

focus sm r 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
6	c	2700		
6	m	2700		
6	a	2700		
6	c	3000	900	751
6	m	3000	900	764
6	a	3000	900	772

equipamentos

LED driver 180mA (incluso, ponto remoto)

controle

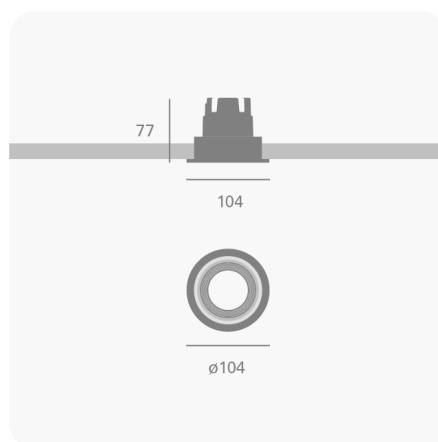
on/off
dim fphase
dim dali
dim 1-10V

instalação

forro de gesso
forro modular
marcenaria

IP
20

dimensões



acabamentos e cores

cores



branco txt



corten



cinza médio



cinza areia



preto txt



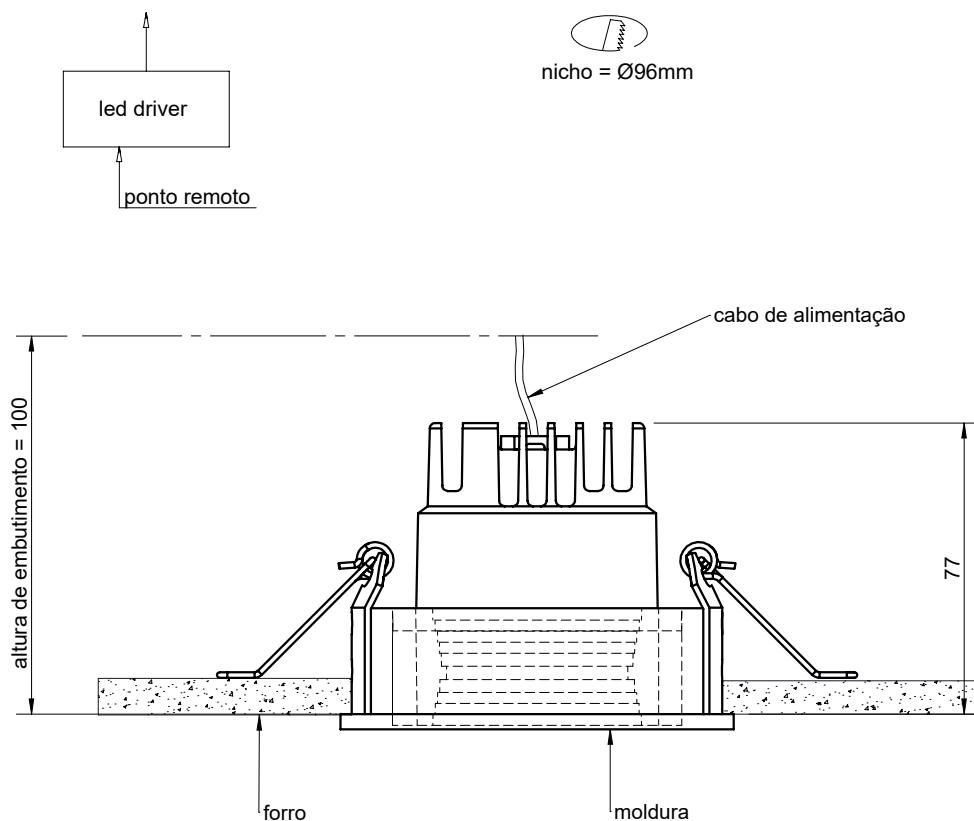
grafite txt



titânio

vista lateral

dimensões em milímetros



focus sm r e serie 3

folha
1/1

escala
1:2

data
18/06/2025

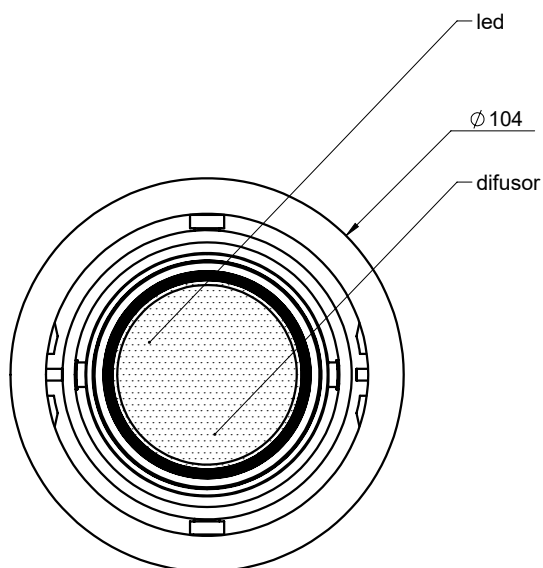
desenhista
joão v.

aprovação
severino

revisões
18/06/2025

vista inferior

dimensões em milímetros



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



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: focus sm r serie 3 e fa

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0560

Number of Lamps: 1

Power (W): 7.0700

Lamp flux(lm): 900.0

PF: 0.9700

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 771.67, Efficiency(%): 85.74% , Luminous Efficacy(lm/W): 109.15

Central intensity(cd): 2620.264, Maximum intensity(cd): 2620.264

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

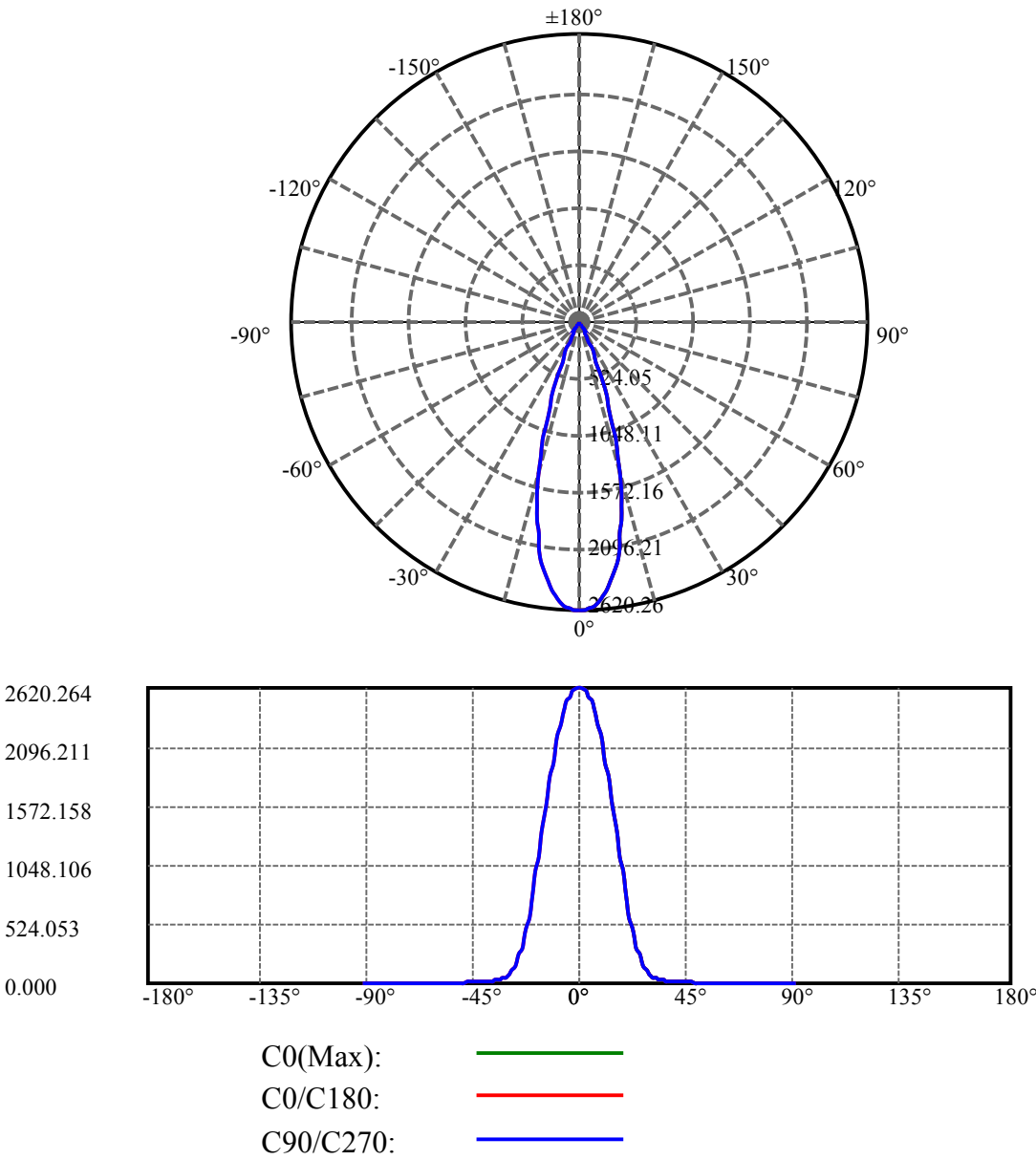
Beam angle of C0 plane : 31.52

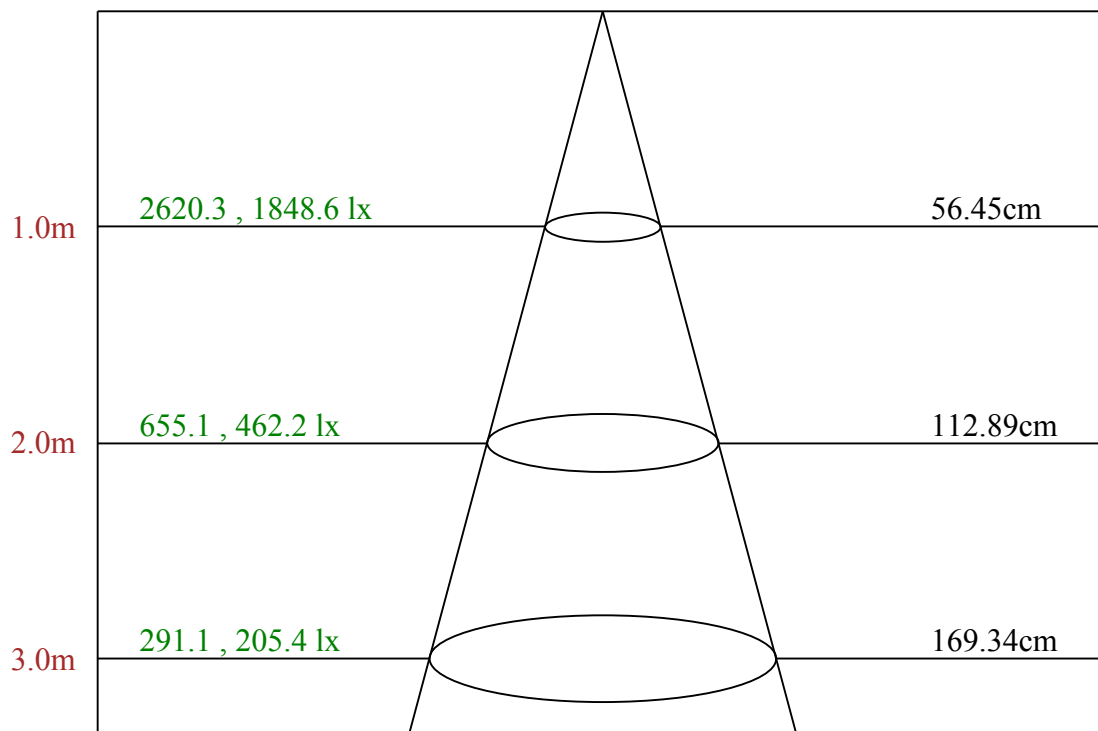
Average BeamAngle(IEC 61341): 31.52

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

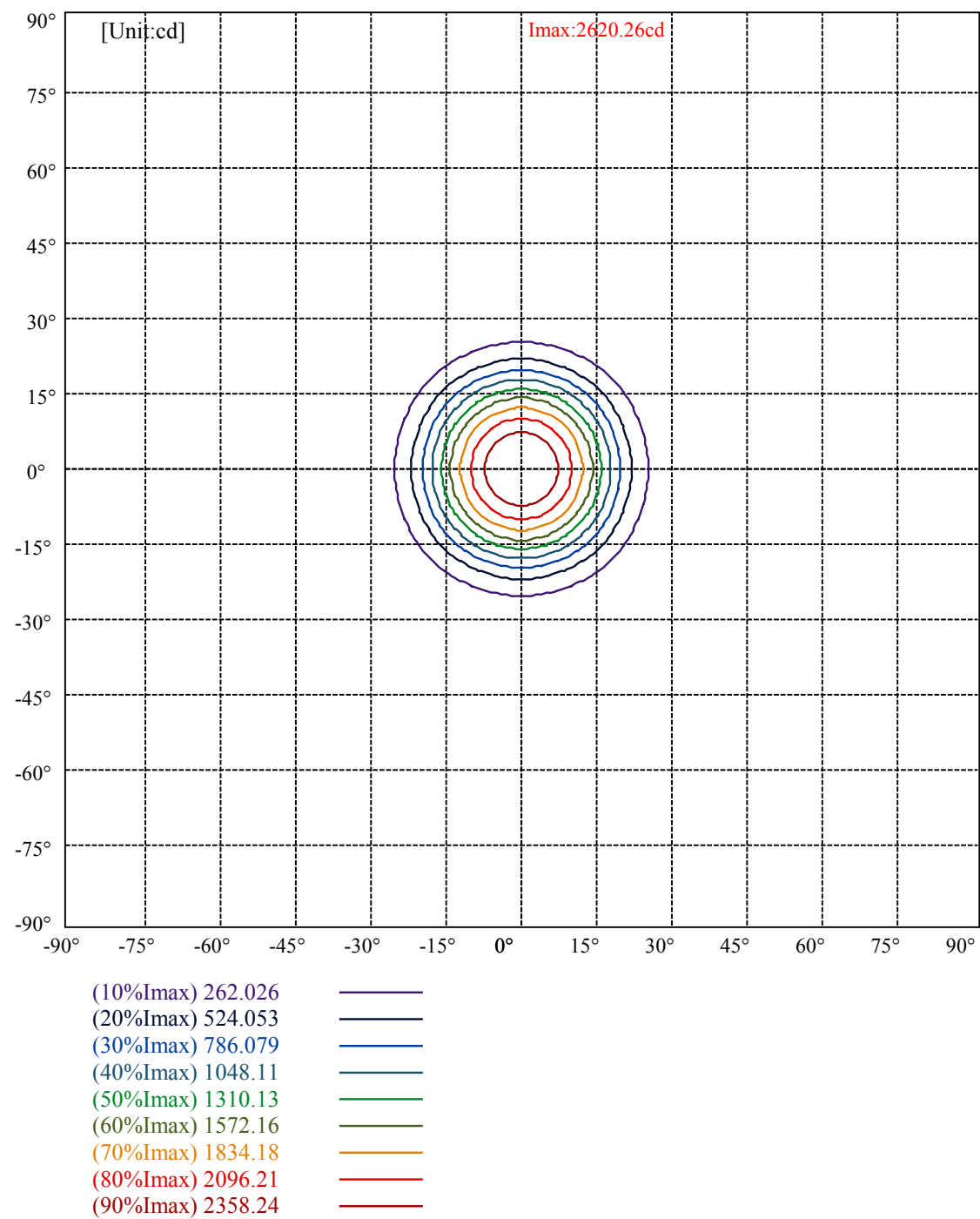
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 31.52



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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	4496	3208	2140	2046	2123	2393	3041	4441	8668
C45	4496	3208	2140	2046	2123	2393	3041	4441	8668
C90	4496	3208	2140	2046	2123	2393	3041	4441	8668

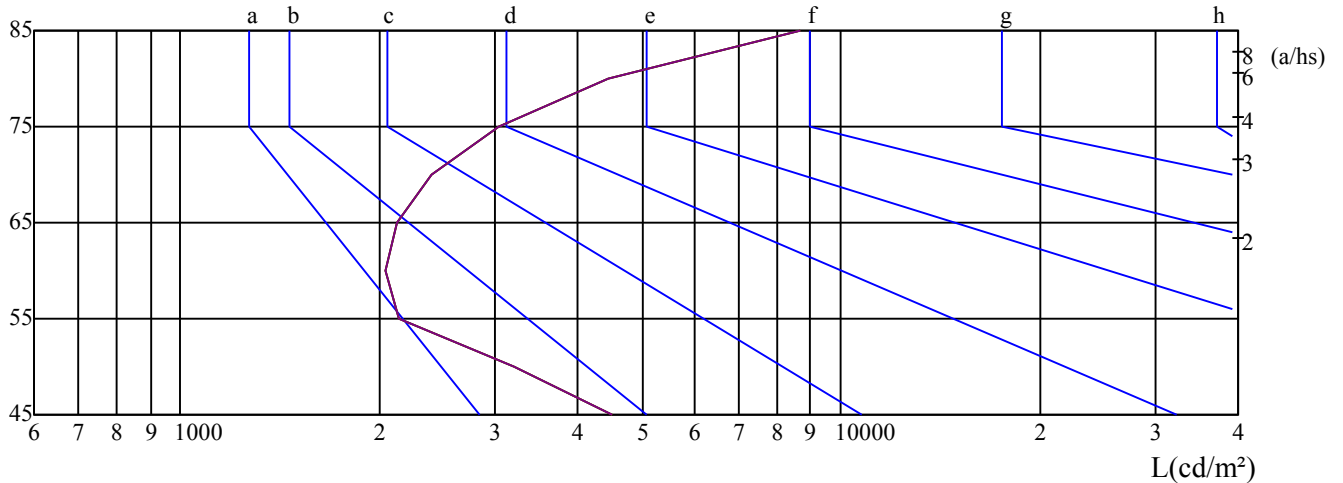
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2123	2123	2123	3041	3041	3041	8668	8668	8668

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: 20/09/2024
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	7.06	7.97	7.42	8.28	8.60	7.06	7.97	7.42	8.28	8.60
	3H	7.84	8.65	8.23	8.99	9.34	7.84	8.65	8.23	8.99	9.34
	4H	8.54	9.29	8.94	9.65	10.02	8.54	9.29	8.94	9.65	10.02
	6H	9.64	10.33	10.06	10.70	11.10	9.64	10.33	10.06	10.70	11.10
	8H	10.37	11.03	10.80	11.41	11.82	10.37	11.03	10.80	11.41	11.82
	12H	11.29	11.91	11.71	12.30	12.72	11.29	11.91	11.71	12.30	12.72
4H	2H	7.12	7.87	7.52	8.22	8.59	7.12	7.87	7.52	8.22	8.59
	3H	8.20	8.83	8.63	9.23	9.64	8.20	8.83	8.63	9.23	9.64
	4H	9.22	9.76	9.66	10.19	10.64	9.22	9.76	9.66	10.19	10.64
	6H	10.61	11.09	11.08	11.54	11.99	10.61	11.09	11.08	11.54	11.99
	8H	11.54	11.99	12.03	12.45	12.92	11.54	11.99	12.03	12.45	12.92
	12H	12.67	13.08	13.16	13.53	14.06	12.67	13.08	13.16	13.53	14.06
8H	4H	9.61	10.06	10.10	10.52	10.99	9.61	10.06	10.10	10.52	10.99
	6H	11.33	11.69	11.83	12.17	12.68	11.33	11.69	11.83	12.17	12.68
	8H	12.53	12.83	13.07	13.36	13.85	12.53	12.83	13.07	13.36	13.85
	12H	13.91	14.14	14.46	14.66	15.18	13.91	14.14	14.46	14.66	15.18
12H	4H	9.74	10.15	10.23	10.60	11.13	9.74	10.15	10.23	10.60	11.13
	6H	11.62	11.93	12.16	12.45	12.95	11.62	11.93	12.16	12.45	12.95
	8H	12.91	13.14	13.46	13.66	14.18	12.91	13.14	13.46	13.66	14.18
Variation with the observer position at spacings:											
S = 1.0H		2.1/-1.6					2.1/-1.6				
S = 1.5H		2.5/-1.5					2.5/-1.5				
S = 2.0H		2.9/-1.3					2.9/-1.3				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.0					-4.0				

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
Address:Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: focus sm r serie 3 e fc

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0560

Number of Lamps: 1

Power (W): 7.0700

Lamp flux(lm): 900.0

PF: 0.9700

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 750.53, Efficiency(%): 83.39% , Luminous Efficacy(lm/W): 106.16

Central intensity(cd): 6473.293, Maximum intensity(cd): 6473.293

Angle of maximum intensity: C=0.0 γ =0.0

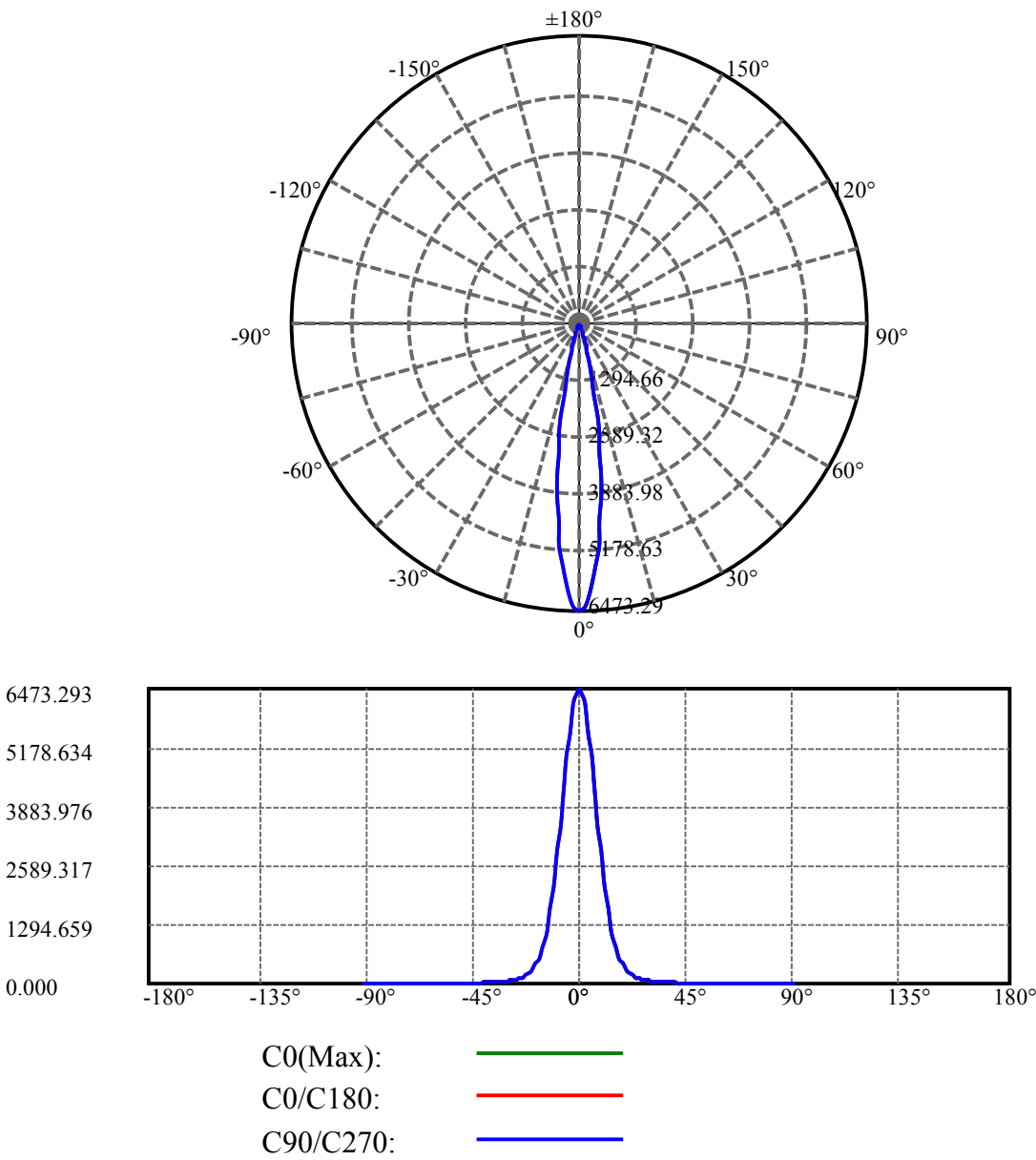
Beam angle of C0 plane : 16.81

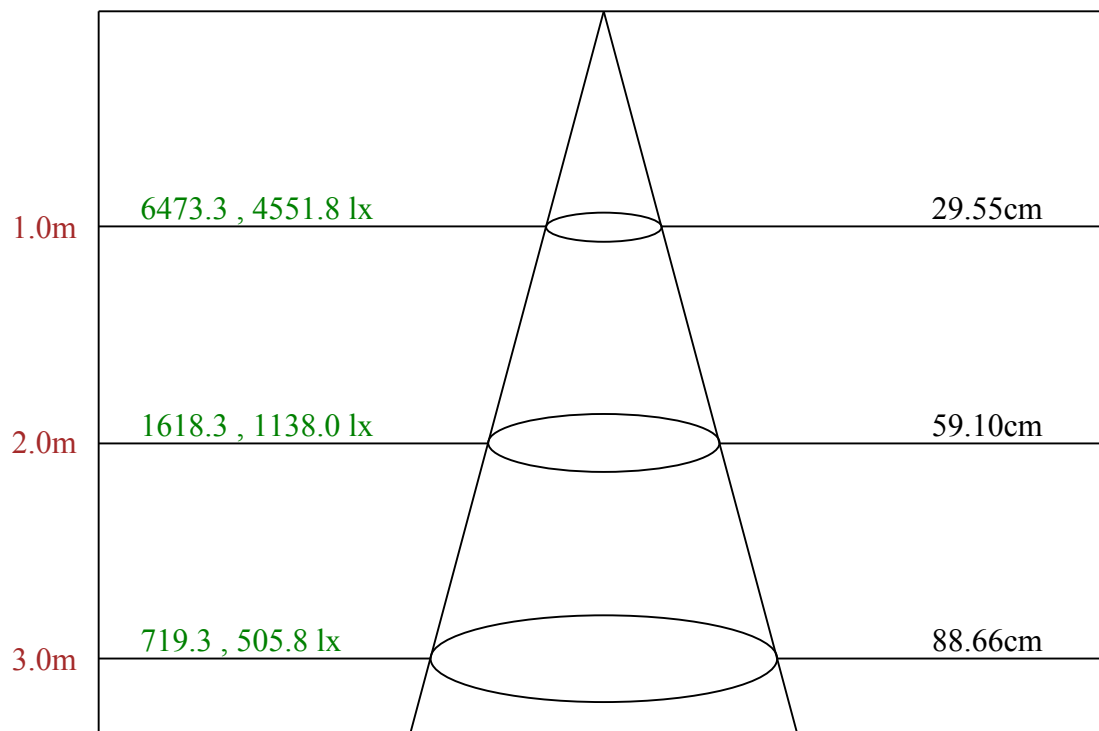
Aveage BeamAngle(IEC 61341):16.81

Equipment: equipamento lumini
Temperature(°C): 25.5

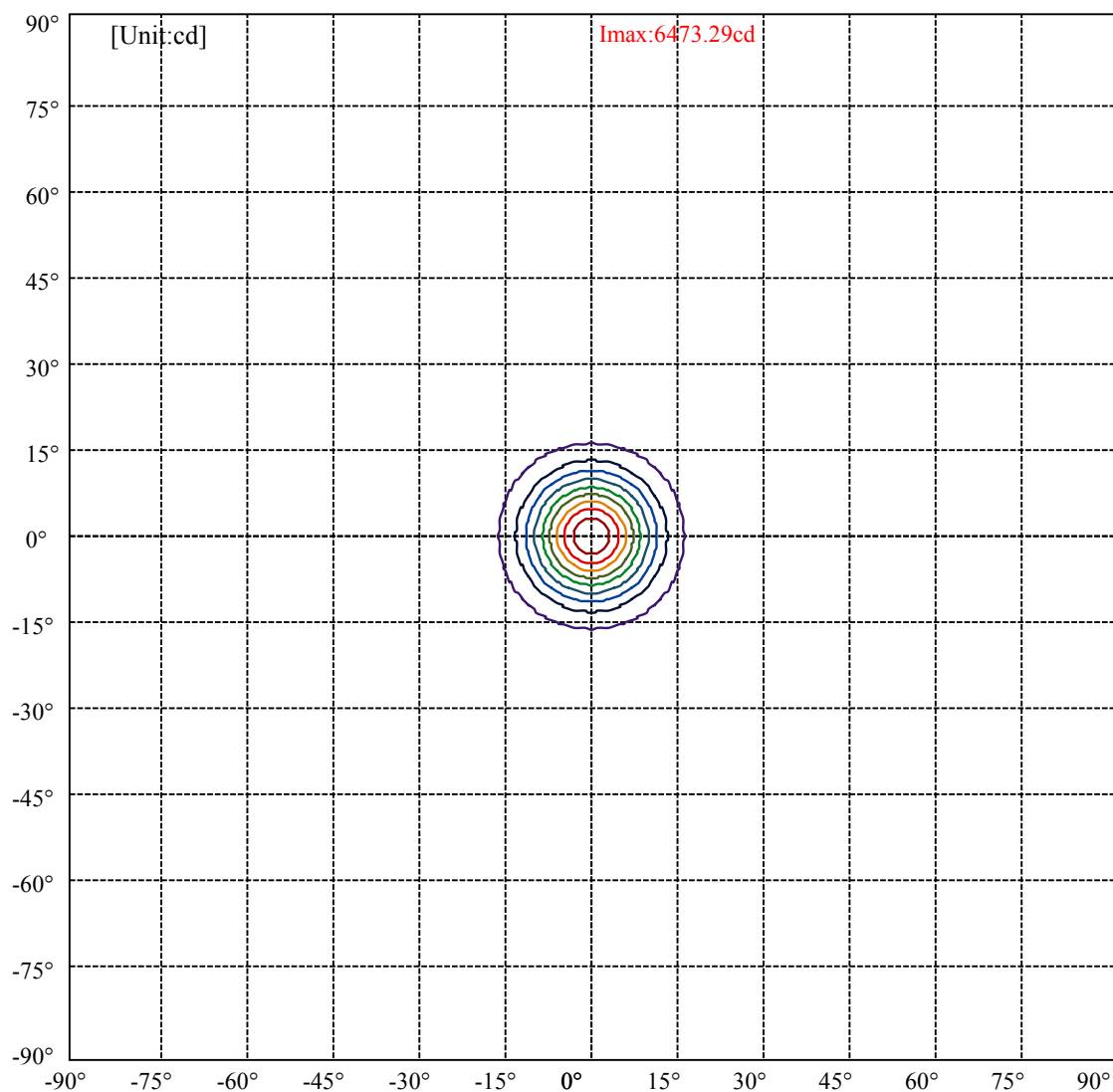
Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 16.81



(10%Imax) 647.329	—
(20%Imax) 1294.66	—
(30%Imax) 1941.99	—
(40%Imax) 2589.32	—
(50%Imax) 3236.65	—
(60%Imax) 3883.98	—
(70%Imax) 4531.31	—
(80%Imax) 5178.63	—
(90%Imax) 5825.96	—

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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	6143	4016	2250	2015	2011	2209	2858	4169	8126
C45	6143	4016	2250	2015	2011	2209	2858	4169	8126
C90	6143	4016	2250	2015	2011	2209	2858	4169	8126

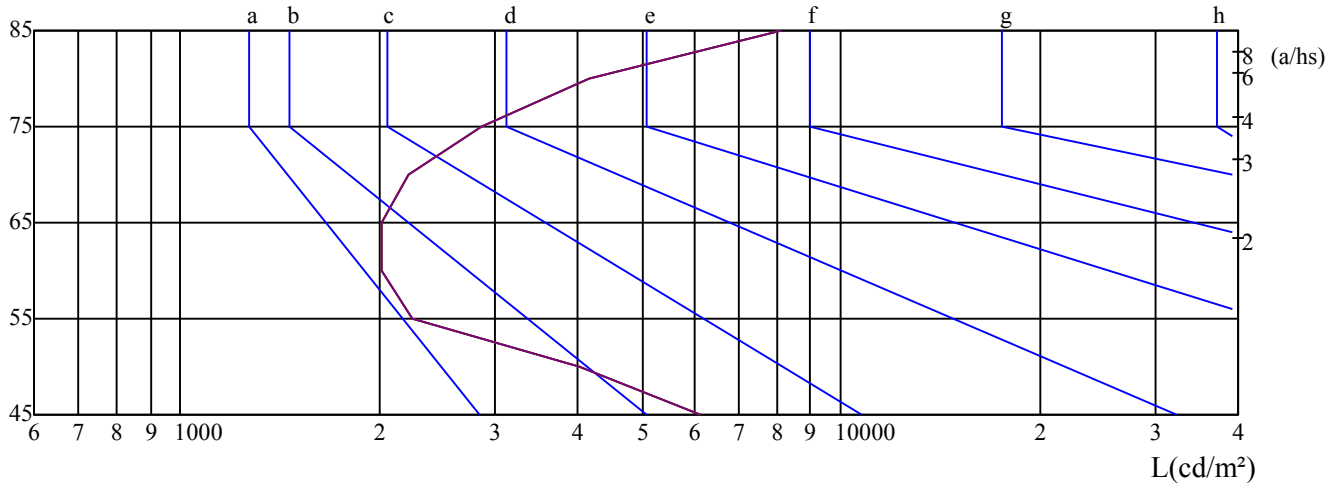
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2011	2011	2011	2858	2858	2858	8126	8126	8126

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: 20/09/2024
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	8.17	9.09	8.53	9.40	9.72	8.17	9.09	8.53	9.40	9.72
	3H	8.63	9.45	9.02	9.79	10.13	8.63	9.45	9.02	9.79	10.13
	4H	9.12	9.88	9.52	10.23	10.60	9.12	9.88	9.52	10.23	10.60
	6H	9.98	10.67	10.40	11.04	11.44	9.98	10.67	10.40	11.04	11.44
	8H	10.57	11.22	10.99	11.61	12.02	10.57	11.22	10.99	11.61	12.02
	12H	11.35	11.97	11.78	12.37	12.79	11.35	11.97	11.78	12.37	12.79
4H	2H	8.12	8.88	8.52	9.23	9.60	8.12	8.88	8.52	9.23	9.60
	3H	8.81	9.44	9.24	9.84	10.26	8.81	9.44	9.24	9.84	10.26
	4H	9.59	10.14	10.03	10.56	11.01	9.59	10.14	10.03	10.56	11.01
	6H	10.74	11.22	11.21	11.67	12.13	10.74	11.22	11.21	11.67	12.13
	8H	11.55	11.99	12.04	12.45	12.93	11.55	11.99	12.04	12.45	12.93
	12H	12.58	12.99	13.07	13.44	13.96	12.58	12.99	13.07	13.44	13.96
8H	4H	9.88	10.32	10.36	10.78	11.26	9.88	10.32	10.36	10.78	11.26
	6H	11.35	11.71	11.85	12.19	12.71	11.35	11.71	11.85	12.19	12.71
	8H	12.43	12.73	12.97	13.26	13.76	12.43	12.73	12.97	13.26	13.76
	12H	13.73	13.96	14.27	14.48	15.00	13.73	13.96	14.27	14.48	15.00
12H	4H	9.98	10.39	10.47	10.84	11.36	9.98	10.39	10.47	10.84	11.36
	6H	11.61	11.91	12.15	12.44	12.94	11.61	11.91	12.15	12.44	12.94
	8H	12.78	13.01	13.32	13.53	14.05	12.78	13.01	13.32	13.53	14.05
Variation with the observer position at spacings:											
S = 1.0H		1.8/-2.1					1.8/-2.1				
S = 1.5H		2.5/-1.7					2.5/-1.7				
S = 2.0H		3.0/-1.5					3.0/-1.5				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.7					-3.7				

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
Address:Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: focus sm r serie 3 e 6W 30K fm

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0560

Number of Lamps: 1

Power (W): 7.0700

Lamp flux(lm): 900.0

PF: 0.9700

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 764.41, Efficiency(%): 84.93% , Luminous Efficacy(lm/W): 108.12

Central intensity(cd): 4866.266, Maximum intensity(cd): 4866.266

Angle of maximum intensity: C=0.0 γ =0.0

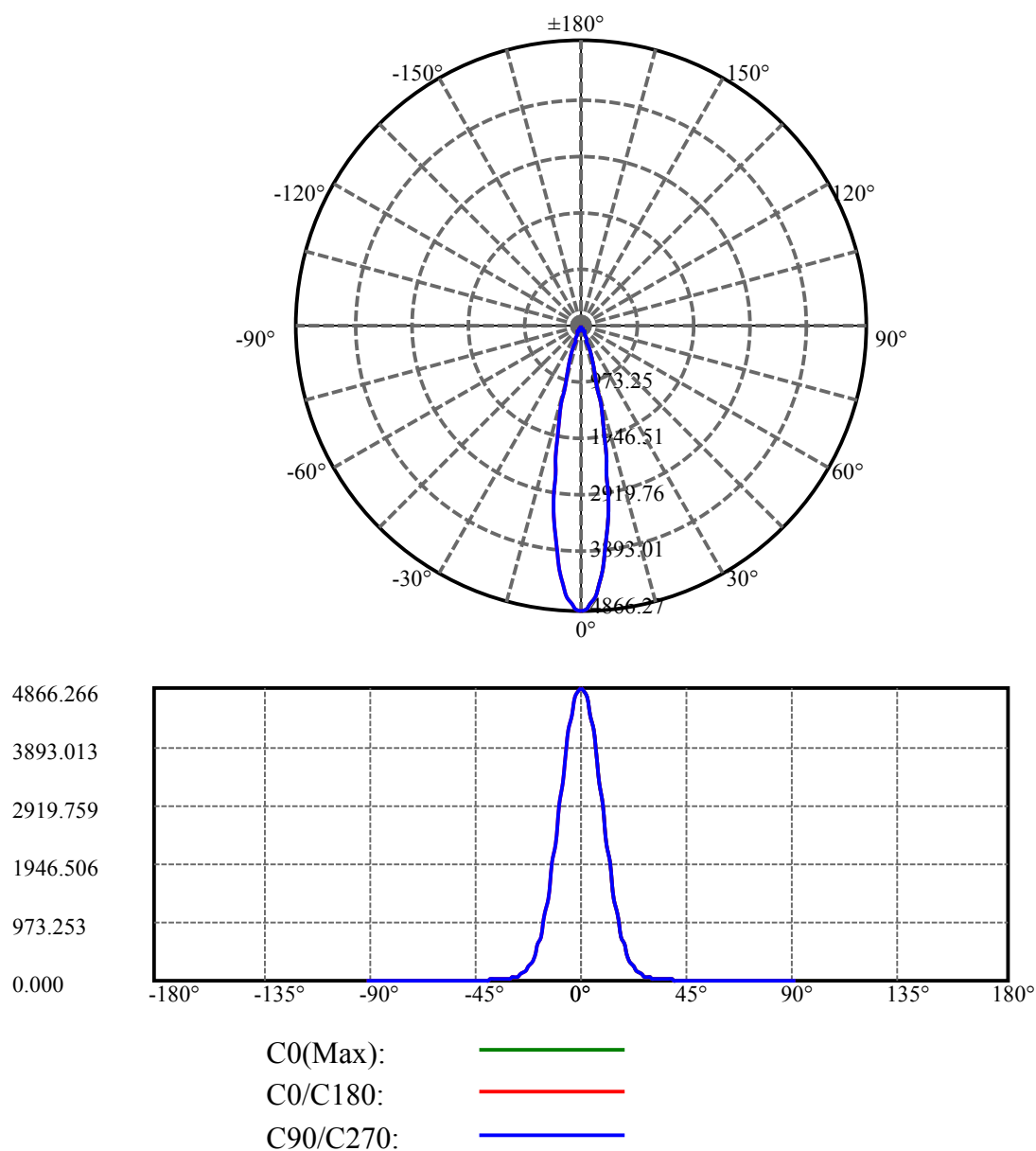
Beam angle of C0 plane : 20.91

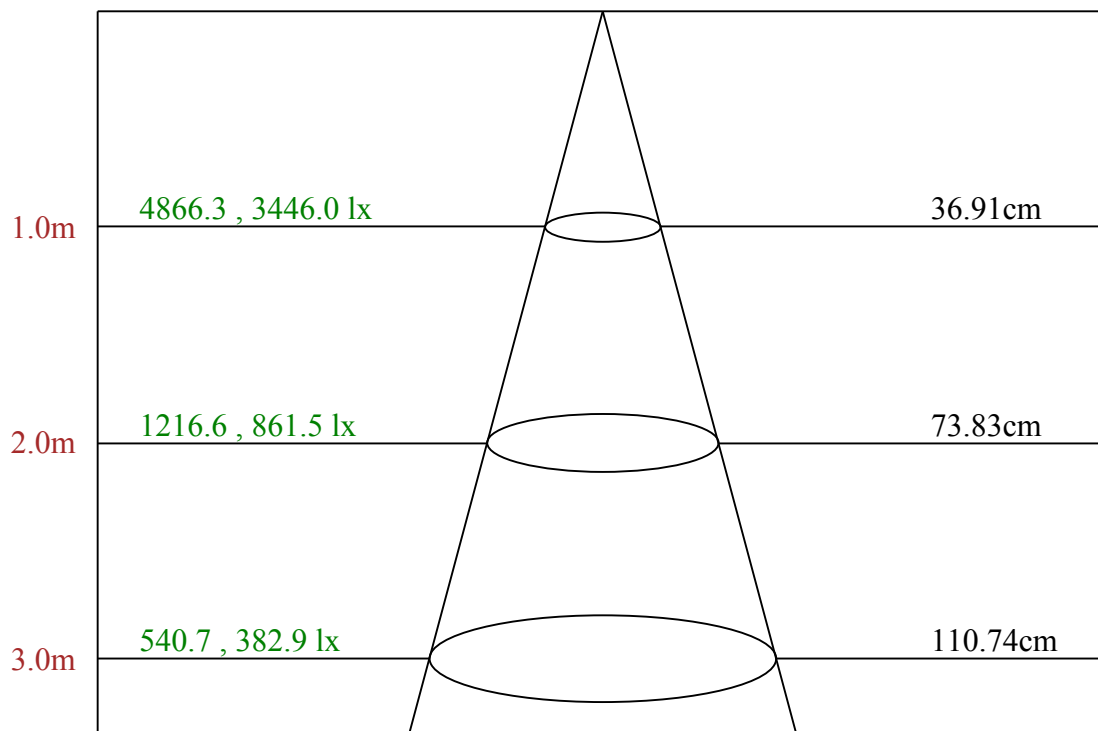
Aveage BeamAngle(IEC 61341):20.91

Equipment: equipamento lumini
Temperature(°C): 25.5

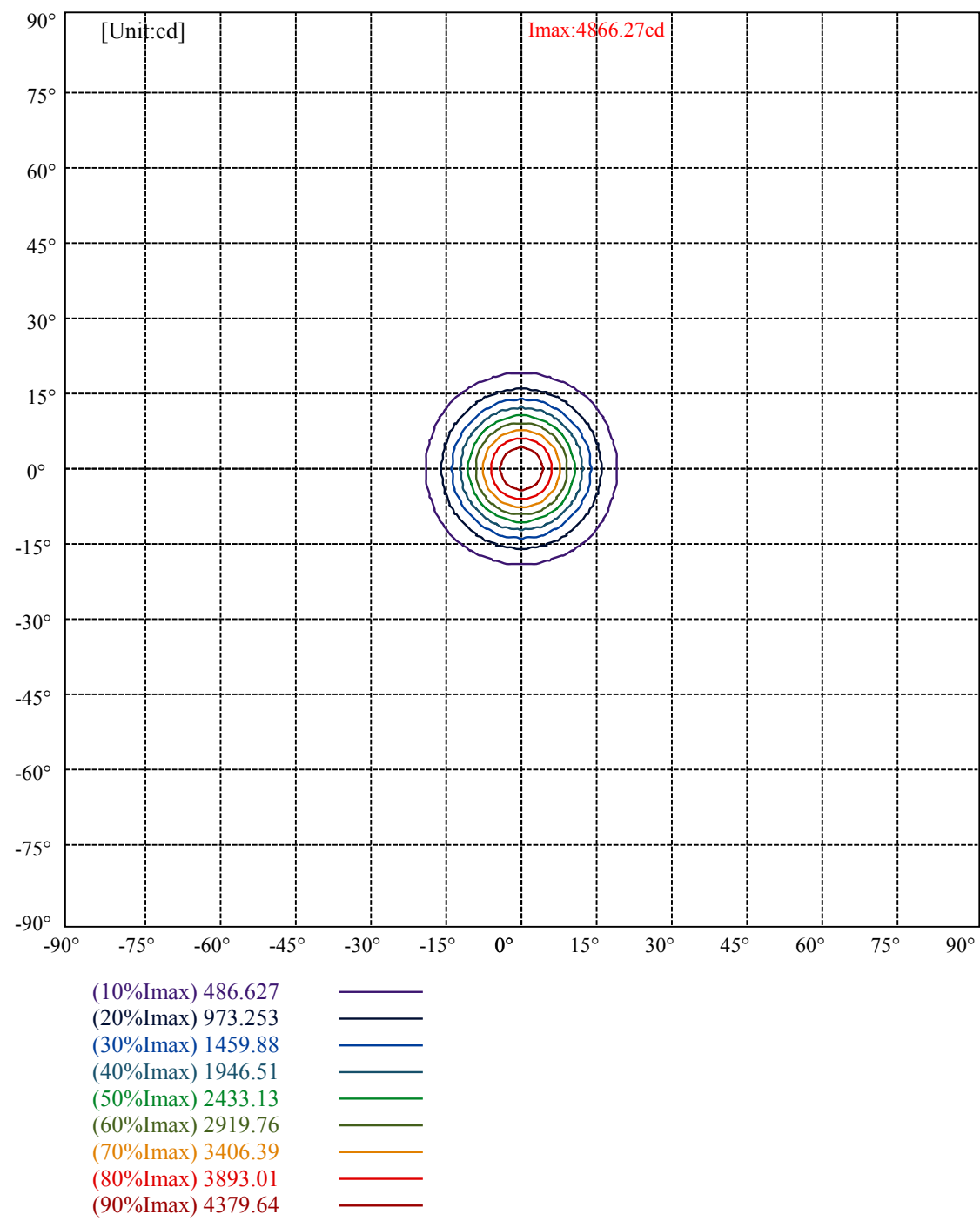
Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 20.91



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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	4029	3257	2223	2140	2197	2393	2980	4351	8487
C45	4029	3257	2223	2140	2197	2393	2980	4351	8487
C90	4029	3257	2223	2140	2197	2393	2980	4351	8487

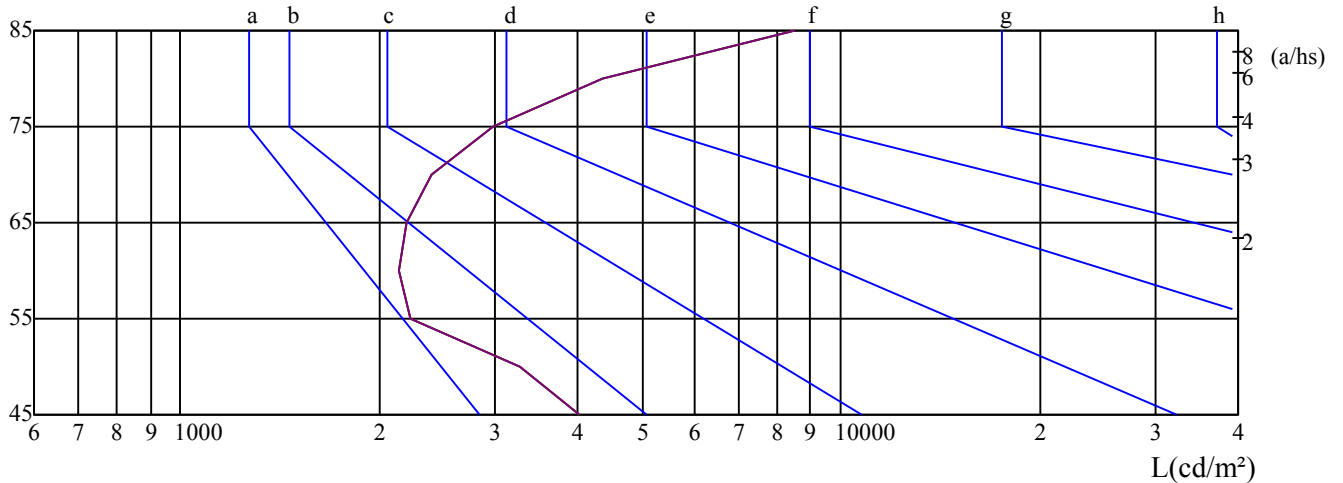
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2197	2197	2197	2980	2980	2980	8487	8487	8487

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: 20/09/2024
Humidity(%): 55.0%

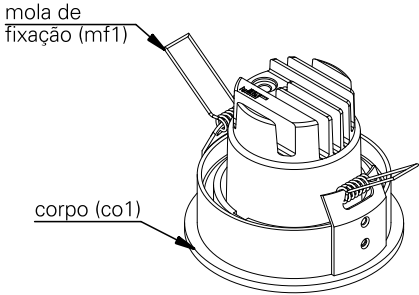
Operator: 01
Distance(m): 6.90

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	6.36	7.27	6.72	7.58	7.90	6.36	7.27	6.72	7.58	7.90
	3H	7.38	8.19	7.77	8.53	8.88	7.38	8.19	7.77	8.53	8.88
	4H	8.15	8.91	8.56	9.26	9.63	8.15	8.91	8.56	9.26	9.63
	6H	9.33	10.01	9.75	10.39	10.79	9.33	10.01	9.75	10.39	10.79
	8H	10.10	10.75	10.52	11.14	11.55	10.10	10.75	10.52	11.14	11.55
	12H	11.04	11.66	11.47	12.06	12.48	11.04	11.66	11.47	12.06	12.48
4H	2H	6.55	7.30	6.95	7.66	8.02	6.55	7.30	6.95	7.66	8.02
	3H	7.86	8.49	8.29	8.89	9.30	7.86	8.49	8.29	8.89	9.30
	4H	8.94	9.48	9.38	9.91	10.36	8.94	9.48	9.38	9.91	10.36
	6H	10.38	10.86	10.85	11.31	11.76	10.38	10.86	10.85	11.31	11.76
	8H	11.34	11.78	11.82	12.24	12.72	11.34	11.78	11.82	12.24	12.72
	12H	12.48	12.89	12.98	13.35	13.87	12.48	12.89	12.98	13.35	13.87
8H	4H	9.36	9.80	9.84	10.26	10.73	9.36	9.80	9.84	10.26	10.73
	6H	11.12	11.48	11.63	11.96	12.48	11.12	11.48	11.63	11.96	12.48
	8H	12.34	12.64	12.88	13.17	13.66	12.34	12.64	12.88	13.17	13.66
	12H	13.74	13.97	14.29	14.49	15.01	13.74	13.97	14.29	14.49	15.01
12H	4H	9.49	9.90	9.98	10.35	10.88	9.49	9.90	9.98	10.35	10.88
	6H	11.43	11.73	11.96	12.25	12.75	11.43	11.73	11.96	12.25	12.75
	8H	12.73	12.95	13.27	13.47	14.00	12.73	12.95	13.27	13.47	14.00
Variation with the observer position at spacings:											
S = 1.0H		1.4/-1.2					1.4/-1.2				
S = 1.5H		1.6/-1.3					1.6/-1.3				
S = 2.0H		1.9/-1.2					1.9/-1.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.4					-4.4				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

focus

focus sm r cob série 2 e	nicho Ø96mm
focus sm r série 3 e	Ø96mm
focus sm r-d série 2 e	Ø96mm
focus sm r bath série 3 e	Ø96mm
focus sm r e tr	Ø96mm
focus sm r dtw e	Ø96mm



especificações técnicas
fonte de luz módulo led integrado (incluso)
índice de proteção IP20 - luminária para uso interno

peso
focus sm r cob série 2 e - 0,6 kg
focus sm r série 2 e - 0,5 kg
focus sm r-d série 2 e - 0,5 kg
focus sm r bath série 2 e - 0,4 kg
focus sm r e tr - 0,5 kg
focus sm r dtw 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
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.

atenção

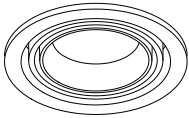
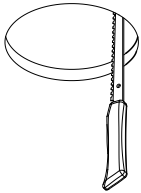
leia atentamente todas as instruções relacionadas ao seu produto antes de utilizá-lo.

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

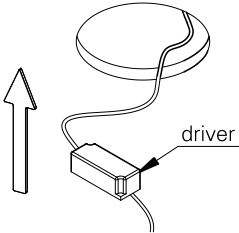
não são permitidas modificações no produto, esse deve atender à finalidade para a qual foi projetado e ser utilizado de acordo com as especificações técnicas.

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

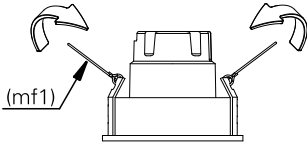
1. faça um nicho no forro conforme o modelo do produto na tabela.



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 as versões tr.



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



4. segurando as molas de fixação, encaixe o corpo (co1) no nicho.

