



led line perfil c

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	difusor baixo	2500		
5W/m	difusor baixo	2700		
5 W/m	difusor baixo	3000	506 lm/m	290 lm/m
5W/m	difusor alto	2500		
5W/m	difusor alto	2700		
5W/m	difusor alto	3000	558 lm/m	457 lm/m
5 W/m ip65	difusor baixo	2500		
5 W/m ip65	difusor baixo	2700		
5 W/m ip65	difusor baixo	3000	544 lm/m	320 lm/m
5 W/m ip65	difusor alto	2500		
5 W/m ip65	difusor alto	2700		
5 W/m ip65	difusor alto	3000	544 lm/m	436 lm/m
9W/m	difusor baixo	2700		
9W/m	difusor baixo	3000	910 lm/m	485 lm/m
9W/m	difusor alto	2700		
9W/m	difusor alto	3000	910 lm/m	744 lm/m
15W/m	difusor baixo	2500		
15W/m	difusor baixo	2700		
15W/m	difusor baixo	3000	1492 lm/m	871 lm/m
15W/m	difusor alto	2500		
15W/m	difusor alto	2700		
15W/m	difusor alto	3000	1414 lm/m	1118 lm/m
15W/m ip65	difusor baixo	2500		
15W/m ip65	difusor baixo	2700		
15W/m ip65	difusor baixo	3000	1344 lm/m	782 lm/m
15W/m ip65	difusor alto	2500		
15W/m ip65	difusor alto	2700		
15W/m ip65	difusor alto	3000	1344 lm/m	1074 lm/m
16W/m	difuso alto	dual color		
24W/m	difusor baixo	2500		
24W/m	difusor baixo	2700		

24W/m	difusor baixo	3000	2156 lm/m	1371 lm/m
24W/m	difusor alto	2500		
24W/m	difusor alto	2700		
24W/m	difusor alto	3000	2156 lm/m	1739 lm/m
25W/m	difusor baixo	2500		
25W/m	difusor baixo	2700		
25W/m	difusor baixo	3000	3496 lm/m	2148 lm/m
25W/m	difusor baixo	4000		
25W/m	difusor alto	2500		
25W/m	difusor alto	2700		
25W/m	difusor alto alto	3000	3496 lm/m	2900 lm/m
25 W/m	difusor alto alto	4000		

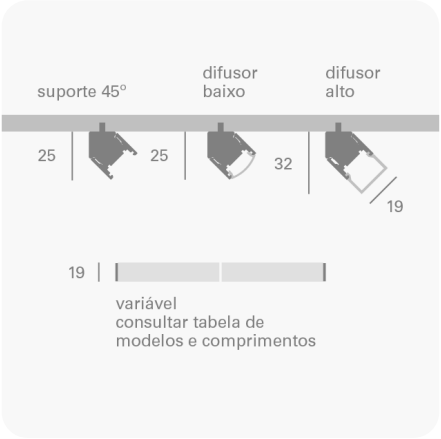
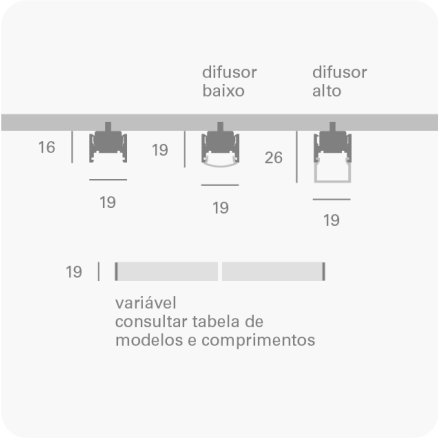
equipamentos
LED driver 700mA (incluso, ponto remoto)
LED line driver 12V (incluso, ponto remoto)
LED line driver 24V (incluso, ponto remoto)

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

instalação
forro de gesso
marcenaria
laje
sanca

IP
20

dimensões



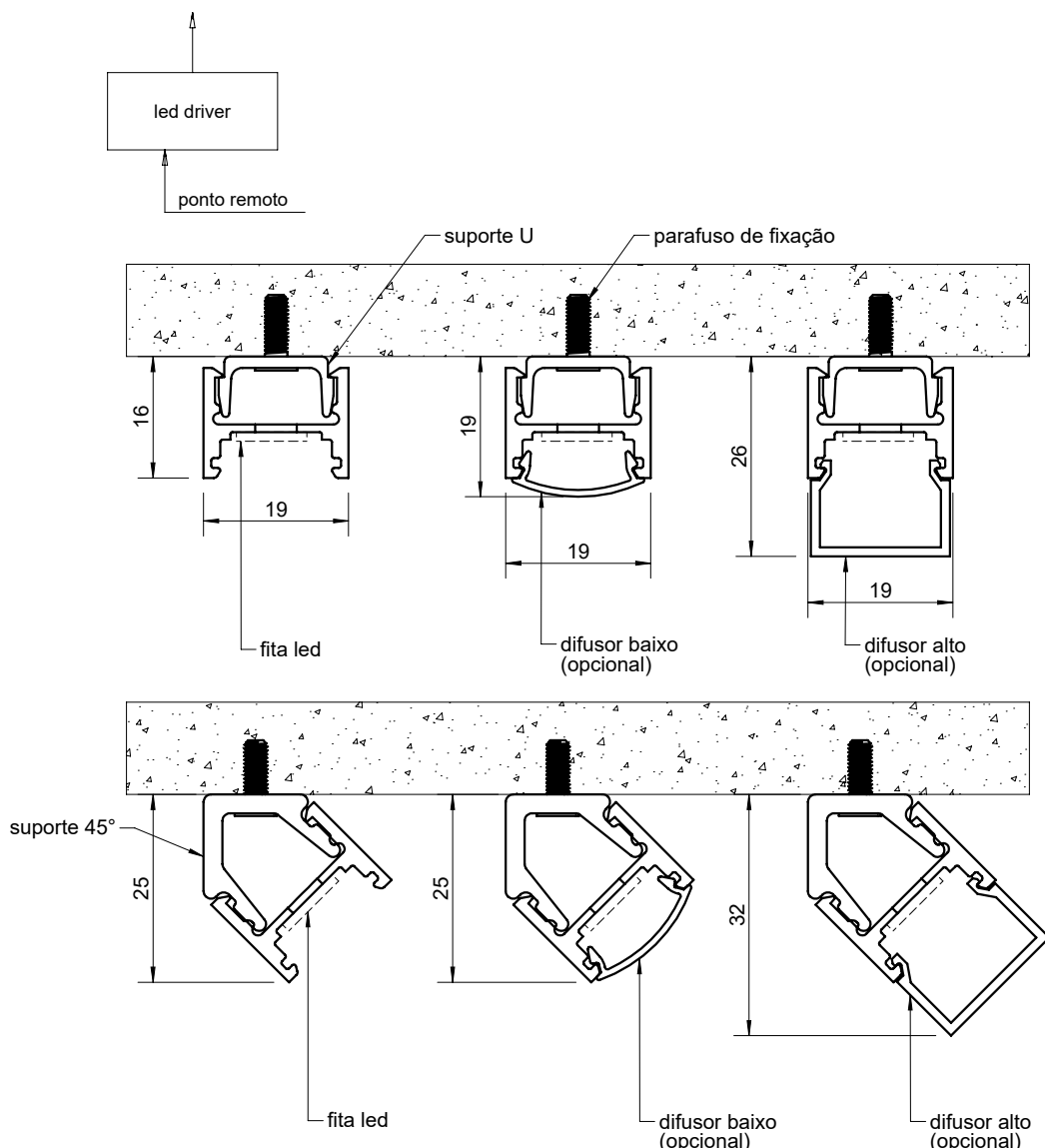
acabamentos e cores

cores



vista lateral

dimensões em milímetros



led line perfil c mp

folha
1/1

escala
1:1

data
13/05/2025

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joão ferreira

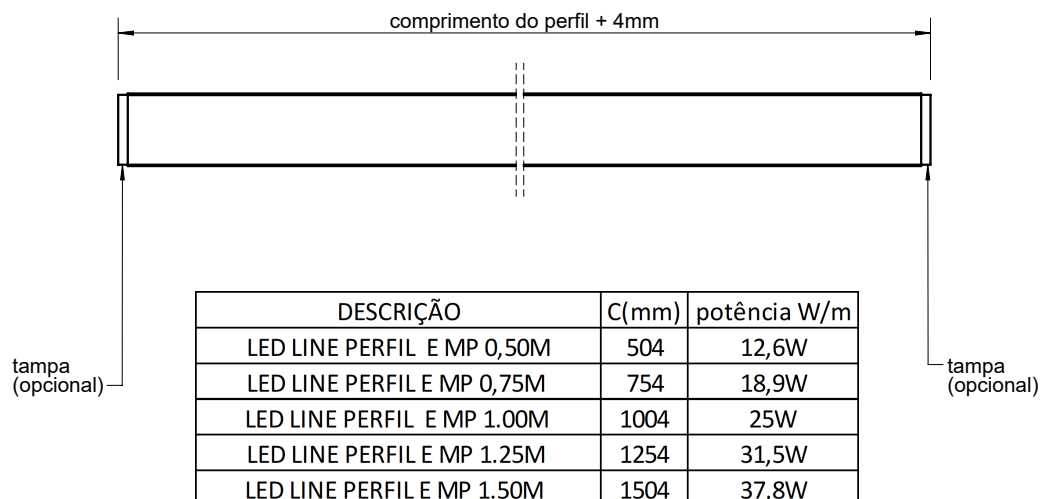
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vista inferior

dimensões em milímetros



vista lateral

dimensões em milímetros

led line perfil c lp

folha
1/2

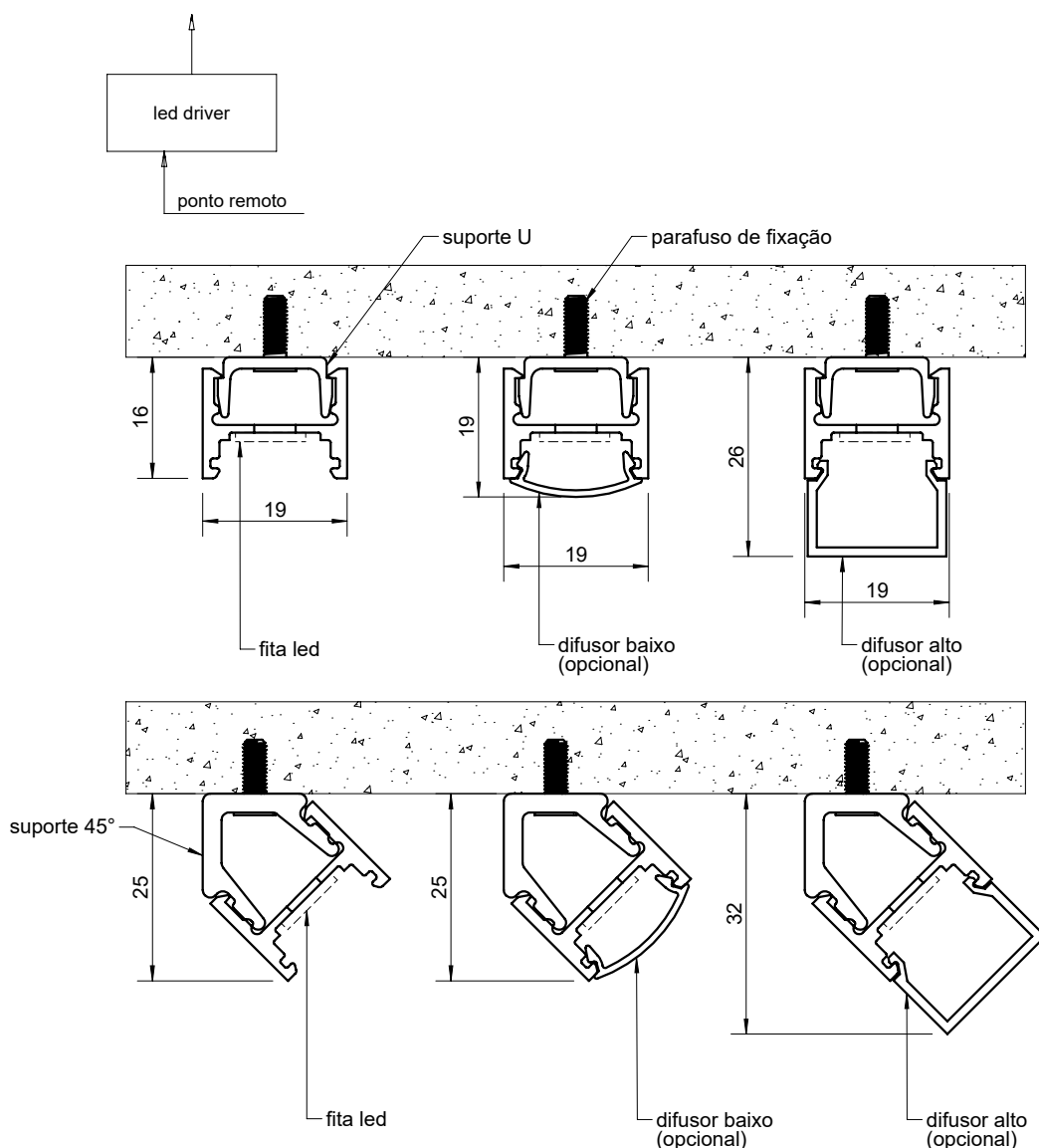
escala
1:1

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vista inferior

dimensões em milímetros



vista lateral

dimensões em milímetros

led line perfil c lp

folha
2/2

escala
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DESCRIÇÃO	12v		24 v		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

vista lateral

dimensões em milímetros

led line perfil dual color c

folha
1/1

escala
1:1

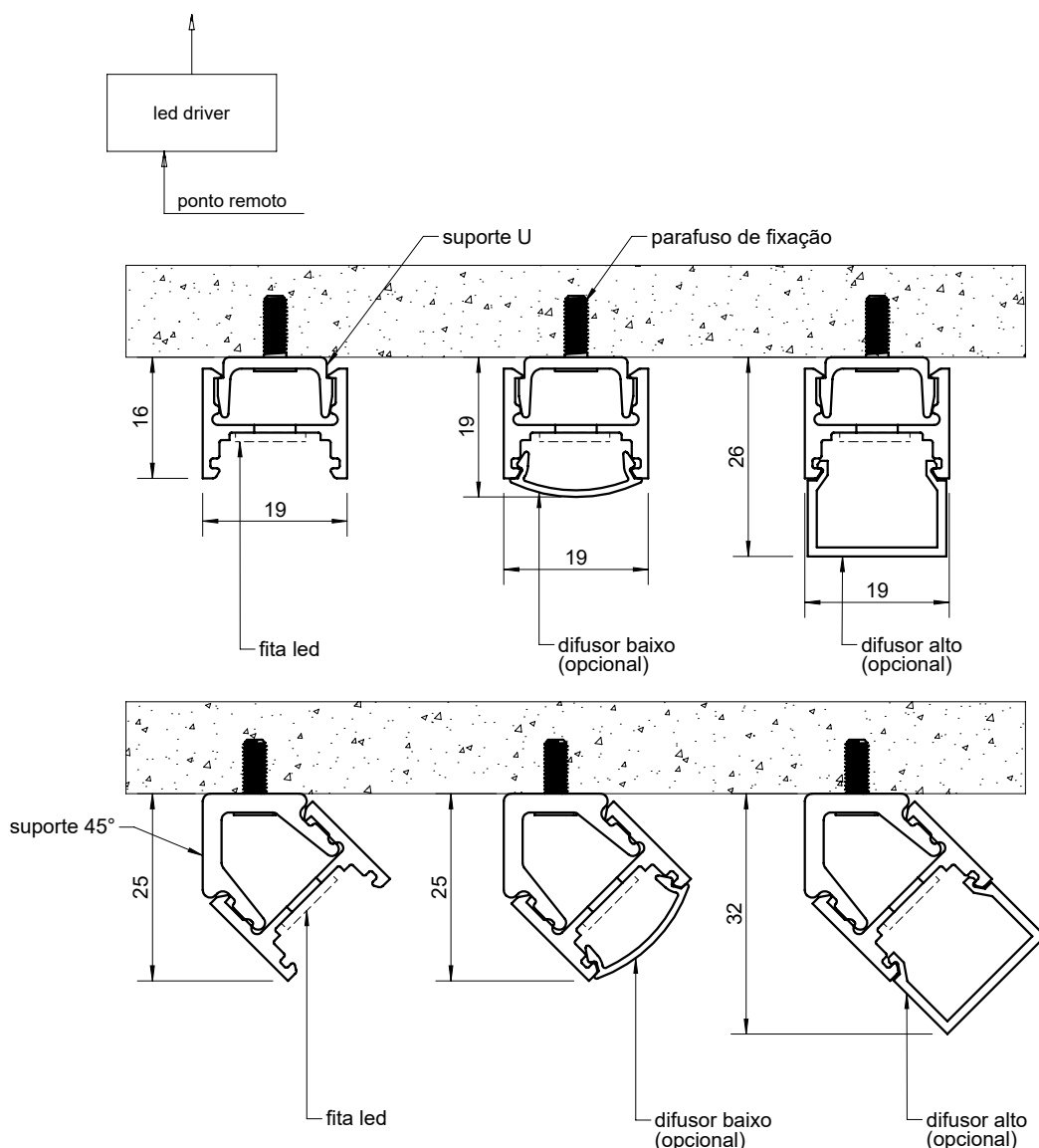
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vista inferior

dimensões em milímetros

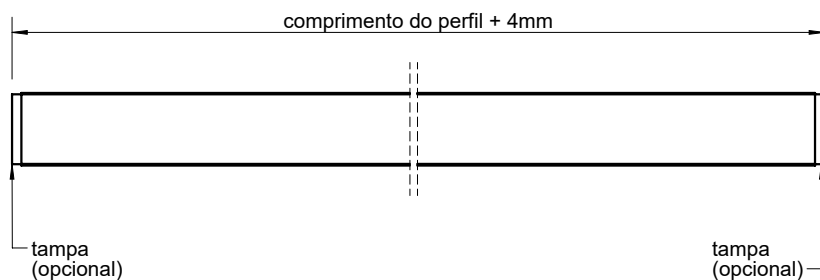


Tabela de dimensões	
c (m)	potência (W)
0,53	12,6
1,03	25,2
1,53	37,8
2,03	50,4
2,53	63

vista lateral

dimensões em milímetros

led line perfil soft c

folha
1/1

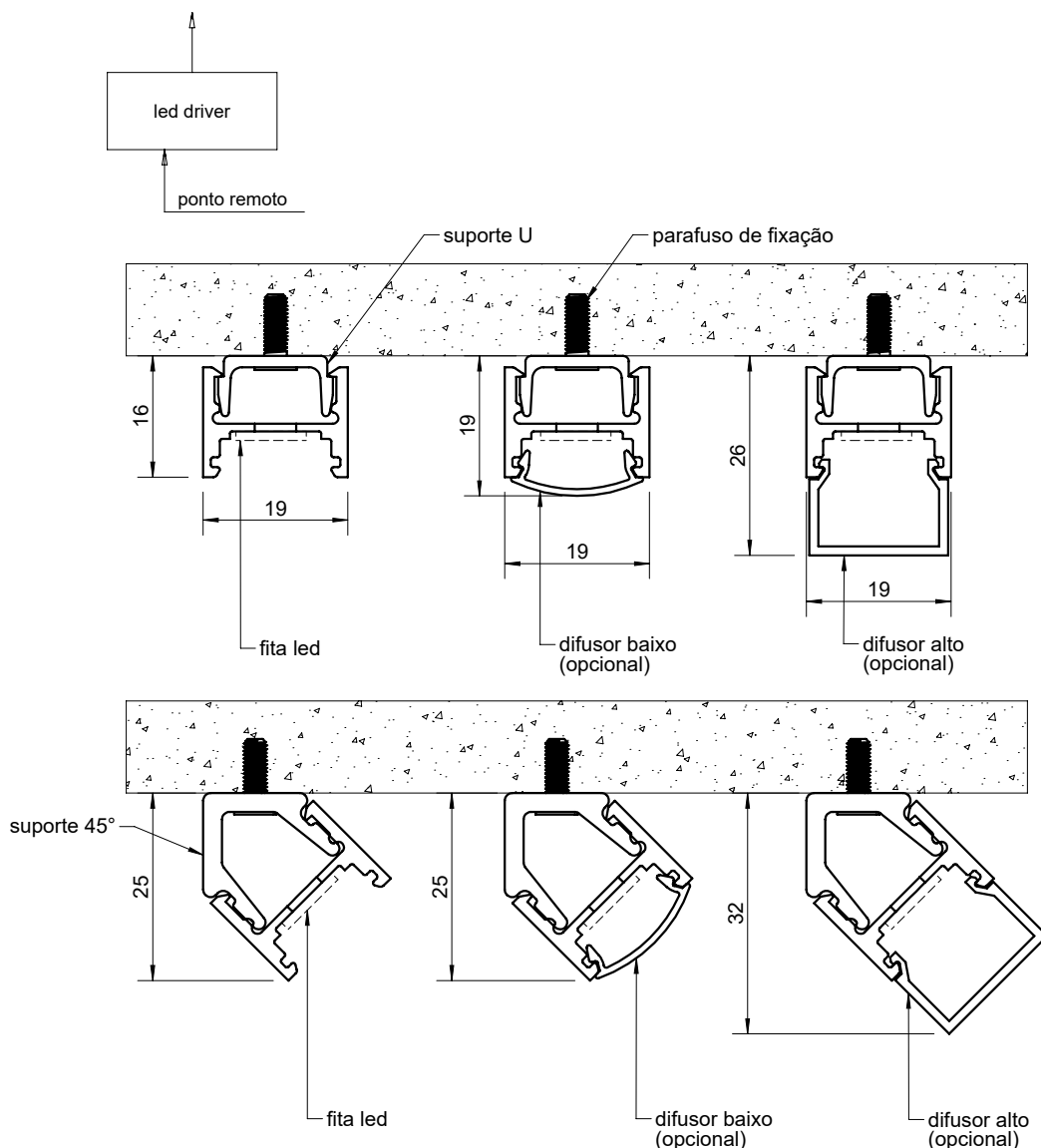
escala
1:1

data
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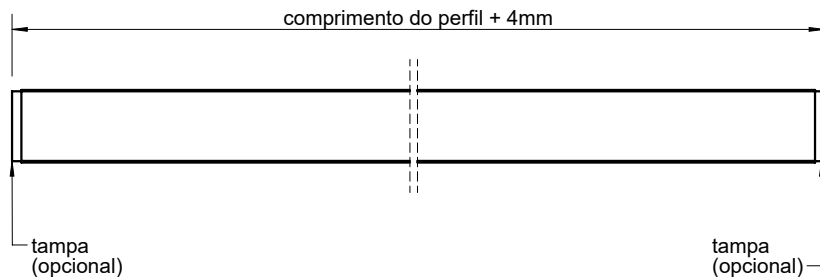
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vista inferior

dimensões em milímetros



c (m)	potência (4,6 W/m)	potência (11,7 W/m)	potência (16,3 W/m)
0,53	2,3 W	5,85 W	8,15 W
1,03	4,6 W	11,7 W	16,3 W
1,53	6,9 W	17,55 W	24,45 W
2,03	9,2 W	23,4 W	32,6 W
2,53	11,5 W	29,25 W	40,75 W



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LumCAT:

Luminaire: led line perfil c mp12.5W (difusor alto)

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): 20

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1450.00, Efficiency(%): 82.95% , Luminous Efficacy(lm/W): 116.23

Central intensity(cd): 291.040, Maximum intensity(cd): 292.397

Angle of maximum intensity: C=0.0 γ =7.0

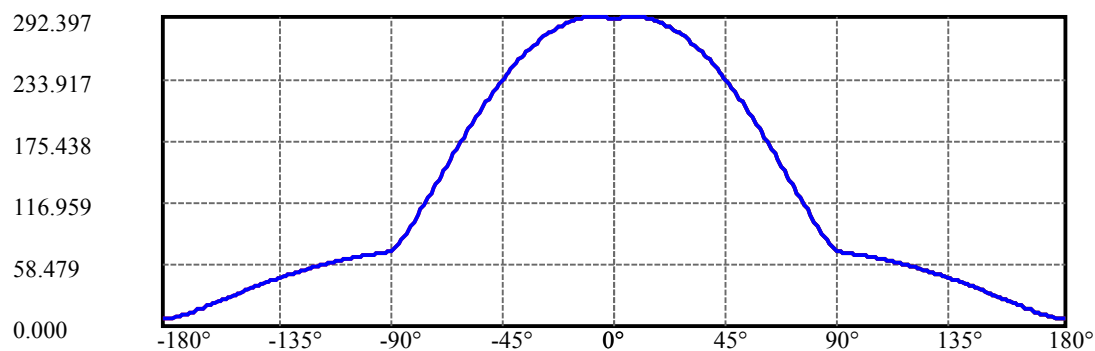
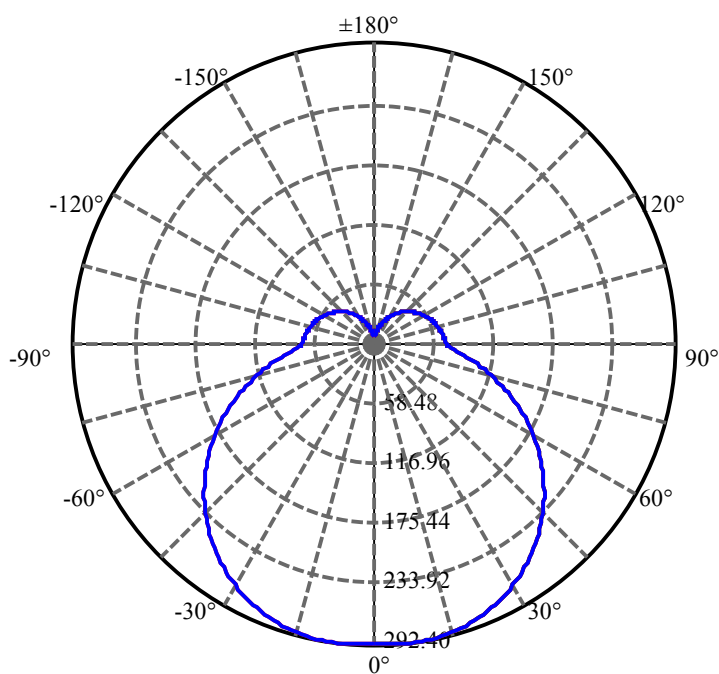
Beam angle of C0 plane : 136.60

Aveage BeamAngle(IEC 61341):136.60

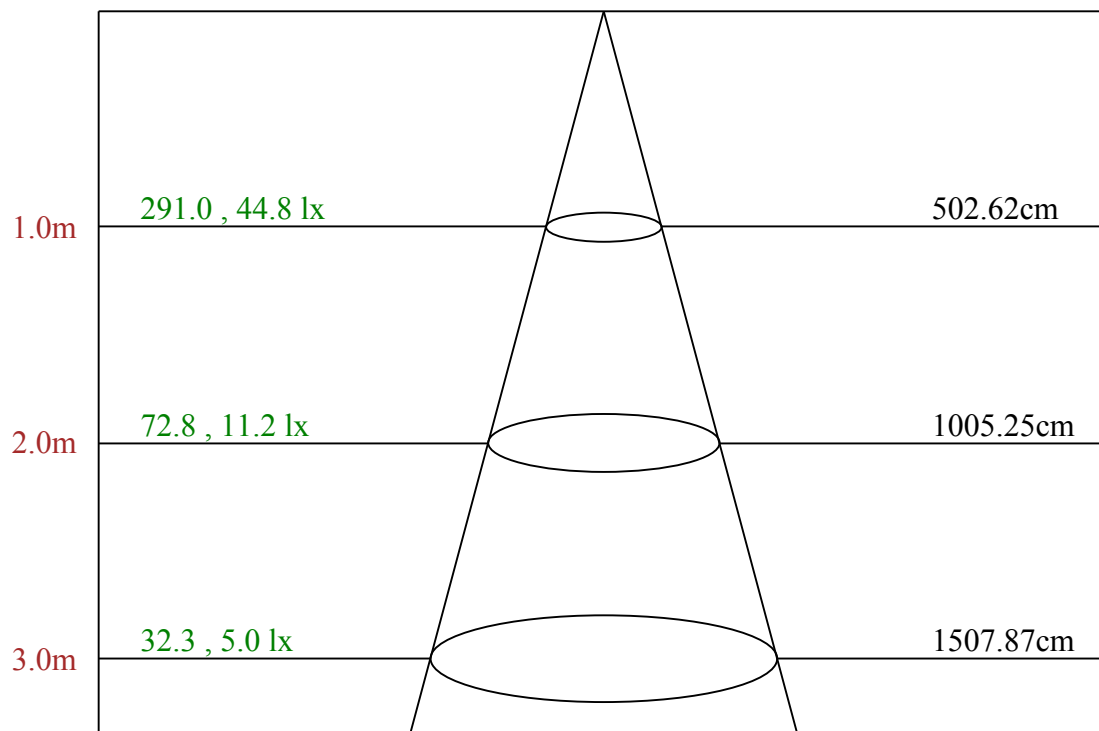
Equipment: equipamento lumini
Temperature(°C): 24.2

Date: 28/01/2025
Humidity(%): 68.0%

Operator: 01
Distance(m): 6.90

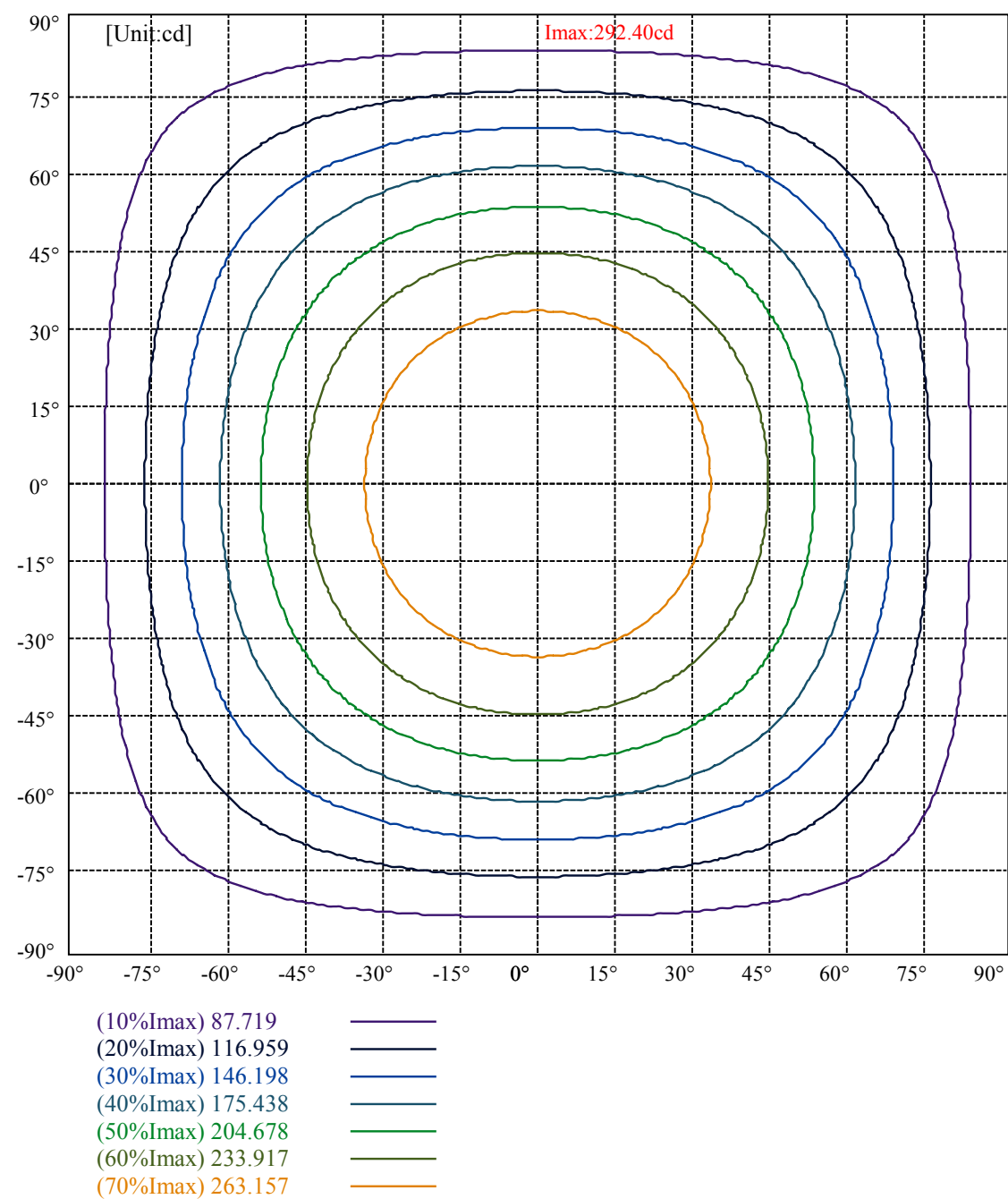


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 136.60



Luminance Table

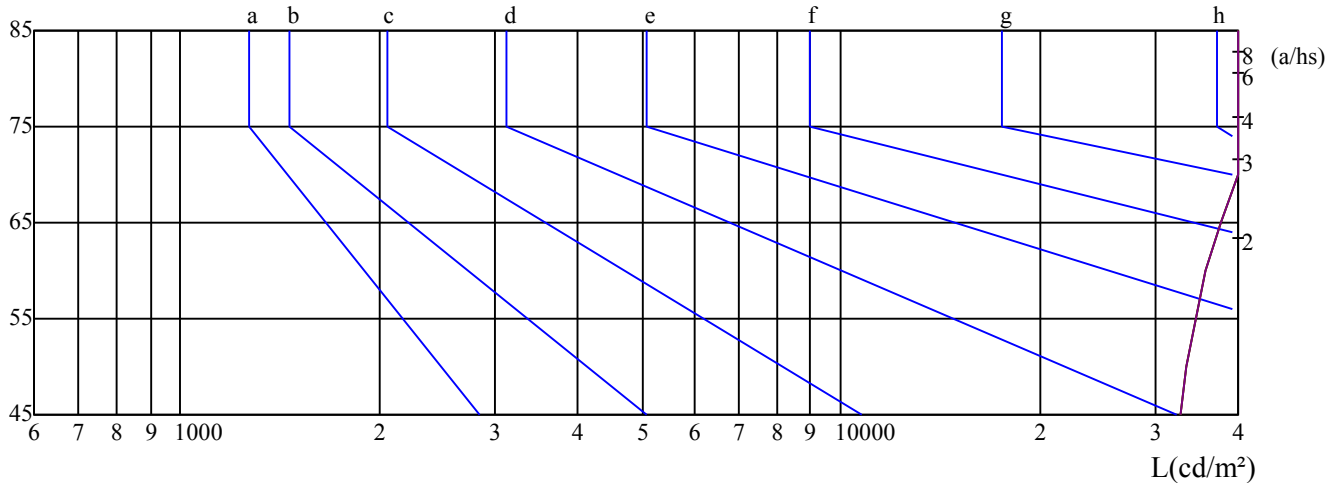
γ	45	50	55	60	65	70	75	80	85
C0	32743	33467	34483	35742	37555	40513	45569	56648	93090
C45	32743	33467	34483	35742	37555	40513	45569	56648	93090
C90	32743	33467	34483	35742	37555	40513	45569	56648	93090

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
37555	37555	37555	45569	45569	45569	93090	93090	93090

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	23.97	25.27	24.63	25.96	26.76	22.26	23.55	22.92	24.24	25.05
	3H	26.64	27.82	27.31	28.53	29.35	24.03	25.22	24.71	25.93	26.75
	4H	27.99	29.12	28.68	29.83	30.67	24.72	25.84	25.40	26.55	27.39
	6H	29.51	30.56	30.20	31.28	32.14	25.26	26.32	25.96	27.04	27.90
	8H	30.31	31.33	31.02	32.06	32.93	25.43	26.46	26.14	27.18	28.05
	12H	31.22	32.20	31.93	32.94	33.81	25.55	26.54	26.26	27.27	28.14
4H	2H	24.75	25.88	25.44	26.59	27.43	23.53	24.65	24.22	25.37	26.20
	3H	27.59	28.57	28.29	29.30	30.17	25.54	26.52	26.25	27.25	28.13
	4H	29.16	30.05	29.89	30.80	31.69	26.47	27.36	27.20	28.11	29.00
	6H	30.82	31.62	31.57	32.39	33.28	27.18	27.98	27.92	28.74	29.64
	8H	31.77	32.52	32.52	33.29	34.20	27.47	28.22	28.22	28.99	29.89
	12H	32.83	33.53	33.59	34.30	35.24	27.69	28.39	28.45	29.15	30.09
8H	4H	29.58	30.33	30.34	31.10	32.01	27.42	28.17	28.18	28.94	29.85
	6H	31.49	32.13	32.26	32.91	33.85	28.48	29.12	29.25	29.90	30.84
	8H	32.67	33.23	33.45	34.04	34.97	29.02	29.59	29.81	30.40	31.33
	12H	33.94	34.44	34.73	35.25	36.19	29.43	29.92	30.22	30.73	31.67
12H	4H	29.65	30.35	30.41	31.11	32.05	27.70	28.40	28.45	29.16	30.10
	6H	31.69	32.26	32.48	33.07	34.00	29.00	29.56	29.78	30.37	31.30
	8H	32.91	33.40	33.70	34.22	35.16	29.65	30.14	30.44	30.96	31.90
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.0					0.2/-1.0				
S = 1.5H		0.4/-0.9					0.4/-0.9				
S = 2.0H		0.2/-0.7					0.2/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		15.1					15.1				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil c mp 12.5W

LampCAT: modulo led 25W/m 12Vdc 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.7000

Test No:

Current(A): 0.1510

Number of Lamps: 1

Power (W): 17.0110

Lamp flux(lm): 1748.0

PF: 0.8830

Length(mm): 500

Width(mm): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1073.95, Efficiency(%): 61.44% , Luminous Efficacy(lm/W): 63.13

Central intensity(cd): 343.482, Maximum intensity(cd): 343.482

Angle of maximum intensity: C=0.0 γ =0.0

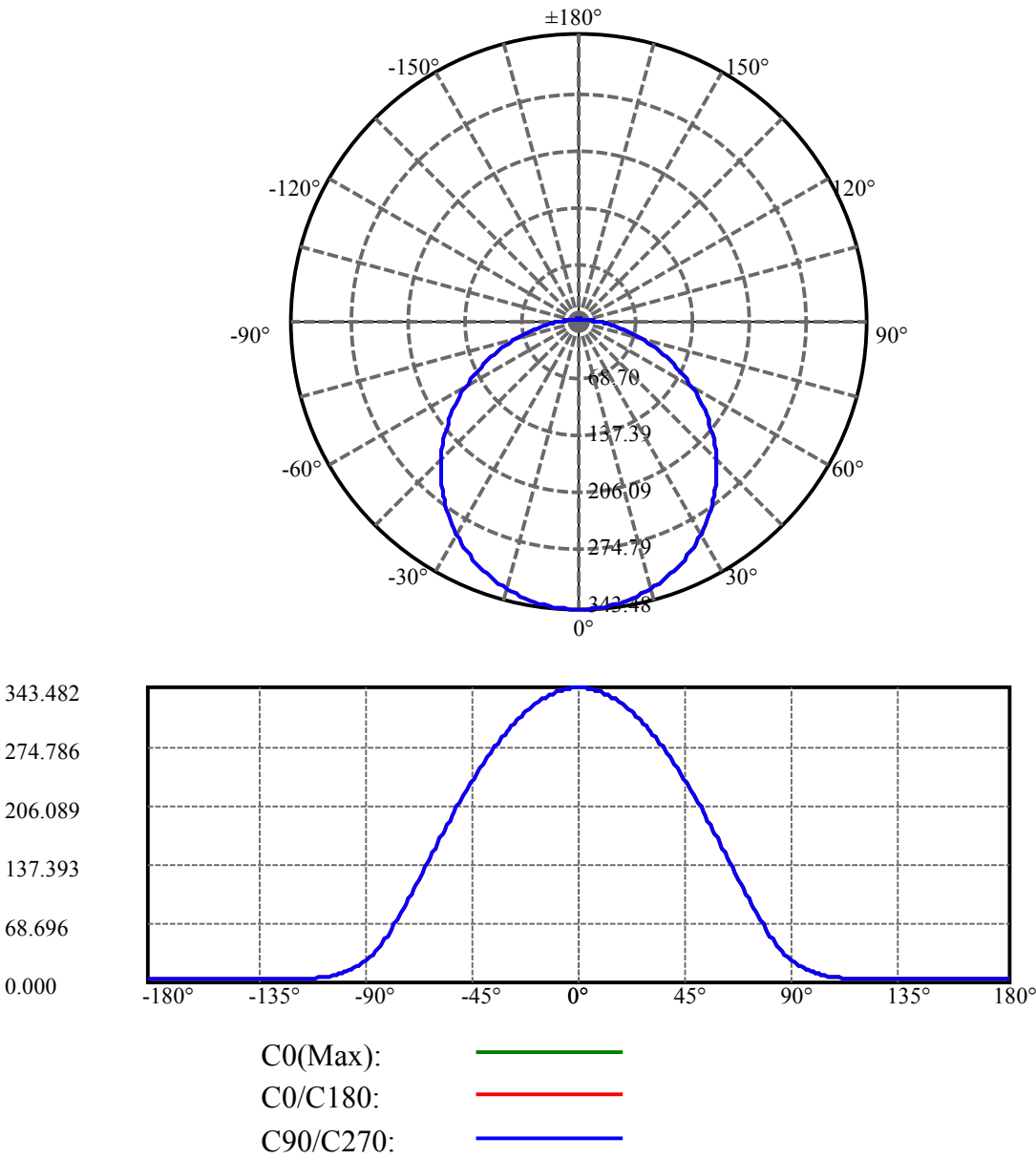
Beam angle of C0 plane : 114.37

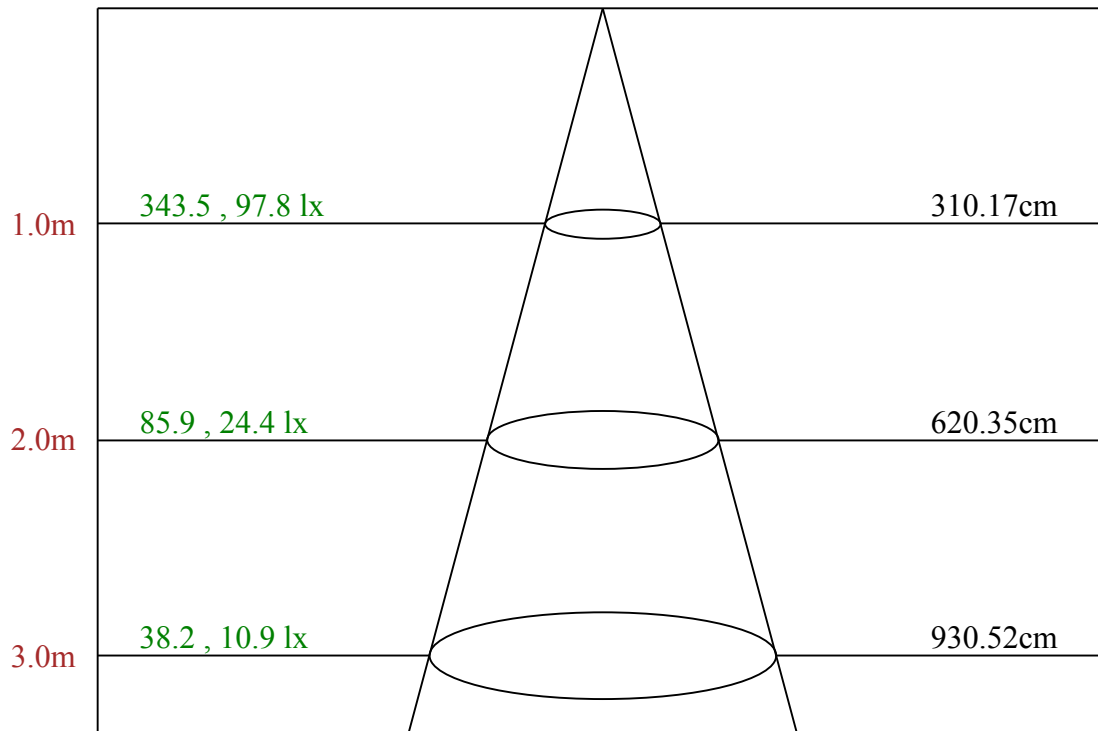
Aveage BeamAngle(IEC 61341):114.37

Equipment: equipamento lumini
Temperature(°C): 25.5

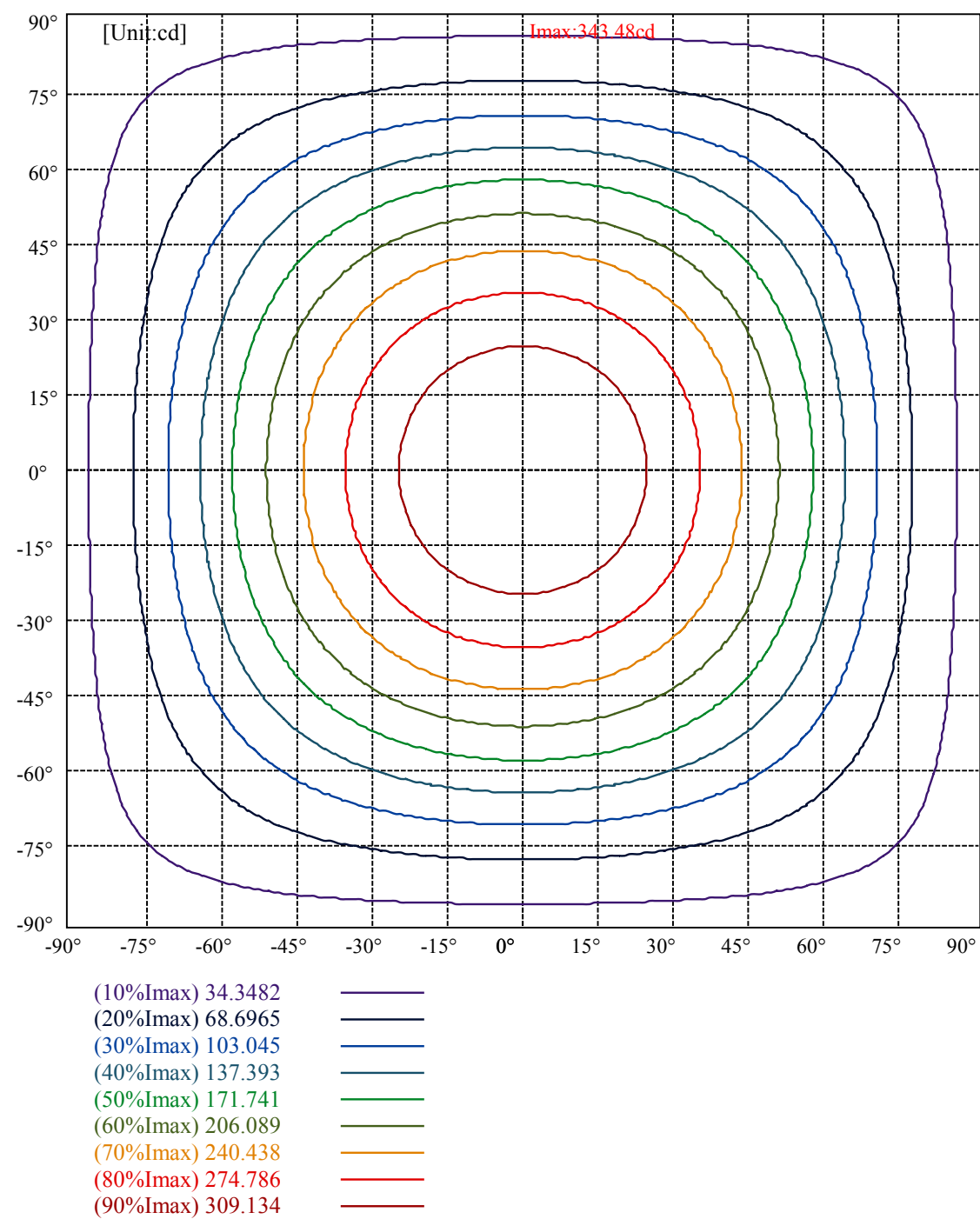
Date: 28/04/2025
Humidity(%): 64.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 114.37



Luminance Table

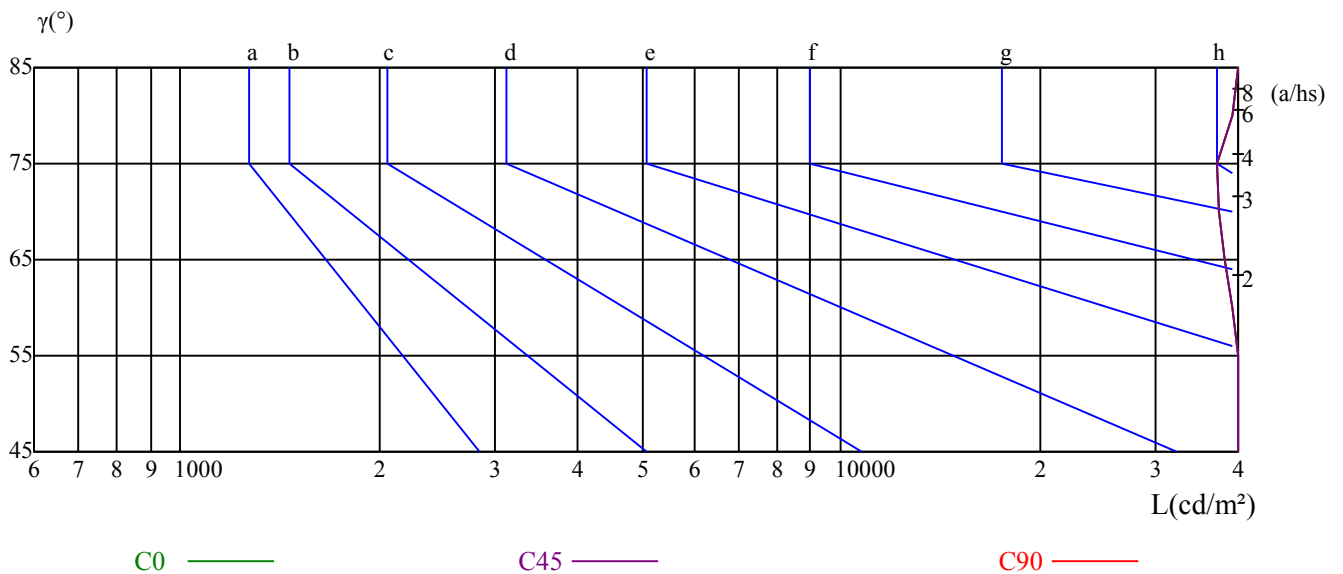
γ	45	50	55	60	65	70	75	80	85
C0	41164	40560	39917	39173	38169	37380	37158	39074	51571
C45	41164	40560	39917	39173	38169	37380	37158	39074	51571
C90	41164	40560	39917	39173	38169	37380	37158	39074	51571

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
38169	38169	38169	37158	37158	37158	51571	51571	51571

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	25.38	26.96	25.80	27.35	27.76	25.37	26.95	25.79	27.34	27.76
	3H	27.35	28.79	27.79	29.20	29.64	27.18	28.62	27.62	29.04	29.48
	4H	28.26	29.62	28.71	30.05	30.50	27.87	29.23	28.33	29.66	30.11
	6H	29.19	30.46	29.66	30.90	31.38	28.43	29.69	28.89	30.14	30.62
	8H	29.66	30.88	30.12	31.33	31.82	28.59	29.81	29.06	30.26	30.75
	12H	30.16	31.34	30.63	31.80	32.30	28.69	29.87	29.16	30.32	30.82
4H	2H	26.19	27.55	26.64	27.97	28.43	26.18	27.54	26.63	27.96	28.42
	3H	28.32	29.49	28.80	29.95	30.45	28.16	29.33	28.64	29.79	30.29
	4H	29.43	30.48	29.92	30.96	31.49	29.05	30.10	29.54	30.58	31.11
	6H	30.48	31.42	31.00	31.93	32.46	29.72	30.65	30.24	31.16	31.69
	8H	31.06	31.94	31.59	32.45	33.00	29.98	30.85	30.50	31.37	31.91
	12H	31.69	32.51	32.23	33.02	33.60	30.16	30.98	30.69	31.49	32.07
8H	4H	29.83	30.70	30.35	31.22	31.76	29.49	30.37	30.02	30.89	31.43
	6H	31.08	31.82	31.63	32.35	32.94	30.36	31.11	30.91	31.64	32.22
	8H	31.86	32.51	32.42	33.08	33.65	30.80	31.45	31.36	32.02	32.59
	12H	32.67	33.23	33.24	33.80	34.39	31.10	31.66	31.68	32.23	32.82
12H	4H	29.88	30.70	30.42	31.21	31.79	29.59	30.40	30.12	30.91	31.50
	6H	31.26	31.91	31.82	32.48	33.05	30.59	31.24	31.15	31.81	32.38
	8H	32.06	32.62	32.64	33.19	33.78	31.06	31.62	31.64	32.19	32.78
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.5/-0.7					0.5/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		15.0					15.0				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 2.5W (difusor alto)

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

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): 279.0

PF: 0.0000

Length(mm): 500

Width(mm): 20

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 228.47, Efficiency(%): 81.89% , Luminous Efficacy(lm/W): 43.17

Central intensity(cd): 46.003, Maximum intensity(cd): 46.164

Angle of maximum intensity: C=0.0 γ =9.0

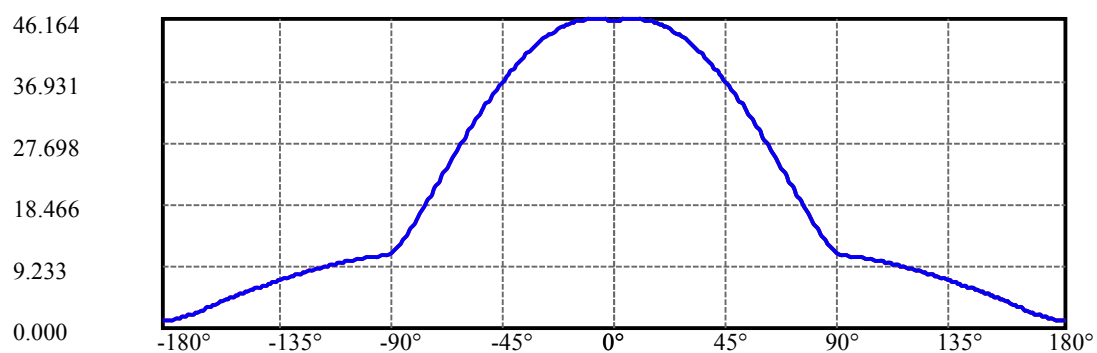
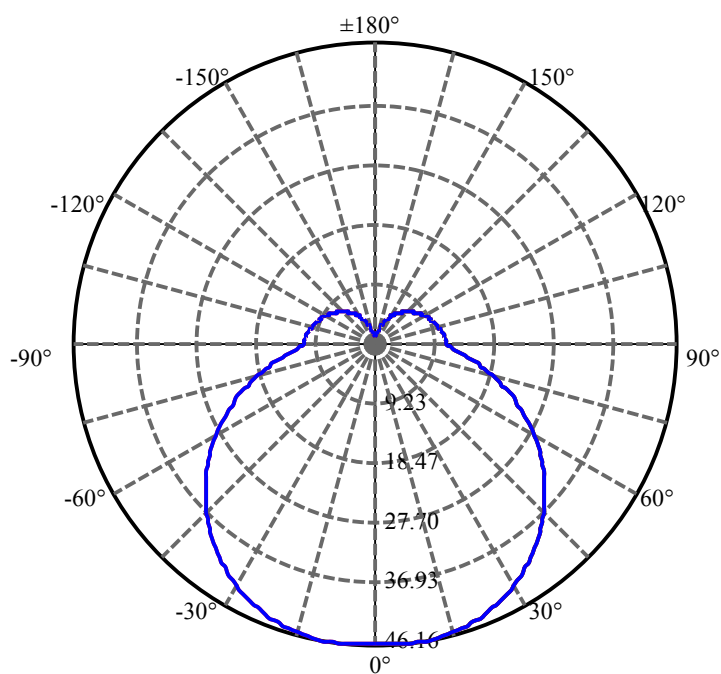
Beam angle of C0 plane : 136.37

Aveage BeamAngle(IEC 61341):136.37

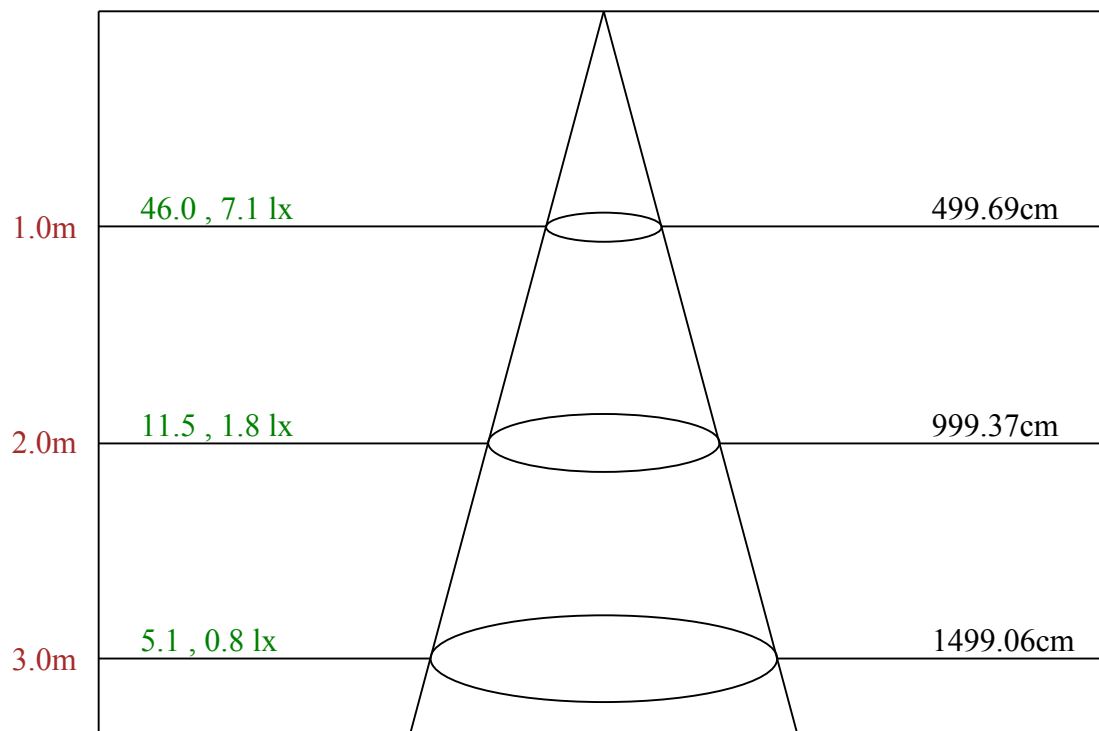
Equipment: equipamento lumini
Temperature(°C): 24.4

Date: 13/01/2025
Humidity(%): 61.0%

Operator: 01
Distance(m): 6.90

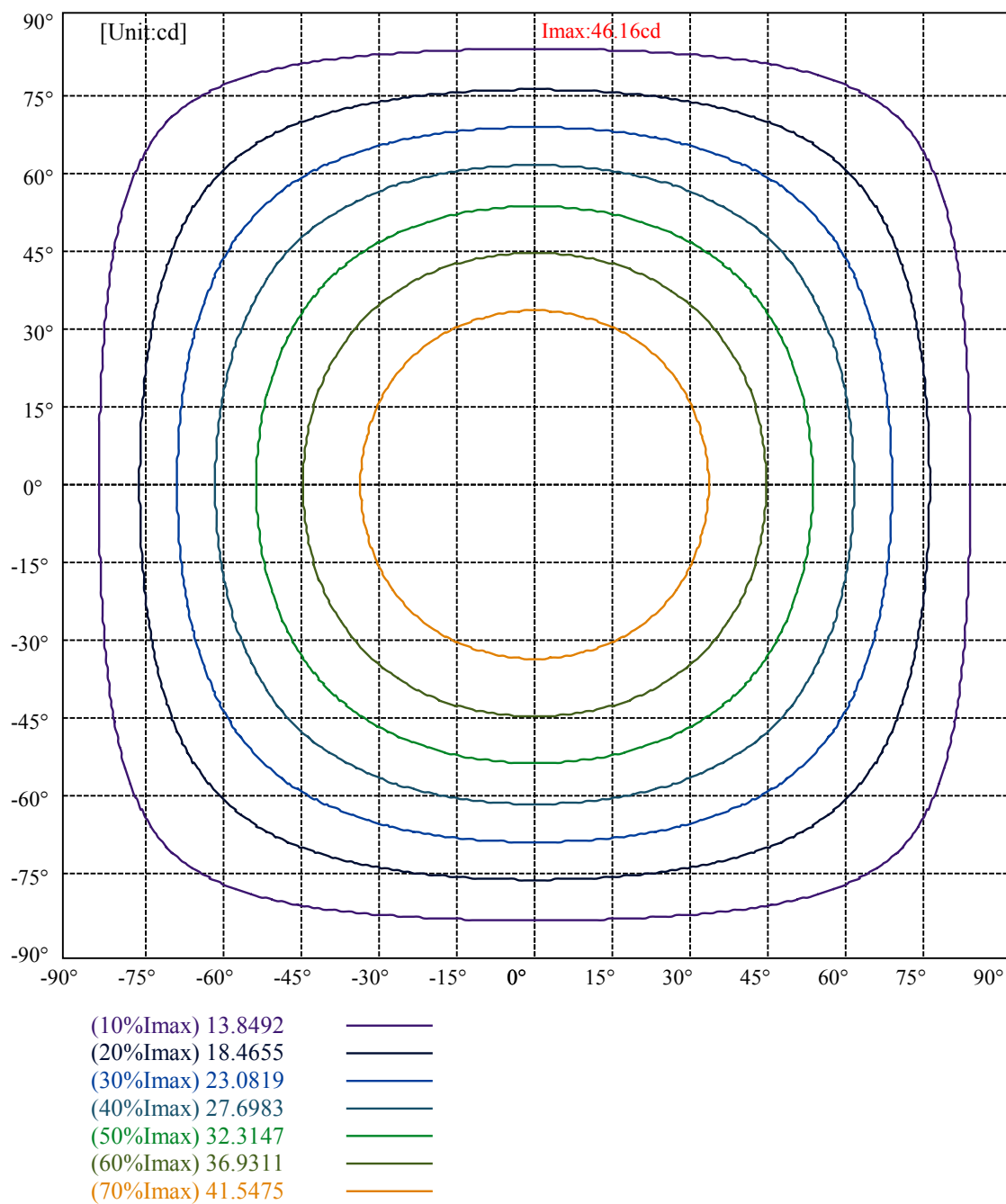


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 136.37



Luminance Table

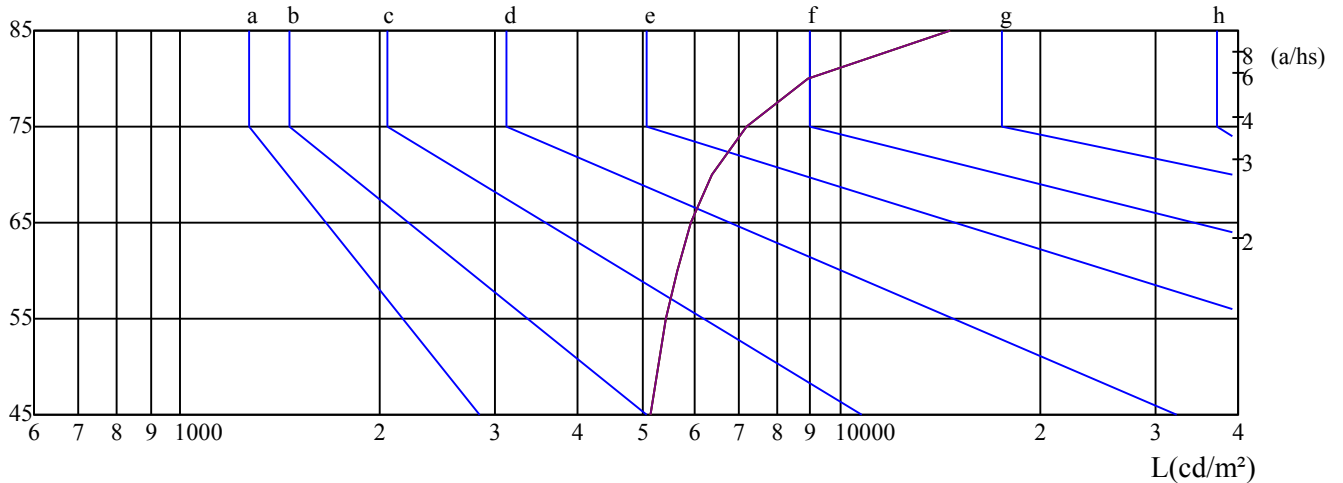
γ	45	50	55	60	65	70	75	80	85
C0	5163	5279	5439	5645	5917	6391	7188	8918	14599
C45	5163	5279	5439	5645	5917	6391	7188	8918	14599
C90	5163	5279	5439	5645	5917	6391	7188	8918	14599

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5917	5917	5917	7188	7188	7188	14599	14599	14599

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	17.70	18.99	18.35	19.68	20.48	15.95	17.24	16.60	17.93	18.73
	3H	20.39	21.58	21.06	22.28	23.10	17.73	18.92	18.41	19.62	20.45
	4H	21.76	22.89	22.45	23.60	24.44	18.43	19.55	19.12	20.27	21.10
	6H	23.30	24.36	24.00	25.07	25.94	18.99	20.04	19.69	20.76	21.62
	8H	24.12	25.14	24.82	25.87	26.73	19.16	20.19	19.87	20.91	21.78
	12H	25.04	26.03	25.75	26.76	27.63	19.29	20.27	20.00	21.00	21.88
4H	2H	18.47	19.60	19.16	20.31	21.15	17.22	18.35	17.91	19.06	19.90
	3H	21.33	22.31	22.04	23.05	23.92	19.25	20.23	19.96	20.96	21.83
	4H	22.93	23.82	23.66	24.57	25.46	20.20	21.09	20.92	21.83	22.73
	6H	24.62	25.42	25.37	26.19	27.08	20.92	21.72	21.66	22.49	23.38
	8H	25.58	26.33	26.33	27.10	28.01	21.21	21.97	21.97	22.73	23.64
	12H	26.66	27.36	27.42	28.12	29.06	21.45	22.15	22.20	22.91	23.85
8H	4H	23.36	24.11	24.11	24.88	25.79	21.17	21.92	21.92	22.69	23.60
	6H	25.30	25.94	26.06	26.72	27.65	22.24	22.89	23.01	23.66	24.60
	8H	26.49	27.05	27.27	27.86	28.79	22.79	23.36	23.58	24.17	25.10
	12H	27.78	28.27	28.57	29.08	30.02	23.21	23.70	24.00	24.51	25.45
12H	4H	23.43	24.13	24.18	24.89	25.83	21.45	22.15	22.21	22.91	23.85
	6H	25.50	26.07	26.28	26.87	27.80	22.77	23.34	23.56	24.15	25.08
	8H	26.73	27.22	27.52	28.04	28.97	23.43	23.92	24.22	24.74	25.68
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.0					0.2/-1.0				
S = 1.5H		0.4/-0.9					0.4/-0.9				
S = 2.0H		0.2/-0.7					0.2/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		8.7					8.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 2.5W (difusor baixo)

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.8600

Test No:

Current(A): 0.0400

Number of Lamps: 1

Power (W): 3.9440

Lamp flux(lm): 253.0

PF: 0.7740

Length(mm): 500

Width(mm): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 144.92, Efficiency(%): 57.28% , Luminous Efficacy(lm/W): 36.74

Central intensity(cd): 46.075, Maximum intensity(cd): 46.098

Angle of maximum intensity: C=0.0 γ =1.0

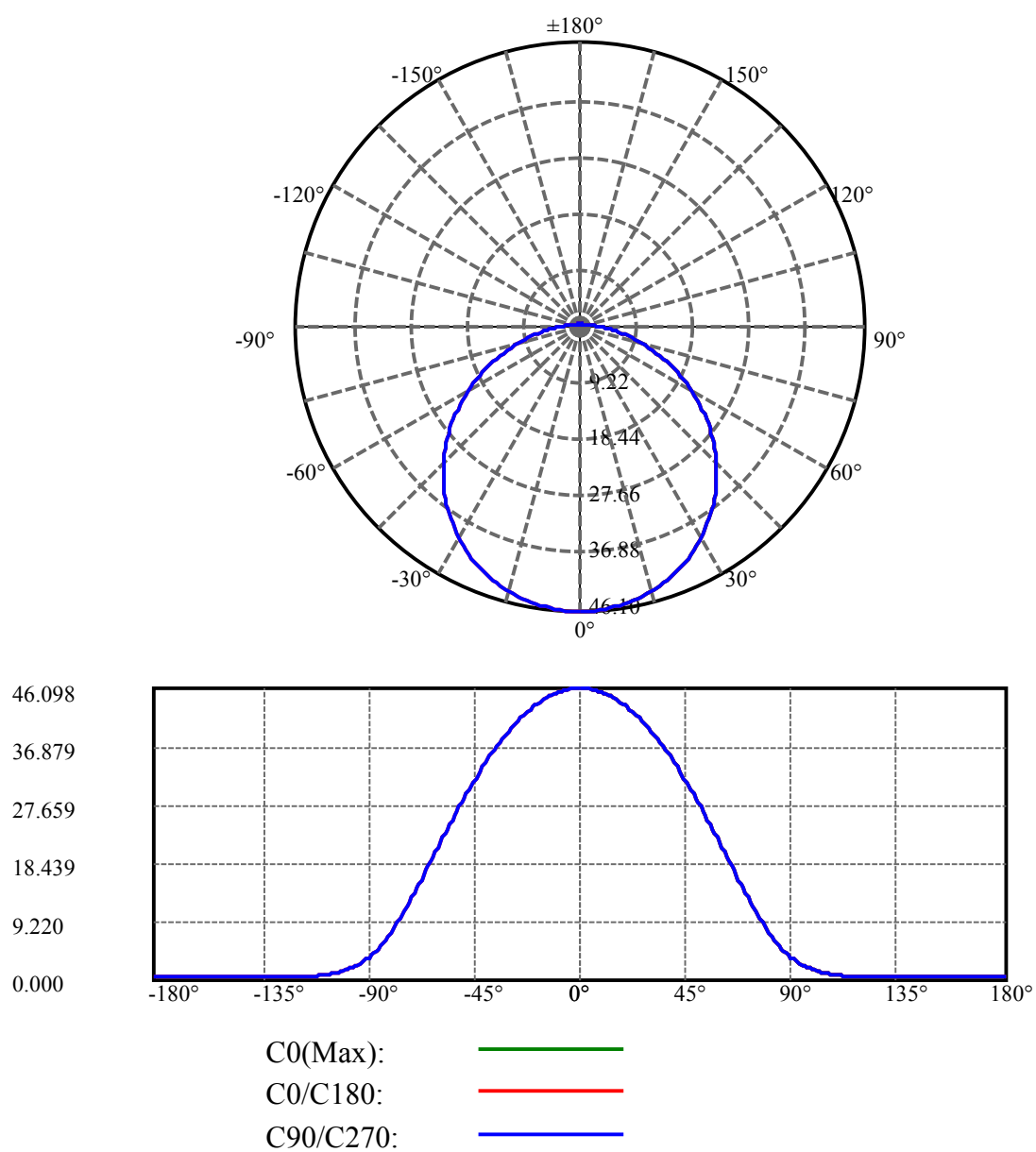
Beam angle of C0 plane : 114.56

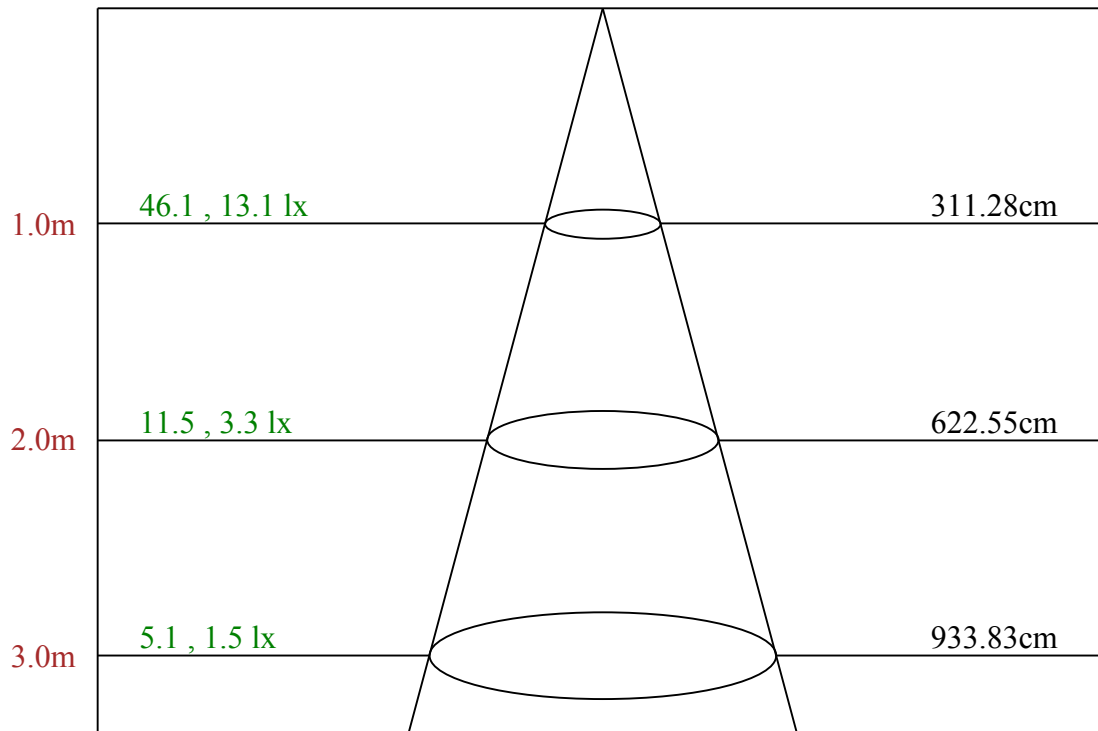
Aveage BeamAngle(IEC 61341):114.56

Equipment: equipamento lumini
Temperature(°C): 26.2

Date: 22/04/2025
Humidity(%): 56.0%

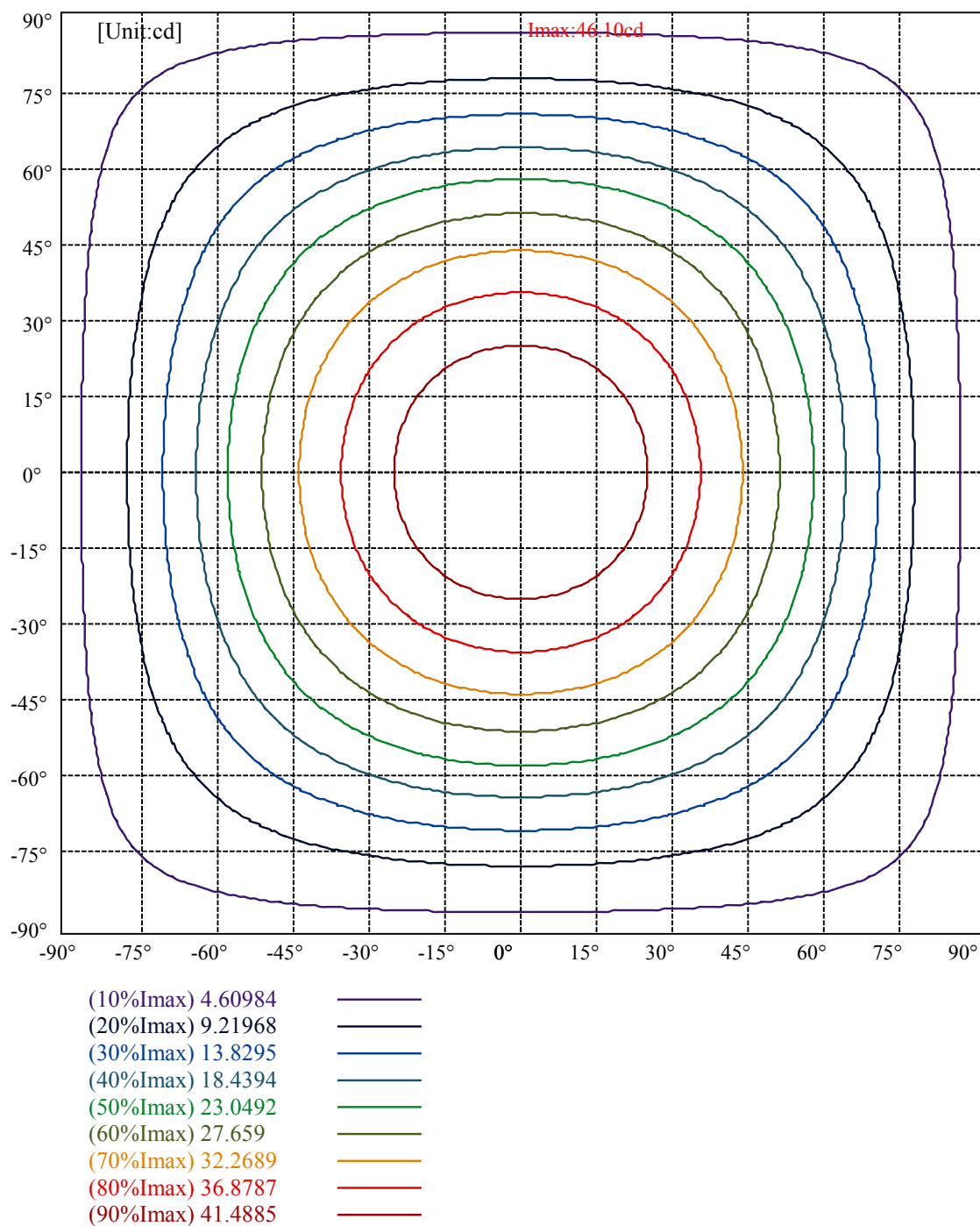
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 114.56



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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	5525	5458	5355	5246	5131	5044	5018	5351	7101
C45	5525	5458	5355	5246	5131	5044	5018	5351	7101
C90	5525	5458	5355	5246	5131	5044	5018	5351	7101

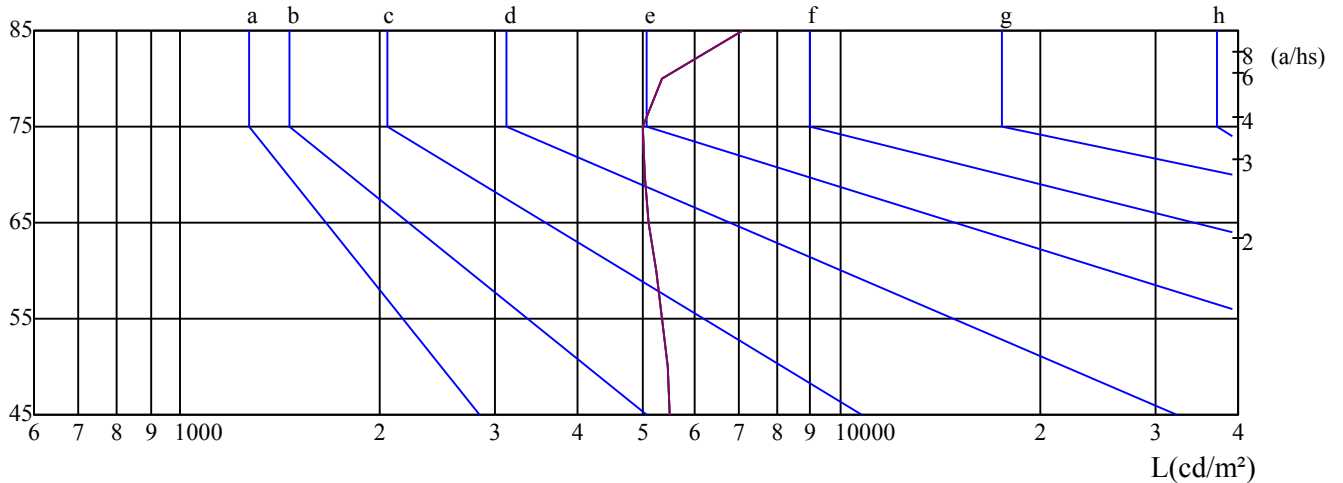
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5131	5131	5131	5018	5018	5018	7101	7101	7101

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): 26.2

Date: 22/04/2025
Humidity(%): 56.0%

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	18.19	19.77	18.62	20.17	20.59	18.25	19.82	18.67	20.22	20.64
	3H	20.13	21.57	20.57	21.99	22.43	20.03	21.47	20.48	21.89	22.33
	4H	21.03	22.39	21.49	22.82	23.28	20.71	22.07	21.17	22.50	22.96
	6H	21.97	23.23	22.44	23.68	24.17	21.25	22.51	21.71	22.95	23.44
	8H	22.44	23.66	22.91	24.11	24.61	21.40	22.62	21.87	23.07	23.57
	12H	22.97	24.14	23.44	24.60	25.11	21.49	22.67	21.97	23.13	23.63
4H	2H	18.98	20.33	19.43	20.77	21.23	19.02	20.37	19.47	20.81	21.26
	3H	21.08	22.24	21.56	22.71	23.21	20.97	22.14	21.45	22.60	23.10
	4H	22.18	23.22	22.67	23.71	24.24	21.84	22.89	22.34	23.38	23.91
	6H	23.23	24.17	23.75	24.68	25.21	22.49	23.43	23.01	23.94	24.47
	8H	23.82	24.70	24.35	25.22	25.77	22.74	23.62	23.27	24.13	24.68
	12H	24.48	25.30	25.02	25.81	26.40	22.92	23.74	23.45	24.25	24.84
8H	4H	22.55	23.43	23.08	23.95	24.50	22.26	23.13	22.79	23.65	24.20
	6H	23.81	24.55	24.36	25.08	25.67	23.10	23.84	23.65	24.38	24.96
	8H	24.60	25.25	25.17	25.82	26.40	23.53	24.18	24.09	24.75	25.33
	12H	25.44	26.00	26.02	26.58	27.17	23.83	24.39	24.40	24.96	25.55
12H	4H	22.61	23.43	23.14	23.94	24.52	22.34	23.16	22.88	23.67	24.26
	6H	23.98	24.63	24.55	25.21	25.78	23.32	23.97	23.89	24.55	25.12
	8H	24.80	25.36	25.38	25.94	26.53	23.79	24.35	24.36	24.92	25.51
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.5/-0.7					0.5/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		8.0					8.0				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 2.5W (difusor alto)

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): 20

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 218.14, Efficiency(%): 80.20% , Luminous Efficacy(lm/W): 41.22

Central intensity(cd): 45.694, Maximum intensity(cd): 45.831

Angle of maximum intensity: C=0.0 γ =5.0

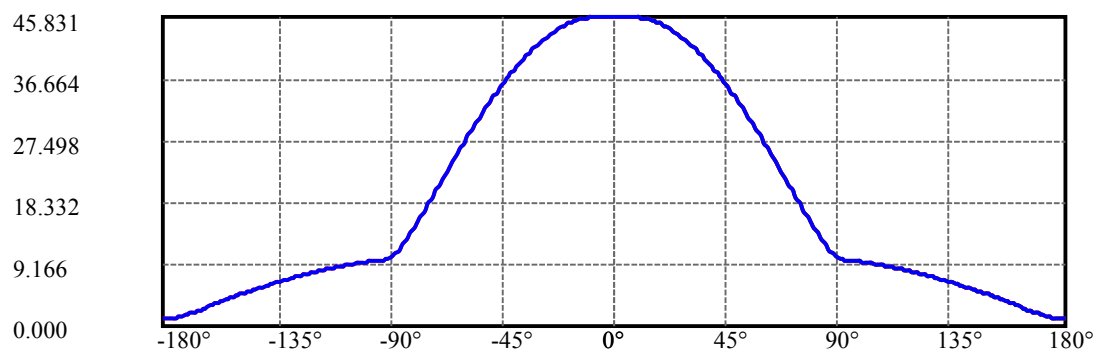
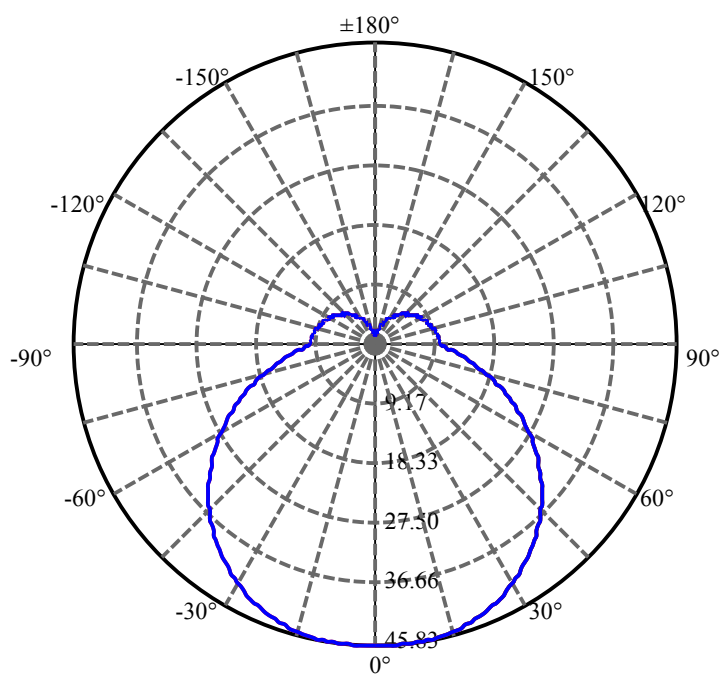
Beam angle of C0 plane : 133.38

Aveage BeamAngle(IEC 61341):133.38

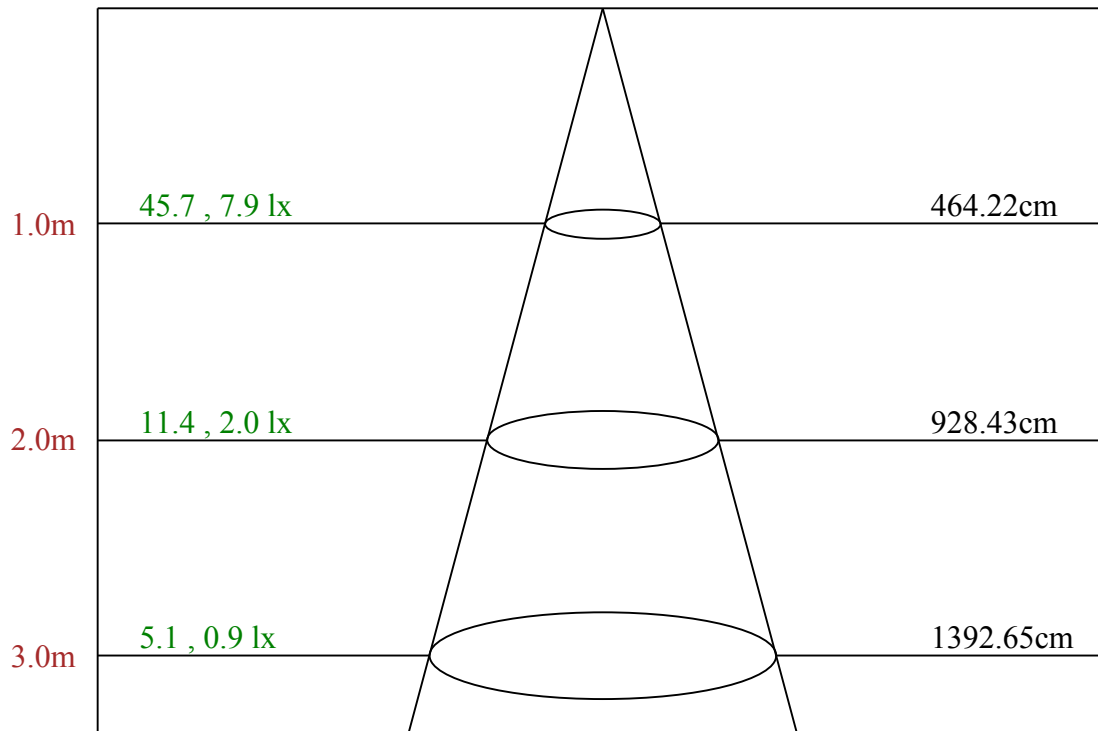
Equipment: equipamento lumini
Temperature(°C): 25.2

Date: 14/01/2025
Humidity(%): 57.0%

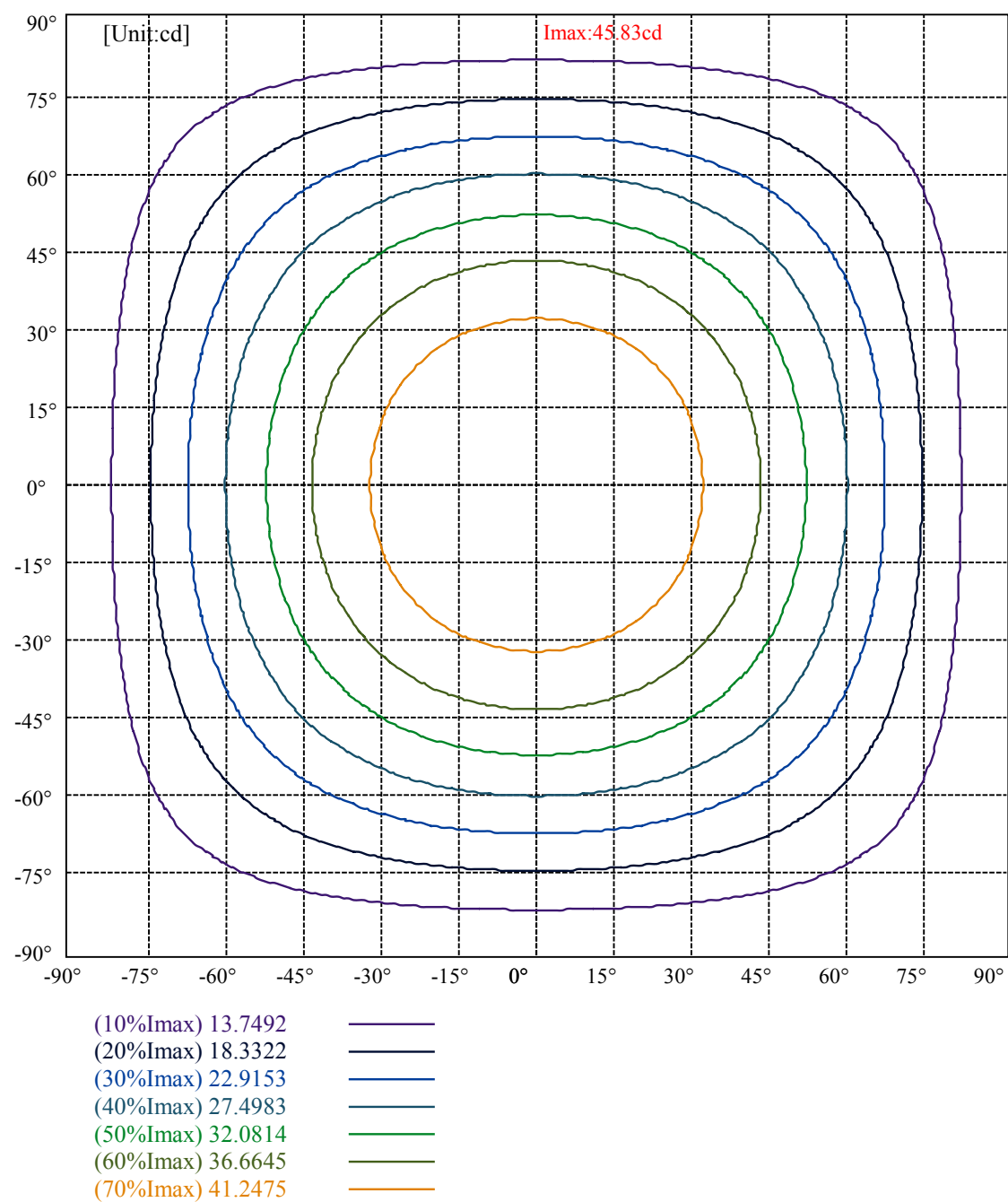
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 133.38



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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	5032	5129	5251	5419	5657	6078	6762	8314	13383
C45	5032	5129	5251	5419	5657	6078	6762	8314	13383
C90	5032	5129	5251	5419	5657	6078	6762	8314	13383

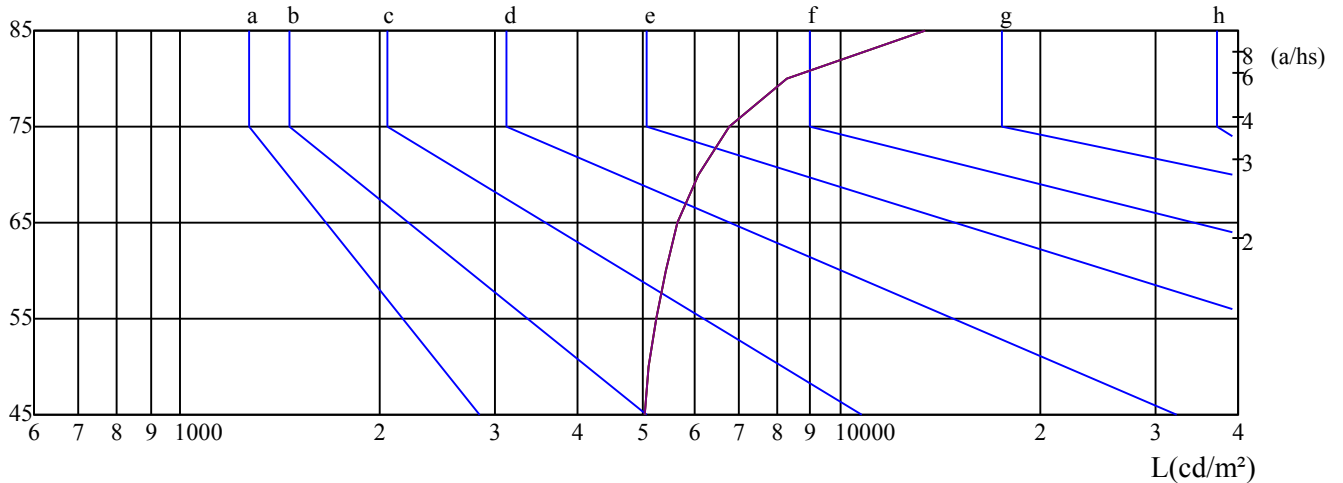
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5657	5657	5657	6762	6762	6762	13383	13383	13383

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($^{\circ}\text{C}$): 25.2

Date: 14/01/2025
Humidity(%): 57.0%

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	17.70	19.00	18.34	19.68	20.46	16.02	17.33	16.67	18.01	18.79
	3H	20.34	21.54	21.01	22.23	23.04	17.79	18.99	18.46	19.68	20.49
	4H	21.68	22.82	22.36	23.52	24.34	18.48	19.61	19.16	20.31	21.13
	6H	23.18	24.24	23.87	24.95	25.79	19.04	20.10	19.72	20.80	21.65
	8H	23.98	25.01	24.67	25.72	26.57	19.20	20.23	19.89	20.94	21.79
	12H	24.87	25.86	25.57	26.58	27.44	19.31	20.30	20.01	21.02	21.87
4H	2H	18.47	19.60	19.14	20.30	21.12	17.27	18.40	17.94	19.10	19.92
	3H	21.29	22.28	21.99	22.99	23.85	19.28	20.27	19.98	20.98	21.84
	4H	22.85	23.74	23.56	24.48	25.35	20.21	21.10	20.92	21.84	22.72
	6H	24.50	25.30	25.23	26.06	26.93	20.92	21.73	21.66	22.48	23.36
	8H	25.43	26.19	26.17	26.94	27.83	21.21	21.96	21.95	22.72	23.61
	12H	26.48	27.19	27.23	27.94	28.86	21.42	22.12	22.17	22.87	23.80
8H	4H	23.27	24.02	24.01	24.78	25.67	21.15	21.90	21.89	22.66	23.55
	6H	25.16	25.81	25.92	26.58	27.50	22.21	22.85	22.97	23.62	24.54
	8H	26.33	26.90	27.10	27.69	28.61	22.74	23.31	23.52	24.10	25.02
	12H	27.59	28.08	28.37	28.89	29.81	23.13	23.62	23.91	24.42	25.34
12H	4H	23.33	24.04	24.08	24.79	25.71	21.41	22.12	22.16	22.87	23.79
	6H	25.37	25.93	26.14	26.73	27.65	22.72	23.28	23.49	24.08	25.00
	8H	26.57	27.06	27.35	27.87	28.79	23.36	23.85	24.14	24.65	25.57
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.9					0.2/-0.9				
S = 1.5H		0.4/-0.9					0.4/-0.9				
S = 2.0H		0.2/-0.7					0.2/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		8.5					8.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 2.5W

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.8700

Test No:

Current(A): 0.0410

Number of Lamps: 1

Power (W): 4.7000

Lamp flux(lm): 272.0

PF: 0.8870

Length(mm): 500

Width(mm): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 160.36, Efficiency(%): 58.96% , Luminous Efficacy(lm/W): 34.12

Central intensity(cd): 51.514, Maximum intensity(cd): 51.520

Angle of maximum intensity: C=0.0 γ =1.0

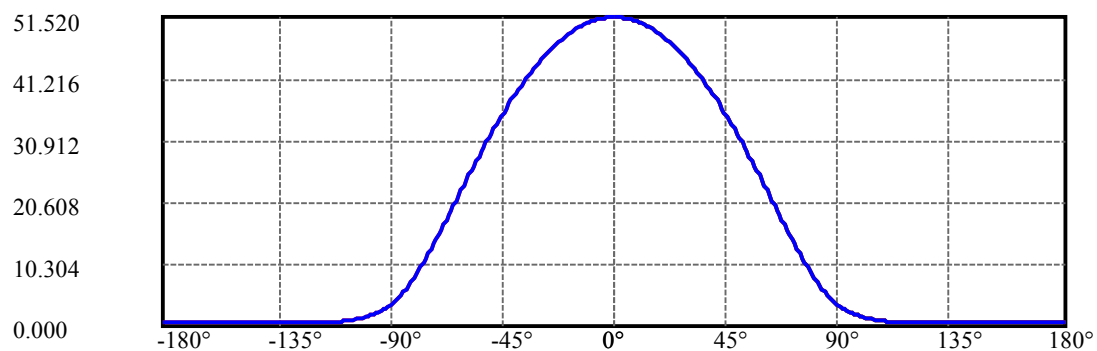
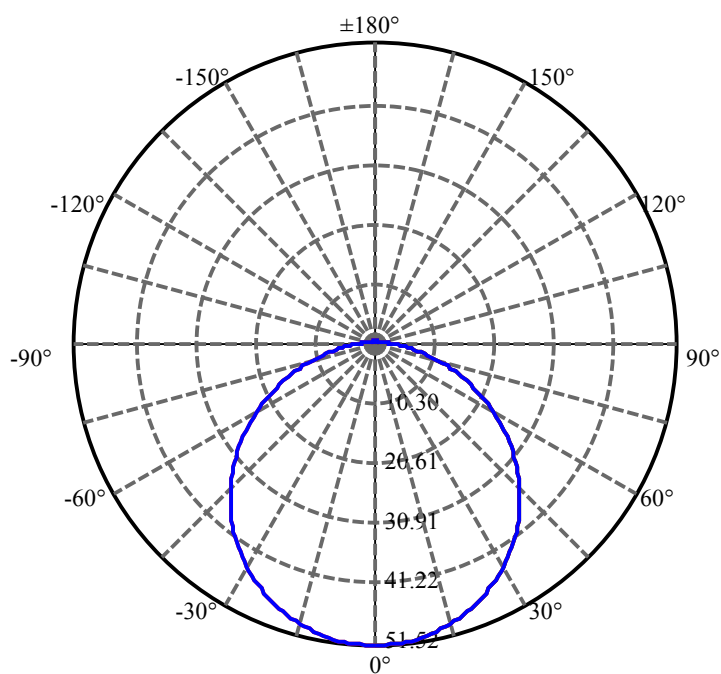
Beam angle of C0 plane : 114.27

Aveage BeamAngle(IEC 61341):114.27

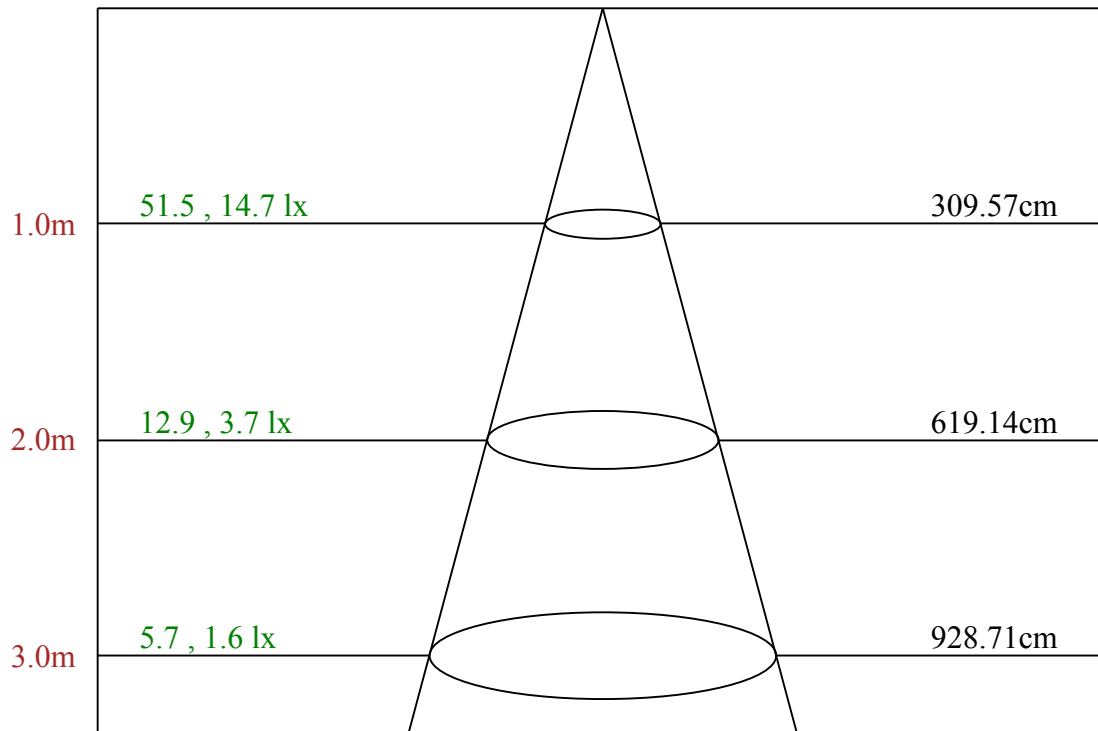
Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 06/05/2025
Humidity(%): 64.0%

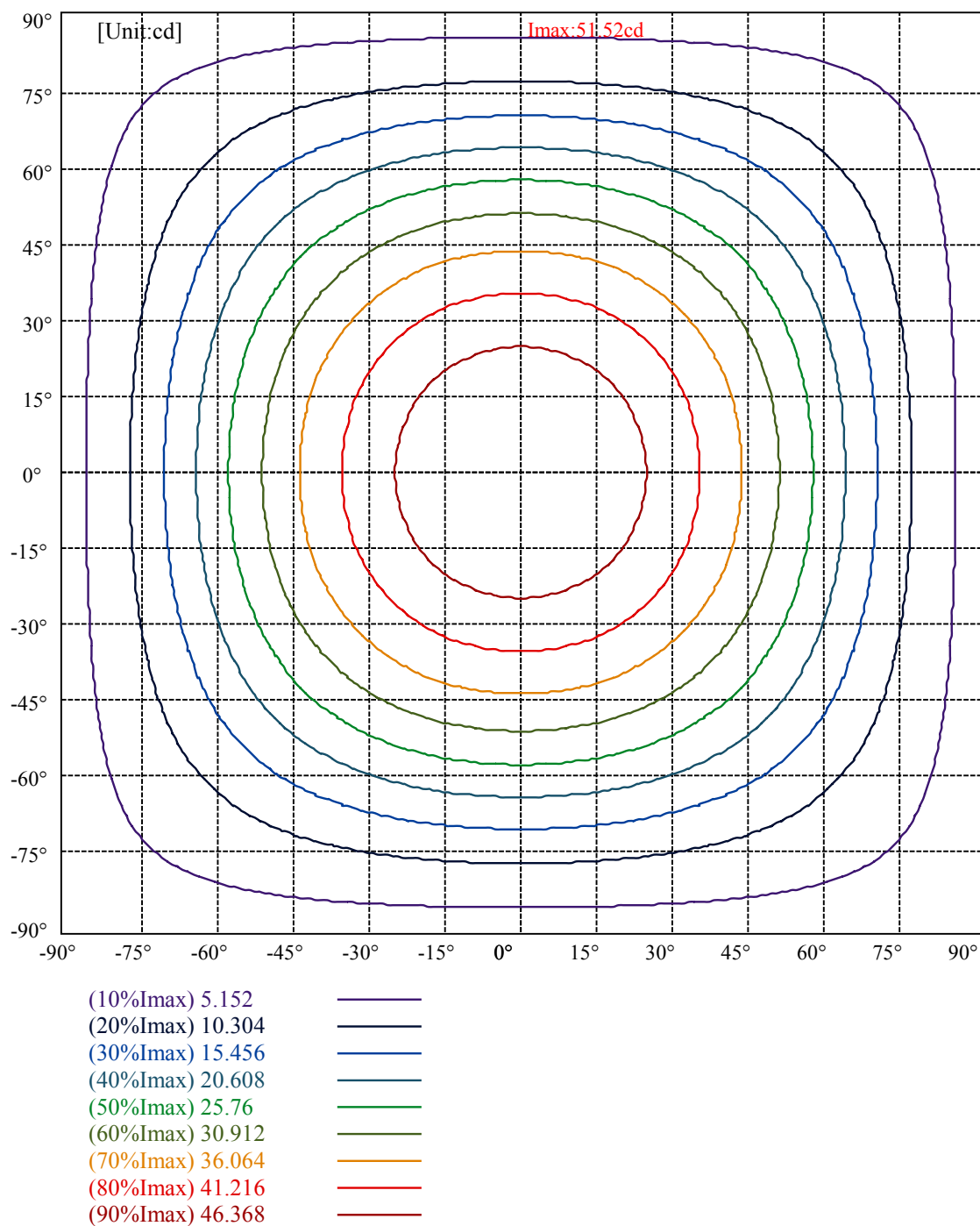
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 114.27



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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	6180	6090	5993	5869	5715	5559	5478	5698	7400
C45	6180	6090	5993	5869	5715	5559	5478	5698	7400
C90	6180	6090	5993	5869	5715	5559	5478	5698	7400

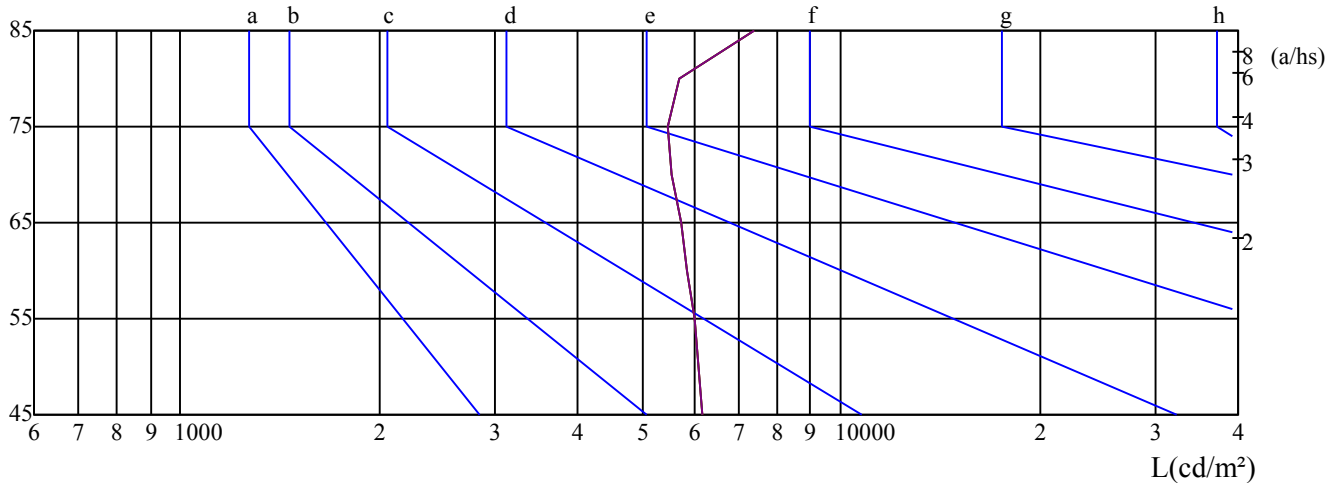
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5715	5715	5715	5478	5478	5478	7400	7400	7400

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: 06/05/2025
Humidity(%): 64.0%

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	18.77	20.35	19.19	20.75	21.16	18.80	20.38	19.22	20.78	21.19
	3H	20.71	22.15	21.15	22.56	23.00	20.63	22.07	21.07	22.49	22.92
	4H	21.59	22.95	22.04	23.37	23.82	21.34	22.69	21.79	23.12	23.57
	6H	22.48	23.74	22.94	24.18	24.66	21.90	23.17	22.36	23.61	24.09
	8H	22.91	24.14	23.38	24.58	25.07	22.07	23.30	22.54	23.74	24.23
	12H	23.38	24.56	23.85	25.01	25.51	22.18	23.36	22.65	23.81	24.31
4H	2H	19.58	20.93	20.03	21.36	21.81	19.60	20.95	20.05	21.38	21.83
	3H	21.67	22.84	22.14	23.29	23.79	21.59	22.75	22.06	23.21	23.70
	4H	22.75	23.79	23.23	24.27	24.79	22.49	23.53	22.98	24.01	24.53
	6H	23.75	24.69	24.27	25.19	25.72	23.16	24.10	23.68	24.60	25.13
	8H	24.30	25.18	24.83	25.69	26.23	23.43	24.30	23.95	24.81	25.36
	12H	24.89	25.71	25.42	26.21	26.79	23.62	24.44	24.15	24.94	25.52
8H	4H	23.13	24.00	23.65	24.51	25.06	22.90	23.78	23.42	24.28	24.83
	6H	24.33	25.07	24.88	25.60	26.18	23.77	24.51	24.31	25.04	25.62
	8H	25.07	25.72	25.63	26.29	26.86	24.20	24.85	24.76	25.42	25.99
	12H	25.83	26.39	26.40	26.96	27.55	24.51	25.07	25.08	25.64	26.22
12H	4H	23.18	24.00	23.71	24.50	25.09	22.98	23.80	23.51	24.30	24.88
	6H	24.50	25.15	25.06	25.72	26.29	23.97	24.63	24.54	25.19	25.76
	8H	25.26	25.82	25.83	26.39	26.98	24.44	24.99	25.01	25.56	26.15
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.5/-0.7					0.5/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		8.3					8.3				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 7.5W (difusor alto)

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): 20

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 558.99, Efficiency(%): 79.06% , Luminous Efficacy(lm/W): 43.35

Central intensity(cd): 112.776, Maximum intensity(cd): 113.258

Angle of maximum intensity: C=0.0 γ =7.0

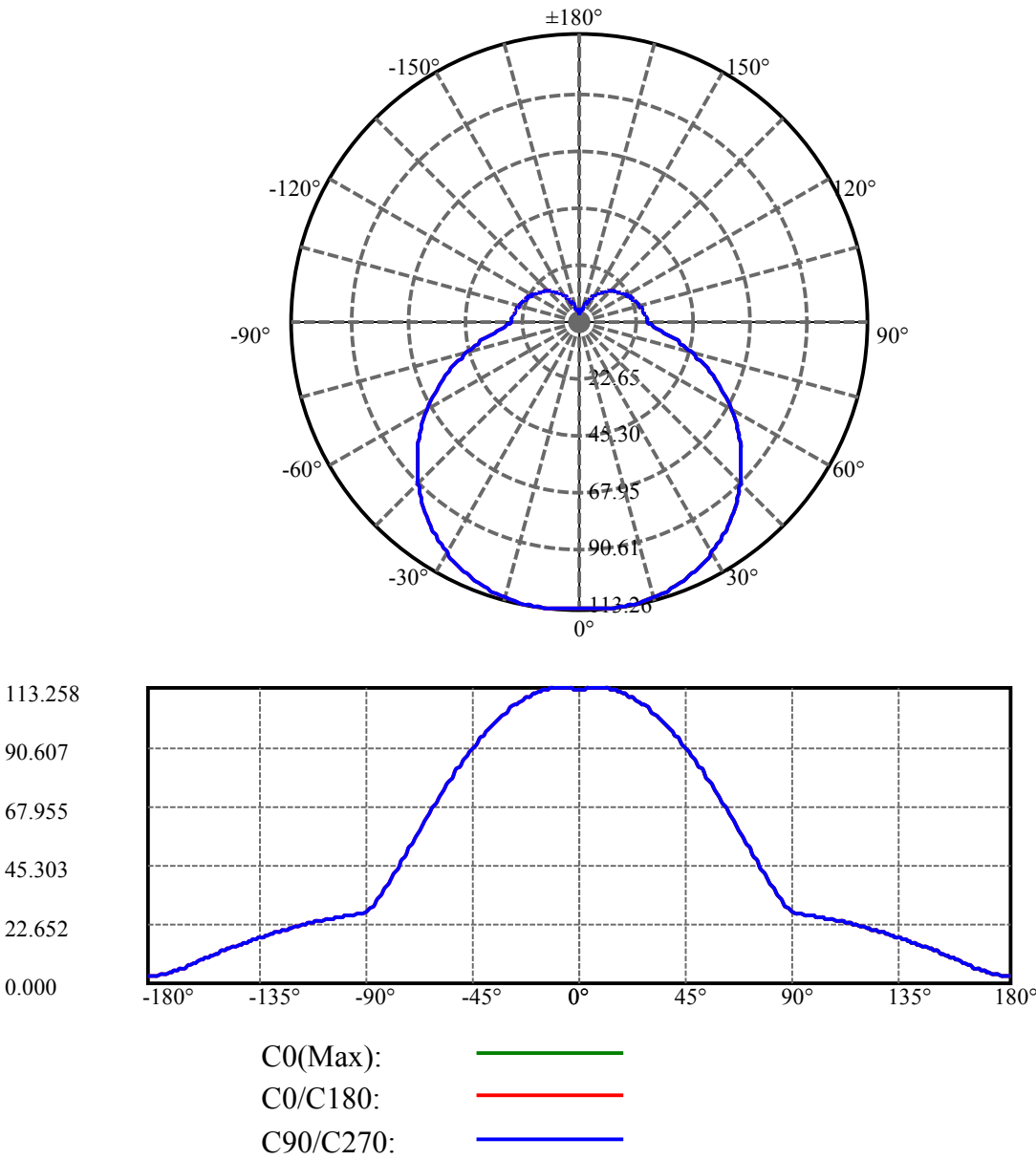
Beam angle of C0 plane : 136.00

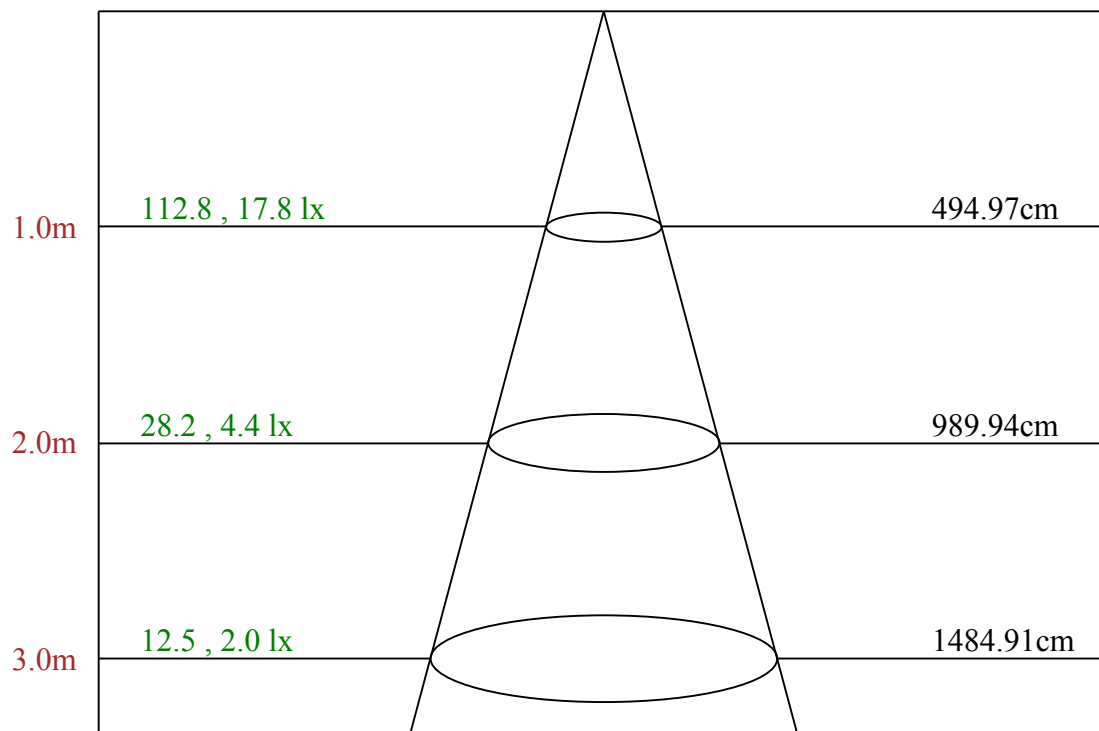
Aveage BeamAngle(IEC 61341):136.00

Equipment: equipamento lumini
Temperature(°C): 25.1

Date: 10/01/2025
Humidity(%): 67.0%

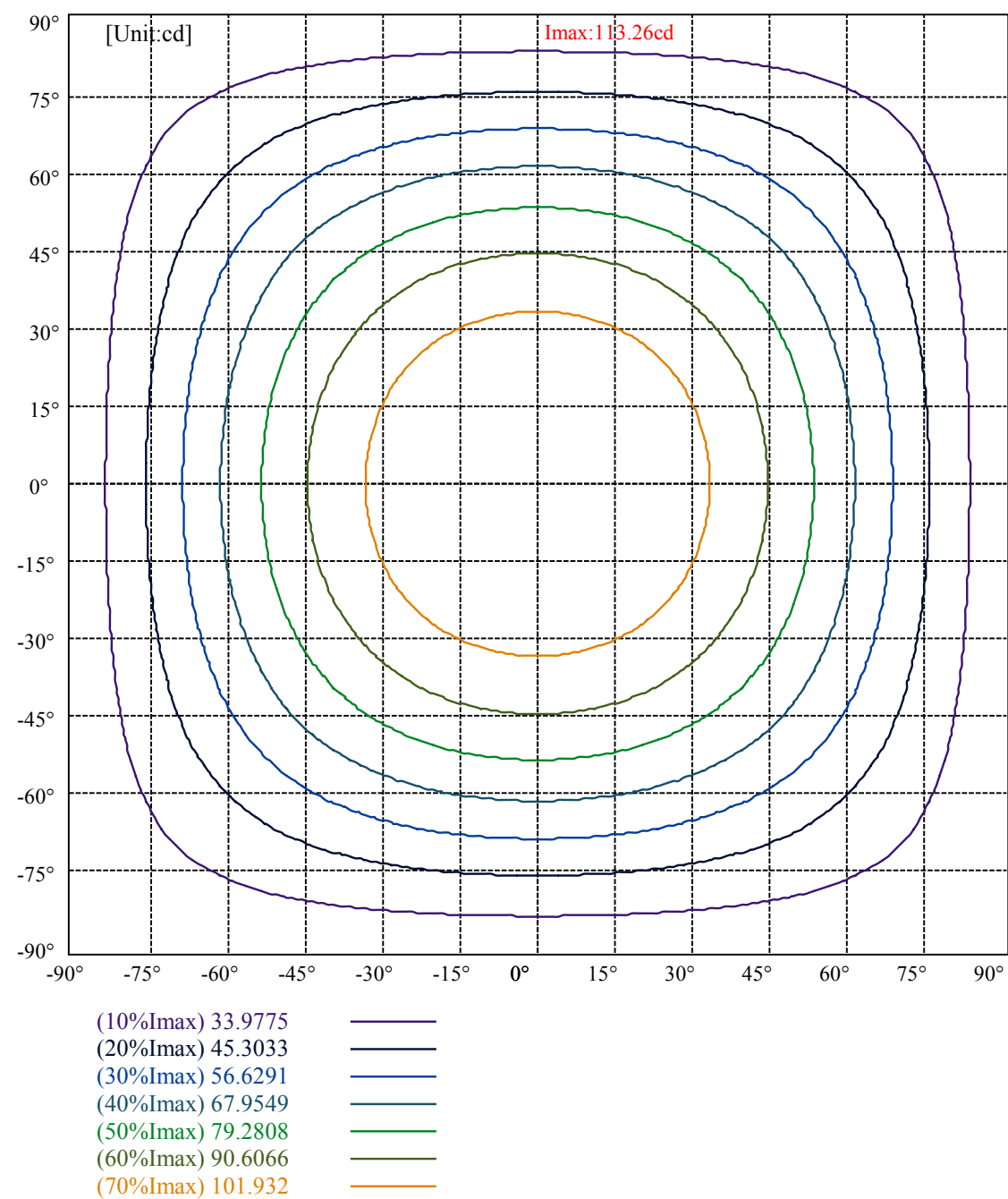
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 136.00



Luminance Table

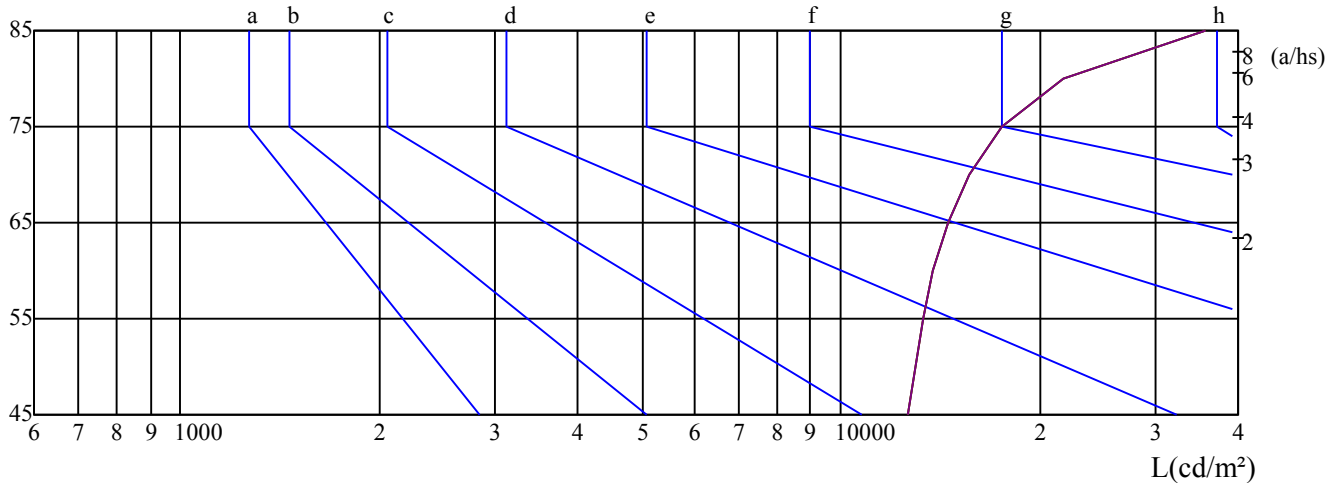
γ	45	50	55	60	65	70	75	80	85
C0	12665	12941	13314	13821	14507	15641	17526	21804	35644
C45	12665	12941	13314	13821	14507	15641	17526	21804	35644
C90	12665	12941	13314	13821	14507	15641	17526	21804	35644

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14507	14507	14507	17526	17526	17526	35644	35644	35644

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	20.88	22.17	21.53	22.86	23.66	19.05	20.34	19.70	21.03	21.83
	3H	23.57	24.76	24.24	25.46	26.28	20.81	22.00	21.49	22.71	23.53
	4H	24.95	26.07	25.63	26.78	27.62	21.49	22.62	22.18	23.33	24.16
	6H	26.47	27.53	27.17	28.25	29.10	22.04	23.10	22.74	23.81	24.67
	8H	27.29	28.31	27.99	29.04	29.90	22.21	23.23	22.91	23.95	24.82
	12H	28.22	29.20	28.92	29.93	30.80	22.32	23.30	23.02	24.03	24.90
4H	2H	21.65	22.78	22.34	23.49	24.32	20.35	21.48	21.04	22.19	23.02
	3H	24.51	25.49	25.22	26.22	27.09	22.35	23.34	23.06	24.07	24.94
	4H	26.11	27.00	26.83	27.74	28.64	23.29	24.17	24.01	24.92	25.81
	6H	27.79	28.59	28.53	29.35	30.24	23.99	24.80	24.74	25.56	26.45
	8H	28.74	29.50	29.50	30.27	31.17	24.28	25.03	25.03	25.80	26.70
	12H	29.83	30.53	30.58	31.29	32.23	24.49	25.20	25.25	25.96	26.89
8H	4H	26.53	27.28	27.28	28.05	28.95	24.27	25.02	25.02	25.79	26.69
	6H	28.46	29.10	29.22	29.87	30.81	25.33	25.97	26.10	26.75	27.69
	8H	29.65	30.21	30.43	31.02	31.95	25.87	26.44	26.66	27.25	28.18
	12H	30.94	31.43	31.73	32.25	33.18	26.27	26.76	27.06	27.57	28.51
12H	4H	26.59	27.30	27.35	28.06	28.99	24.55	25.25	25.31	26.01	26.95
	6H	28.66	29.22	29.44	30.03	30.96	25.87	26.43	26.65	27.24	28.17
	8H	29.89	30.38	30.68	31.19	32.13	26.52	27.01	27.31	27.83	28.76
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.0					0.2/-1.0				
S = 1.5H		0.4/-0.9					0.4/-0.9				
S = 2.0H		0.2/-0.7					0.2/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		11.8					11.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 7.5W (difusor baixo)

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.7700

Test No:

Current(A): 0.0920

Number of Lamps: 1

Power (W): 11.2540

Lamp flux(lm): 746.0

PF: 0.9550

Length(mm): 500

Width(mm): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 435.50, Efficiency(%): 58.38% , Luminous Efficacy(lm/W): 38.70

Central intensity(cd): 139.283, Maximum intensity(cd): 139.283

Angle of maximum intensity: C=0.0 γ =0.0

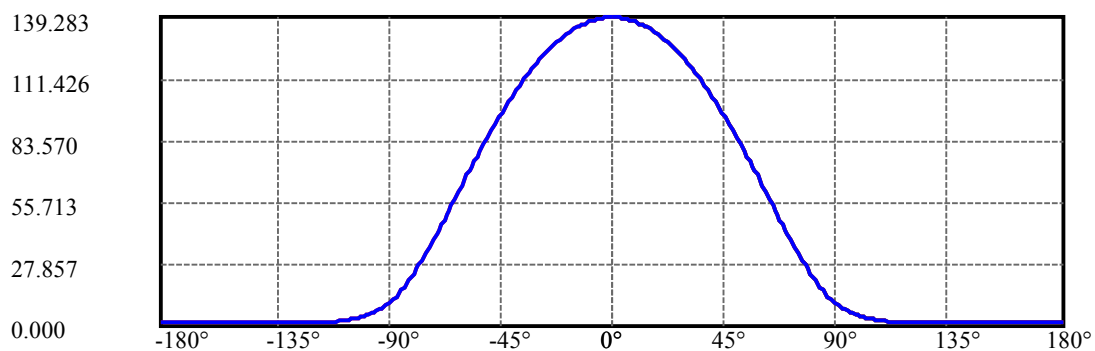
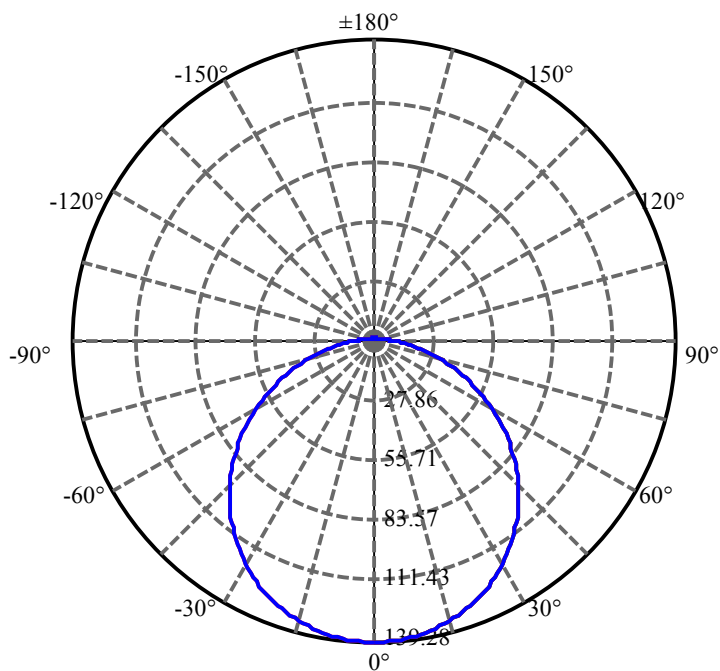
Beam angle of C0 plane : 114.36

Aveage BeamAngle(IEC 61341):114.36

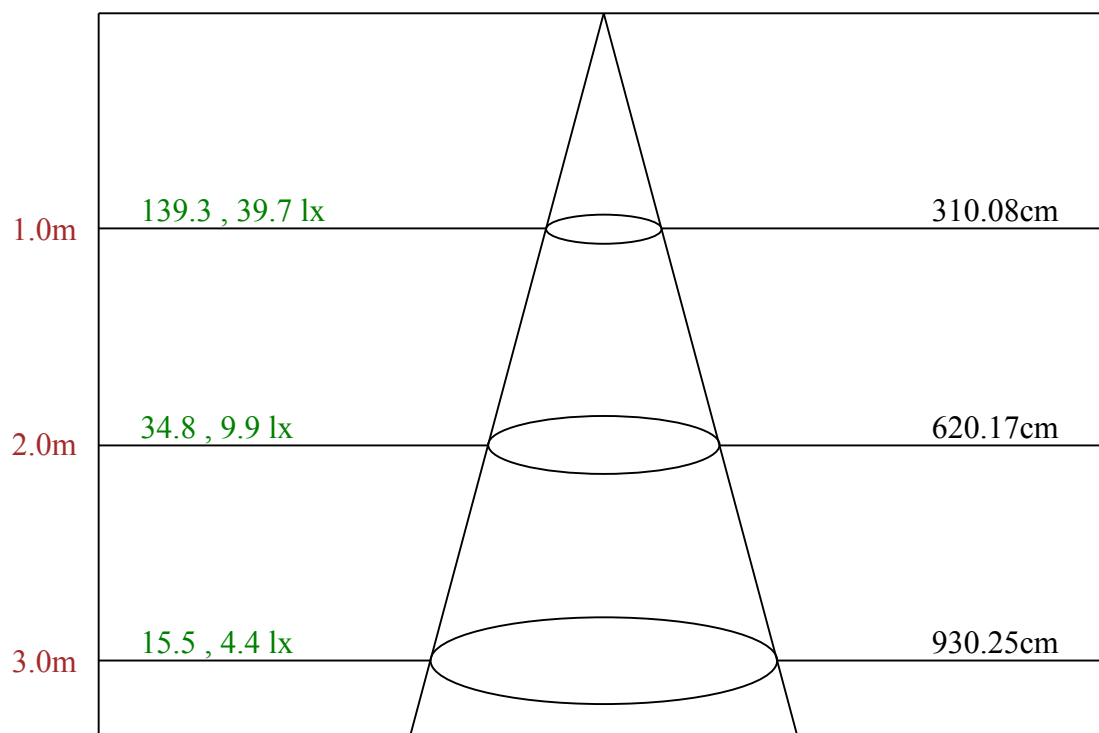
Equipment: equipamento lumini
Temperature(°C): 26.2

Date: 22/04/2025
Humidity(%): 56.0%

Operator: 01
Distance(m): 6.90

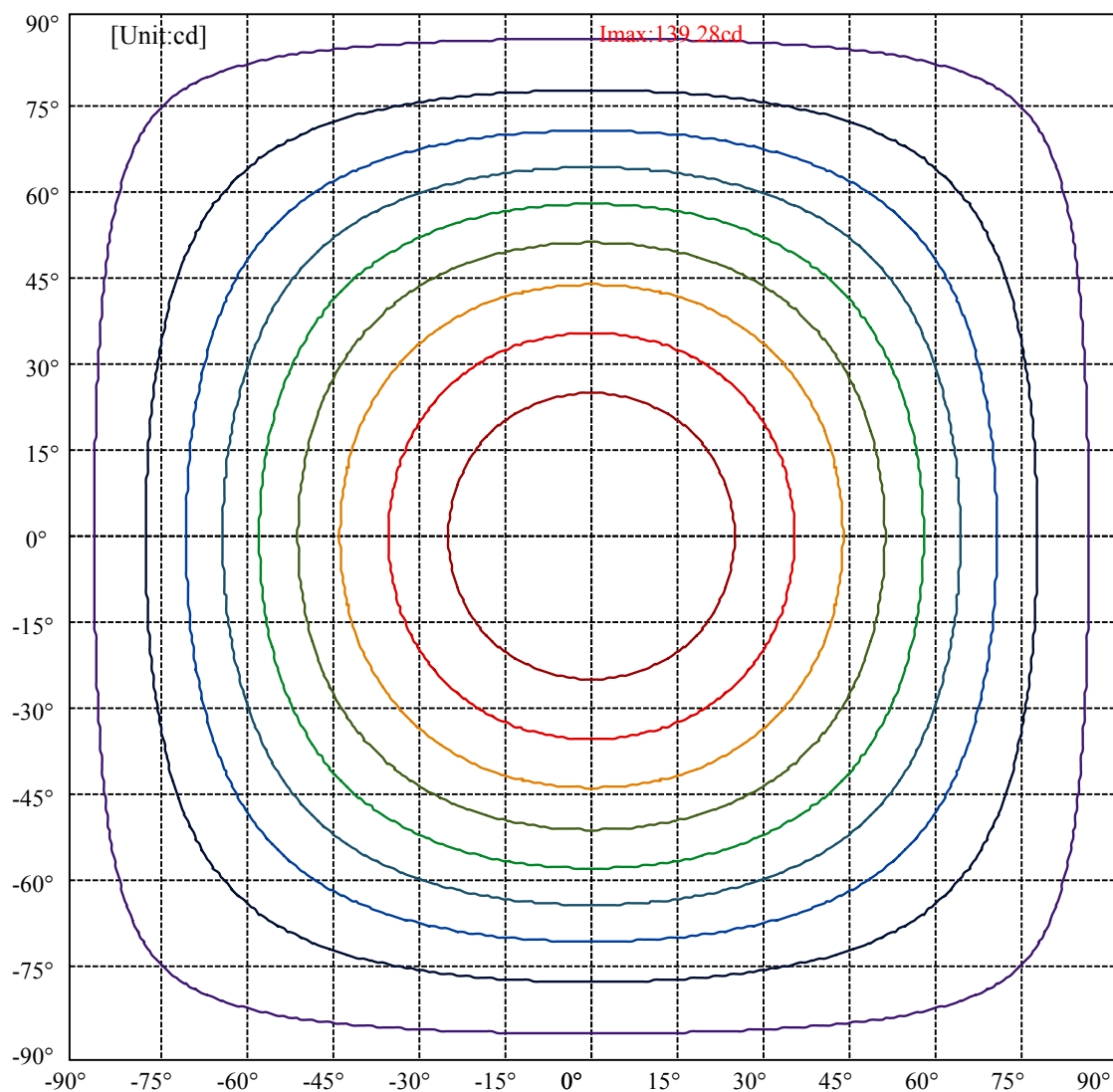


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 114.36



(10%Imax) 13.9283	—
(20%Imax) 27.8566	—
(30%Imax) 41.7849	—
(40%Imax) 55.7132	—
(50%Imax) 69.6415	—
(60%Imax) 83.5698	—
(70%Imax) 97.4981	—
(80%Imax) 111.426	—
(90%Imax) 125.355	—

Luminance Table

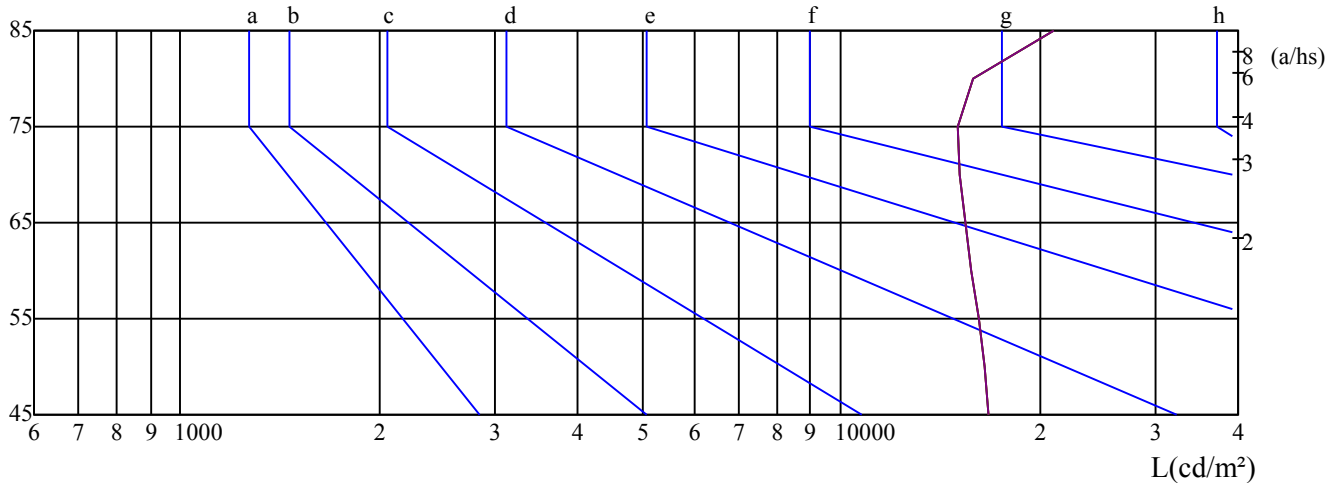
γ	45	50	55	60	65	70	75	80	85
C0	16714	16484	16168	15801	15404	15134	14995	15885	21057
C45	16714	16484	16168	15801	15404	15134	14995	15885	21057
C90	16714	16484	16168	15801	15404	15134	14995	15885	21057

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15404	15404	15404	14995	14995	14995	21057	21057	21057

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	21.97	23.55	22.39	23.94	24.35	22.11	23.69	22.53	24.09	24.50
	3H	23.87	25.31	24.31	25.73	26.16	23.90	25.34	24.34	25.76	26.19
	4H	24.74	26.10	25.20	26.53	26.98	24.59	25.95	25.04	26.38	26.83
	6H	25.65	26.92	26.12	27.36	27.84	25.11	26.38	25.58	26.82	27.30
	8H	26.09	27.32	26.56	27.77	28.26	25.27	26.49	25.74	26.94	27.43
	12H	26.58	27.76	27.06	28.22	28.72	25.35	26.53	25.83	26.99	27.49
4H	2H	22.76	24.12	23.22	24.55	25.00	22.87	24.23	23.32	24.66	25.11
	3H	24.83	26.00	25.31	26.46	26.96	24.83	26.00	25.30	26.45	26.95
	4H	25.90	26.94	26.39	27.43	27.95	25.71	26.75	26.20	27.24	27.76
	6H	26.92	27.86	27.44	28.37	28.90	26.34	27.28	26.86	27.78	28.31
	8H	27.48	28.36	28.01	28.87	29.42	26.59	27.47	27.12	27.98	28.53
	12H	28.10	28.91	28.63	29.42	30.01	26.76	27.58	27.29	28.08	28.67
8H	4H	26.27	27.15	26.80	27.66	28.21	26.10	26.98	26.63	27.49	28.04
	6H	27.50	28.24	28.05	28.77	29.35	26.93	27.67	27.48	28.20	28.79
	8H	28.25	28.90	28.82	29.47	30.05	27.35	28.01	27.92	28.58	29.15
	12H	29.05	29.61	29.62	30.18	30.77	27.64	28.20	28.21	28.77	29.36
12H	4H	26.33	27.15	26.86	27.65	28.24	26.18	27.00	26.72	27.51	28.09
	6H	27.67	28.32	28.24	28.89	29.47	27.14	27.80	27.71	28.37	28.94
	8H	28.45	29.01	29.03	29.59	30.18	27.60	28.16	28.18	28.73	29.32
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.5/-0.7					0.5/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		11.8					11.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 7.5W (difusor alto)

LampCAT: modulo led line 15W/m 12Vdc 30K irc90 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): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 536.92, Efficiency(%): 79.90% , Luminous Efficacy(lm/W): 42.36

Central intensity(cd): 110.681, Maximum intensity(cd): 111.152

Angle of maximum intensity: C=0.0 γ =7.0

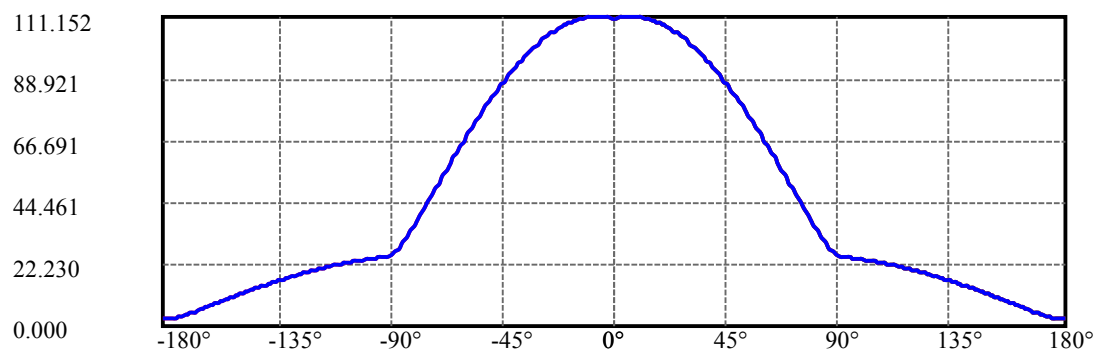
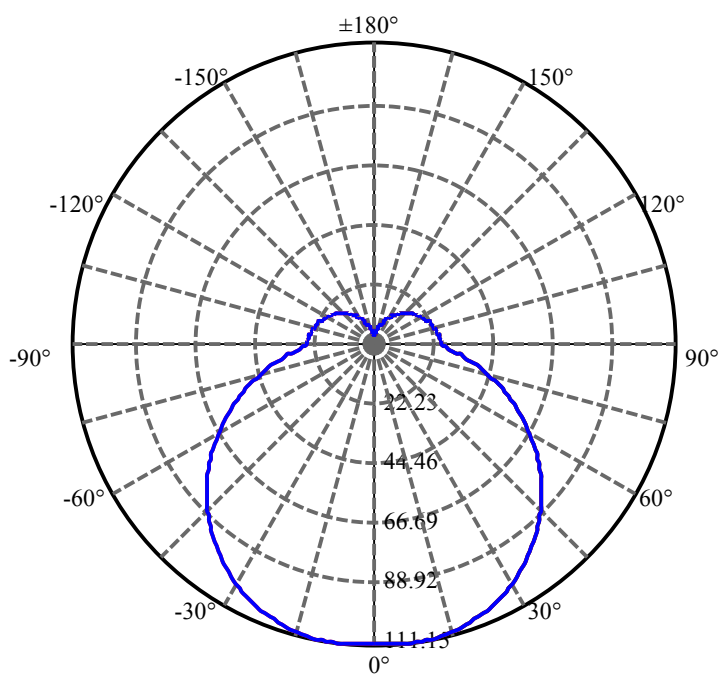
Beam angle of C0 plane : 134.74

Aveage BeamAngle(IEC 61341):134.74

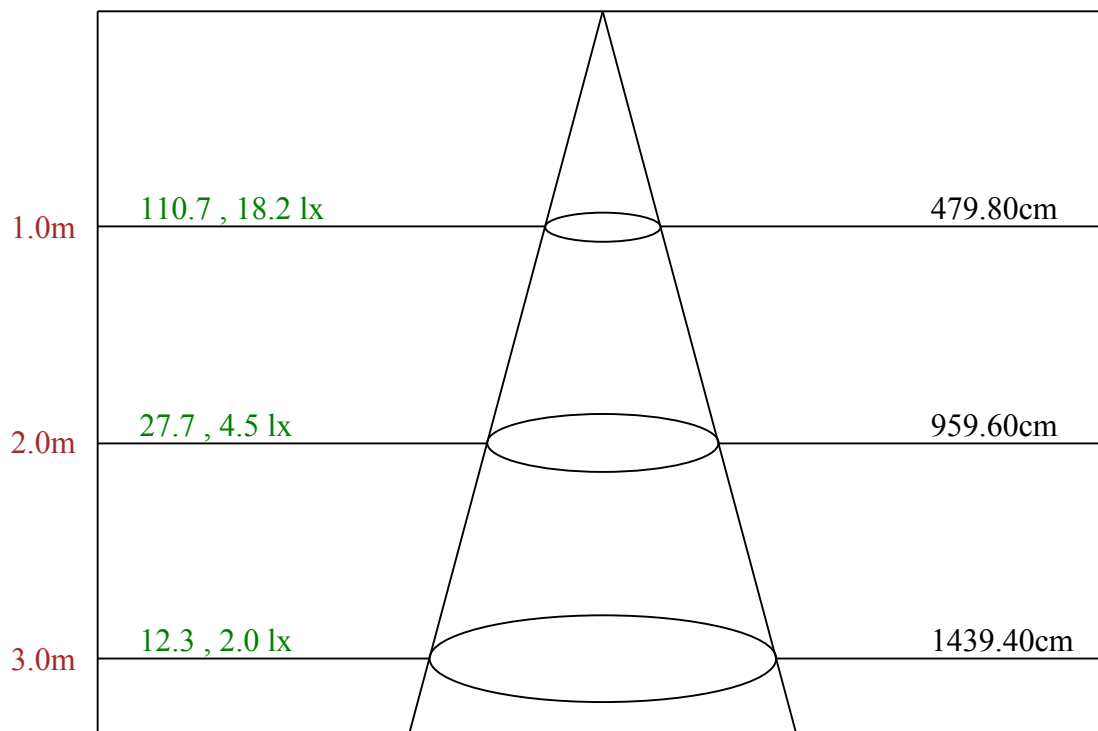
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 15/01/2025
Humidity(%): 55.0%

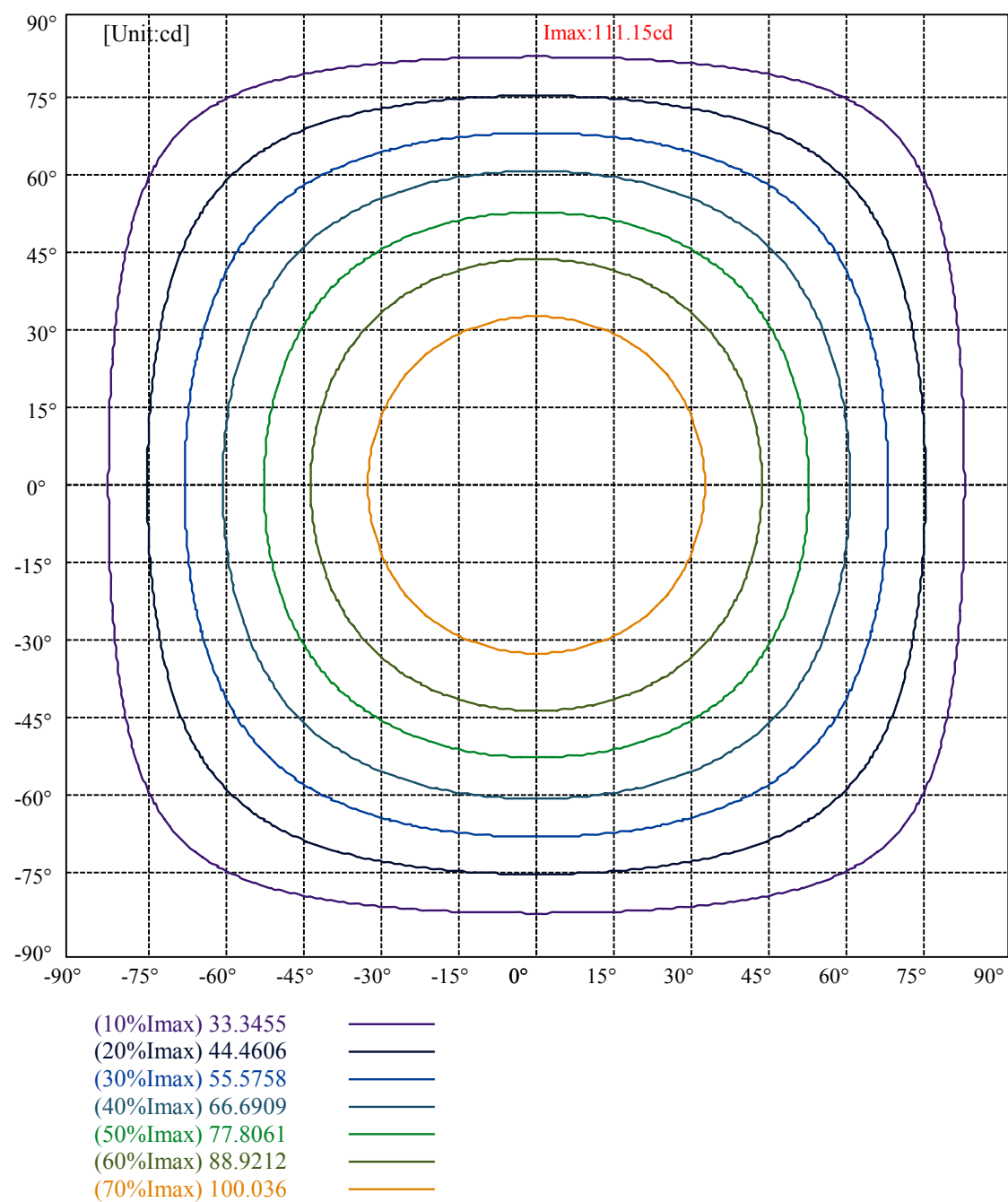
Operator: 01
Distance(m): 6.90



C0(Max): —
 C0/C180: —
 C90/C270: —



Max , Ave Beam angle of C0 plane 134.74



Luminance Table

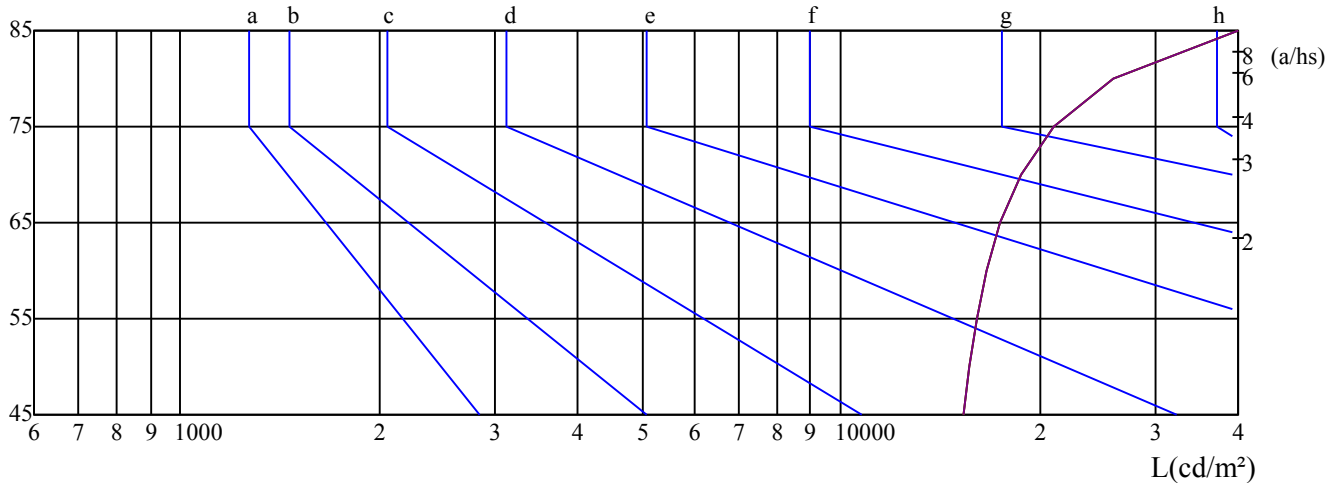
γ	45	50	55	60	65	70	75	80	85
C0	15350	15648	16082	16641	17437	18742	21014	25914	41926
C45	15350	15648	16082	16641	17437	18742	21014	25914	41926
C90	15350	15648	16082	16641	17437	18742	21014	25914	41926

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
17437	17437	17437	21014	21014	21014	41926	41926	41926

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	21.52	22.82	22.17	23.50	24.29	19.73	21.03	20.38	21.71	22.51
	3H	24.18	25.37	24.85	26.07	26.88	21.48	22.67	22.15	23.37	24.18
	4H	25.53	26.66	26.21	27.37	28.19	22.14	23.27	22.82	23.97	24.80
	6H	27.03	28.09	27.72	28.80	29.65	22.67	23.72	23.36	24.44	25.29
	8H	27.84	28.86	28.53	29.58	30.44	22.82	23.85	23.52	24.56	25.42
	12H	28.74	29.73	29.44	30.45	31.31	22.91	23.90	23.62	24.63	25.49
4H	2H	22.28	23.41	22.96	24.11	24.94	21.00	22.13	21.68	22.84	23.66
	3H	25.11	26.09	25.81	26.82	27.68	22.98	23.97	23.68	24.69	25.55
	4H	26.69	27.58	27.40	28.31	29.20	23.90	24.79	24.61	25.53	26.41
	6H	28.34	29.14	29.08	29.90	30.78	24.59	25.39	25.32	26.15	27.03
	8H	29.28	30.04	30.03	30.80	31.69	24.86	25.61	25.60	26.37	27.27
	12H	30.34	31.05	31.09	31.80	32.73	25.06	25.76	25.81	26.51	27.44
8H	4H	27.10	27.85	27.85	28.62	29.51	24.86	25.61	25.61	26.38	27.27
	6H	29.00	29.64	29.76	30.42	31.34	25.90	26.54	26.66	27.31	28.24
	8H	30.17	30.74	30.95	31.54	32.46	26.42	26.99	27.20	27.79	28.71
	12H	31.44	31.93	32.23	32.74	33.67	26.79	27.28	27.58	28.09	29.02
12H	4H	27.16	27.86	27.91	28.62	29.55	25.14	25.84	25.89	26.59	27.52
	6H	29.20	29.77	29.98	30.57	31.49	26.42	26.99	27.20	27.79	28.71
	8H	30.41	30.90	31.19	31.71	32.63	27.05	27.54	27.84	28.35	29.28
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.0					0.2/-1.0				
S = 1.5H		0.4/-0.9					0.4/-0.9				
S = 2.0H		0.2/-0.7					0.2/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		12.4					12.4				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V c lp 7.5W (difusor baixo)

LampCAT: modulo led line 15W/m 12Vdc 30K irc90 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): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 433.63, Efficiency(%): 64.53% , Luminous Efficacy(lm/W): 34.21

Central intensity(cd): 147.448, Maximum intensity(cd): 147.448

Angle of maximum intensity: C=0.0 γ =0.0

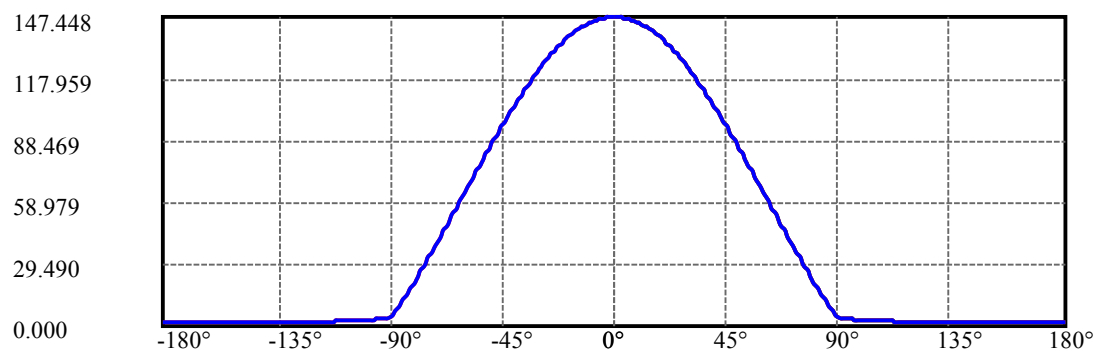
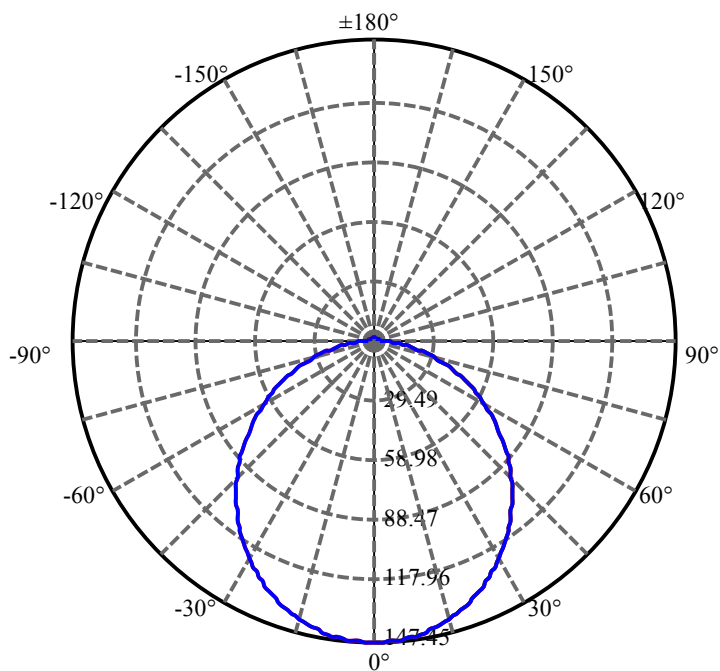
Beam angle of C0 plane : 110.02

Aveage BeamAngle(IEC 61341):110.02

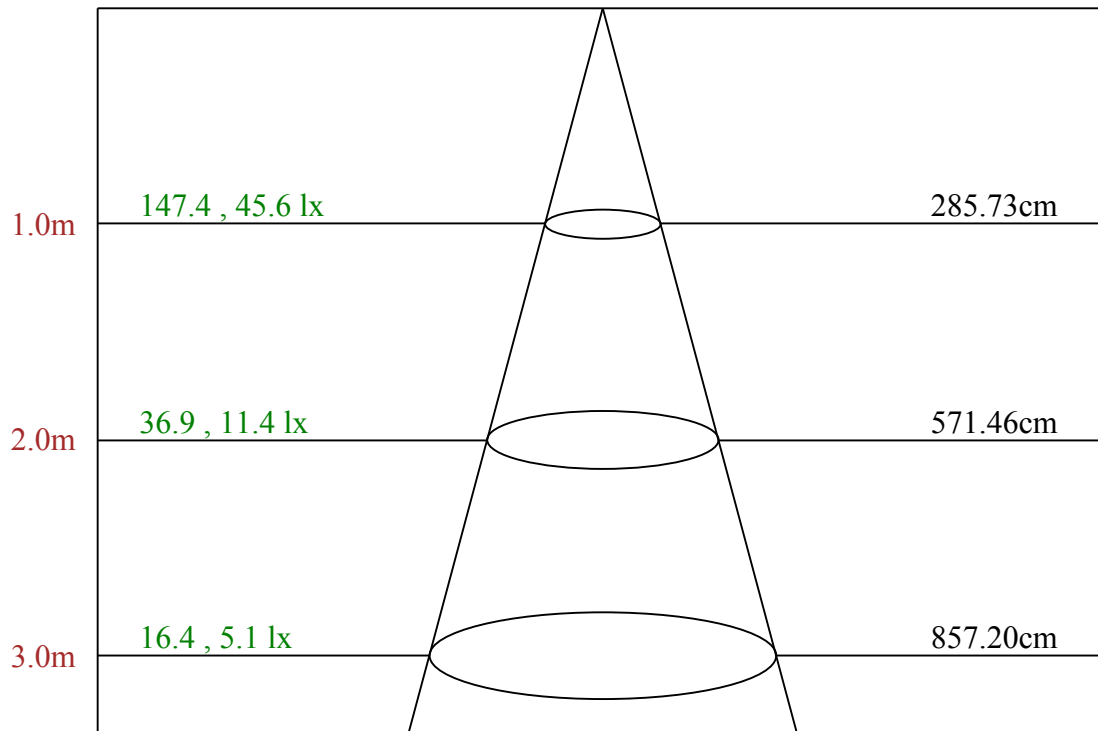
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 15/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

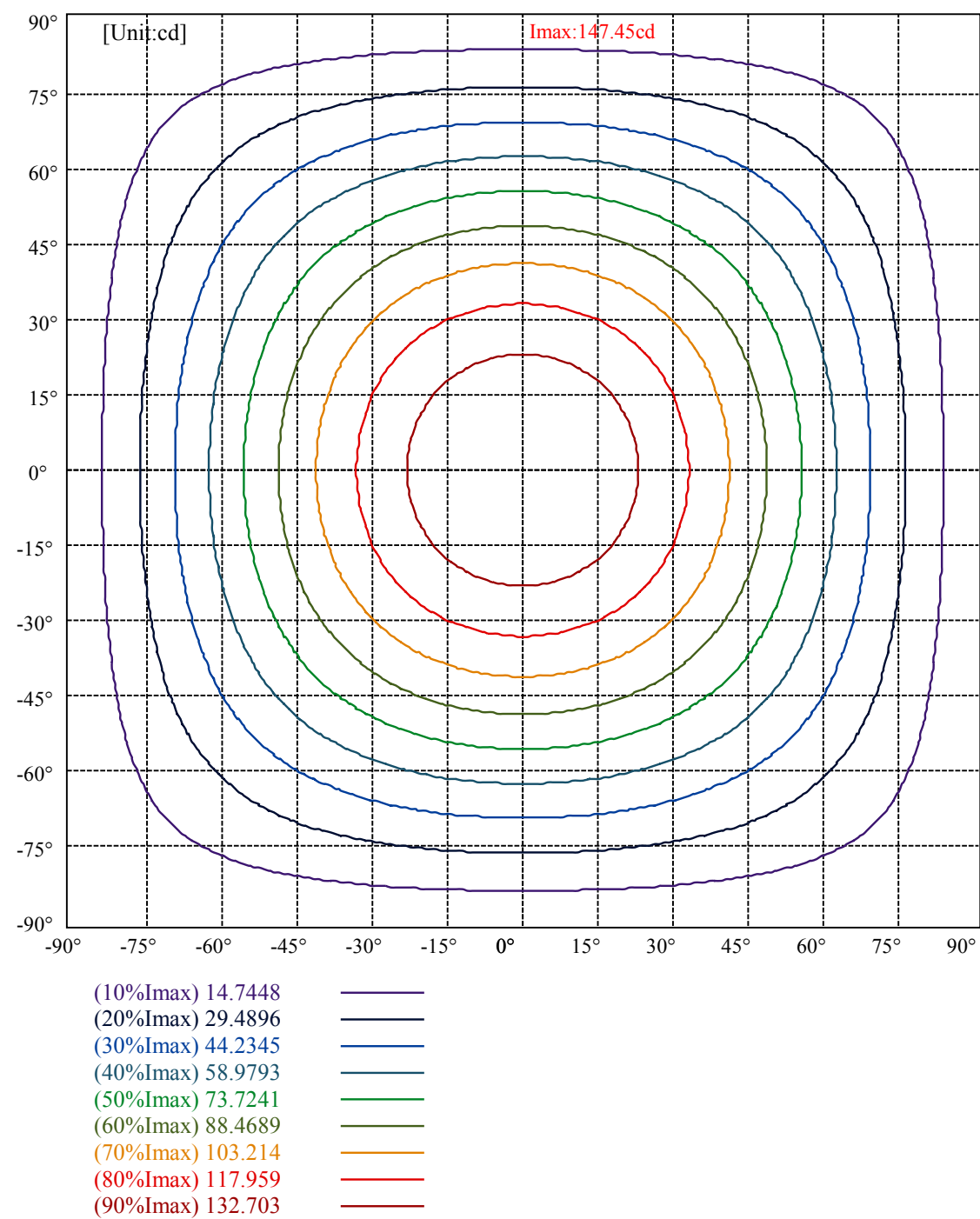


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 110.02



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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	16765	16425	16072	15737	15353	15025	14716	14668	15671
C45	16765	16425	16072	15737	15353	15025	14716	14668	15671
C90	16765	16425	16072	15737	15353	15025	14716	14668	15671

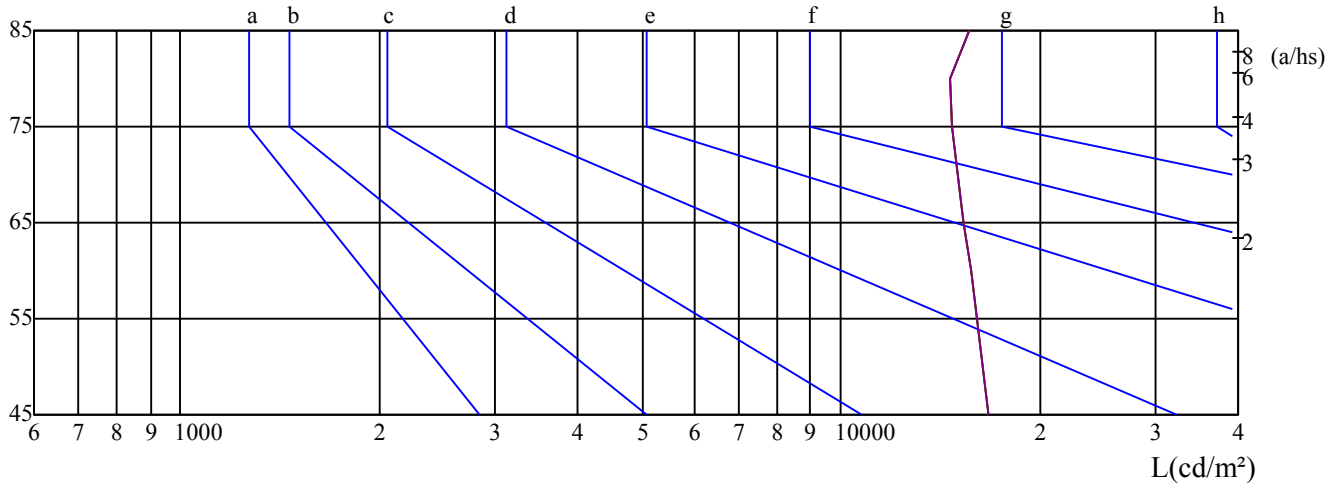
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15353	15353	15353	14716	14716	14716	15671	15671	15671

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($^{\circ}\text{C}$): 25.0

Date: 15/01/2025
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	22.22	23.80	22.63	24.18	24.58	22.02	23.59	22.43	23.97	24.37
	3H	24.09	25.52	24.52	25.93	26.35	23.71	25.14	24.14	25.55	25.97
	4H	24.89	26.24	25.34	26.66	27.10	24.38	25.73	24.82	26.15	26.59
	6H	25.62	26.88	26.08	27.31	27.78	24.92	26.18	25.38	26.61	27.08
	8H	25.90	27.12	26.36	27.56	28.03	25.10	26.31	25.56	26.75	27.23
	12H	26.16	27.33	26.63	27.77	28.26	25.22	26.39	25.69	26.83	27.32
4H	2H	22.99	24.34	23.43	24.76	25.20	22.83	24.18	23.27	24.60	25.04
	3H	25.02	26.18	25.49	26.63	27.11	24.70	25.86	25.17	26.30	26.79
	4H	26.02	27.05	26.50	27.53	28.04	25.56	26.60	26.05	27.07	27.58
	6H	26.85	27.77	27.36	28.27	28.79	26.21	27.13	26.72	27.63	28.14
	8H	27.23	28.10	27.75	28.60	29.13	26.47	27.34	26.99	27.84	28.37
	12H	27.58	28.39	28.11	28.88	29.46	26.67	27.48	27.20	27.97	28.54
8H	4H	26.38	27.24	26.90	27.74	28.28	25.98	26.85	26.50	27.35	27.88
	6H	27.38	28.11	27.92	28.63	29.20	26.80	27.53	27.34	28.05	28.62
	8H	27.93	28.57	28.49	29.13	29.69	27.23	27.87	27.79	28.43	28.99
	12H	28.41	28.95	28.97	29.51	30.09	27.52	28.07	28.09	28.63	29.21
12H	4H	26.42	27.23	26.95	27.72	28.30	26.05	26.85	26.57	27.35	27.92
	6H	27.53	28.17	28.09	28.73	29.29	26.99	27.63	27.55	28.19	28.75
	8H	28.10	28.64	28.67	29.20	29.78	27.43	27.97	28.00	28.54	29.11
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.6/-0.7					0.6/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		11.7					11.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 24V c lp 4.5W (difusor baixo)

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): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 246.49, Efficiency(%): 64.53% , Luminous Efficacy(lm/W): 18.17

Central intensity(cd): 83.841, Maximum intensity(cd): 83.841

Angle of maximum intensity: C=0.0 γ =0.0

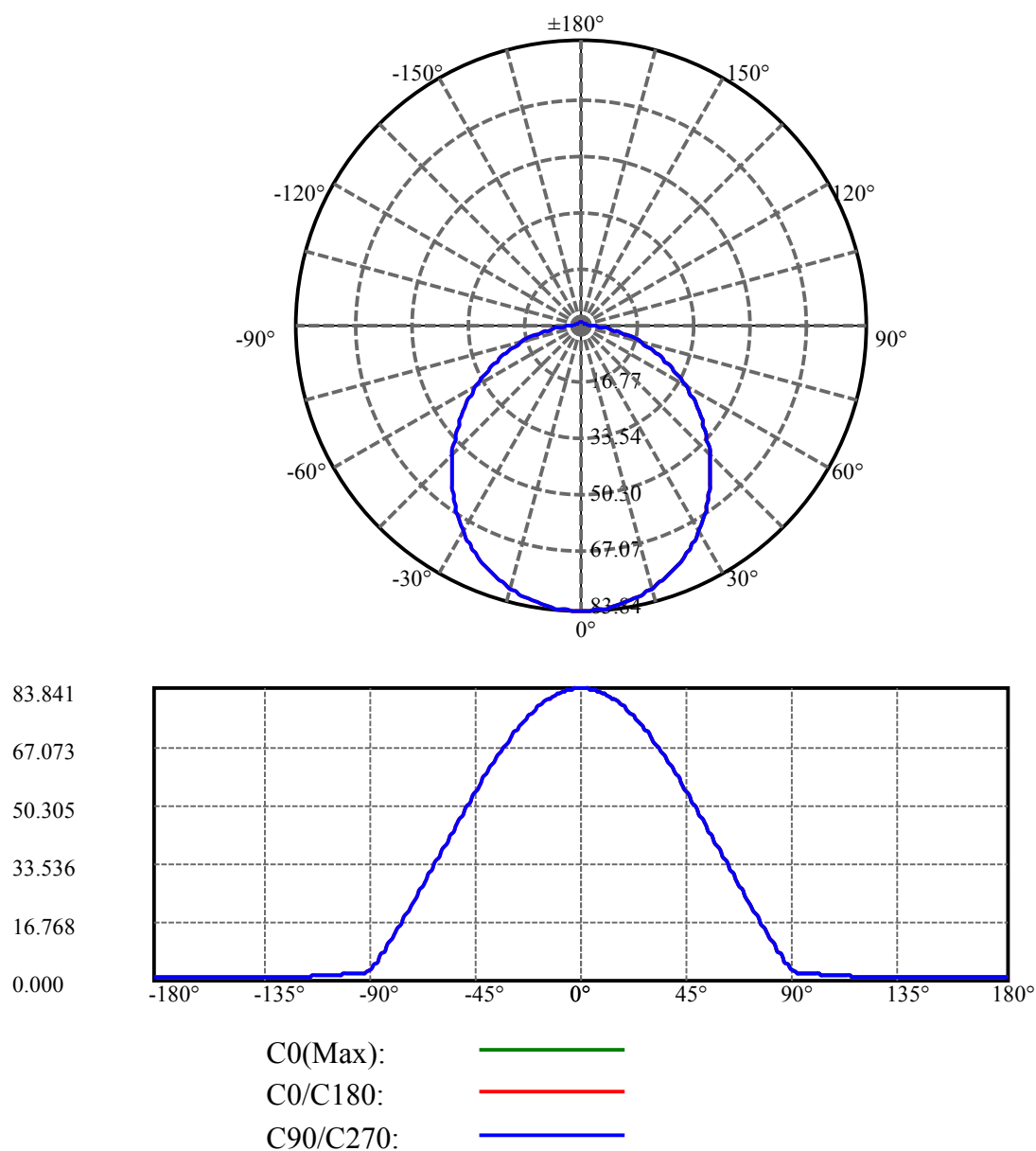
Beam angle of C0 plane : 109.60

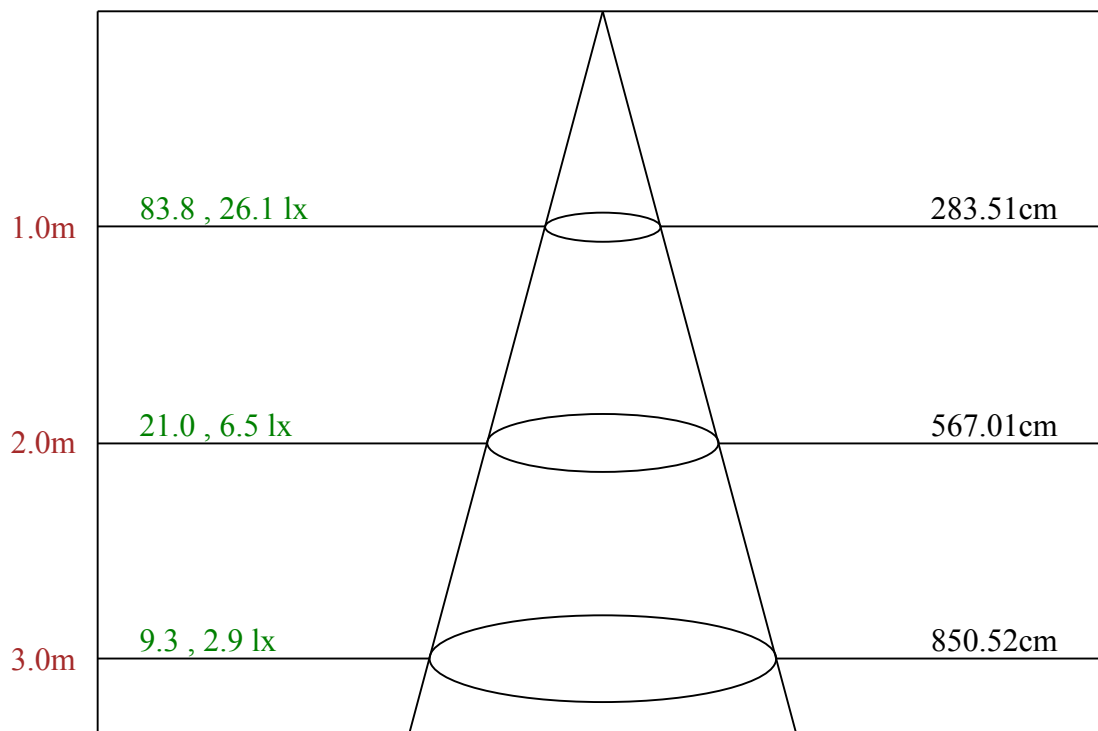
Aveage BeamAngle(IEC 61341):109.60

Equipment: equipamento lumini
Temperature(°C): 29.3

Date: 20/01/2025
Humidity(%): 51.0%

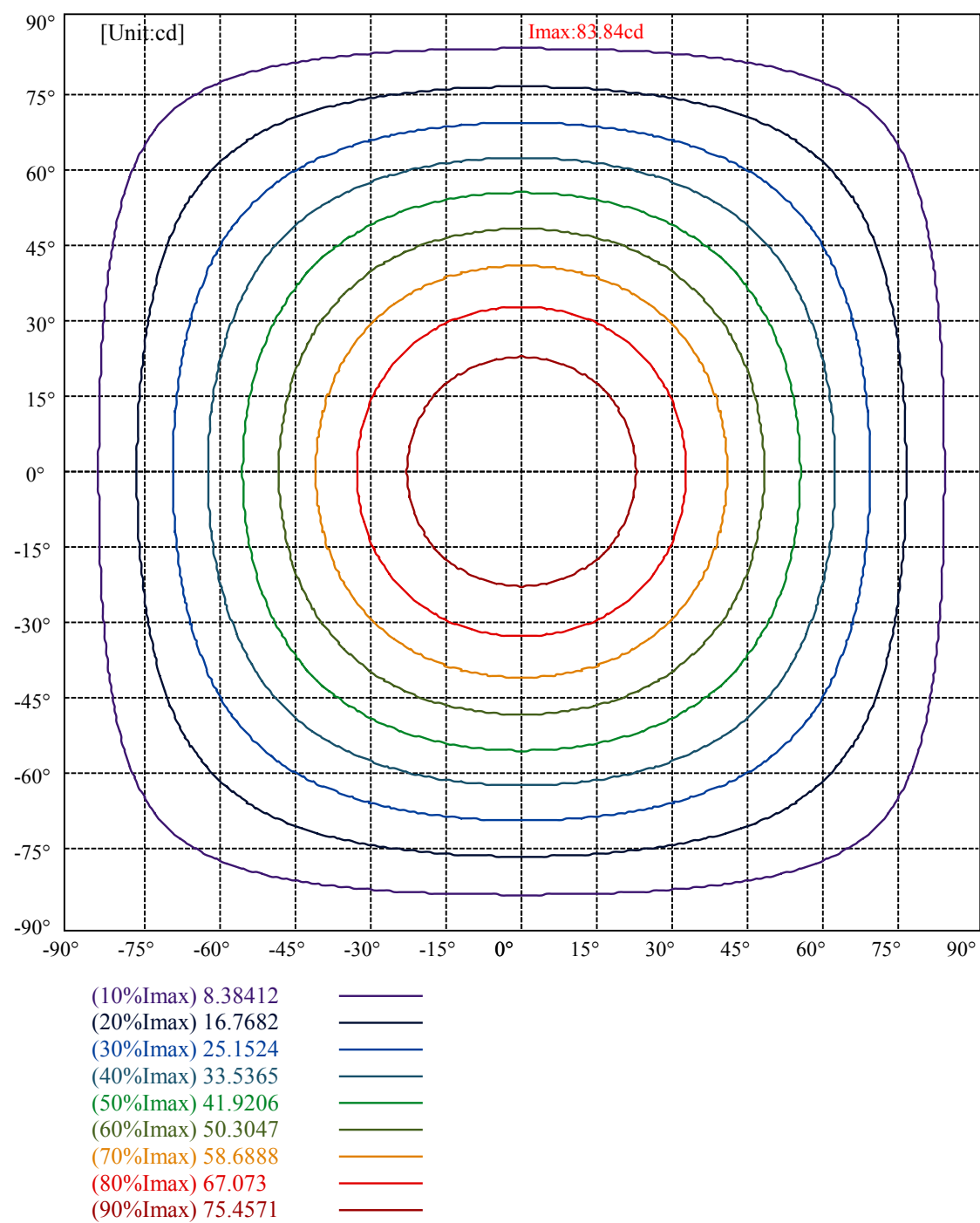
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 109.60



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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	9446	9243	9085	8899	8692	8526	8439	8465	9372
C45	9446	9243	9085	8899	8692	8526	8439	8465	9372
C90	9446	9243	9085	8899	8692	8526	8439	8465	9372

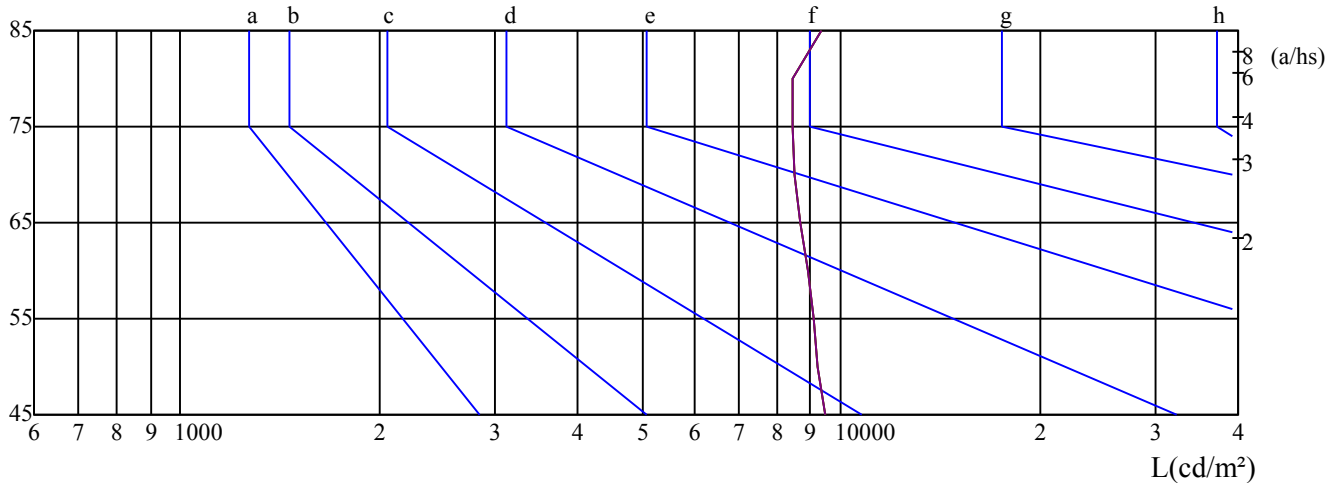
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8692	8692	8692	8439	8439	8439	9372	9372	9372

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($^{\circ}\text{C}$): 29.3

Date: 20/01/2025
Humidity(%): 51.0%

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	20.04	21.62	20.46	22.00	22.40	20.06	21.63	20.47	22.01	22.41
	3H	21.91	23.34	22.34	23.74	24.17	21.80	23.23	22.23	23.64	24.06
	4H	22.70	24.05	23.15	24.47	24.91	22.49	23.84	22.94	24.26	24.71
	6H	23.41	24.67	23.87	25.10	25.58	23.08	24.33	23.53	24.77	25.24
	8H	23.70	24.91	24.16	25.35	25.83	23.28	24.49	23.74	24.93	25.42
	12H	23.94	25.10	24.41	25.55	26.04	23.43	24.60	23.90	25.05	25.54
4H	2H	20.84	22.19	21.29	22.61	23.05	20.85	22.19	21.29	22.61	23.06
	3H	22.87	24.02	23.34	24.47	24.96	22.77	23.92	23.23	24.37	24.86
	4H	23.86	24.89	24.34	25.36	25.88	23.66	24.69	24.14	25.16	25.68
	6H	24.67	25.60	25.19	26.10	26.62	24.34	25.27	24.86	25.77	26.29
	8H	25.06	25.92	25.58	26.43	26.96	24.64	25.50	25.16	26.01	26.55
	12H	25.39	26.20	25.92	26.69	27.27	24.88	25.68	25.40	26.18	26.76
8H	4H	24.24	25.10	24.76	25.61	26.14	24.06	24.93	24.58	25.43	25.97
	6H	25.24	25.96	25.78	26.49	27.06	24.93	25.66	25.47	26.19	26.76
	8H	25.79	26.42	26.35	26.99	27.55	25.39	26.03	25.95	26.59	27.16
	12H	26.24	26.79	26.81	27.35	27.94	25.74	26.28	26.31	26.85	27.43
12H	4H	24.29	25.09	24.82	25.59	26.17	24.13	24.93	24.65	25.43	26.01
	6H	25.40	26.04	25.96	26.60	27.16	25.11	25.75	25.67	26.32	26.88
	8H	25.97	26.51	26.54	27.08	27.66	25.59	26.14	26.16	26.70	27.28
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.6/-0.7					0.6/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		9.7					9.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 24V c lp 12W (difusor alto)

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): 20

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 869.73, Efficiency(%): 80.68% , Luminous Efficacy(lm/W): 50.02

Central intensity(cd): 176.121, Maximum intensity(cd): 176.925

Angle of maximum intensity: C=0.0 γ =7.0

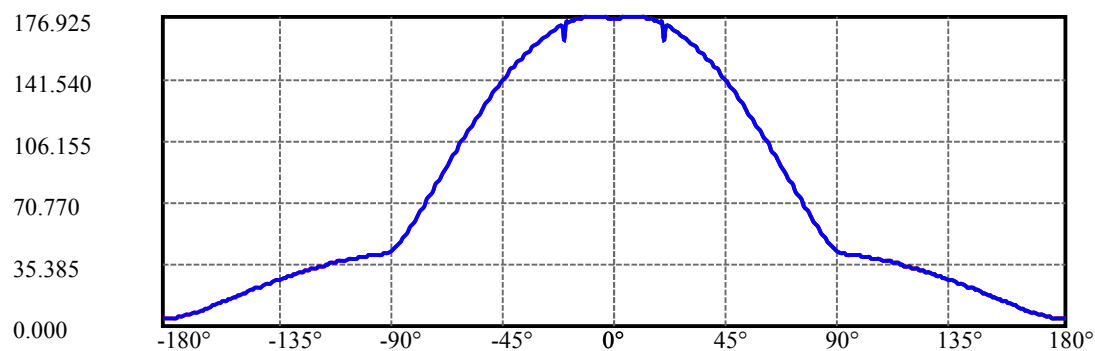
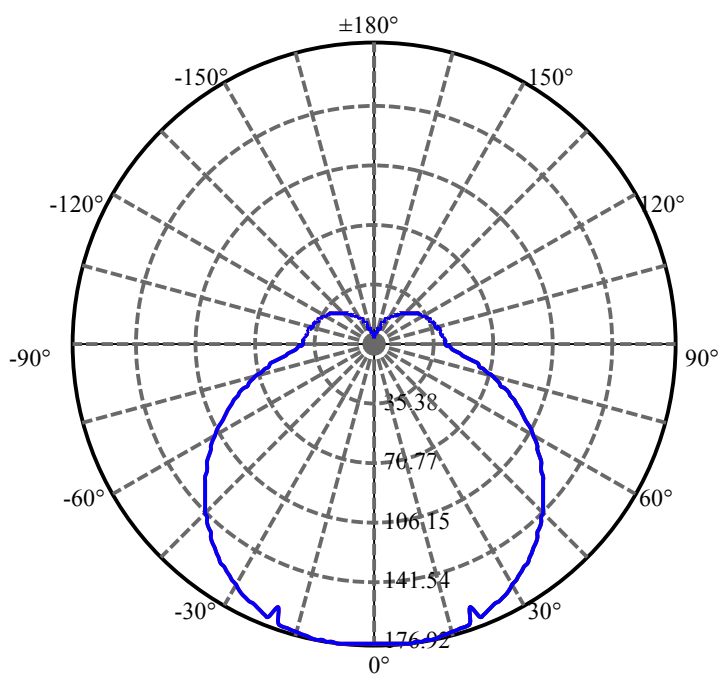
Beam angle of C0 plane : 136.24

Aveage BeamAngle(IEC 61341):136.24

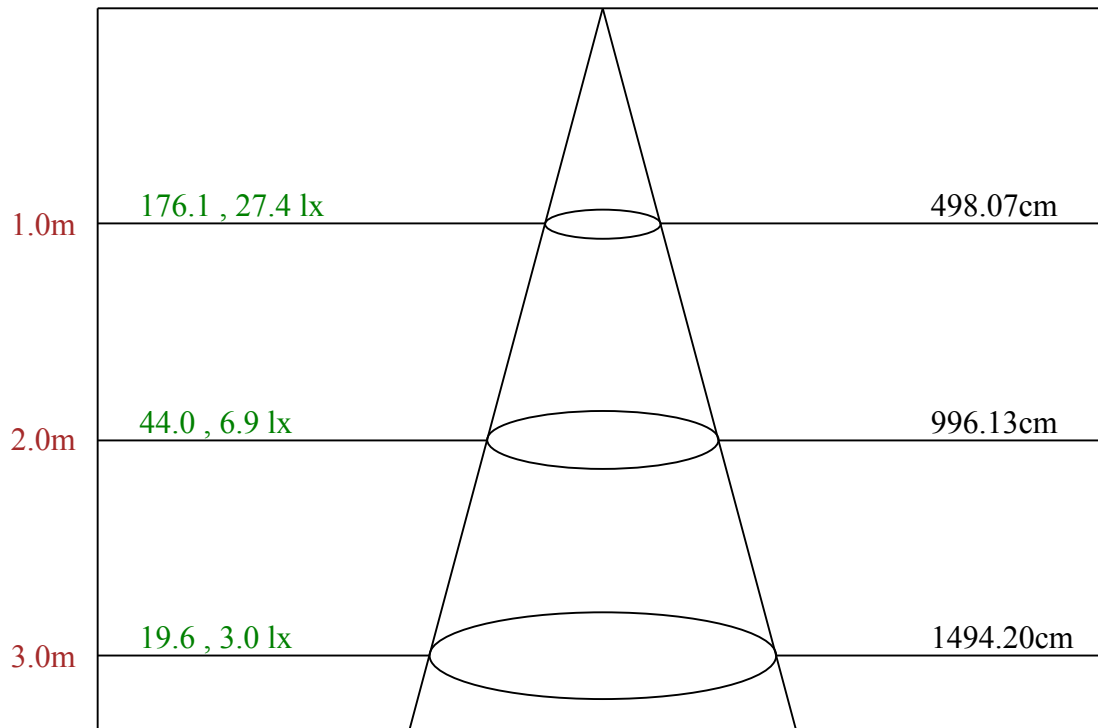
Equipment: equipamento lumini
Temperature(°C): 26.3

Date: 20/01/2025
Humidity(%): 73.0%

Operator: 01
Distance(m): 6.90

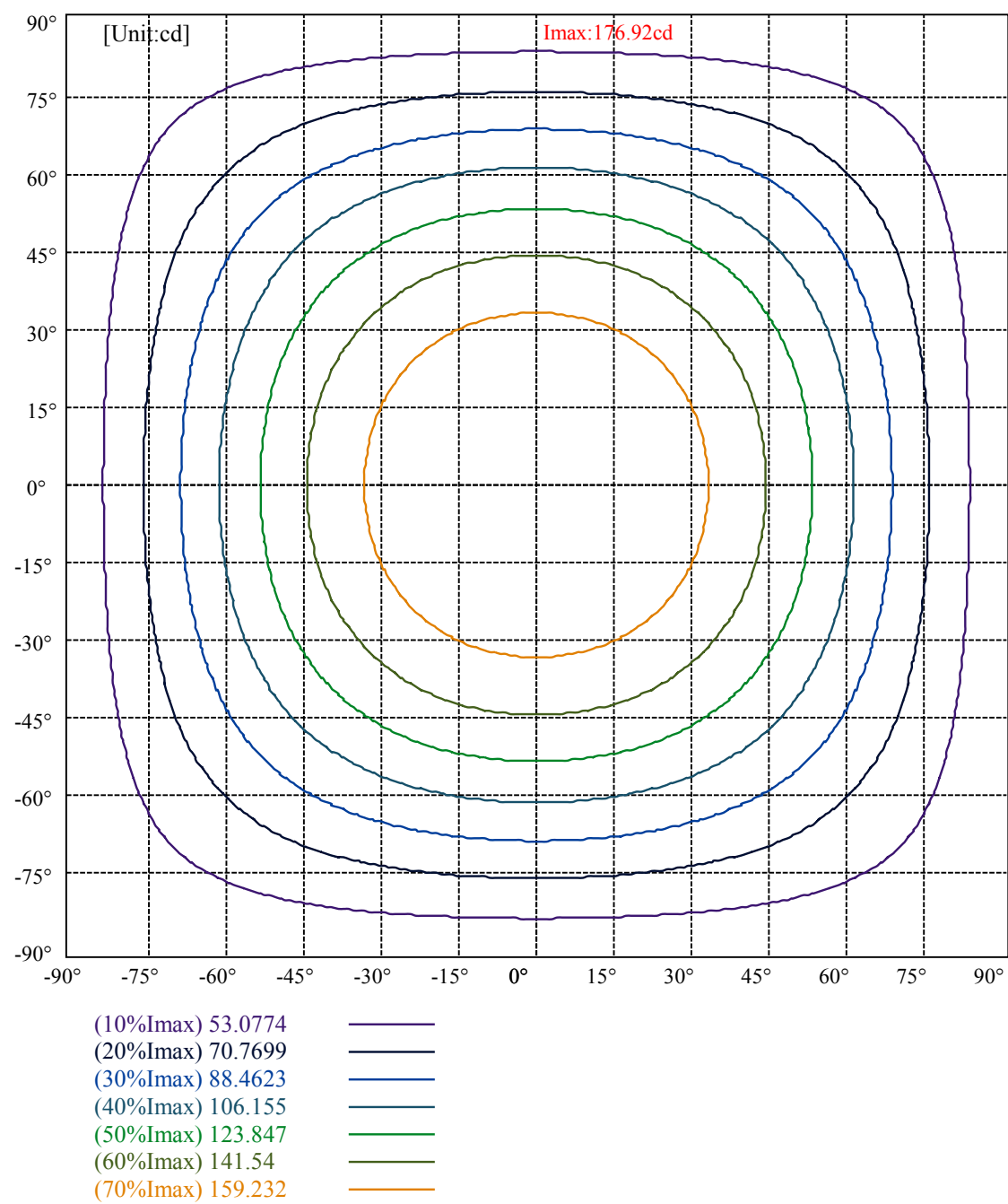


C0(Max):
C0/C180:
C90/C270:



Max , Ave

Beam angle of C0 plane 136.24



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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	19755	20176	20784	21540	22631	24388	27404	34090	55439
C45	19755	20176	20784	21540	22631	24388	27404	34090	55439
C90	19755	20176	20784	21540	22631	24388	27404	34090	55439

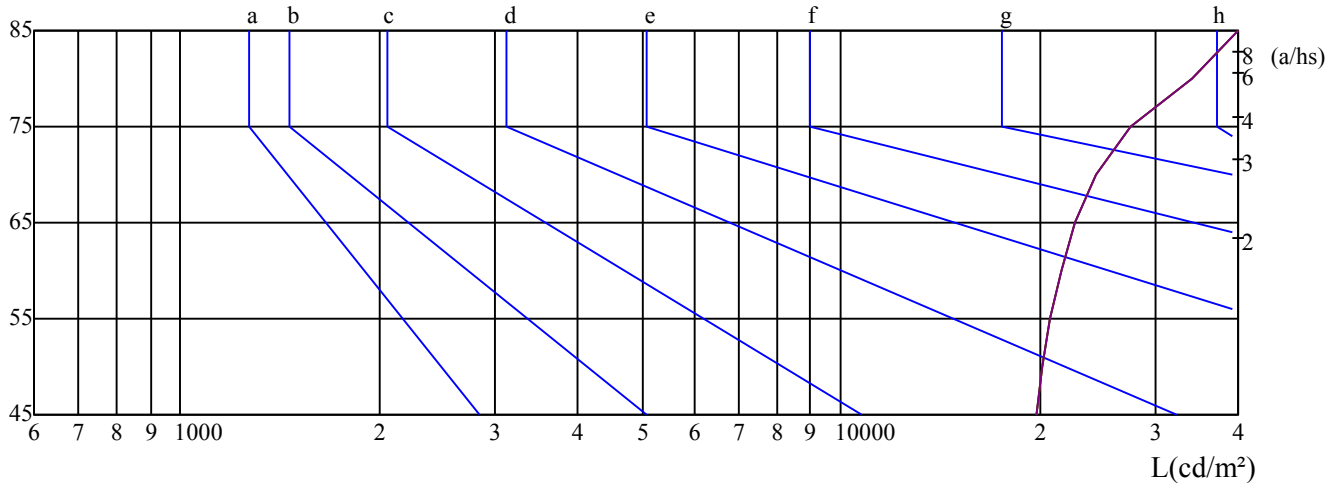
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
22631	22631	22631	27404	27404	27404	55439	55439	55439

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($^{\circ}\text{C}$): 26.3

Date: 20/01/2025
Humidity(%): 73.0%

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	22.25	23.54	22.90	24.23	25.03	20.40	21.70	21.06	22.39	23.19
	3H	24.91	26.11	25.59	26.81	27.62	22.12	23.32	22.80	24.02	24.83
	4H	26.28	27.41	26.96	28.12	28.95	22.77	23.89	23.45	24.60	25.43
	6H	27.80	28.85	28.49	29.57	30.42	23.27	24.33	23.96	25.04	25.90
	8H	28.61	29.63	29.31	30.35	31.22	23.41	24.44	24.11	25.16	26.02
	12H	29.52	30.51	30.23	31.24	32.11	23.49	24.48	24.20	25.21	26.08
4H	2H	23.01	24.14	23.69	24.84	25.68	21.69	22.82	22.38	23.53	24.36
	3H	25.85	26.83	26.55	27.56	28.43	23.65	24.64	24.36	25.36	26.23
	4H	27.43	28.32	28.16	29.07	29.96	24.55	25.44	25.27	26.19	27.07
	6H	29.10	29.91	29.84	30.67	31.56	25.22	26.02	25.96	26.78	27.67
	8H	30.05	30.81	30.80	31.57	32.48	25.48	26.23	26.23	27.00	27.90
	12H	31.13	31.83	31.88	32.59	33.52	25.67	26.37	26.42	27.13	28.06
8H	4H	27.85	28.60	28.60	29.37	30.27	25.54	26.29	26.29	27.06	27.96
	6H	29.76	30.41	30.53	31.18	32.12	26.56	27.21	27.33	27.98	28.91
	8H	30.95	31.52	31.73	32.32	33.25	27.08	27.65	27.86	28.45	29.38
	12H	32.23	32.72	33.02	33.54	34.47	27.45	27.94	28.23	28.75	29.68
12H	4H	27.91	28.61	28.66	29.37	30.30	25.82	26.53	26.58	27.28	28.22
	6H	29.96	30.53	30.74	31.33	32.26	27.10	27.67	27.88	28.47	29.40
	8H	31.19	31.68	31.97	32.49	33.42	27.74	28.23	28.52	29.04	29.97
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.0					0.2/-1.0				
S = 1.5H		0.4/-0.9					0.4/-0.9				
S = 2.0H		0.2/-0.7					0.2/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		13.3					13.3				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 24V c lp 12W

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

Ballast type: led line driver 24V

Report No:

Voltage(V): 127.7300

Test No:

Current(A): 0.1350

Number of Lamps: 1

Power (W): 14.8300

Lamp flux(lm): 1078.0

PF: 0.8580

Length(mm): 500

Width(mm): 16

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 685.48, Efficiency(%): 63.59% , Luminous Efficacy(lm/W): 46.22

Central intensity(cd): 218.625, Maximum intensity(cd): 218.625

Angle of maximum intensity: C=0.0 γ =0.0

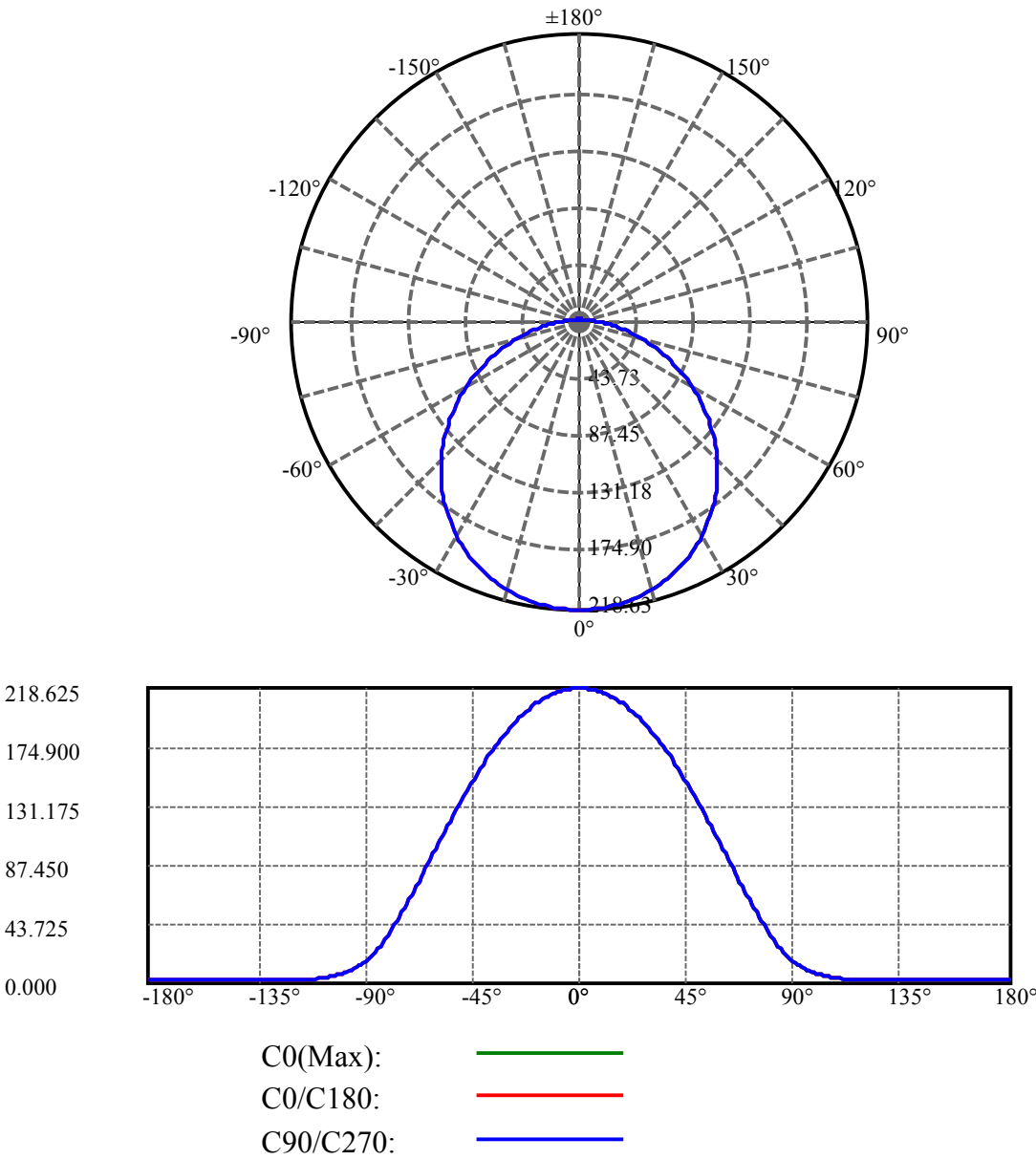
Beam angle of C0 plane : 114.16

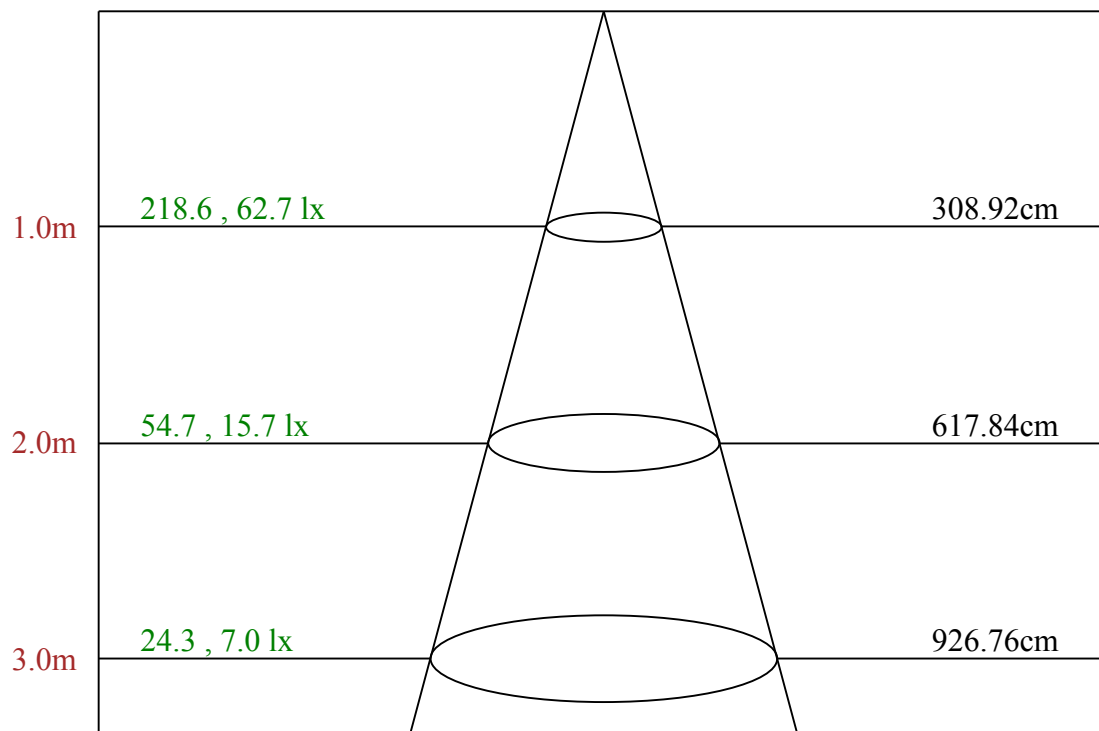
Aveage BeamAngle(IEC 61341):114.16

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 29/04/2025
Humidity(%): 64.0%

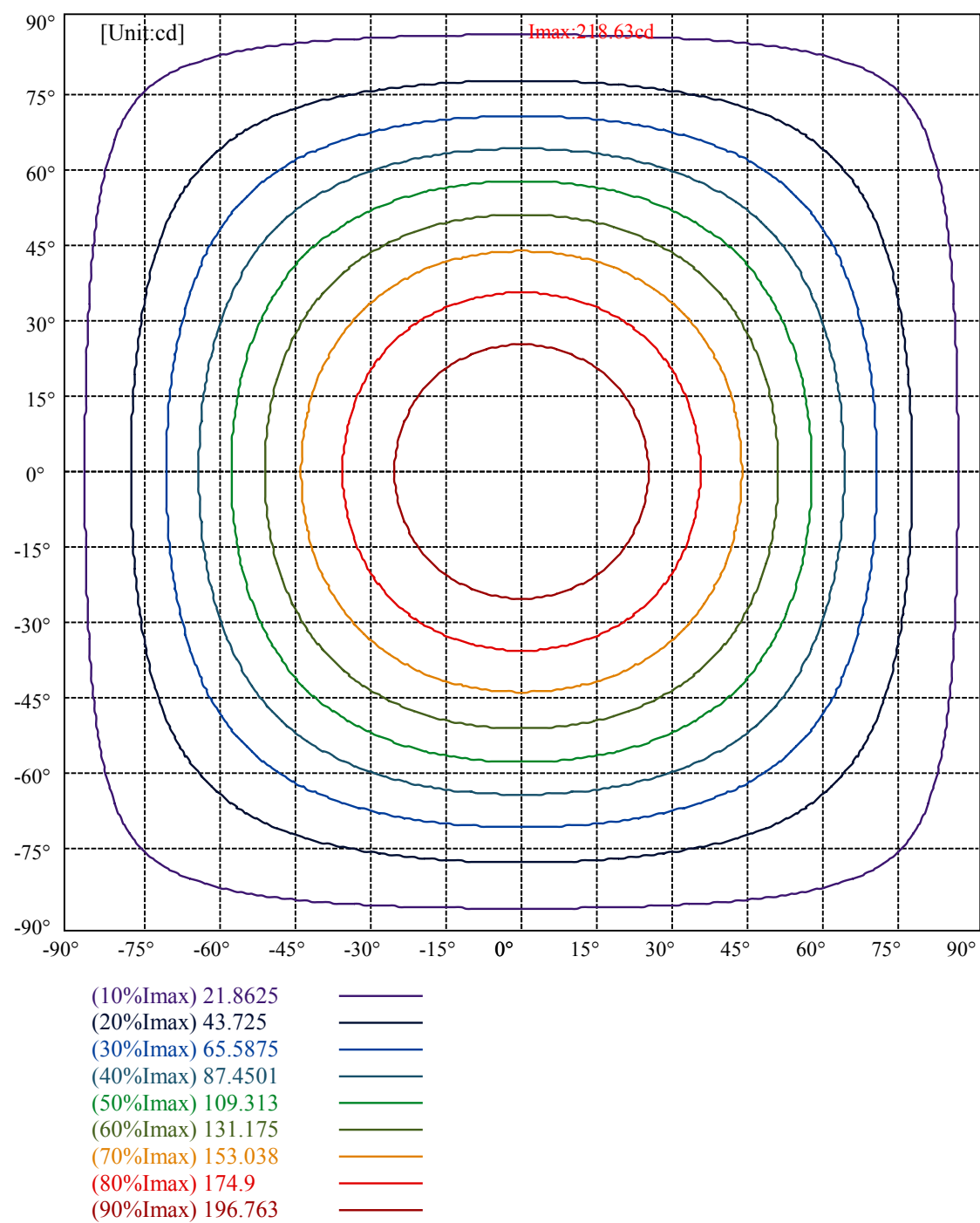
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 114.16



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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	26216	25814	25306	24830	24212	23764	23735	25151	33518
C45	26216	25814	25306	24830	24212	23764	23735	25151	33518
C90	26216	25814	25306	24830	24212	23764	23735	25151	33518

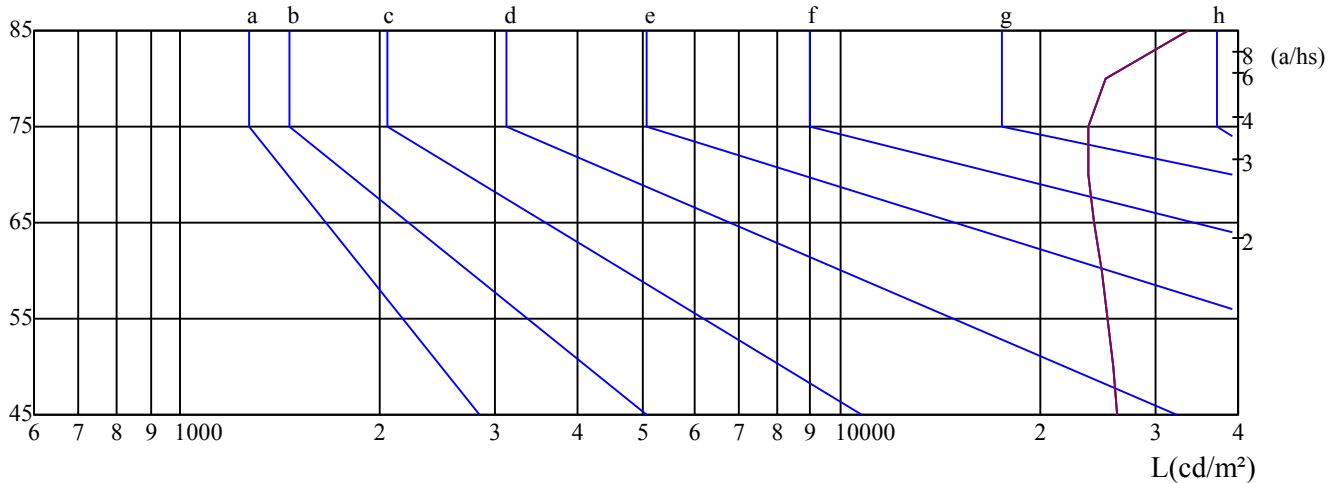
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
24212	24212	24212	23735	23735	23735	33518	33518	33518

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: 29/04/2025
Humidity(%): 64.0%

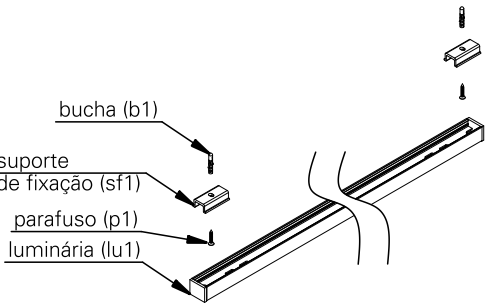
Operator: 01
Distance(m): 6.90

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	23.79	25.37	24.21	25.77	26.18	23.84	25.41	24.26	25.81	26.23
	3H	25.76	27.20	26.21	27.62	28.06	25.67	27.11	26.12	27.53	27.97
	4H	26.68	28.03	27.13	28.46	28.92	26.39	27.75	26.85	28.18	28.64
	6H	27.63	28.89	28.09	29.34	29.82	26.96	28.23	27.43	28.67	29.16
	8H	28.09	29.32	28.56	29.77	30.26	27.13	28.36	27.60	28.81	29.30
	12H	28.61	29.79	29.09	30.25	30.75	27.25	28.42	27.73	28.89	29.39
4H	2H	24.60	25.96	25.05	26.39	26.84	24.63	25.99	25.09	26.42	26.88
	3H	26.74	27.91	27.22	28.37	28.87	26.64	27.81	27.12	28.27	28.77
	4H	27.85	28.89	28.34	29.38	29.91	27.56	28.60	28.05	29.08	29.61
	6H	28.92	29.86	29.44	30.37	30.90	28.24	29.18	28.76	29.69	30.22
	8H	29.50	30.38	30.03	30.90	31.44	28.51	29.39	29.04	29.90	30.45
	12H	30.15	30.97	30.68	31.48	32.06	28.71	29.53	29.25	30.04	30.63
8H	4H	28.25	29.13	28.78	29.64	30.19	27.99	28.87	28.52	29.38	29.93
	6H	29.53	30.27	30.08	30.80	31.39	28.89	29.63	29.43	30.16	30.74
	8H	30.31	30.96	30.87	31.53	32.10	29.33	29.98	29.90	30.55	31.13
	12H	31.13	31.69	31.71	32.26	32.86	29.66	30.21	30.23	30.79	31.38
12H	4H	28.31	29.13	28.84	29.63	30.22	28.08	28.90	28.62	29.41	29.99
	6H	29.71	30.36	30.27	30.93	31.51	29.11	29.76	29.68	30.33	30.91
	8H	30.51	31.07	31.09	31.65	32.24	29.59	30.15	30.17	30.72	31.32
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.5/-0.6				
S = 2.0H		0.5/-0.7					0.5/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		13.4					13.4				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

led line perfil

- led line perfil c mp
- led line perfil 12v c lp
- led line perfil 24v c lp
- led line perfil dual color c
- led line perfil ip65 c
- led line perfil soft c



especificações técnicas

fonte de luz
módulo led integrado (incluso)

índice de proteção
IP20 - luminária para uso interno

peso
led line perfil c mp - xx kg
led line perfil 12v c lp - xx kg
led line perfil 24v c lp - xx kg
led line perfil dual color c - xx kg
led line perfil ip65 c - xx kg
led line perfil soft c - 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
2 buchas
2 parafusos
2 suportes de fixação

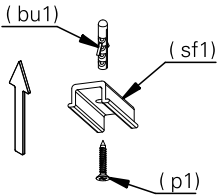
ferramentas necessárias
chave philips
furadeira
broca

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

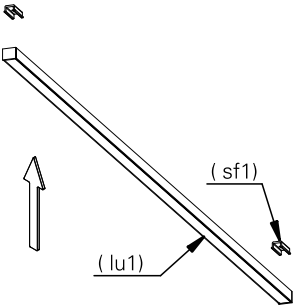
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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

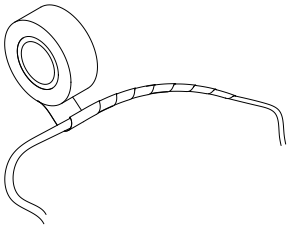
1. faça um furo no teto e encaixe a bucha (b1). Utilize o parafuso (p1) para fixar o suporte de fixação (sf1) no teto. repita a operação para a outra ponta da luminária mantendo o alinhamento desejado.



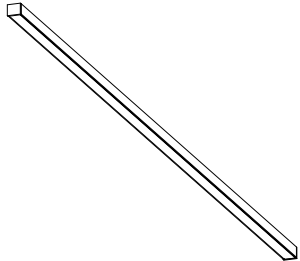
2. encaixe a luminária(lu1) nos suportes de fixação (sf1).



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



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



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.