5 kg
downled sm r-d e - 0,5 kg
downled sm r-d dual color e - 0,5 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
furadeira
serra copo

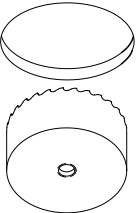
informações importantes
para a instalação, lave as mãos e seque as mãos, use luvas descartáveis.

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

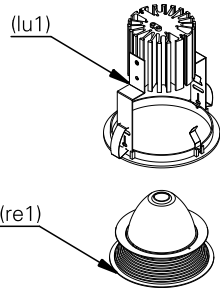
retire a luminária da embalagem com cuidado e apoie-o em uma superfície limpa e seca.

instalação passo a passo

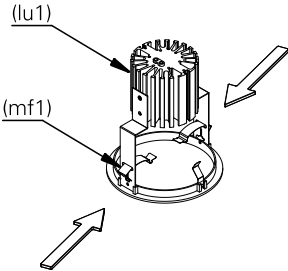
1. faça um nicho no forro conforme o modelo do produto na tabela.



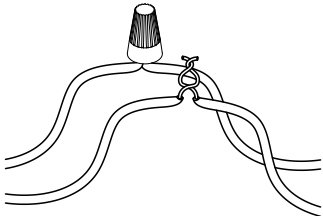
2. retire o refletor (re1) da luminária (lu1) puxando-o para baixo.



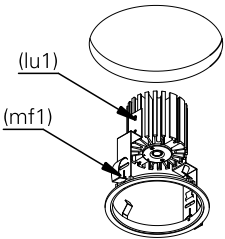
3. pressione as molas de fixação (mf1) para dentro da luminária (lu1).



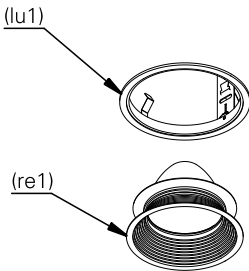
4. faça a ligação do cabo de energia não esquecendo o fio terra.



5. encaixe a luminária no nicho. por dentro da luminária (lu1), pressione as molas de fixação (mf1) para fora de modo a travar a luminária.



6. encaixe o refletor (re1) na luminária (lu1).



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

