



led line perfil e

sistema de iluminação em led para prateleiras, sancas e detalhes de arquitetura e marcenaria.

informações técnicas

fonte de luz
LED integrado

IRC
alto índice de reprodução de cor (irc>90 | r9>60)

vida útil
30.000h/50.000h

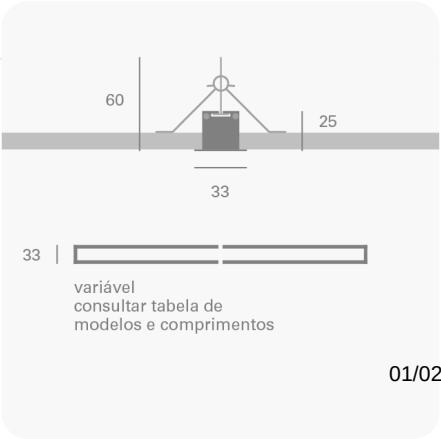
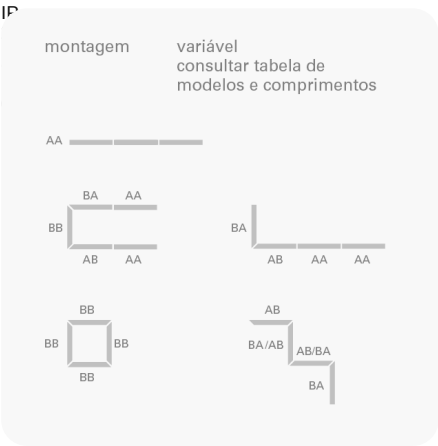
potência (W), fecho, temperatura de cor (K),
fluxo nominal (lm nominal), fluxo útil (lm útil)

W		K	lm nominal	lm útil
5W/m	difuso	2500		
5W/m	difuso	2700		
5W/m	difuso	3000	558 lm/m	330 lm/m
5W/m ip65	difuso	3000	544 lm/m	321 lm/m
9W/m	difuso	2700		
9W/m	difuso	3000	910 lm/m	475 lm/m
15W/m	difuso	2500		
15W/m	difuso	2700		
15W/m	difuso	3000	1414 lm/m	828 lm/m
15W/m ip65	difuso	3000	1344 lm/m	796 lm/m
24W/m	difuso	2700		
24W/m	difuso	3000	2156 lm/m	1298 lm/m
25W/m	difuso	2500		
25W/m	difuso	2700		
25W/m	difuso	3000	3496 lm/m	2111 lm/m
25W/m	difuso	4000		

equipamentos
LED driver 700mA (incluso, ponto remoto)
LED line driver 12V (incluso, ponto remoto)
LED line driver 24V (incluso, ponto remoto)

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

instalação
forro de gesso
marcenaria



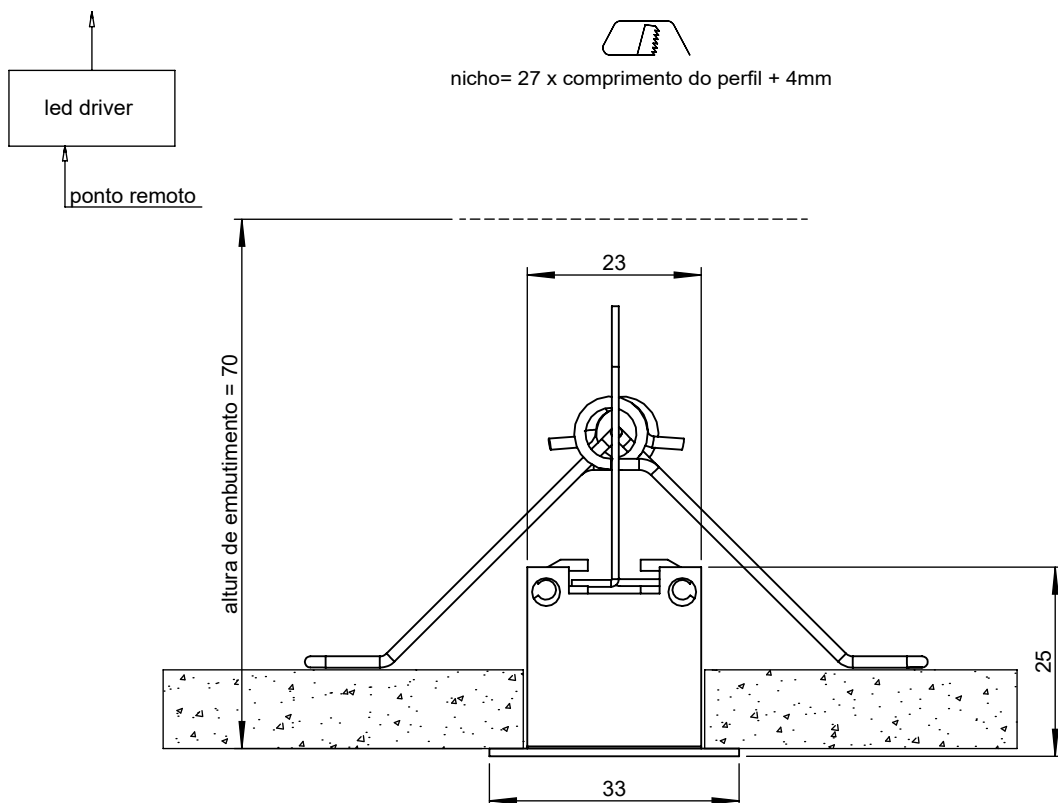
acabamentos e cores

cores



vista lateral

dimensões em milímetros



led line perfil e mp

folha
1/1

escala
1:1

data
20/03/2025

desenhista
joao ferreira

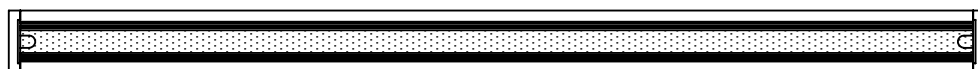
aprovação
edmilson

revisões
21/03/2025

vista inferior

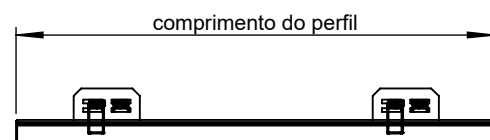
dimensões em milímetros

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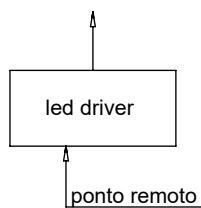
1:4

DESCRIÇÃO	C(mm)	potência W/m
LED LINE PERFIL E MP 0,50M	504	12,6W
LED LINE PERFIL E MP 0,75M	754	18,9W
LED LINE PERFIL E MP 1.00M	1004	25W
LED LINE PERFIL E MP 1.25M	1254	31,5W
LED LINE PERFIL E MP 1.50M	1504	37,8W



vista lateral

dimensões em milímetros



nicho= 27 x comprimento do perfil + 4mm

led line perfil e lp

folha
1/4

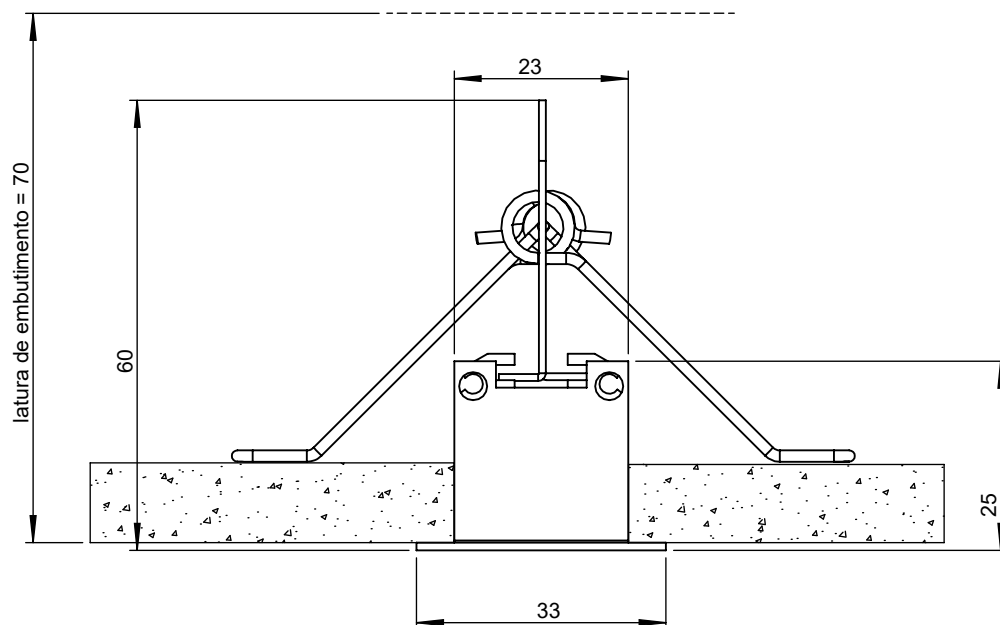
escala
1:1

data
24/03/2025

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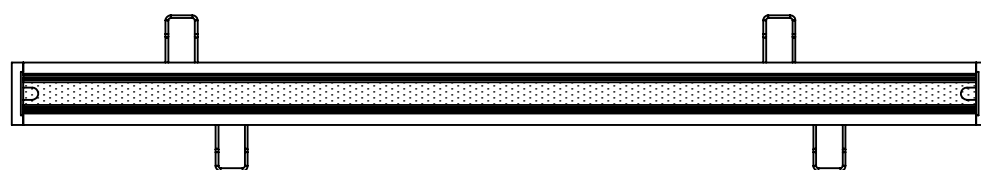
revisões
24/03/2025



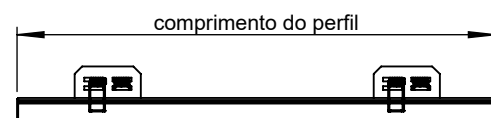
vista inferior

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1:4



led line perfil e lp

folha
2/4

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1:1

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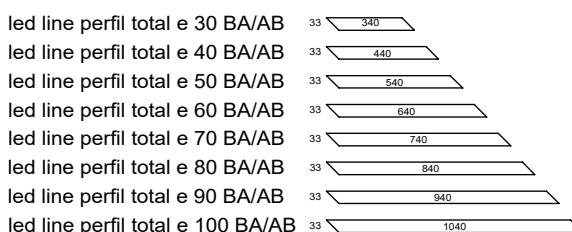
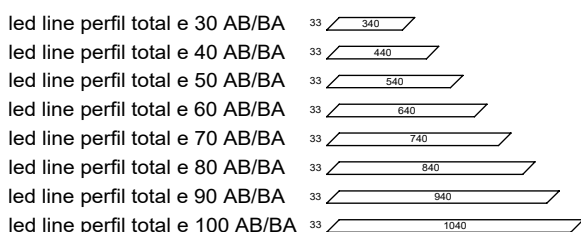
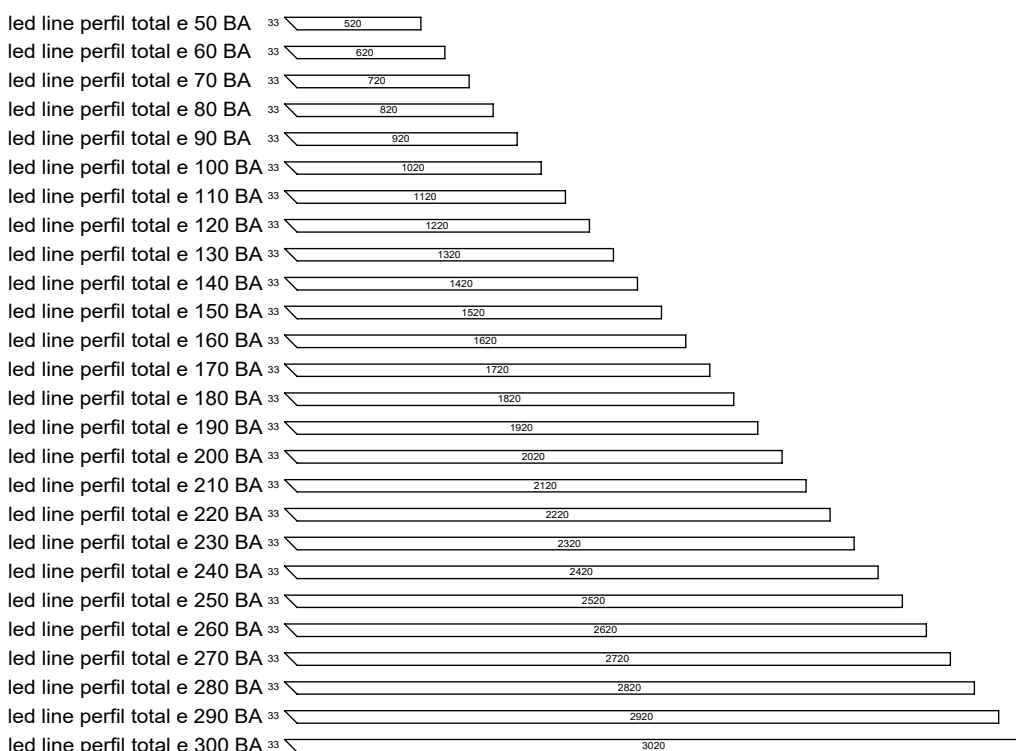
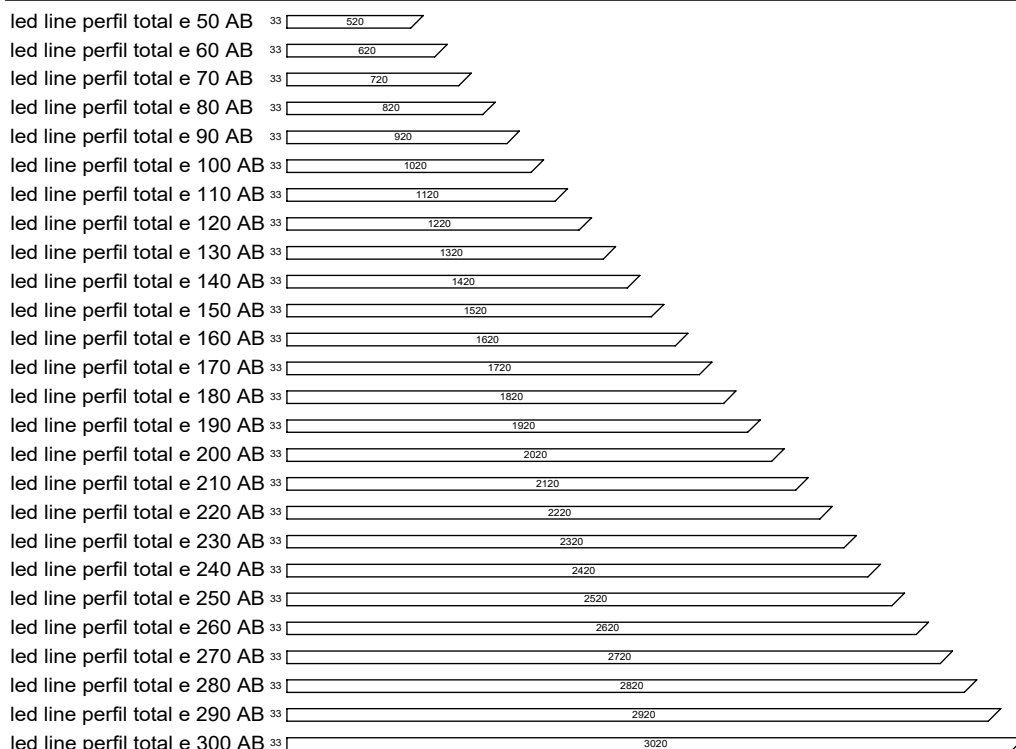
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DESCRIÇÃO	12v		24v		comprimento perfil AA
	5w/m	15w/m	9w/m	24w/m	
LED LINE PERFIL 50	2,5W	7,5W	4,5W	12W	500mm
LED LINE PERFIL 55	2,75W	8,25W	-----	-----	550mm
LED LINE PERFIL 60	3,0W	9,0W	5,4W	14,4W	600mm
LED LINE PERFIL 65	3,25W	9,25W	-----	-----	650mm
LED LINE PERFIL 70	3,5W	10,5W	6,3W	16,8W	700mm
LED LINE PERFIL 75	3,75W	11,25W	-----	-----	750mm
LED LINE PERFIL 80	4W	12W	7,2W	19,2W	800mm
LED LINE PERFIL 85	4,25W	12,75W	-----	-----	850mm
LED LINE PERFIL 90	4,5W	13,5W	8,1W	21,6W	900mm
LED LINE PERFIL 95	4,75W	14,25W	-----	-----	950mm
LED LINE PERFIL 100	5W	15W	9W	2,4W	1000mm
LED LINE PERFIL 105	5,25W	15,75W	-----	-----	1050mm
LED LINE PERFIL 110	5,5W	16,5W	9,9W	26,4W	1100mm
LED LINE PERFIL 115	5,75W	17,25W	-----	-----	1150mm
LED LINE PERFIL 120	6W	18W	10,08W	28,8W	1200mm
LED LINE PERFIL 125	6,25W	18,75W	-----	-----	1250mm
LED LINE PERFIL 130	6,5W	19,5W	11,7W	31,2W	1300mm
LED LINE PERFIL 135	6,75W	20,25W	-----	-----	1350mm
LED LINE PERFIL 140	7W	21W	12,6W	33,6W	1400mm
LED LINE PERFIL 145	7,25W	21,75W	-----	-----	1450mm
LED LINE PERFIL 150	7,5W	22,5W	13,50W	36W	1500mm
LED LINE PERFIL 155	7,75W	23,25W	-----	-----	1550mm
LED LINE PERFIL 160	8W	24W	14,4W	38,4W	1600mm
LED LINE PERFIL 165	8,25W	24,75W	-----	-----	1650mm
LED LINE PERFIL 170	8,5W	25,5W	15,3W	40,8W	1700mm
LED LINE PERFIL 175	8,75W	26,25W	-----	-----	1750mm
LED LINE PERFIL 180	9W	27W	16,2W	43,2W	1800mm
LED LINE PERFIL 185	9,25W	27,75W	-----	-----	1850mm
LED LINE PERFIL 190	9,5W	28,5W	17,1W	45,6W	1900mm
LED LINE PERFIL 195	9,75W	29,25W	-----	-----	1950mm
LED LINE PERFIL 200	10W	30W	18W	48W	2000mm
LED LINE PERFIL 205	10,25W	30,75W	-----	-----	2050mm
LED LINE PERFIL 210	10,5W	31,5W	18,9W	50,4W	2100mm
LED LINE PERFIL 215	10,75W	32,25W	-----	-----	2150mm
LED LINE PERFIL 220	11W	33W	19,8W	52,8W	2200mm
LED LINE PERFIL 225	11,25W	33,75W	-----	-----	2250mm
LED LINE PERFIL 230	11,5W	34,5W	20,7W	55,2W	2300mm
LED LINE PERFIL 235	11,75W	35,25W	-----	-----	2350mm
LED LINE PERFIL 240	12W	36W	21,6W	57,6W	2400mm
LED LINE PERFIL 245	12,25W	36,75W	-----	-----	2450mm
LED LINE PERFIL 250	12,5W	37,5W	22,5W	60W	2500mm
LED LINE PERFIL 255	12,75W	38,25W	-----	-----	2550mm
LED LINE PERFIL 260	13W	39W	23,4W	62,4W	2600mm
LED LINE PERFIL 265	13,25W	39,75W	-----	-----	2650mm
LED LINE PERFIL 270	13,5W	40,5W	24,3W	64,8W	2700mm
LED LINE PERFIL 275	13,75W	41,25W	-----	-----	2750mm
LED LINE PERFIL 280	14W	42W	25,2W	67,2W	2800mm
LED LINE PERFIL 285	14,25W	42,75W	-----	-----	2850mm
LED LINE PERFIL 290	14,5W	43,5W	26,1W	69,6W	2900mm
LED LINE PERFIL 2950	14,75W	44,25W	-----	-----	2950mm
LED LINE PERFIL 3000	15W	45W	27W	72W	3000mm

perfis

vista superior



led line perfil e lp

folha
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1:1

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aprovação

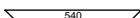
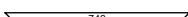
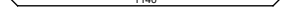
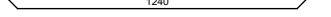
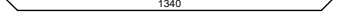
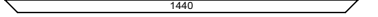
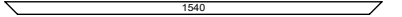
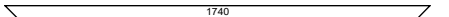
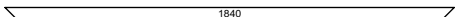
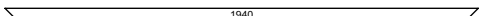
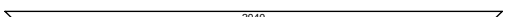
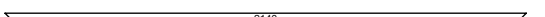
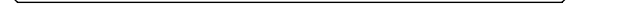
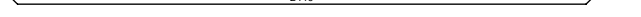
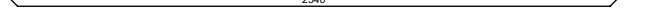
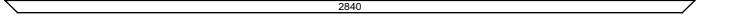
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perfis

vista superior

led line perfil total e 30 BB	33	
led line perfil total e 40 BB	33	
led line perfil total e 50 BB	33	
led line perfil total e 60 BB	33	
led line perfil total e 70 BB	33	
led line perfil total e 80 BB	33	
led line perfil total e 90 BB	33	
led line perfil total e 100 BB	33	
led line perfil total e 110 BB	33	
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led line perfil e lp

folha

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1:1

data

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aprovação

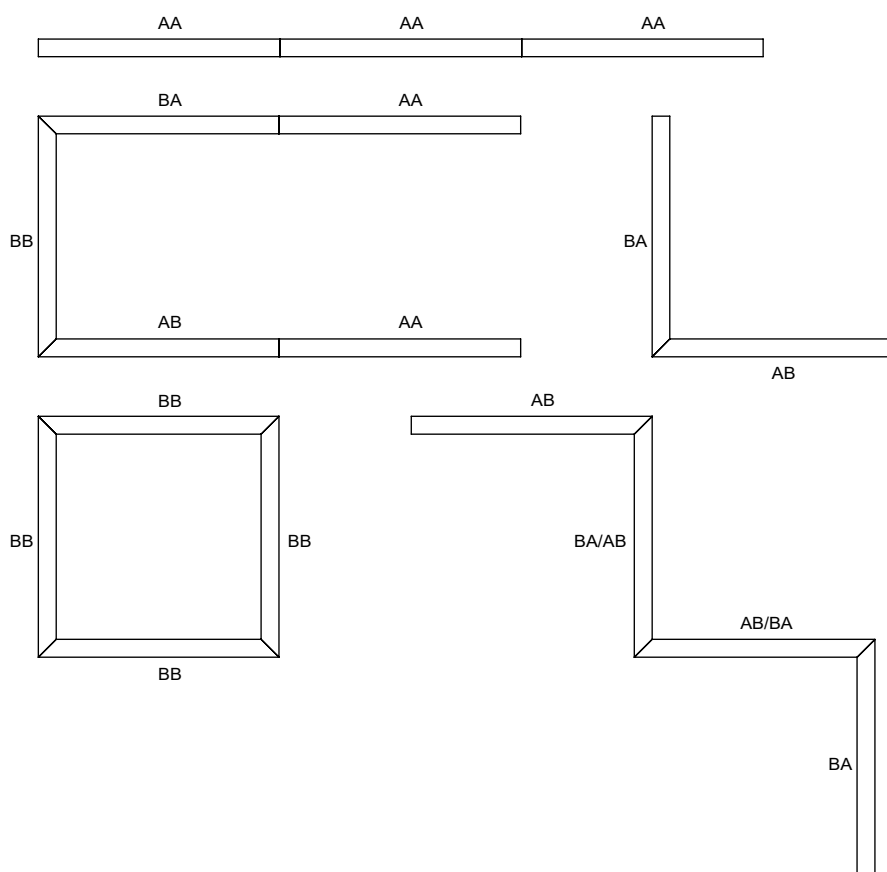
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LumCAT:

Luminaire: led line perfil e mp 12.5W (com difusor)

LampCAT: modulo led 25W/m 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 122.3000

Test No:

Current(A): 0.1020

Number of Lamps: 1

Power (W): 12.4750

Lamp flux(lm): 1748.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1055.46, Efficiency(%): 60.38% , Luminous Efficacy(lm/W): 84.61

Central intensity(cd): 379.761, Maximum intensity(cd): 379.785

Angle of maximum intensity: C=0.0 γ =1.0

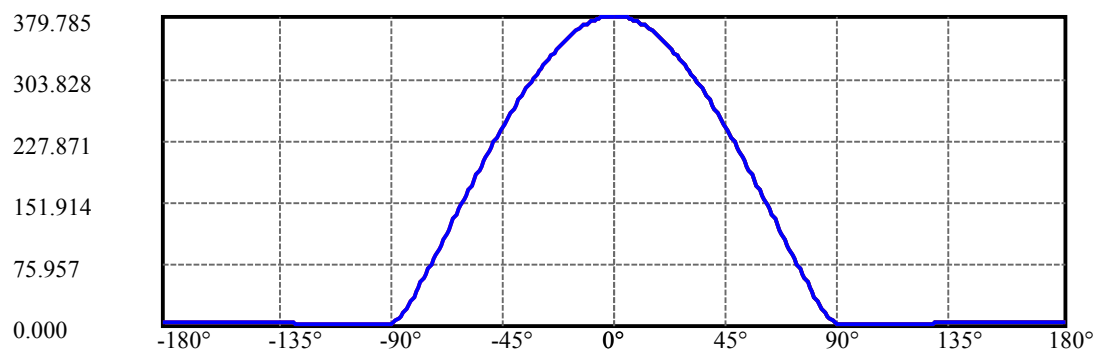
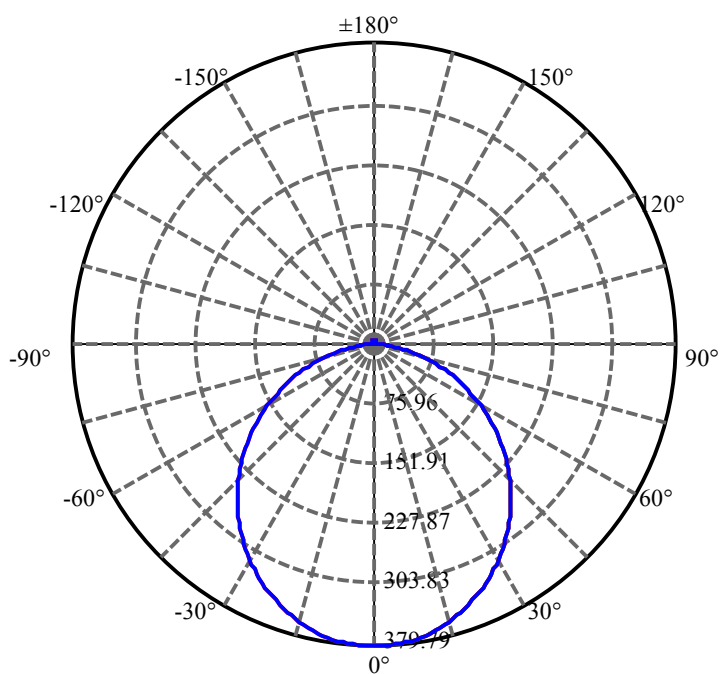
Beam angle of C0 plane : 108.42

Aveage BeamAngle(IEC 61341):108.42

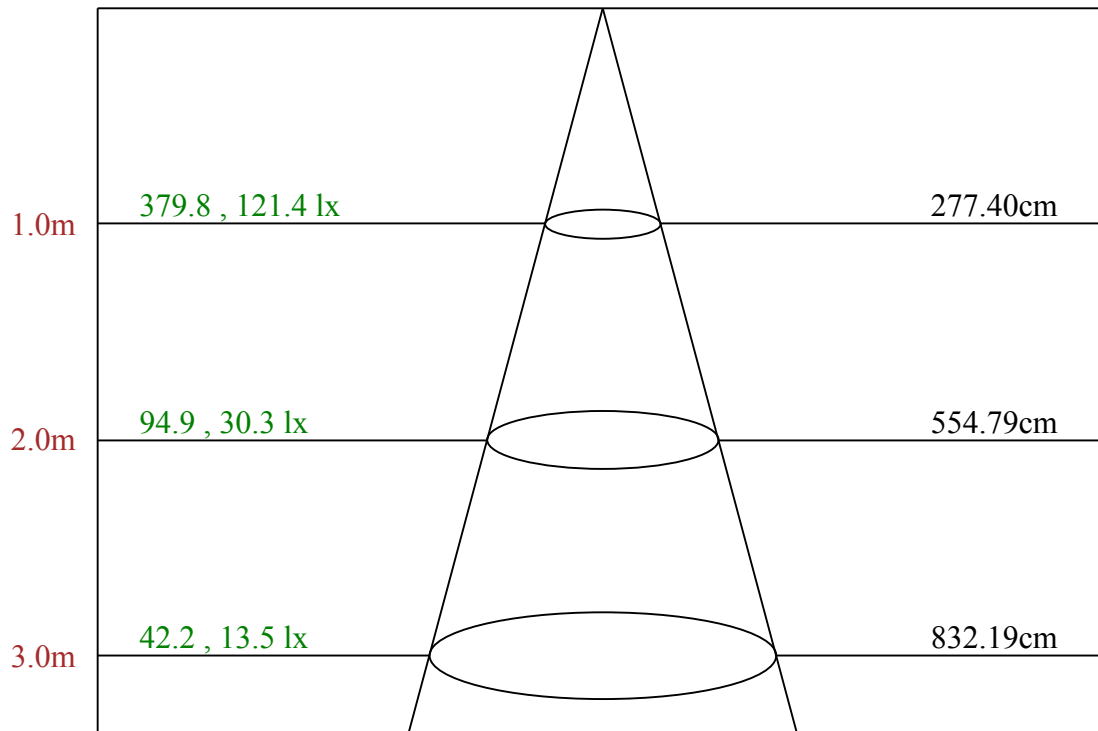
Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 28/01/2025
Humidity(%): 62.0%

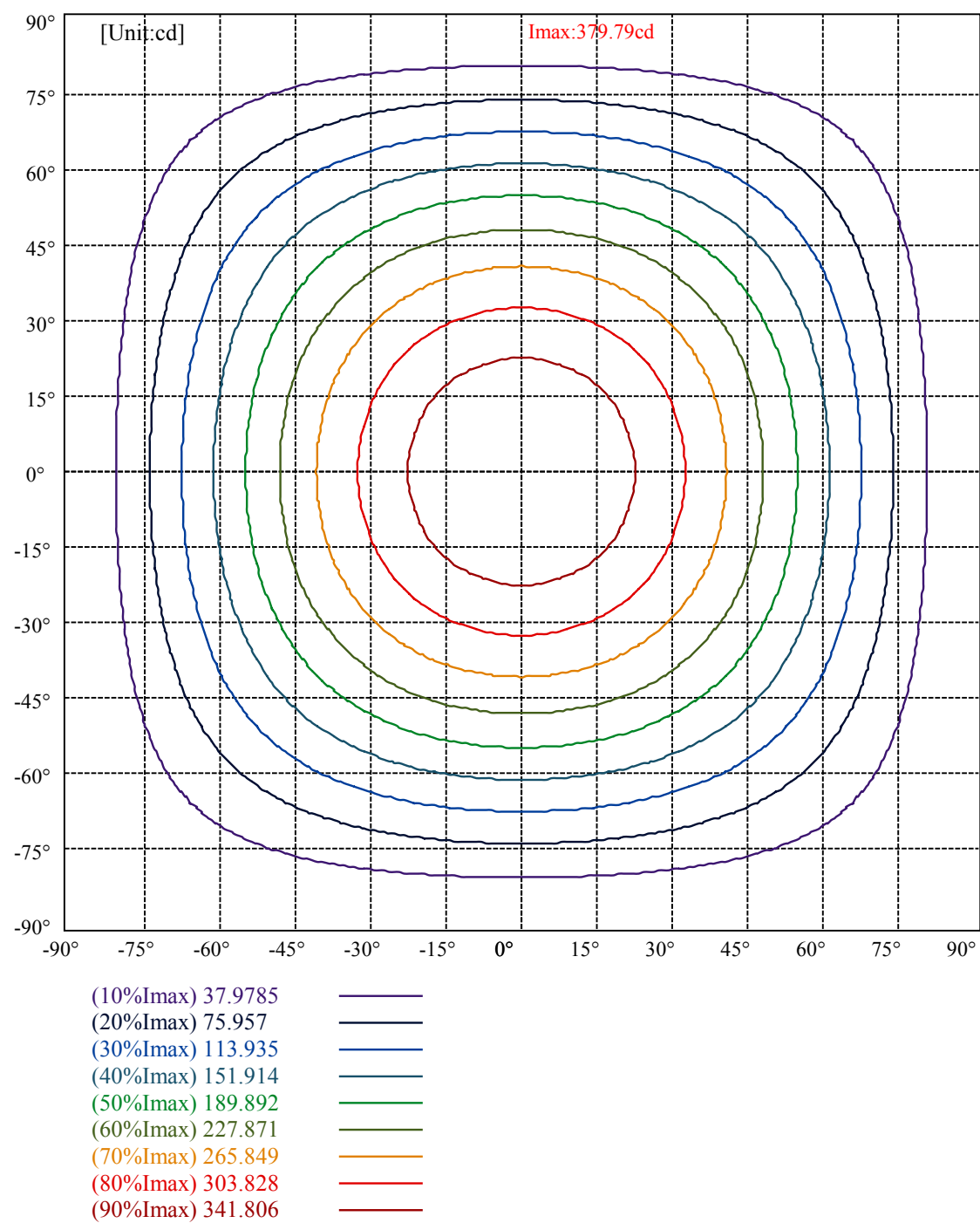
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 108.42



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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	32506	31728	30773	29610	28138	26172	23684	19969	14027
C45	32506	31728	30773	29610	28138	26172	23684	19969	14027
C90	32506	31728	30773	29610	28138	26172	23684	19969	14027

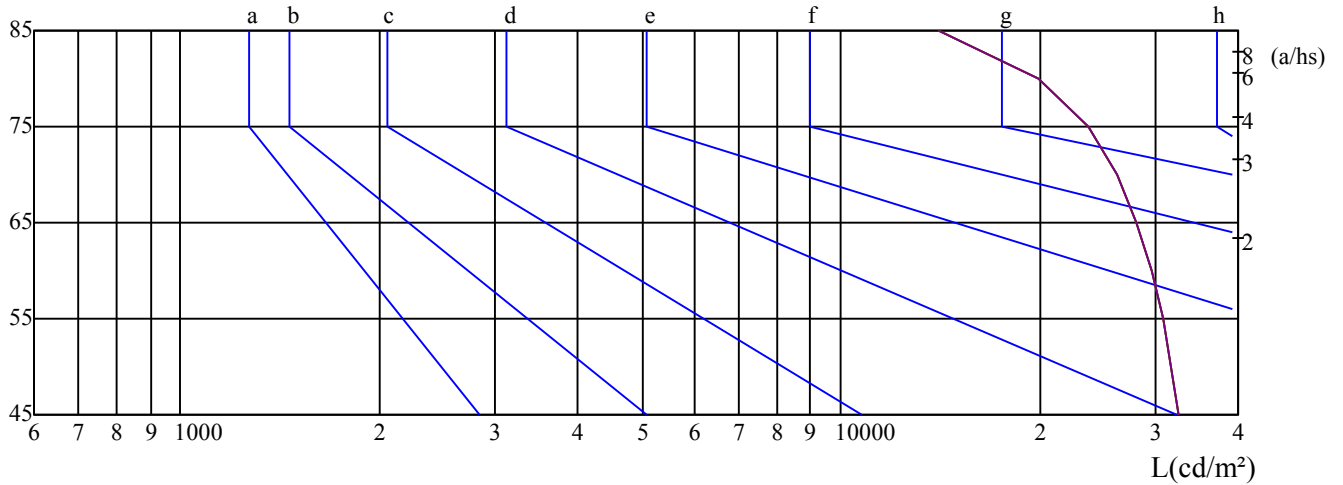
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
28138	28138	28138	23684	23684	23684	14027	14027	14027

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: 28/01/2025
Humidity(%): 62.0%

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	24.05	25.63	24.44	25.99	26.35	24.56	26.14	24.95	26.50	26.86
	3H	25.59	27.02	26.01	27.40	27.80	26.28	27.70	26.69	28.09	28.48
	4H	26.12	27.46	26.54	27.85	28.26	26.91	28.25	27.33	28.64	29.06
	6H	26.48	27.72	26.91	28.13	28.57	27.40	28.65	27.83	29.05	29.49
	8H	26.53	27.74	26.98	28.15	28.60	27.52	28.73	27.97	29.14	29.59
	12H	26.53	27.69	26.98	28.11	28.57	27.59	28.74	28.03	29.17	29.62
4H	2H	24.82	26.17	25.25	26.56	26.97	25.22	26.56	25.64	26.95	27.37
	3H	26.51	27.65	26.96	28.08	28.54	27.07	28.22	27.52	28.64	29.10
	4H	27.19	28.21	27.66	28.66	29.14	27.87	28.89	28.34	29.34	29.82
	6H	27.62	28.52	28.11	29.00	29.49	28.44	29.34	28.93	29.82	30.31
	8H	27.74	28.58	28.24	29.06	29.57	28.64	29.48	29.14	29.96	30.47
	12H	27.78	28.57	28.29	29.04	29.59	28.76	29.54	29.27	30.02	30.57
8H	4H	27.49	28.34	27.99	28.82	29.33	28.10	28.94	28.60	29.43	29.93
	6H	28.04	28.74	28.56	29.25	29.79	28.78	29.49	29.31	29.99	30.54
	8H	28.27	28.88	28.81	29.42	29.96	29.10	29.72	29.64	30.26	30.79
	12H	28.34	28.86	28.89	29.41	29.96	29.28	29.80	29.83	30.34	30.89
12H	4H	27.53	28.31	28.03	28.79	29.33	28.11	28.90	28.62	29.38	29.92
	6H	28.15	28.77	28.69	29.31	29.85	28.87	29.49	29.42	30.03	30.57
	8H	28.37	28.89	28.92	29.43	29.98	29.17	29.70	29.73	30.24	30.79
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		9.8					9.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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

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LumCAT:

Luminaire: led line perfil 12V e lp 2.5W (com difusor)

LampCAT: modulo led line 5W/m 12Vdc 30K irc 90

Ballast type: led line driver 12V

Report No:

Voltage(V): 125.5000

Test No:

Current(A): 0.4200

Number of Lamps: 1

Power (W): 5.2710

Lamp flux(lm): 279.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 165.07, Efficiency(%): 59.17% , Luminous Efficacy(lm/W): 31.32

Central intensity(cd): 59.370, Maximum intensity(cd): 59.370

Angle of maximum intensity: C=0.0 γ =0.0

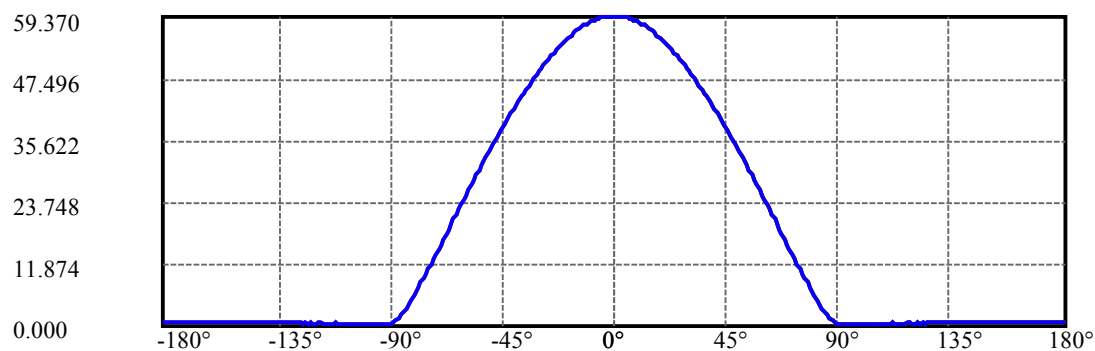
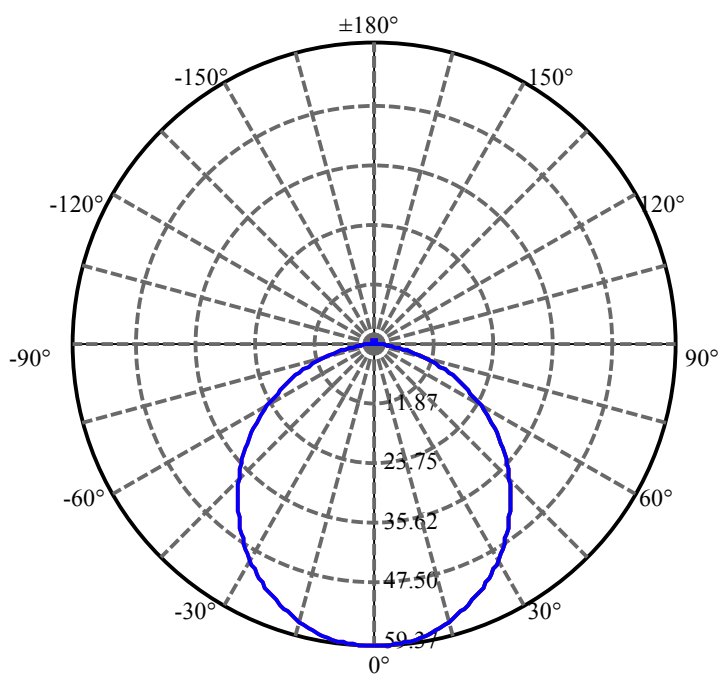
Beam angle of C0 plane : 108.29

Aveage BeamAngle(IEC 61341):108.29

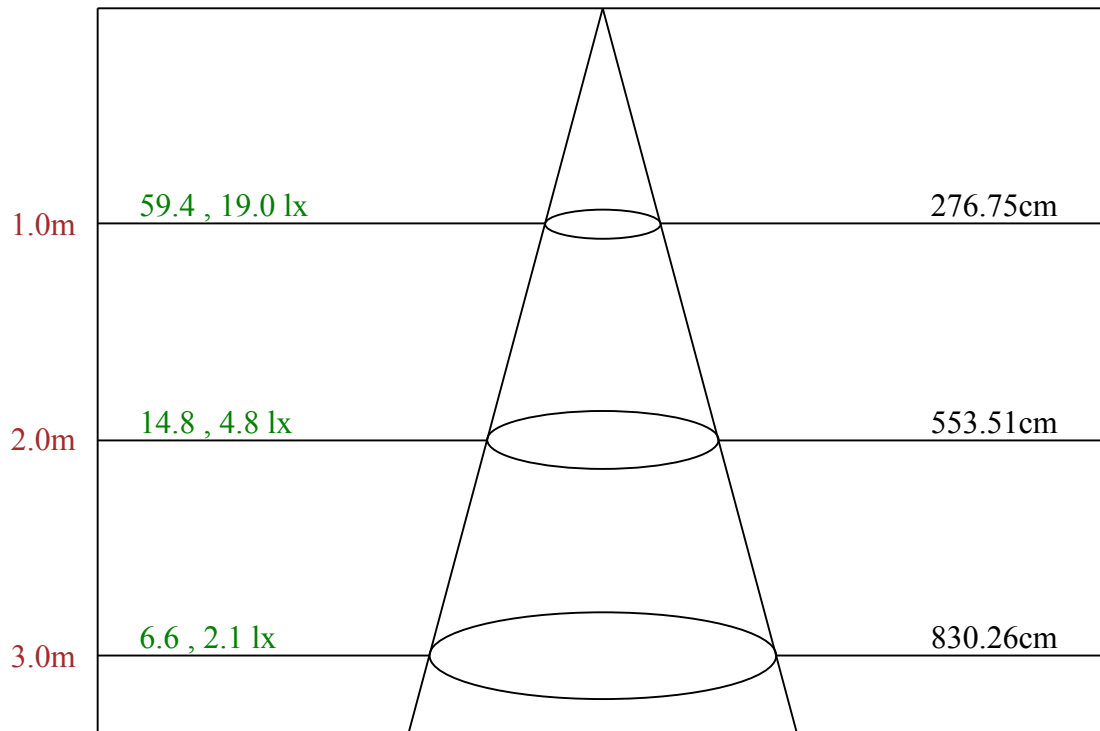
Equipment: equipamento lumini
Temperature(°C): 27.5

Date: 24/01/2025
Humidity(%): 45.0%

Operator: 01
Distance(m): 6.90

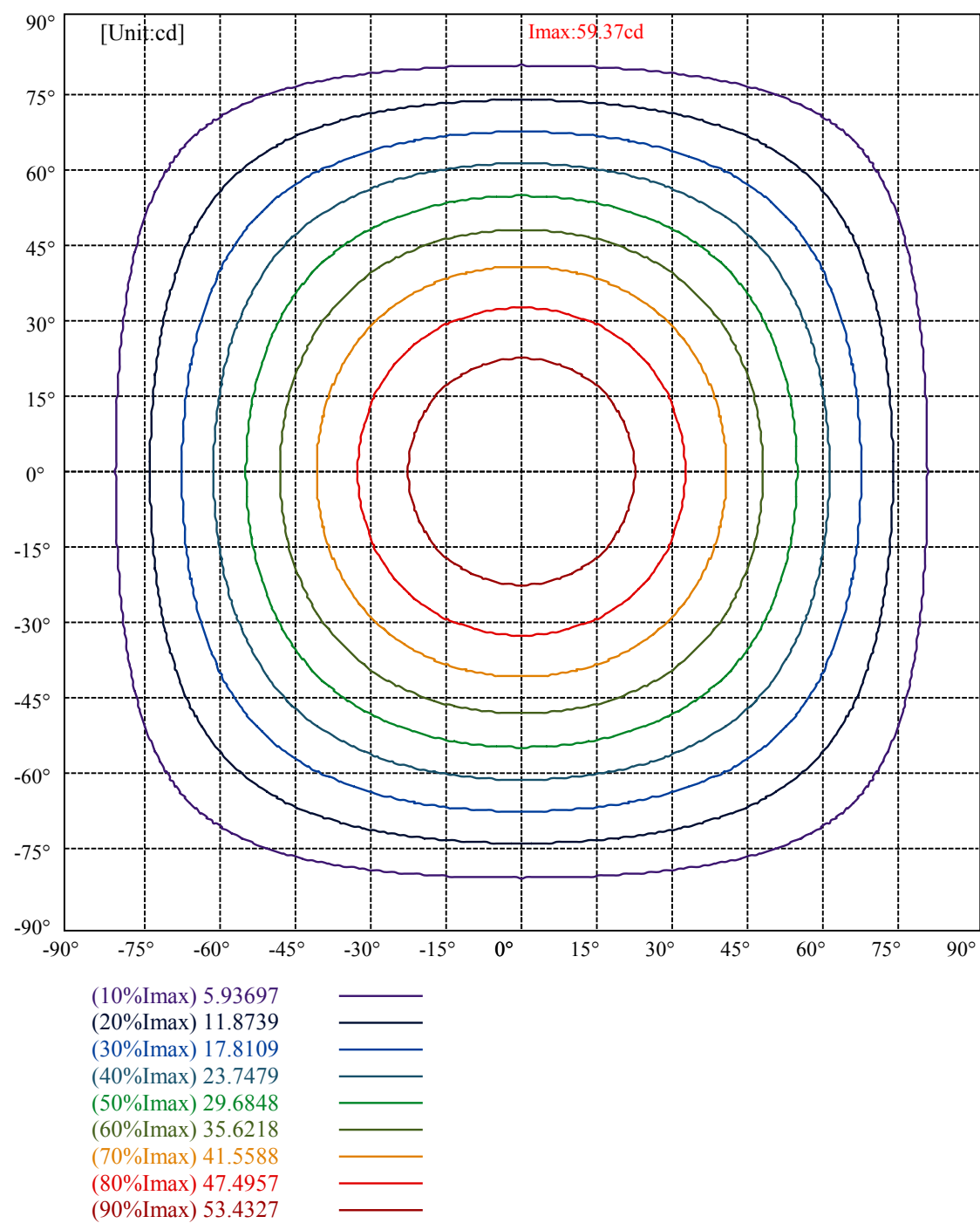


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 108.29



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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	5073	4955	4807	4623	4383	4092	3699	3166	2218
C45	5073	4955	4807	4623	4383	4092	3699	3166	2218
C90	5073	4955	4807	4623	4383	4092	3699	3166	2218

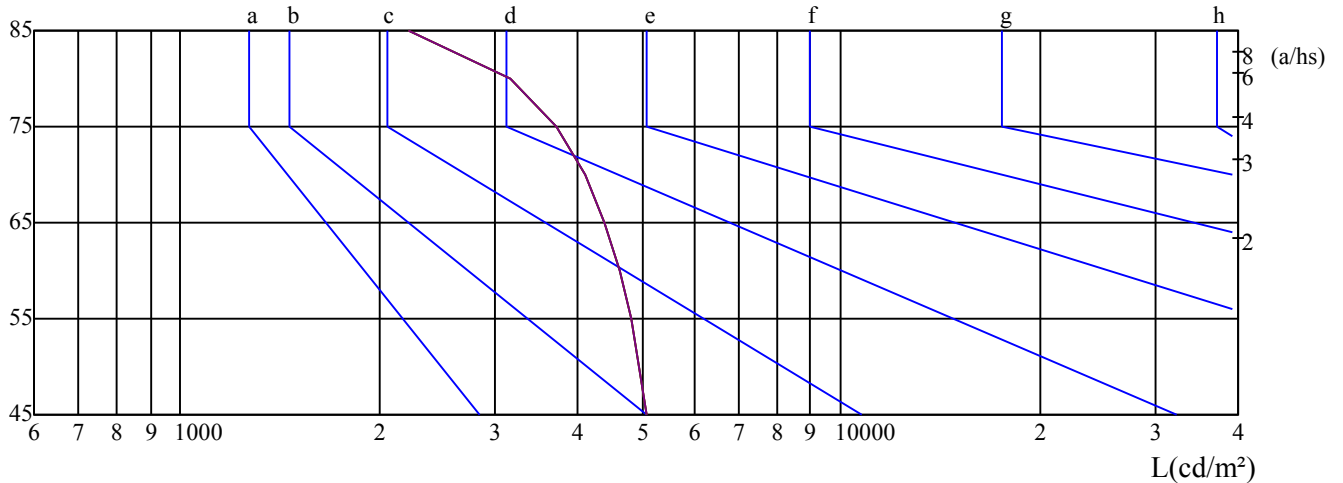
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4383	4383	4383	3699	3699	3699	2218	2218	2218

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): 27.5

Date: 24/01/2025
Humidity(%): 45.0%

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	17.74	19.32	18.14	19.68	20.05	18.00	19.57	18.39	19.93	20.30
	3H	19.31	20.74	19.73	21.12	21.52	19.64	21.07	20.06	21.45	21.84
	4H	19.87	21.21	20.30	21.61	22.02	20.23	21.57	20.65	21.96	22.38
	6H	20.28	21.53	20.72	21.94	22.38	20.64	21.89	21.08	22.30	22.74
	8H	20.36	21.56	20.80	21.98	22.43	20.74	21.94	21.18	22.36	22.81
	12H	20.37	21.52	20.82	21.95	22.41	20.77	21.93	21.22	22.35	22.81
4H	2H	18.49	19.83	18.91	20.22	20.64	18.68	20.02	19.11	20.42	20.83
	3H	20.20	21.34	20.65	21.77	22.23	20.47	21.61	20.92	22.04	22.50
	4H	20.92	21.94	21.39	22.39	22.88	21.22	22.23	21.68	22.69	23.17
	6H	21.40	22.30	21.90	22.78	23.27	21.70	22.61	22.20	23.09	23.58
	8H	21.54	22.38	22.05	22.87	23.38	21.87	22.71	22.37	23.20	23.71
	12H	21.60	22.39	22.11	22.86	23.41	21.96	22.74	22.47	23.22	23.77
8H	4H	21.21	22.05	21.71	22.53	23.04	21.47	22.31	21.97	22.79	23.30
	6H	21.81	22.51	22.33	23.01	23.56	22.07	22.78	22.60	23.28	23.83
	8H	22.05	22.67	22.60	23.21	23.75	22.35	22.97	22.89	23.51	24.05
	12H	22.15	22.67	22.71	23.22	23.77	22.48	23.01	23.04	23.55	24.11
12H	4H	21.23	22.02	21.74	22.49	23.04	21.49	22.27	22.00	22.75	23.30
	6H	21.91	22.53	22.45	23.07	23.61	22.17	22.79	22.72	23.33	23.87
	8H	22.14	22.66	22.70	23.21	23.76	22.43	22.95	22.99	23.50	24.05
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.7					0.6/-0.7				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		3.4					3.4				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V e lp 2.5W (com difusor)

LampCAT: modulo led line 5W/m 12Vdc 30K irc 90 ip65

Ballast type: led line driver 12V

Report No:

Voltage(V): 126.0000

Test No:

Current(A): 0.0420

Number of Lamps: 1

Power (W): 5.2920

Lamp flux(lm): 272.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 160.42, Efficiency(%): 58.98% , Luminous Efficacy(lm/W): 30.31

Central intensity(cd): 57.465, Maximum intensity(cd): 57.465

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

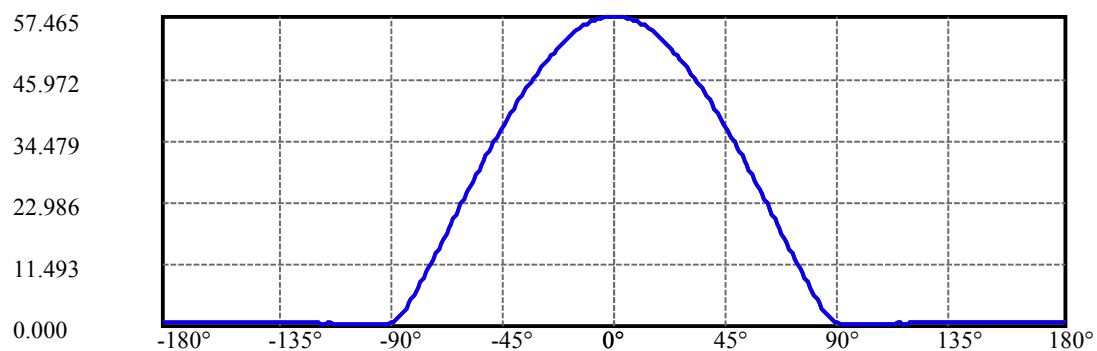
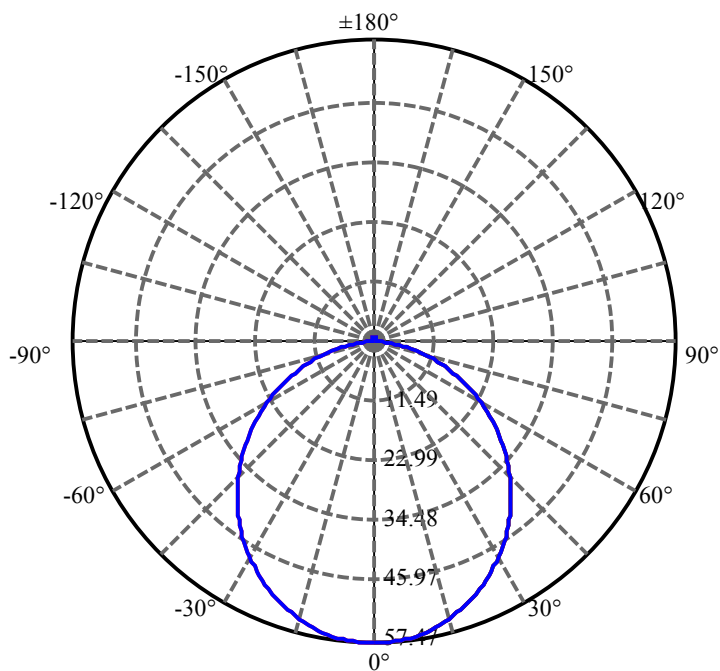
Beam angle of C0 plane : 108.42

Aveage BeamAngle(IEC 61341):108.42

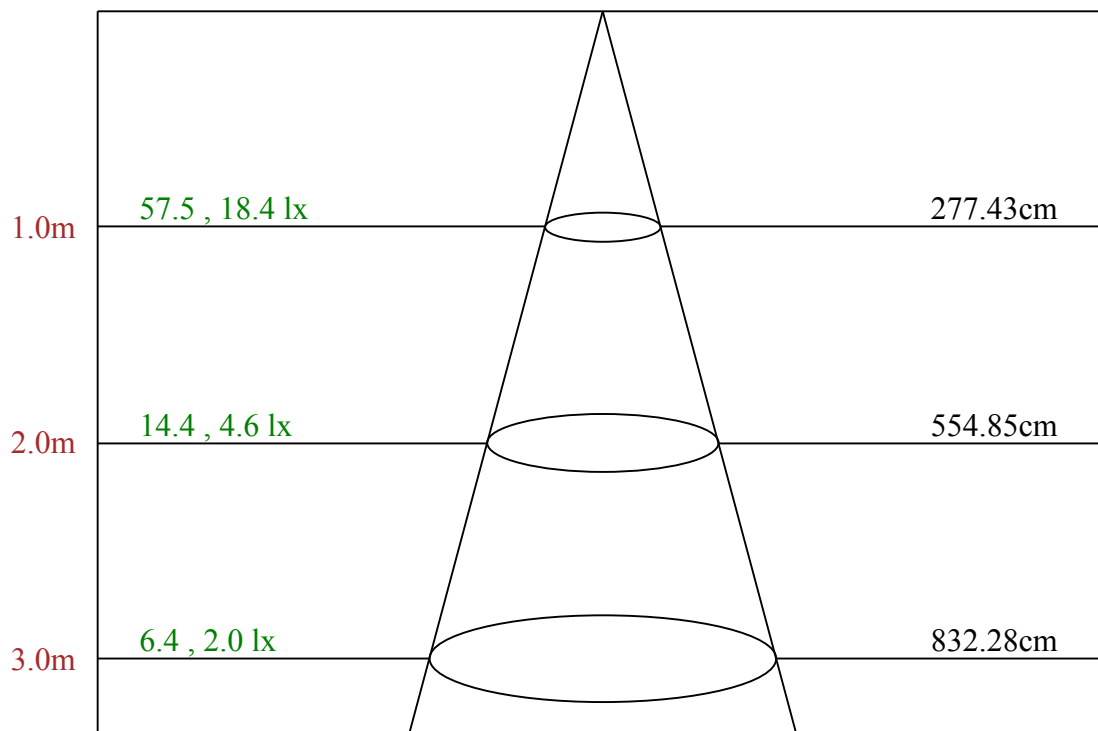
Equipment: equipamento lumini
Temperature(°C): 27.5

Date: 23/01/2025
Humidity(%): 45.0%

Operator: 01
Distance(m): 6.90

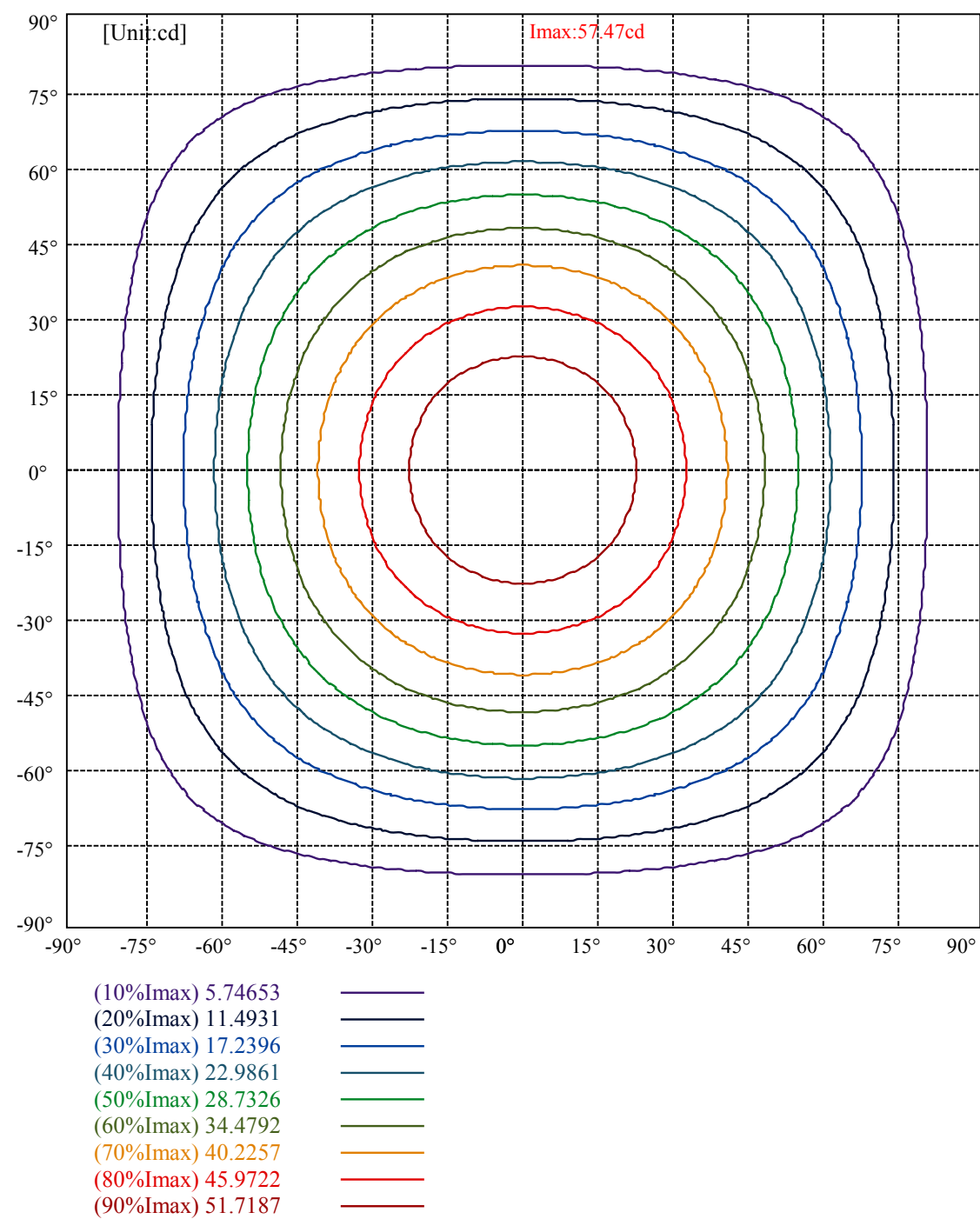


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 108.42



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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	4924	4806	4664	4510	4265	4007	3642	3042	2322
C45	4924	4806	4664	4510	4265	4007	3642	3042	2322
C90	4924	4806	4664	4510	4265	4007	3642	3042	2322

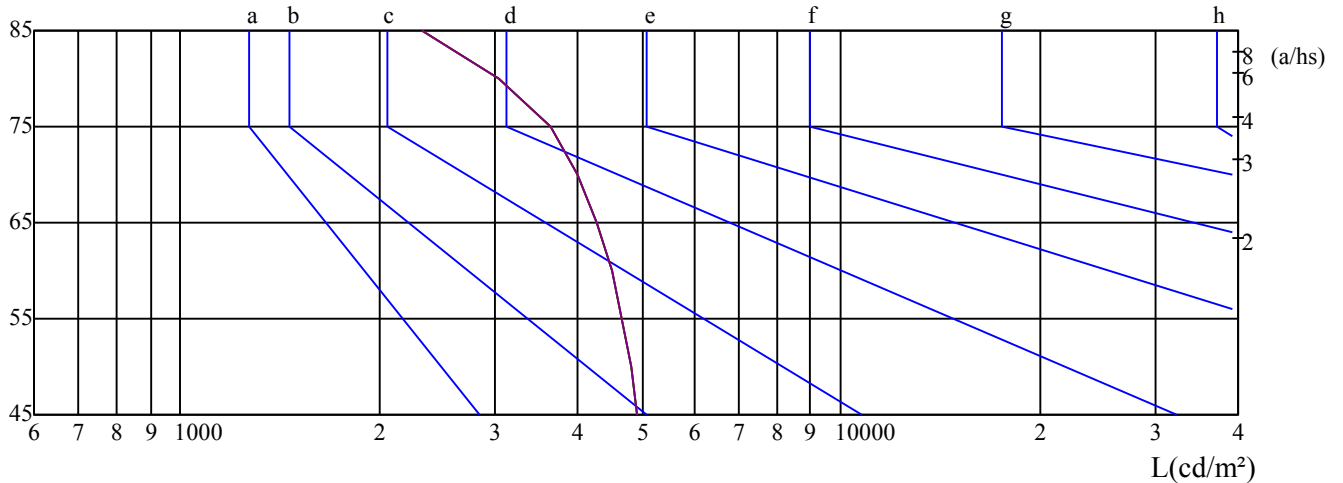
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4265	4265	4265	3642	3642	3642	2322	2322	2322

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

$\gamma(^{\circ})$



Equipment: equipamento lumini
Temperature($^{\circ}\text{C}$): 27.5

Date: 23/01/2025
Humidity(%): 45.0%

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	17.99	19.56	18.38	19.92	20.29	18.22	19.79	18.61	20.15	20.52
	3H	19.67	21.10	20.09	21.48	21.88	19.98	21.41	20.40	21.79	22.19
	4H	20.31	21.66	20.74	22.05	22.47	20.64	21.98	21.07	22.38	22.79
	6H	20.80	22.05	21.24	22.46	22.91	21.15	22.40	21.59	22.81	23.25
	8H	20.94	22.14	21.38	22.56	23.01	21.30	22.51	21.75	22.93	23.38
	12H	21.01	22.17	21.46	22.60	23.06	21.39	22.55	21.84	22.98	23.44
4H	2H	18.77	20.11	19.19	20.50	20.92	18.94	20.28	19.37	20.68	21.09
	3H	20.61	21.75	21.06	22.18	22.64	20.86	22.00	21.31	22.43	22.89
	4H	21.43	22.44	21.89	22.90	23.39	21.69	22.71	22.16	23.16	23.65
	6H	21.99	22.90	22.49	23.38	23.87	22.29	23.19	22.78	23.67	24.16
	8H	22.20	23.05	22.71	23.53	24.04	22.52	23.36	23.02	23.85	24.36
	12H	22.34	23.13	22.85	23.61	24.16	22.68	23.46	23.19	23.94	24.49
8H	4H	21.75	22.60	22.26	23.08	23.59	21.99	22.83	22.49	23.32	23.83
	6H	22.46	23.17	22.98	23.67	24.22	22.72	23.43	23.24	23.93	24.48
	8H	22.81	23.42	23.35	23.97	24.50	23.09	23.71	23.63	24.25	24.79
	12H	23.01	23.53	23.56	24.08	24.63	23.32	23.84	23.87	24.38	24.94
12H	4H	21.79	22.58	22.30	23.06	23.61	22.02	22.80	22.53	23.28	23.83
	6H	22.59	23.21	23.13	23.75	24.29	22.84	23.46	23.38	24.00	24.54
	8H	22.94	23.46	23.49	24.00	24.56	23.21	23.73	23.76	24.28	24.83
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		3.3					3.3				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V e lp 7.5W (com difusor)

LampCAT: modulo led line 15W/m 12Vdc 30K irc 90

Ballast type: led line driver 12V

Report No:

Voltage(V): 124.0000

Test No:

Current(A): 0.1040

Number of Lamps: 1

Power (W): 12.8960

Lamp flux(lm): 707.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 414.20, Efficiency(%): 58.59% , Luminous Efficacy(lm/W): 32.12

Central intensity(cd): 148.769, Maximum intensity(cd): 148.769

Angle of maximum intensity: C=0.0 γ =0.0

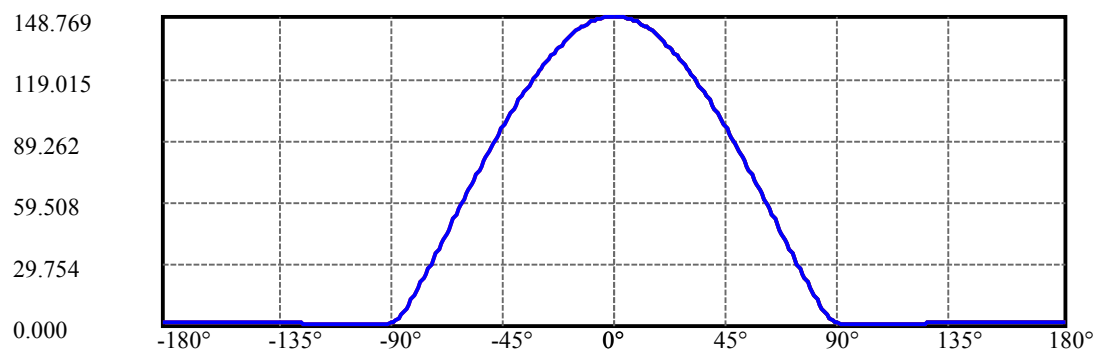
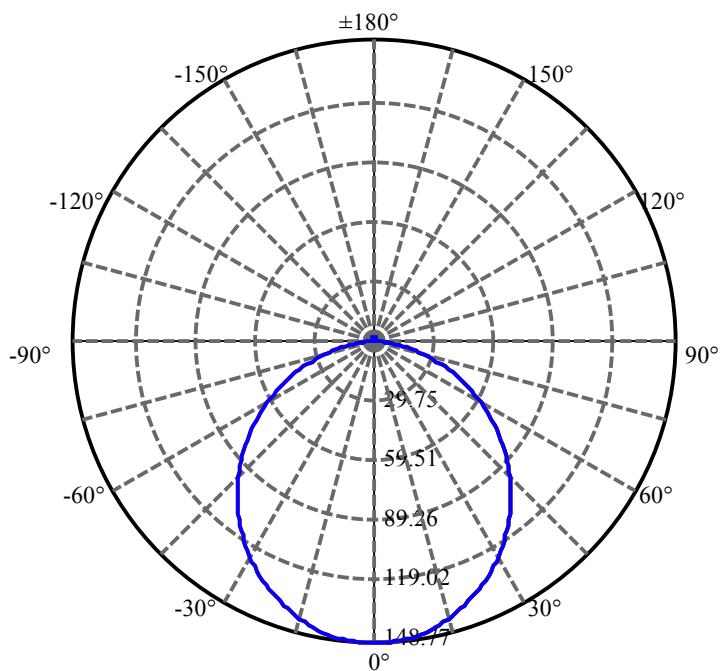
Beam angle of C0 plane : 108.46

Aveage BeamAngle(IEC 61341):108.46

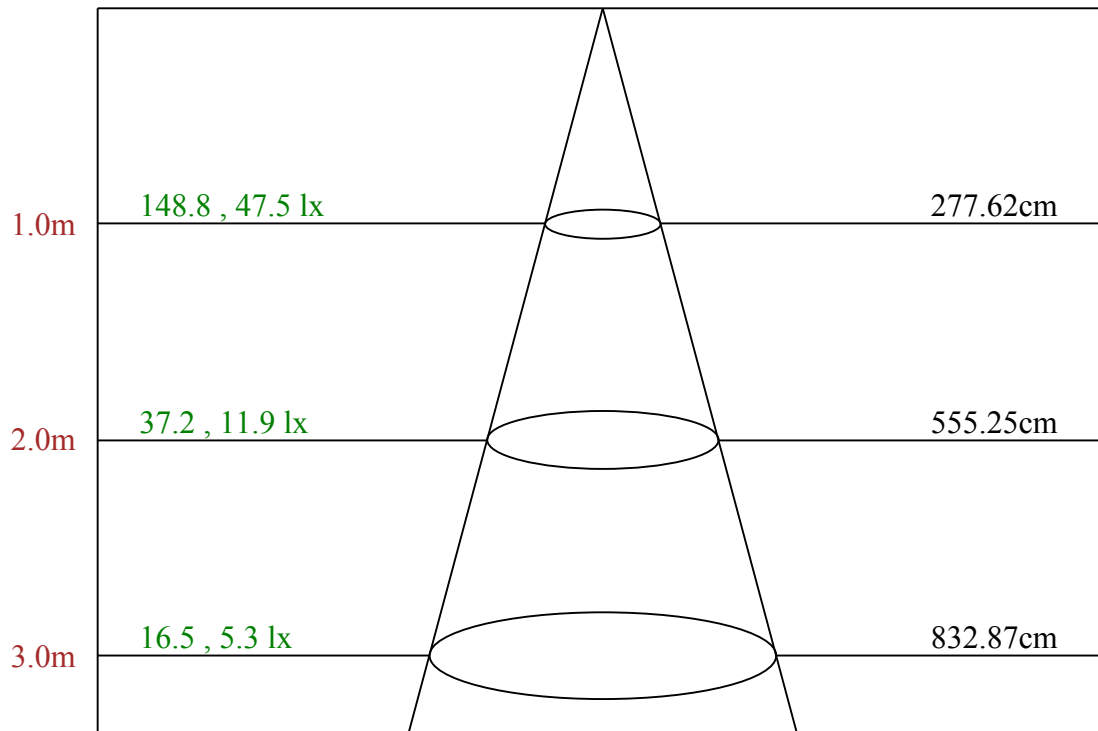
Equipment: equipamento lumini
Temperature(°C): 27.5

Date: 23/01/2025
Humidity(%): 45.0%

Operator: 01
Distance(m): 6.90

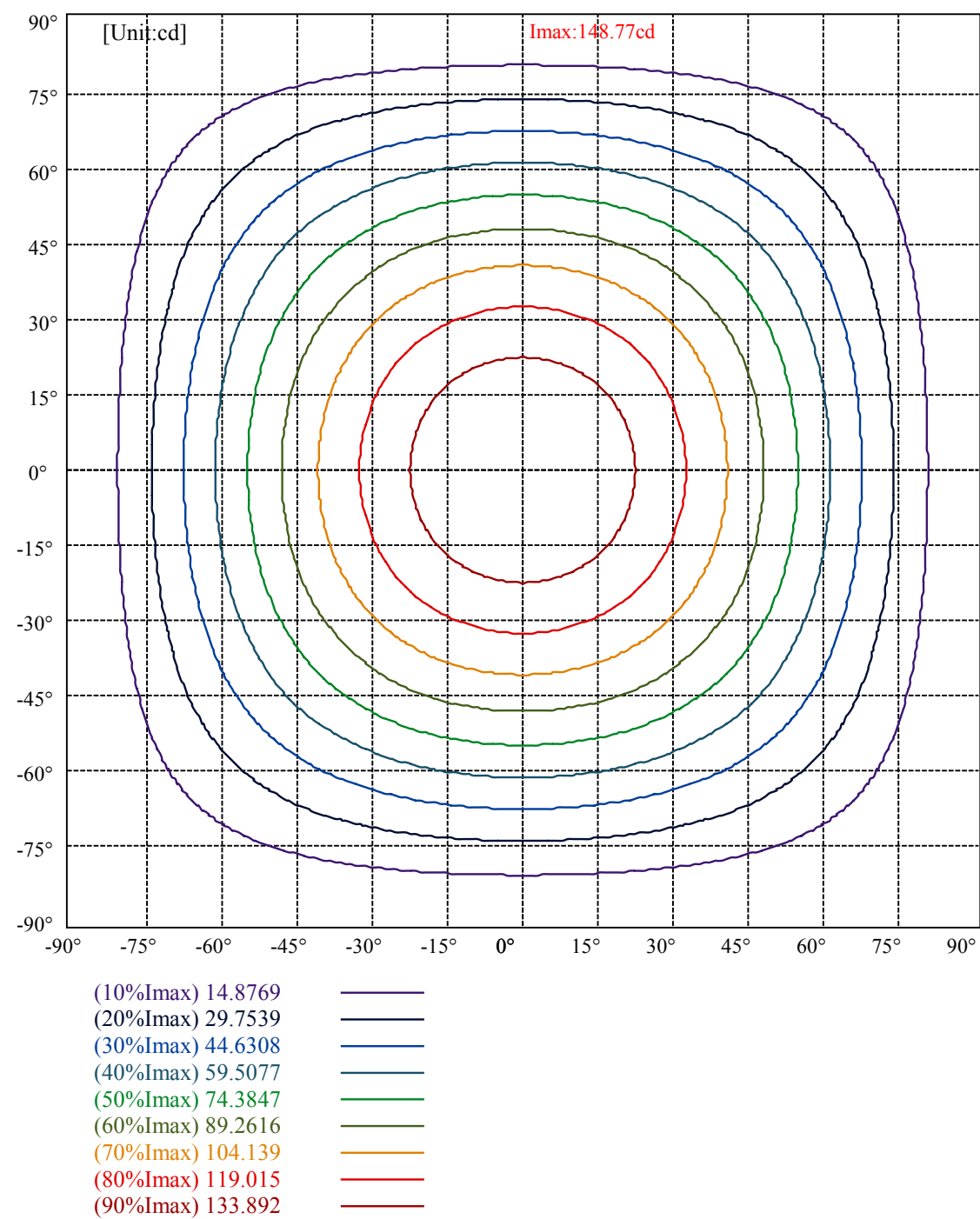


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 108.46



Luminance Table

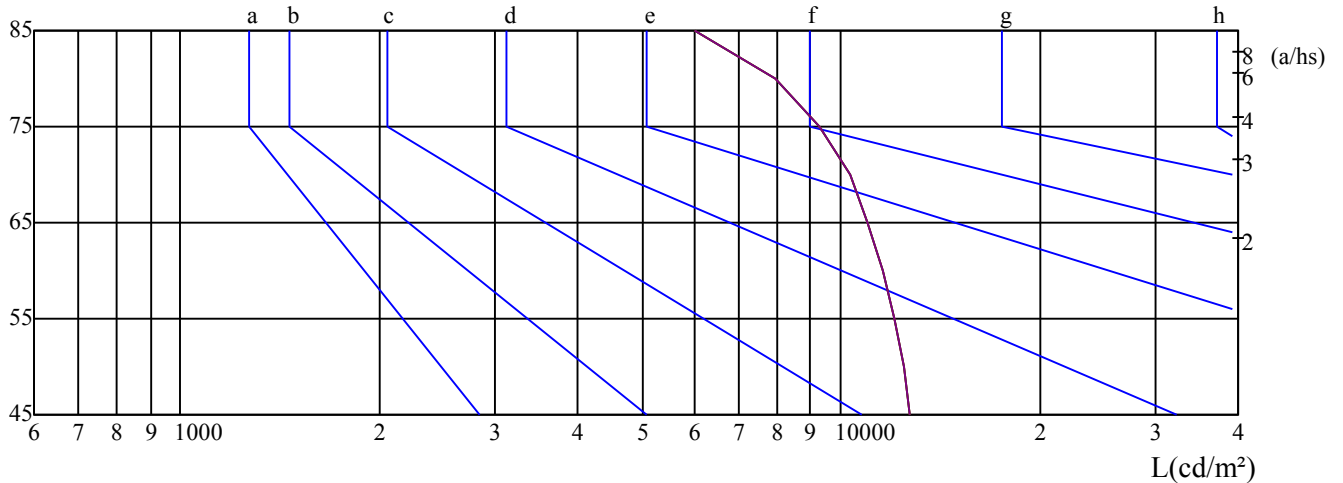
γ	45	50	55	60	65	70	75	80	85
C0	12758	12446	12061	11606	11011	10318	9311	7951	5989
C45	12758	12446	12061	11606	11011	10318	9311	7951	5989
C90	12758	12446	12061	11606	11011	10318	9311	7951	5989

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11011	11011	11011	9311	9311	9311	5989	5989	5989

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	21.25	22.83	21.64	23.19	23.56	21.52	23.10	21.91	23.46	23.83
	3H	22.93	24.36	23.34	24.74	25.13	23.27	24.70	23.68	25.08	25.47
	4H	23.55	24.90	23.98	25.29	25.70	23.93	25.28	24.36	25.67	26.08
	6H	24.04	25.29	24.48	25.70	26.14	24.45	25.70	24.89	26.11	26.55
	8H	24.18	25.39	24.62	25.80	26.25	24.60	25.81	25.05	26.22	26.67
	12H	24.25	25.41	24.70	25.84	26.29	24.68	25.84	25.13	26.27	26.72
4H	2H	22.03	23.37	22.46	23.77	24.18	22.24	23.58	22.66	23.97	24.39
	3H	23.86	25.00	24.31	25.43	25.89	24.13	25.28	24.58	25.70	26.16
	4H	24.65	25.67	25.12	26.12	26.61	24.97	25.99	25.44	26.44	26.93
	6H	25.23	26.13	25.72	26.61	27.10	25.58	26.48	26.07	26.96	27.45
	8H	25.44	26.29	25.94	26.77	27.28	25.81	26.65	26.31	27.14	27.64
	12H	25.58	26.36	26.09	26.84	27.39	25.96	26.74	26.46	27.22	27.77
8H	4H	24.98	25.82	25.48	26.31	26.82	25.26	26.10	25.76	26.59	27.10
	6H	25.70	26.41	26.23	26.91	27.46	26.01	26.72	26.53	27.22	27.77
	8H	26.05	26.67	26.59	27.21	27.74	26.37	26.99	26.92	27.53	28.07
	12H	26.25	26.77	26.80	27.32	27.87	26.59	27.11	27.14	27.66	28.21
12H	4H	25.02	25.81	25.53	26.28	26.83	25.29	26.08	25.80	26.55	27.10
	6H	25.84	26.46	26.38	27.00	27.53	26.13	26.75	26.68	27.30	27.83
	8H	26.18	26.70	26.73	27.25	27.80	26.49	27.01	27.04	27.56	28.11
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		6.6					6.6				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V e lp 7.5W (com difusor)

LampCAT: modulo led line 15W/m 12Vdc 30K irc 90 ip65

Ballast type: led line driver 12V

Report No:

Voltage(V): 125.5000

Test No:

Current(A): 0.1010

Number of Lamps: 1

Power (W): 12.6760

Lamp flux(lm): 672.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 397.99, Efficiency(%): 59.22% , Luminous Efficacy(lm/W): 31.40

Central intensity(cd): 142.818, Maximum intensity(cd): 142.818

Angle of maximum intensity: C=0.0 γ =0.0

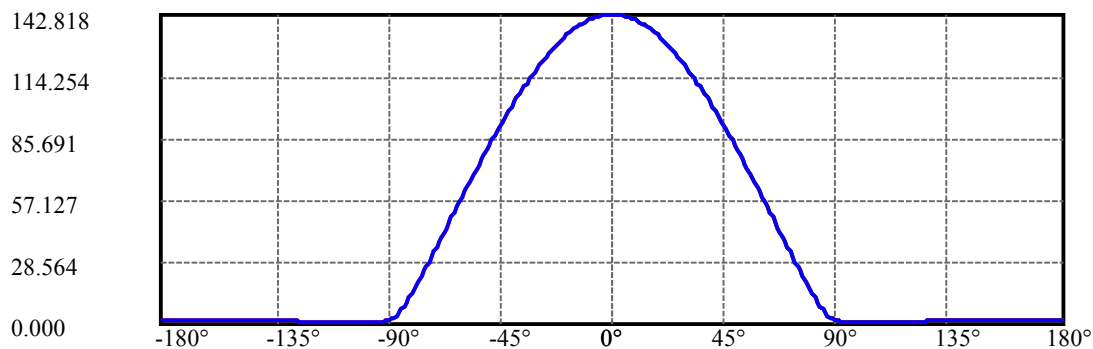
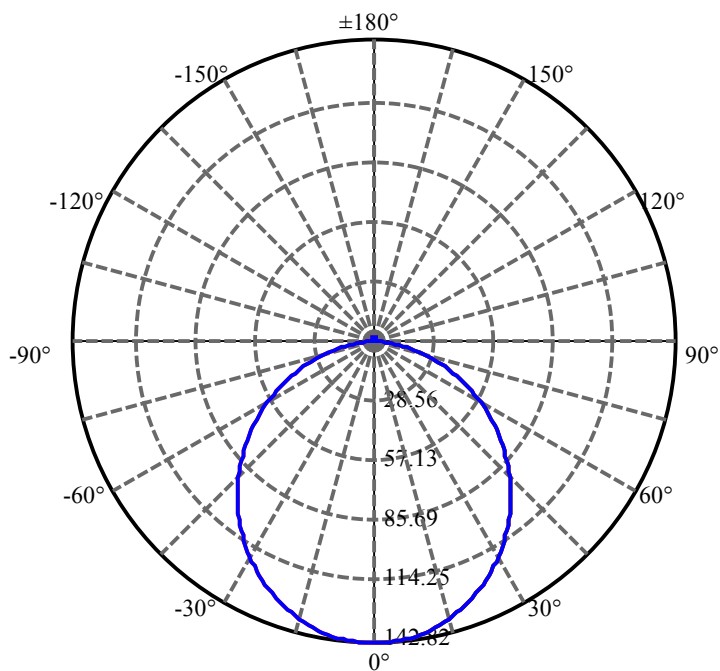
Beam angle of C0 plane : 108.33

Average BeamAngle(IEC 61341): 108.33

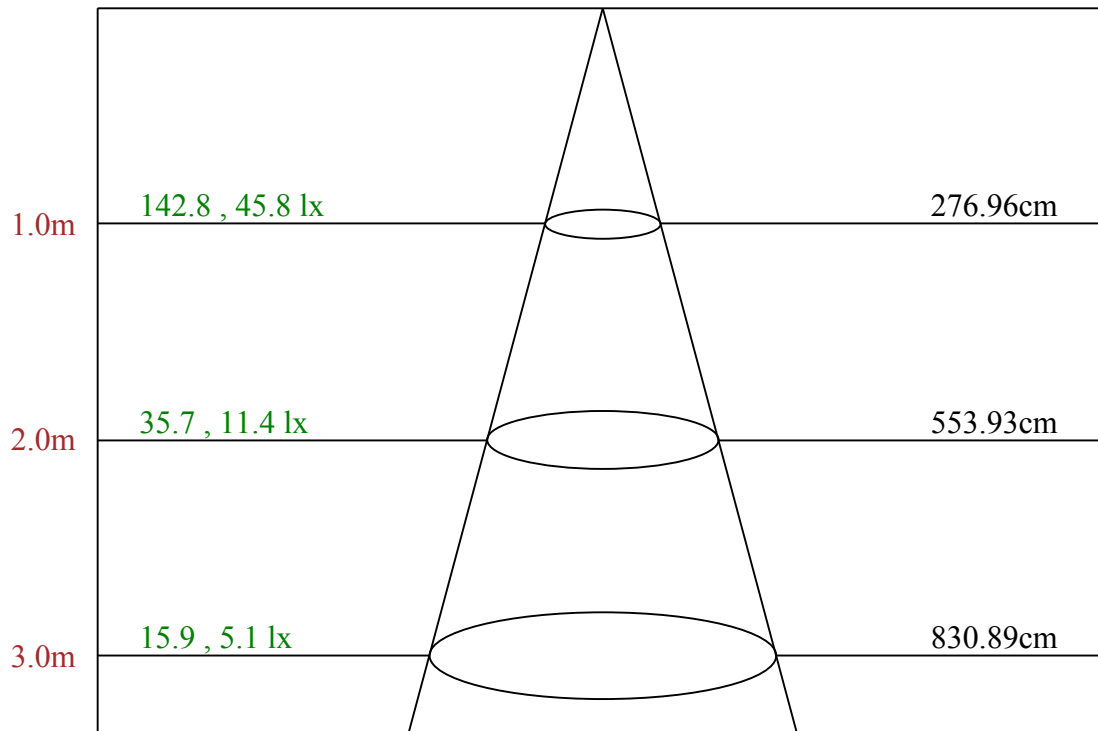
Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 23/01/2025
Humidity(%): 62.0%

Operator: 01
Distance(m): 6.90

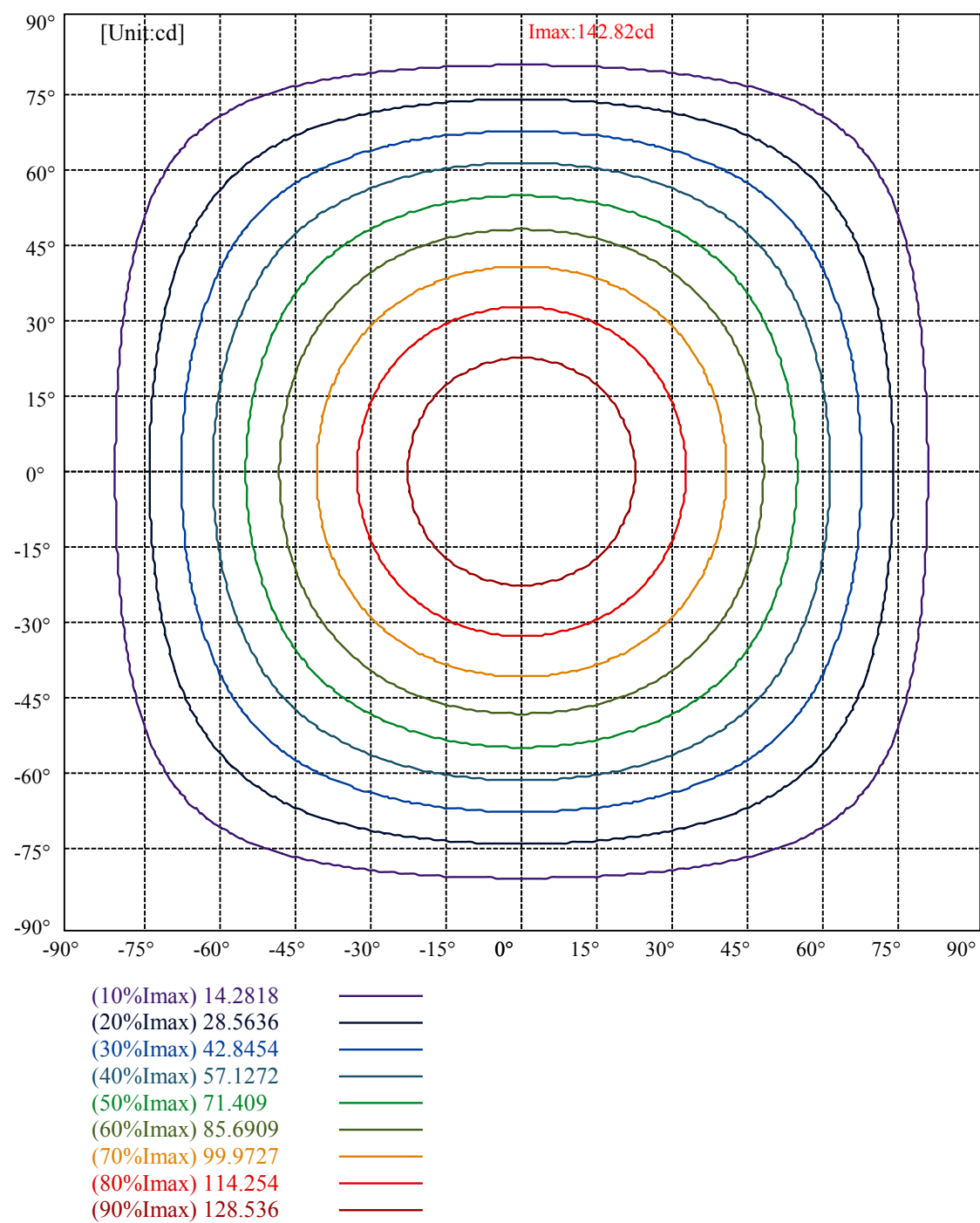


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 108.33



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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	12228	11923	11545	11162	10564	9935	8983	7670	5755
C45	12228	11923	11545	11162	10564	9935	8983	7670	5755
C90	12228	11923	11545	11162	10564	9935	8983	7670	5755

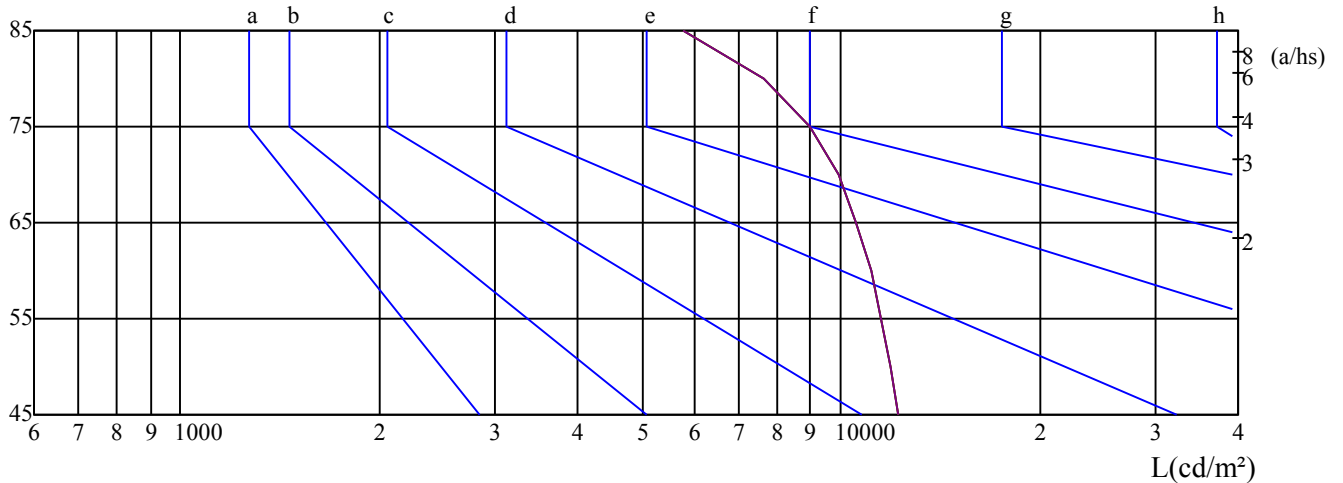
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10564	10564	10564	8983	8983	8983	5755	5755	5755

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(°C): 25.5

Date: 23/01/2025
Humidity(%): 62.0%

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	21.09	22.67	21.48	23.03	23.39	21.53	23.11	21.92	23.47	23.83
	3H	22.74	24.17	23.15	24.55	24.94	23.36	24.78	23.77	25.17	25.56
	4H	23.35	24.70	23.78	25.09	25.50	24.07	25.41	24.50	25.81	26.22
	6H	23.82	25.07	24.26	25.48	25.92	24.65	25.90	25.09	26.31	26.75
	8H	23.93	25.14	24.37	25.55	26.00	24.84	26.04	25.28	26.46	26.91
	12H	23.98	25.14	24.43	25.56	26.02	24.96	26.12	25.41	26.55	27.01
4H	2H	21.90	23.25	22.33	23.64	24.05	22.24	23.58	22.67	23.98	24.39
	3H	23.72	24.86	24.17	25.29	25.75	24.22	25.37	24.67	25.79	26.25
	4H	24.50	25.52	24.97	25.97	26.46	25.11	26.13	25.58	26.58	27.07
	6H	25.05	25.95	25.54	26.43	26.92	25.79	26.69	26.28	27.17	27.66
	8H	25.23	26.08	25.74	26.56	27.07	26.05	26.90	26.56	27.38	27.89
	12H	25.34	26.13	25.85	26.61	27.16	26.26	27.04	26.77	27.52	28.07
8H	4H	24.87	25.71	25.37	26.20	26.70	25.40	26.25	25.90	26.73	27.24
	6H	25.56	26.27	26.08	26.77	27.32	26.22	26.93	26.74	27.43	27.98
	8H	25.88	26.50	26.42	27.04	27.57	26.63	27.25	27.17	27.79	28.33
	12H	26.05	26.58	26.61	27.12	27.67	26.92	27.44	27.47	27.98	28.54
12H	4H	24.92	25.70	25.43	26.18	26.73	25.43	26.22	25.94	26.69	27.24
	6H	25.71	26.33	26.25	26.87	27.41	26.34	26.96	26.88	27.50	28.04
	8H	26.03	26.55	26.58	27.10	27.65	26.75	27.27	27.30	27.81	28.37
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.7					0.6/-0.7				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		6.5					6.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 24V e lp 4.5W

LampCAT: modulo led line 9W/m 24Vdc 27K irc 90

Ballast type: led line driver 24V

Report No:

Voltage(V): 126.8000

Test No:

Current(A): 0.1070

Number of Lamps: 1

Power (W): 13.5680

Lamp flux(lm): 382.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 227.22, Efficiency(%): 59.48% , Luminous Efficacy(lm/W): 16.75

Central intensity(cd): 81.711, Maximum intensity(cd): 81.711

Angle of maximum intensity: C=0.0 γ =0.0

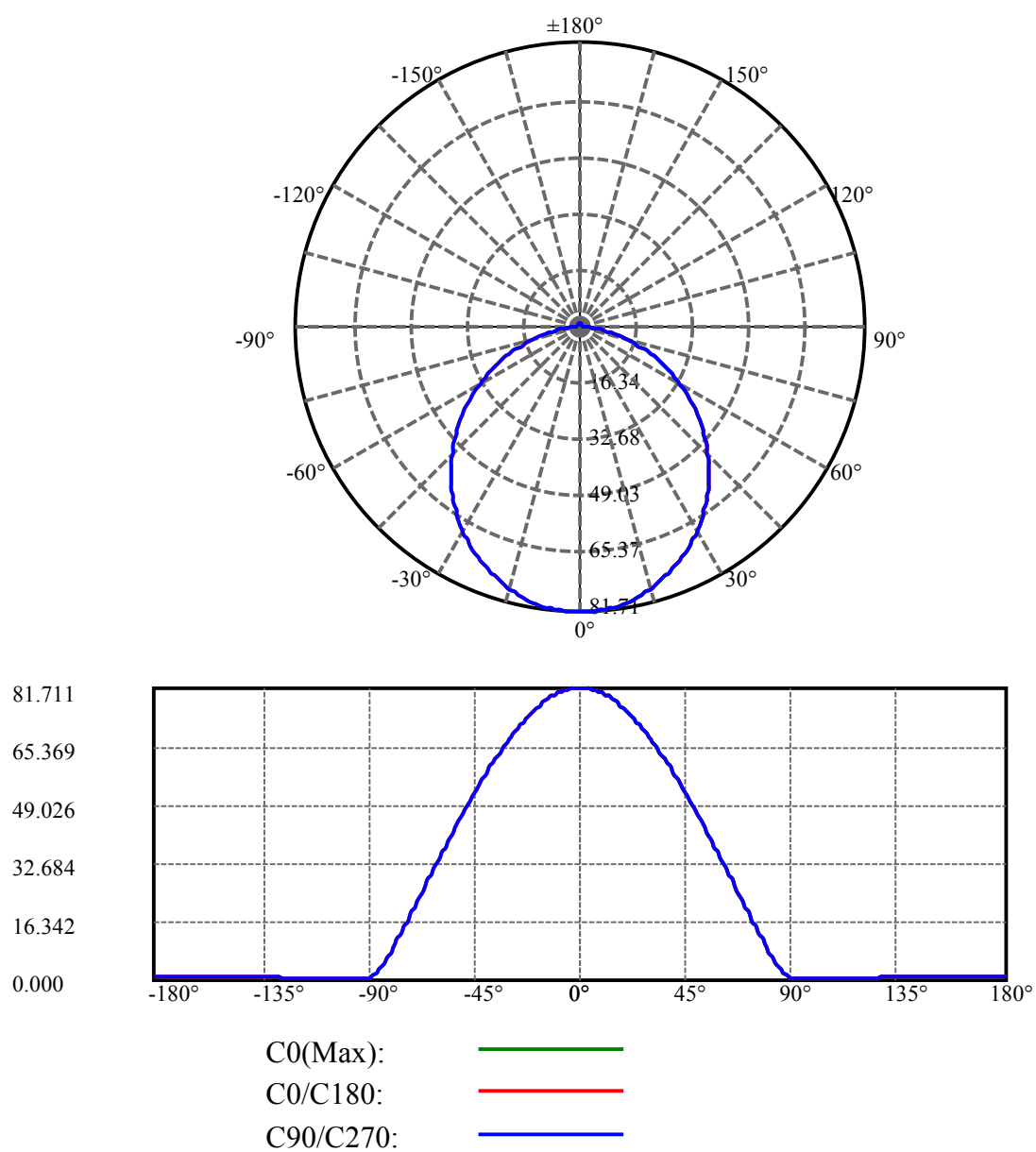
Beam angle of C0 plane : 108.22

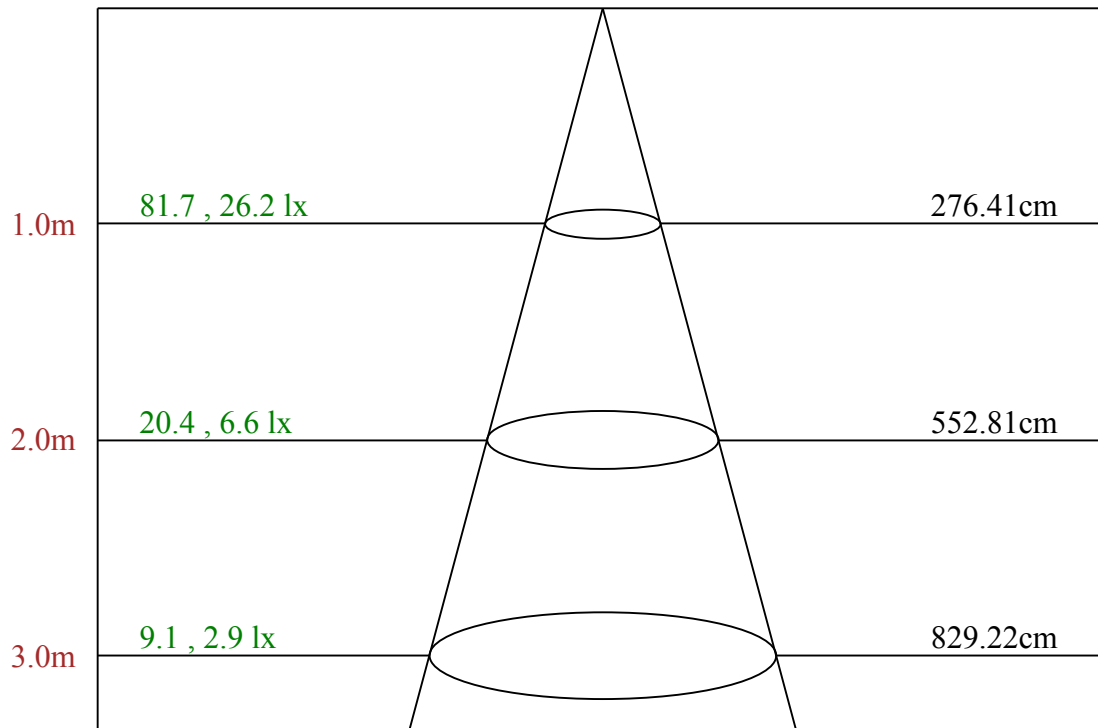
Aveage BeamAngle(IEC 61341):108.22

Equipment: equipamento lumini
Temperature(°C): 24.5

Date: 20/01/2025
Humidity(%): 71.0%

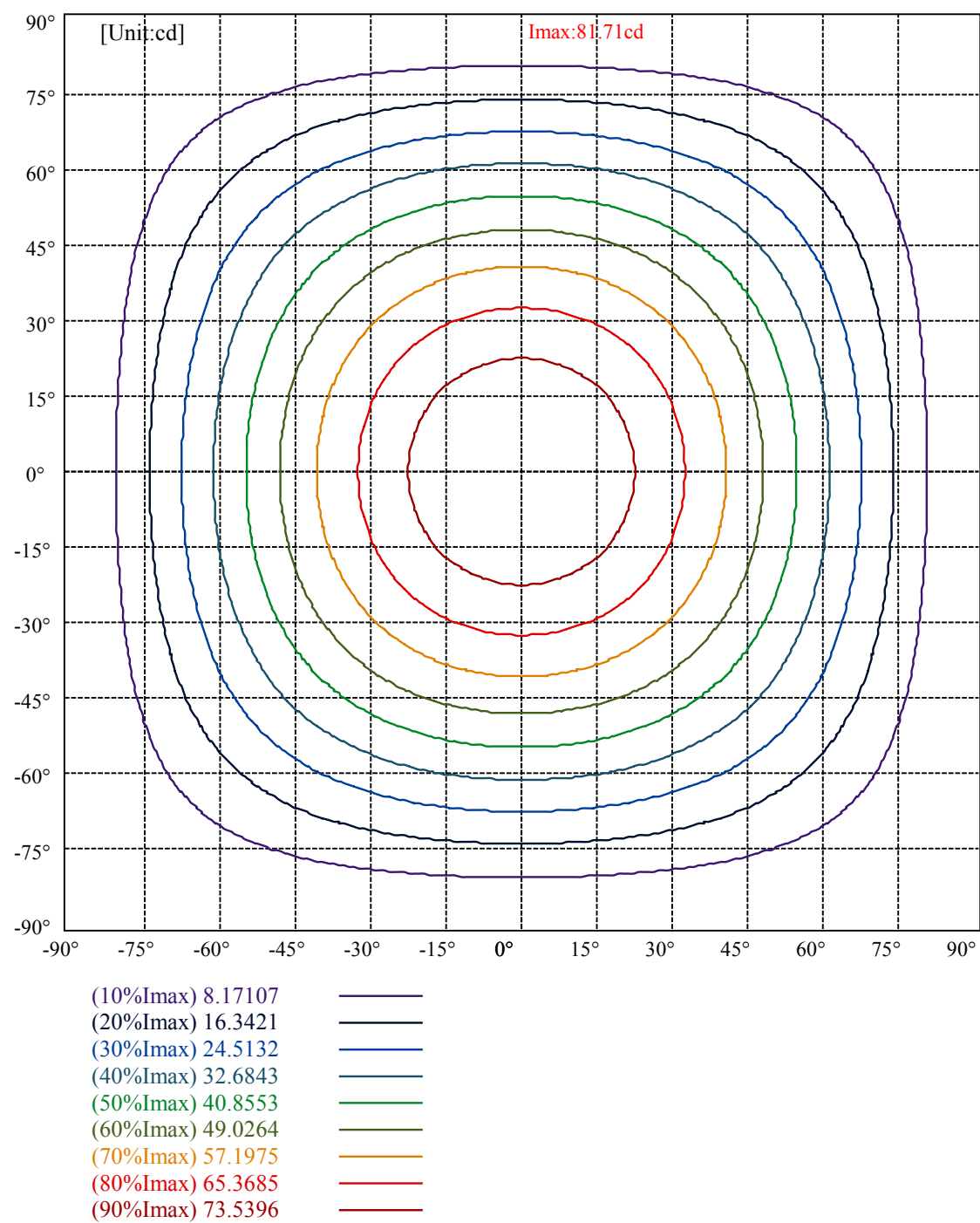
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 108.22



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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	6988	6828	6603	6353	6075	5666	5120	4269	3063
C45	6988	6828	6603	6353	6075	5666	5120	4269	3063
C90	6988	6828	6603	6353	6075	5666	5120	4269	3063

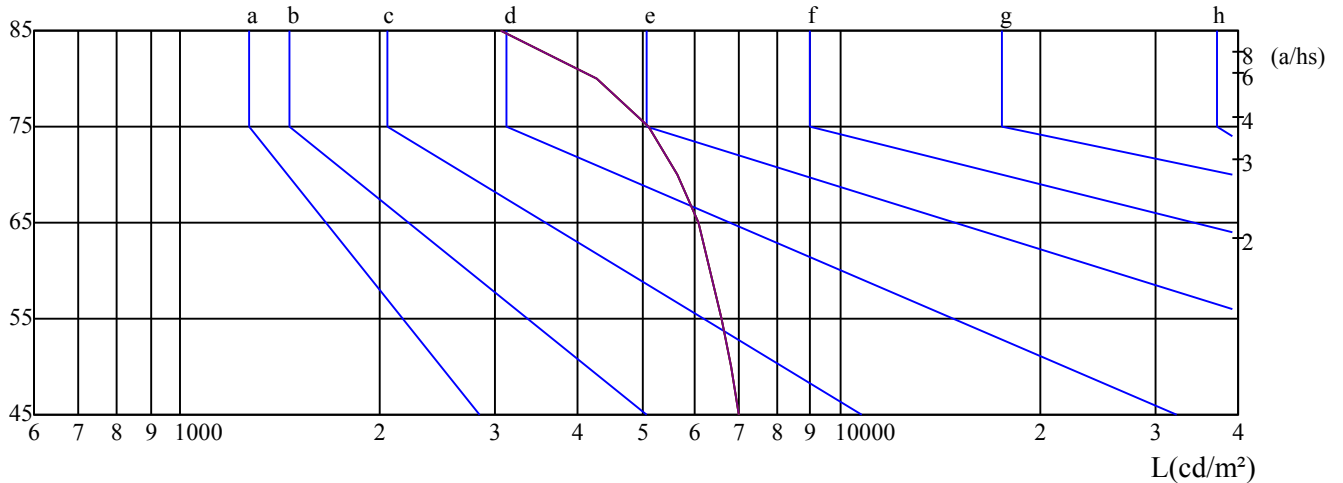
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6075	6075	6075	5120	5120	5120	3063	3063	3063

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

$\gamma(^{\circ})$



Equipment: equipamento lumini
Temperature($^{\circ}\text{C}$): 24.5

Date: 20/01/2025
Humidity(%): 71.0%

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	18.92	20.49	19.31	20.85	21.22	19.30	20.87	19.69	21.24	21.60
	3H	20.50	21.93	20.91	22.31	22.70	21.01	22.44	21.42	22.82	23.21
	4H	21.06	22.41	21.49	22.80	23.21	21.64	22.99	22.07	23.38	23.79
	6H	21.46	22.71	21.90	23.12	23.56	22.12	23.37	22.56	23.78	24.22
	8H	21.53	22.74	21.98	23.15	23.60	22.24	23.44	22.68	23.86	24.31
	12H	21.55	22.70	22.00	23.13	23.59	22.30	23.46	22.75	23.88	24.34
4H	2H	19.70	21.04	20.12	21.43	21.85	19.99	21.33	20.42	21.73	22.14
	3H	21.43	22.57	21.88	23.00	23.46	21.85	22.99	22.30	23.42	23.88
	4H	22.16	23.18	22.63	23.63	24.12	22.65	23.67	23.12	24.12	24.61
	6H	22.63	23.53	23.12	24.01	24.50	23.21	24.11	23.70	24.59	25.08
	8H	22.76	23.61	23.27	24.09	24.60	23.39	24.24	23.90	24.72	25.23
	12H	22.83	23.61	23.34	24.09	24.64	23.52	24.31	24.03	24.78	25.33
8H	4H	22.48	23.33	22.99	23.81	24.32	22.92	23.76	23.42	24.24	24.75
	6H	23.07	23.77	23.59	24.28	24.82	23.59	24.30	24.11	24.80	25.34
	8H	23.32	23.93	23.86	24.48	25.01	23.90	24.51	24.44	25.06	25.59
	12H	23.42	23.94	23.97	24.49	25.04	24.08	24.60	24.63	25.15	25.70
12H	4H	22.51	23.30	23.02	23.78	24.33	22.94	23.72	23.45	24.20	24.75
	6H	23.18	23.80	23.73	24.34	24.88	23.69	24.30	24.23	24.85	25.38
	8H	23.43	23.95	23.98	24.49	25.04	23.98	24.50	24.54	25.05	25.60
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		4.5					4.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 24V e lp 12W

LampCAT: modulo led line 24W/m 24Vdc 30K irc 90

Ballast type: led line driver 24V

Report No:

Voltage(V): 126.0000

Test No:

Current(A): 0.1380

Number of Lamps: 1

Power (W): 17.3880

Lamp flux(lm): 1078.0

PF: 0.0000

Length(mm): 500

Width(mm): 21

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 648.97, Efficiency(%): 60.20% , Luminous Efficacy(lm/W): 37.32

Central intensity(cd): 233.539, Maximum intensity(cd): 233.545

Angle of maximum intensity: C=0.0 γ =1.0

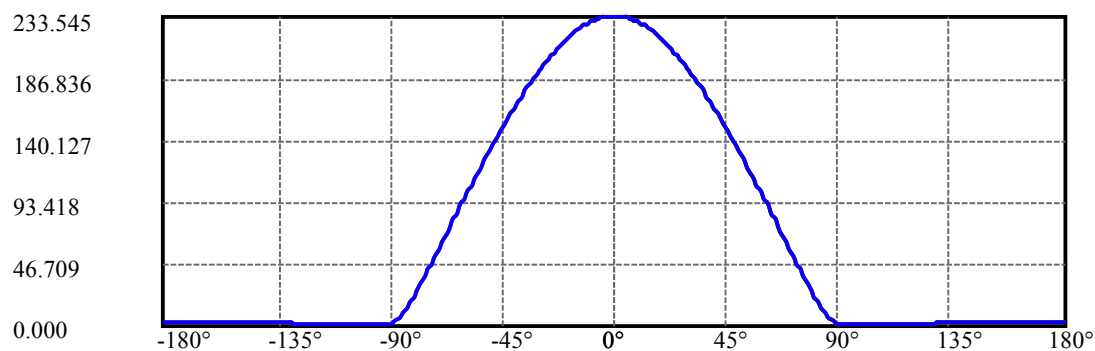
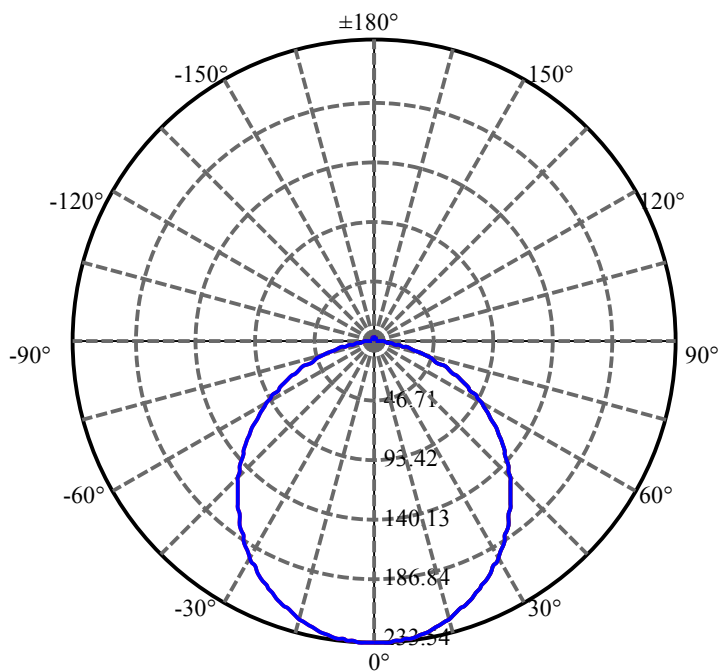
Beam angle of C0 plane : 108.29

Aveage BeamAngle(IEC 61341):108.29

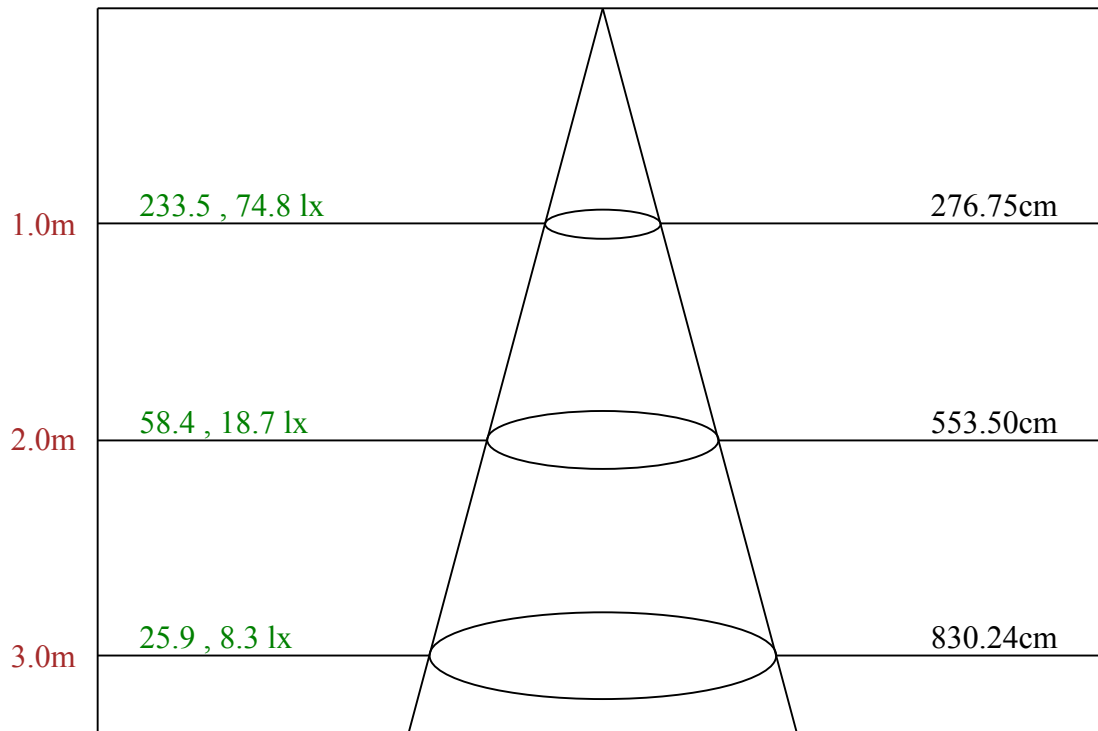
Equipment: equipamento lumini
Temperature(°C): 24.5

Date: 17/01/2025
Humidity(%): 71.0%

Operator: 01
Distance(m): 6.90

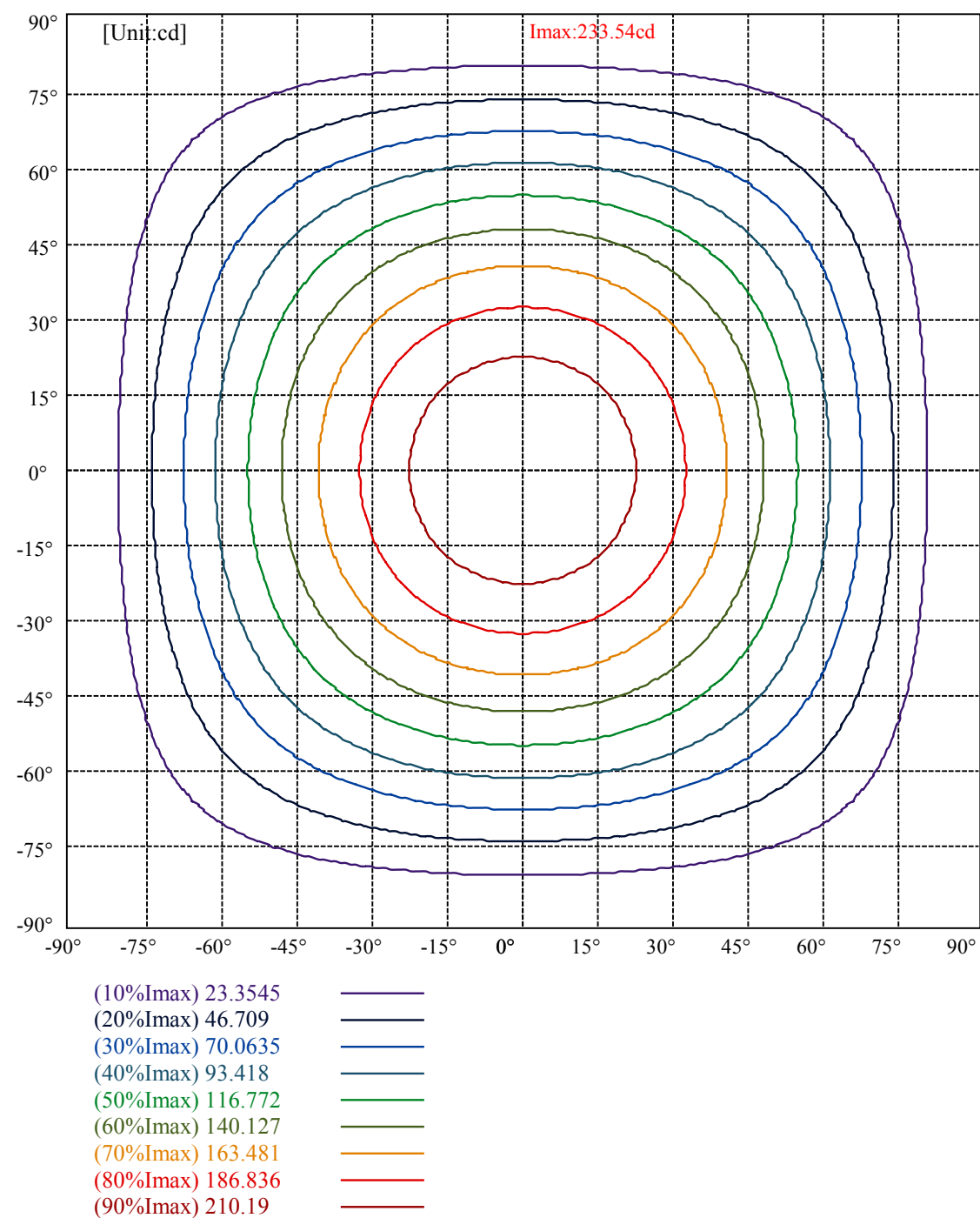


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 108.29



Luminance Table

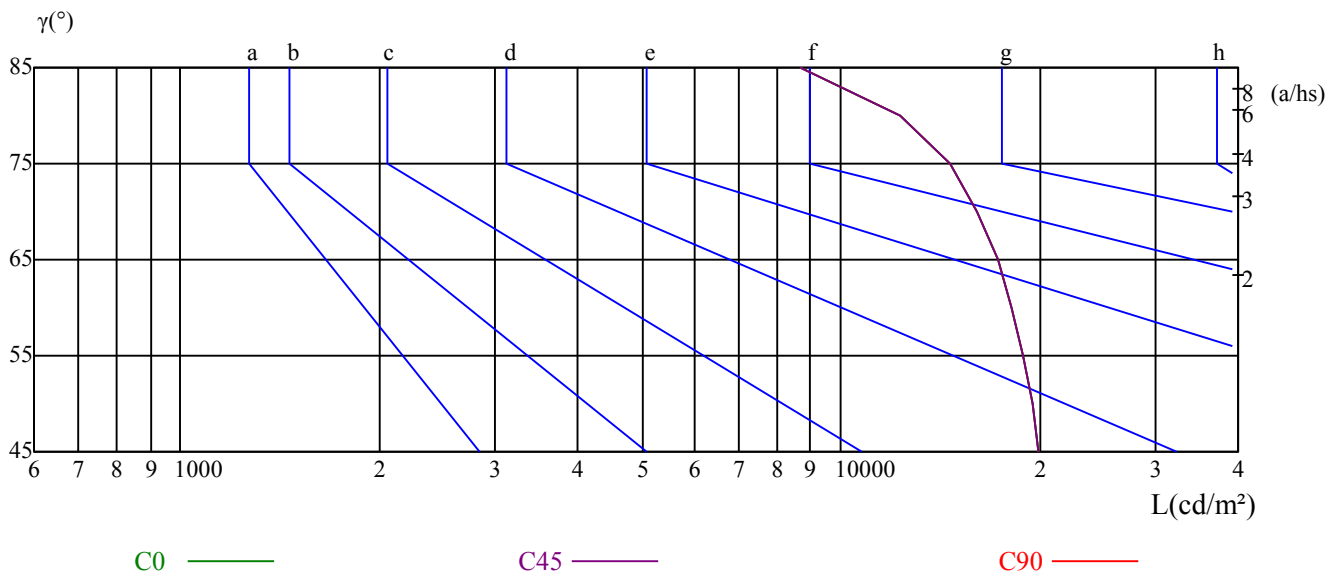
γ	45	50	55	60	65	70	75	80	85
C0	19976	19471	18892	18193	17353	16126	14655	12276	8662
C45	19976	19471	18892	18193	17353	16126	14655	12276	8662
C90	19976	19471	18892	18193	17353	16126	14655	12276	8662

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
17353	17353	17353	14655	14655	14655	8662	8662	8662

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

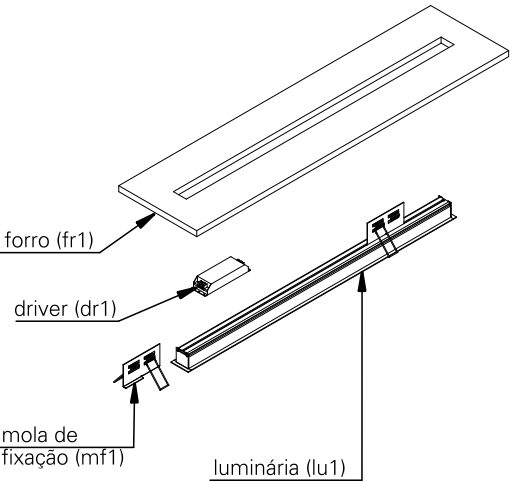


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	22.44	24.02	22.83	24.37	24.74	22.89	24.47	23.29	24.83	25.19
	3H	24.00	25.43	24.41	25.81	26.20	24.61	26.04	25.02	26.42	26.81
	4H	24.55	25.89	24.97	26.28	26.70	25.24	26.58	25.67	26.98	27.39
	6H	24.93	26.18	25.36	26.58	27.03	25.72	26.97	26.16	27.38	27.82
	8H	24.99	26.20	25.43	26.61	27.06	25.85	27.05	26.29	27.47	27.92
	12H	25.00	26.15	25.44	26.58	27.03	25.91	27.07	26.36	27.49	27.95
4H	2H	23.22	24.56	23.64	24.95	25.36	23.57	24.91	23.99	25.30	25.72
	3H	24.92	26.06	25.37	26.49	26.95	25.43	26.57	25.87	26.99	27.45
	4H	25.64	26.65	26.11	27.11	27.59	26.23	27.24	26.69	27.69	28.18
	6H	26.08	26.99	26.57	27.46	27.95	26.78	27.68	27.27	28.16	28.65
	8H	26.21	27.05	26.71	27.54	28.04	26.98	27.83	27.48	28.31	28.81
	12H	26.26	27.05	26.77	27.52	28.07	27.11	27.89	27.62	28.37	28.92
8H	4H	25.95	26.79	26.45	27.27	27.78	26.47	27.31	26.97	27.80	28.30
	6H	26.51	27.22	27.03	27.72	28.26	27.15	27.85	27.67	28.35	28.90
	8H	26.75	27.36	27.29	27.91	28.44	27.46	28.08	28.01	28.62	29.16
	12H	26.84	27.36	27.39	27.91	28.46	27.65	28.17	28.20	28.71	29.27
12H	4H	25.98	26.77	26.49	27.24	27.79	26.49	27.27	27.00	27.75	28.30
	6H	26.63	27.25	27.17	27.79	28.32	27.24	27.86	27.78	28.40	28.93
	8H	26.85	27.37	27.41	27.92	28.47	27.55	28.07	28.10	28.61	29.16
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.6/-0.6					0.6/-0.6				
S = 2.0H		0.8/-0.8					0.8/-0.8				
Standard tables:		BK3					BK3				
Uncorrected UGR		8.1					8.1				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

led line perfil

led line perfil e lp



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.

para evitar riscos e deformações à luminária, evite o processo de calafetagem.

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
led line perfil e lp - xx 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

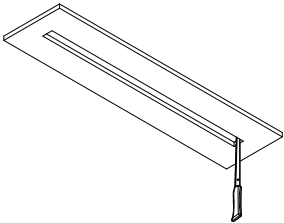
informações importantes
para a instalação, lave as mãos e seque as mãos, use luvas descartáveis.

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

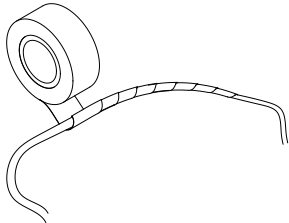
retire a luminária da embalagem com cuidado e apoie-o em uma superfície limpa e seca.

instalação passo a passo

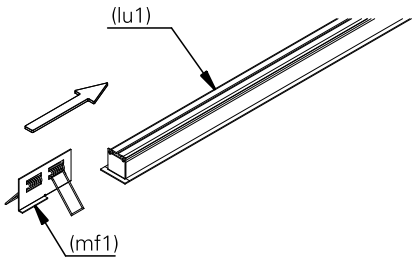
1. faça o nicho de 27 x comprimento do perfil + 4mm.



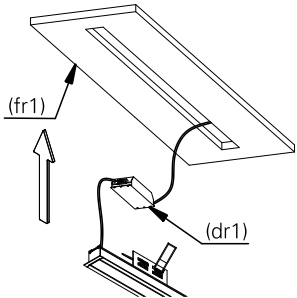
2. faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.



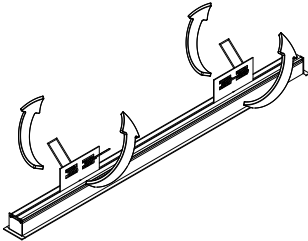
3. encaixe as molas de fixação (mf1) na luminária (lu1) e ajuste na posição desejada.



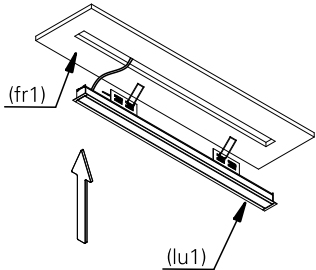
4. aloje o driver (dr1) sobre o forro (fr1).



5. empurre as molas para cima conforme a imagem.



6. encaixe a luminária (lu1) forro (fr1).



7. ao término da instalação a luminária deverá ficar como a figura acima. ligue a rede elétrica e teste o seu funcionamento.

