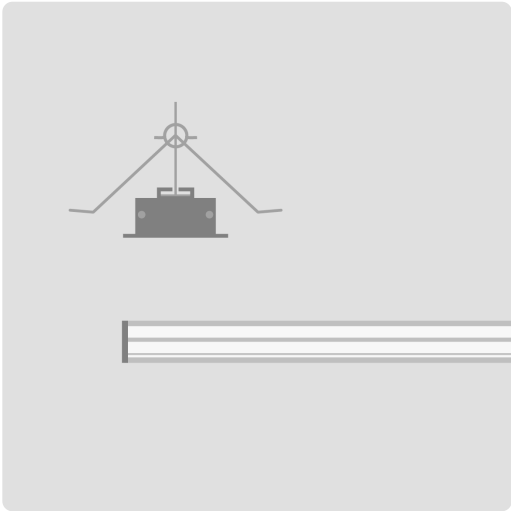




led line perfil ww e

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

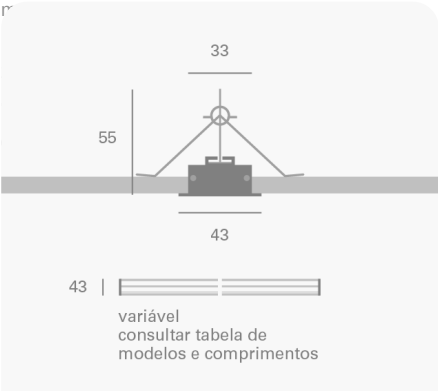
potência (W), fecho, temperatura de cor (K),
fluxo nominal (lm nominal), fluxo útil (lm útil)

W		K	lm nominal	lm útil
5W/m	difuso	2500		
5W/m	difuso	2700		
5W/m	difuso	3000	506 lm/m	277 lm/m
5W/m ip65	difuso	2500		
5W/m ip65	difuso	2700		
5W/m ip65	difuso	3000	544 lm/m	309 lm/m
15W/m	difuso	2500		
15W/m	difuso	2700		
15W/m	difuso	3000	1414 lm/m	830 lm/m
15W/m ip65	difuso	2500		
15W/m ip65	difuso	2700		
15W/m ip65	difuso	3000	1344 lm/m	727 lm/m
24W/m	difuso	2700		
24W/m	difuso	3000	2156 lm/m	1308 lm/m
25W/m	difuso	2500		
25W/m	difuso	2700		
25W/m	difuso	3000	3496 lm/m	2073 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



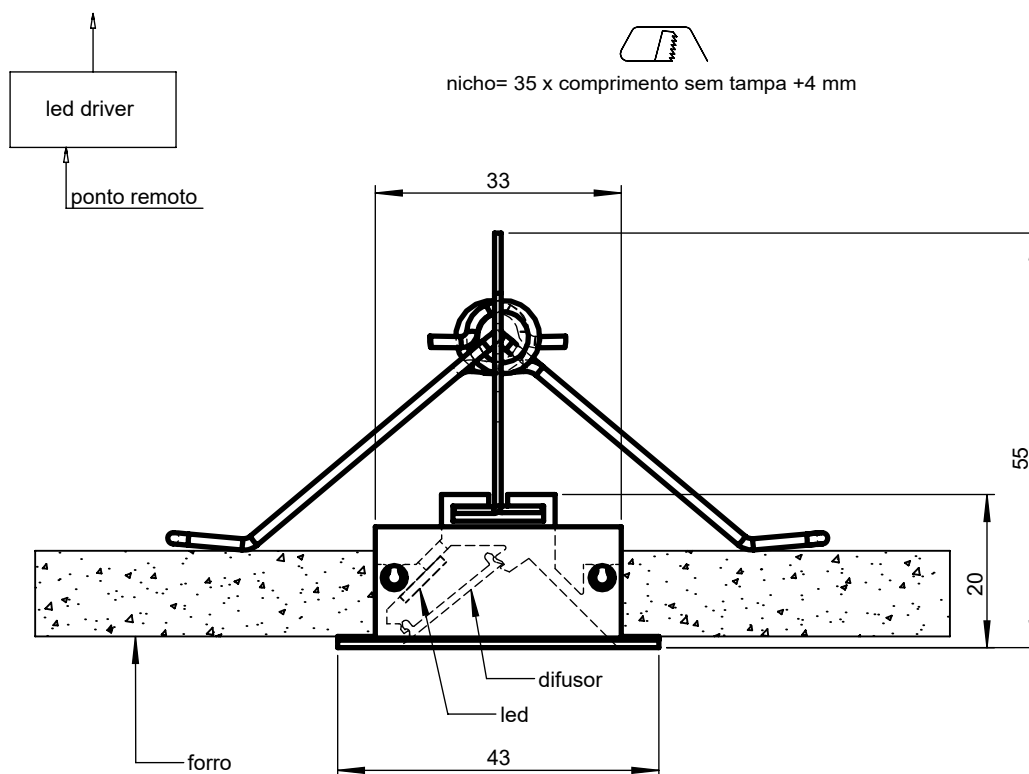
acabamentos e cores

cores



vista lateral

dimensões em milímetros



led line perfil ww e lp

folha
1/2

escala
1:1

data
24/03/2025

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joao ferreira

aprovação
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revisões
24/03/2025

vista inferior

dimensões em milímetros



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tabela de comprimento

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	13,5W	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

led line perfil ww e lp

folha
2/2

escala
1:1

data

desenhista
joao ferreira

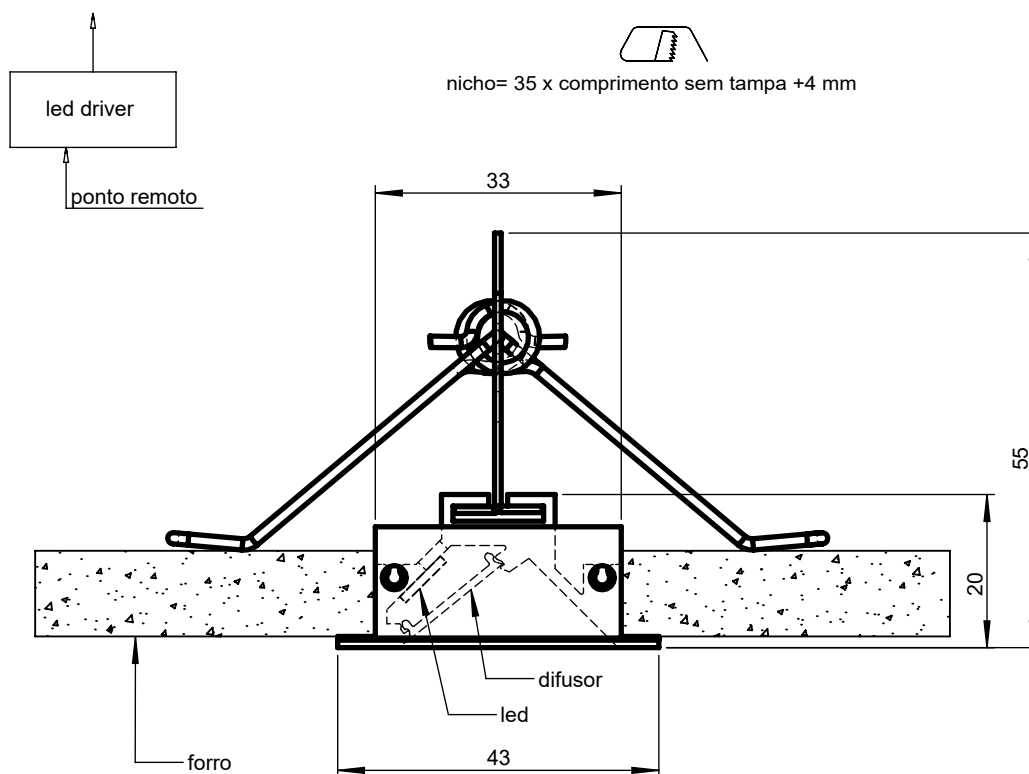
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vista lateral

dimensões em milímetros



led line perfil ww e mp

folha
1/2

escala
1:1

data
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revisões
24/03/2025

vista inferior

dimensões em milímetros



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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



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LumCAT:

Luminaire: led line perfil ww 12V e lp 2.5W

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.8700

Test No:

Current(A): 0.0400

Number of Lamps: 1

Power (W): 3.9260

Lamp flux(lm): 253.0

PF: 0.7710

Length(mm): 500

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 138.70, Efficiency(%): 54.82% , Luminous Efficacy(lm/W): 35.33

Central intensity(cd): 42.801, Maximum intensity(cd): 49.038

Angle of maximum intensity: $C=0.0$ $\gamma=27.0$

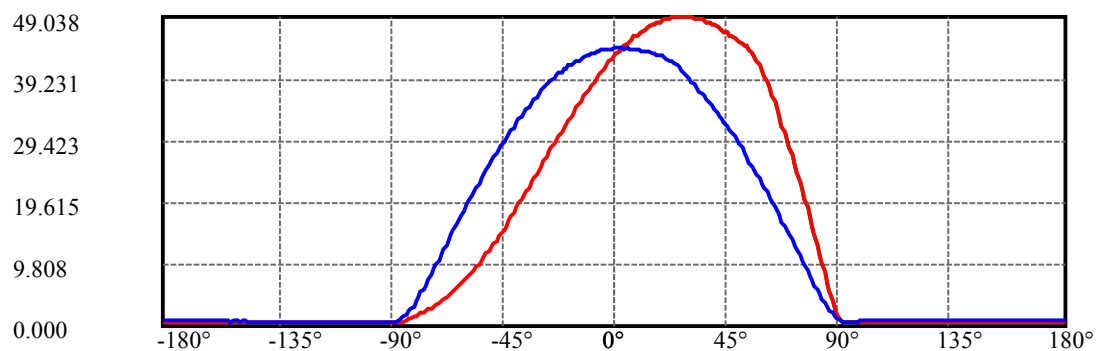
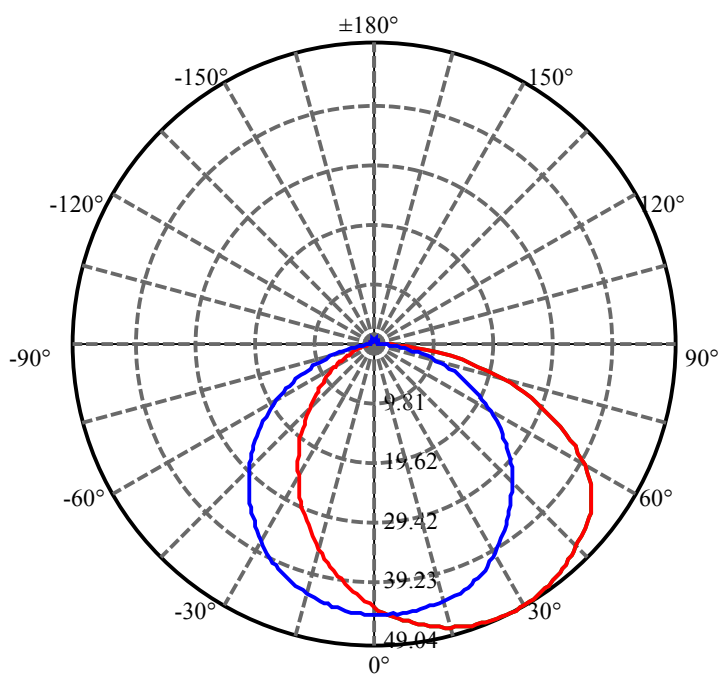
Beam angle of C0 plane : 103.13

Average BeamAngle(IEC 61341): 114.69

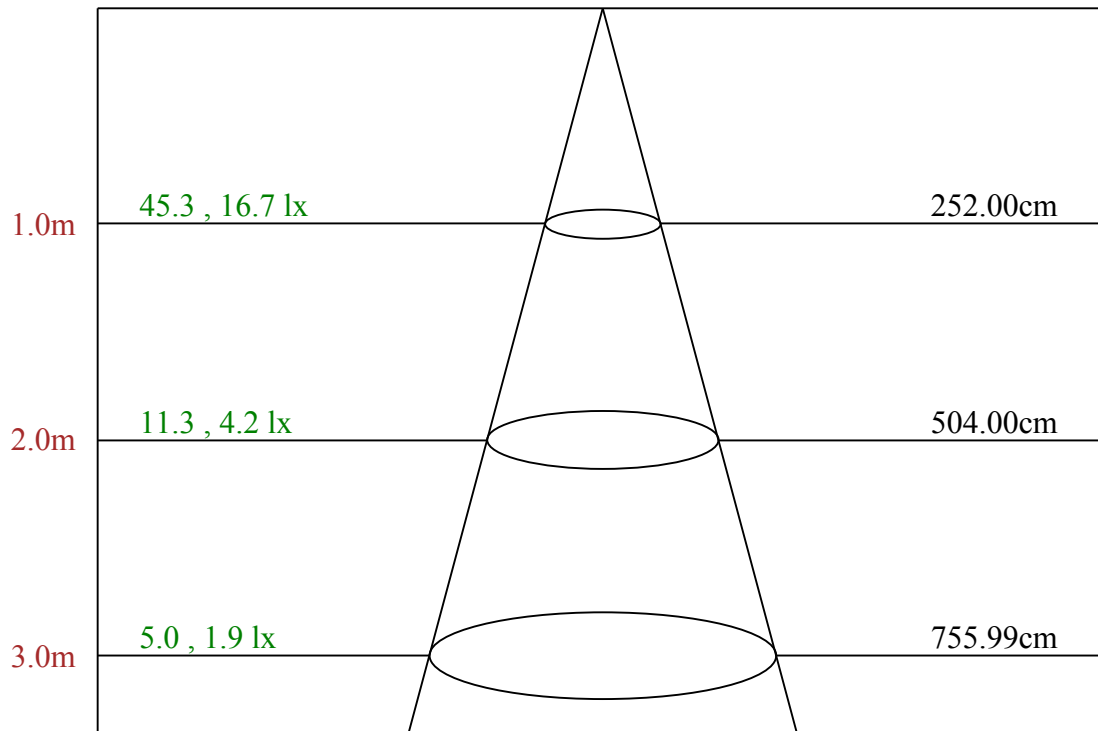
Equipment: equipamento lumini
Temperature(°C): 26.2

Date: 23/04/2025
Humidity(%): 62.0%

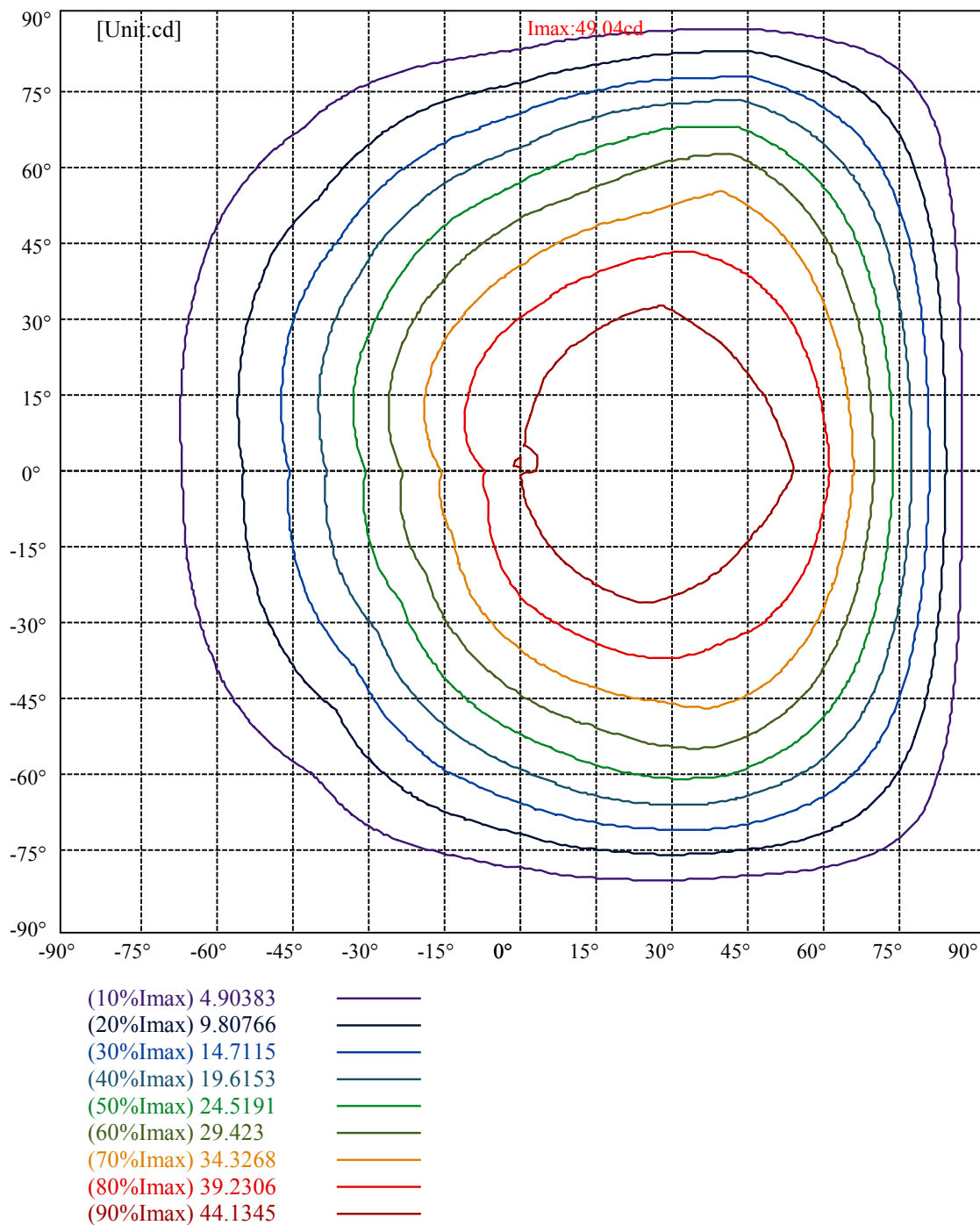
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 103.13



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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	4381	4691	5025	5288	5422	5512	5555	5611	5135
C45	4035	4217	4432	4799	5205	5614	5727	5959	6737
C90	2998	3012	2949	2933	2884	2830	2673	2431	2331

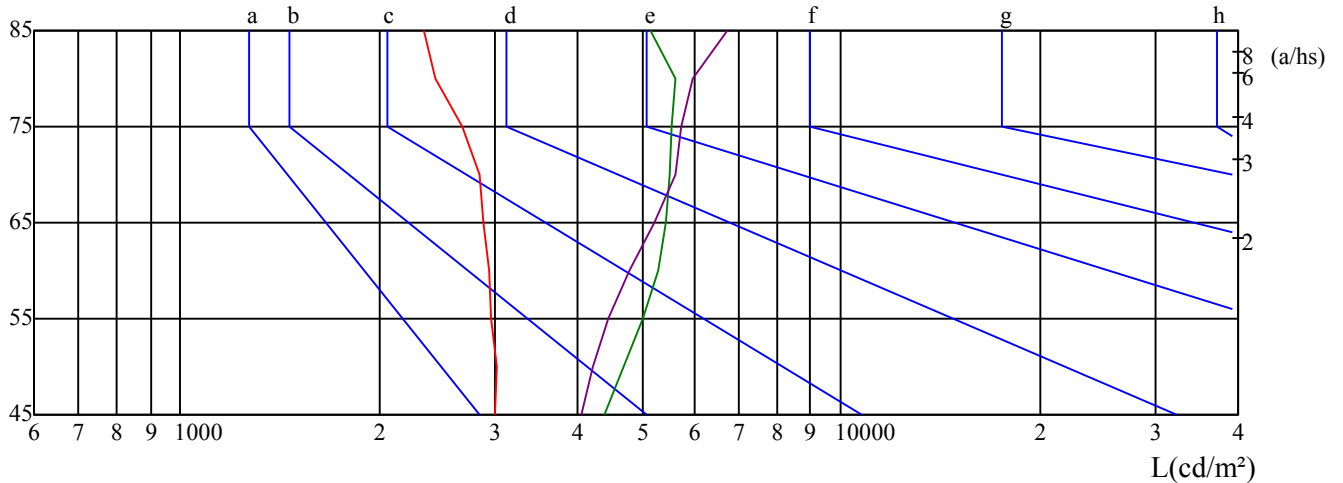
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3121	2587	2925	3072	2152	2805	2804	1602	2340

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: 23/04/2025
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	19.60	21.21	20.00	21.59	21.97	17.58	19.19	17.98	19.57	19.95
	3H	21.98	23.45	22.41	23.85	24.26	19.44	20.91	19.87	21.31	21.72
	4H	22.94	24.33	23.38	24.74	25.17	20.14	21.52	20.58	21.93	22.36
	6H	23.76	25.05	24.21	25.47	25.93	20.67	21.96	21.12	22.38	22.84
	8H	24.03	25.28	24.48	25.71	26.17	20.82	22.07	21.27	22.50	22.96
	12H	24.22	25.42	24.68	25.86	26.33	20.92	22.11	21.38	22.55	23.03
4H	2H	20.46	21.85	20.90	22.25	22.68	19.07	20.46	19.51	20.86	21.29
	3H	23.02	24.20	23.48	24.64	25.12	21.14	22.32	21.59	22.76	23.24
	4H	24.18	25.24	24.65	25.70	26.21	22.03	23.09	22.50	23.55	24.05
	6H	25.10	26.05	25.60	26.54	27.04	22.64	23.59	23.14	24.08	24.58
	8H	25.47	26.35	25.98	26.85	27.37	22.87	23.75	23.38	24.25	24.77
	12H	25.74	26.57	26.26	27.06	27.62	23.03	23.85	23.54	24.34	24.90
8H	4H	24.60	25.48	25.11	25.98	26.50	22.84	23.73	23.36	24.23	24.75
	6H	25.71	26.46	26.24	26.97	27.53	23.70	24.45	24.23	24.96	25.52
	8H	26.25	26.90	26.80	27.45	28.00	24.11	24.76	24.66	25.31	25.86
	12H	26.63	27.19	27.19	27.74	28.31	24.36	24.91	24.92	25.47	26.04
12H	4H	24.64	25.47	25.16	25.96	26.52	22.98	23.81	23.50	24.30	24.86
	6H	25.88	26.53	26.43	27.08	27.63	24.01	24.67	24.56	25.22	25.77
	8H	26.44	27.00	27.00	27.55	28.12	24.47	25.02	25.03	25.58	26.14
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.1/-0.8				
S = 1.5H		0.4/-0.6					0.5/-0.7				
S = 2.0H		0.5/-0.8					0.7/-0.4				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		7.9					10.1				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V ww e lp 2.5W

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.8500

Test No:

Current(A): 0.0410

Number of Lamps: 1

Power (W): 4.6880

Lamp flux(lm): 272.0

PF: 0.8860

Length(mm): 500

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 154.68, Efficiency(%): 56.87% , Luminous Efficacy(lm/W): 33.00

Central intensity(cd): 50.038, Maximum intensity(cd): 55.989

Angle of maximum intensity: C=180.0 γ =24.0

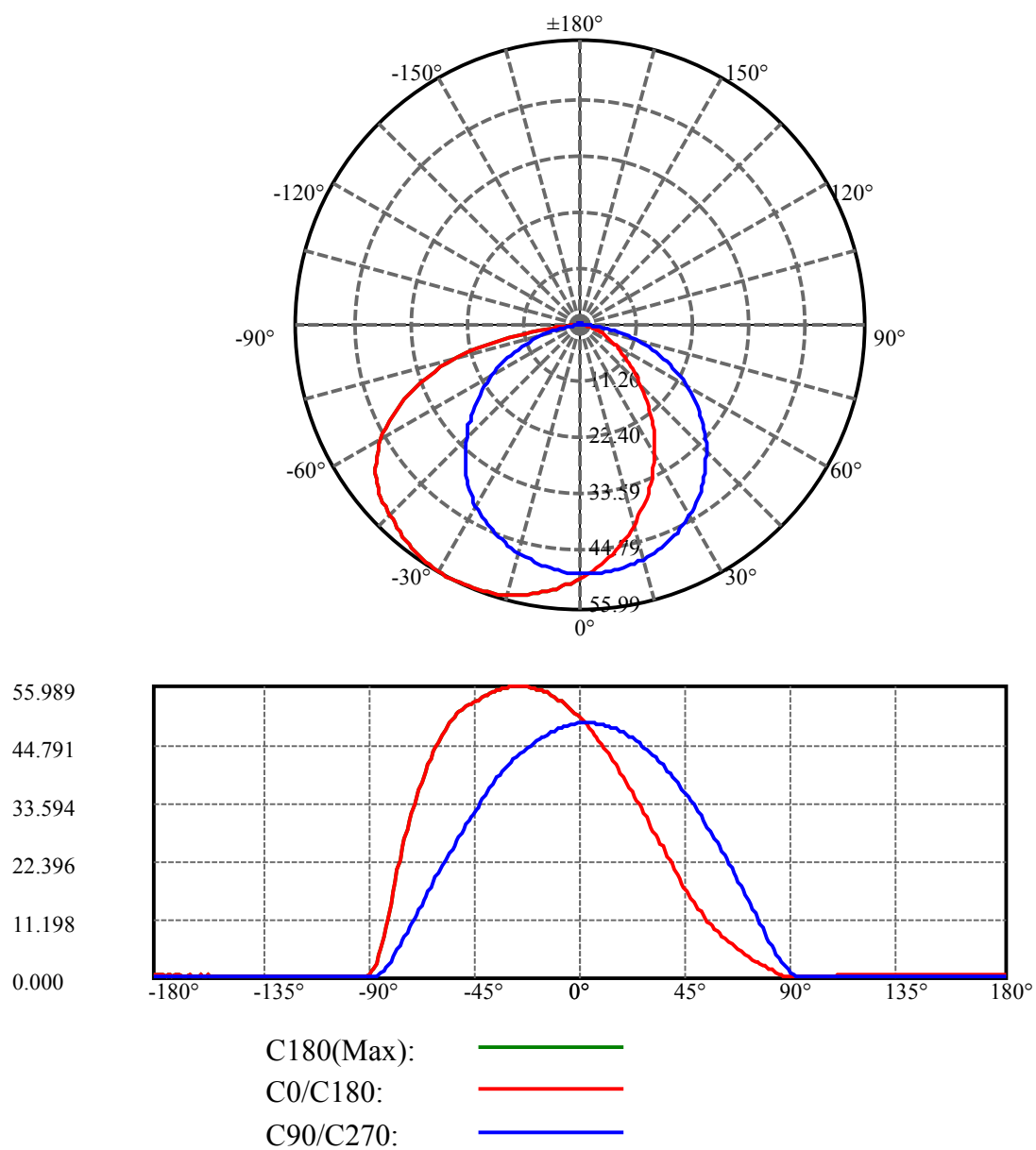
Beam angle of C180 plane : 104.72

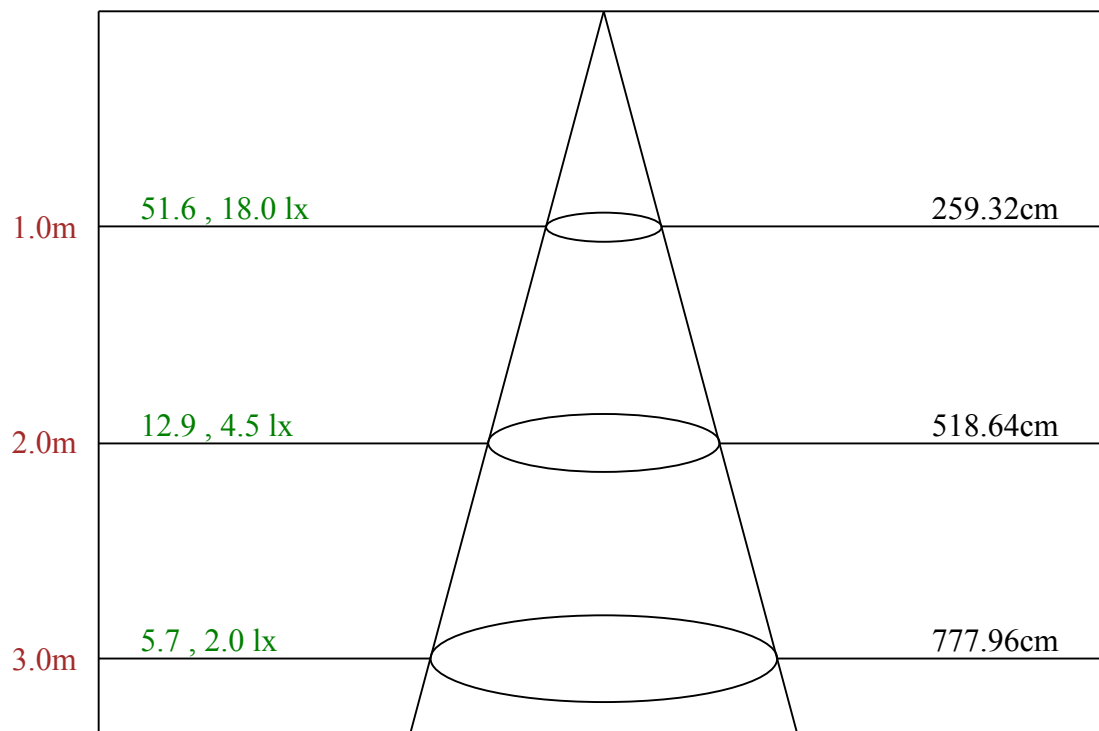
Aveage BeamAngle(IEC 61341):114.39

Equipment: equipamento lumini
Temperature(°C): 25.5

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

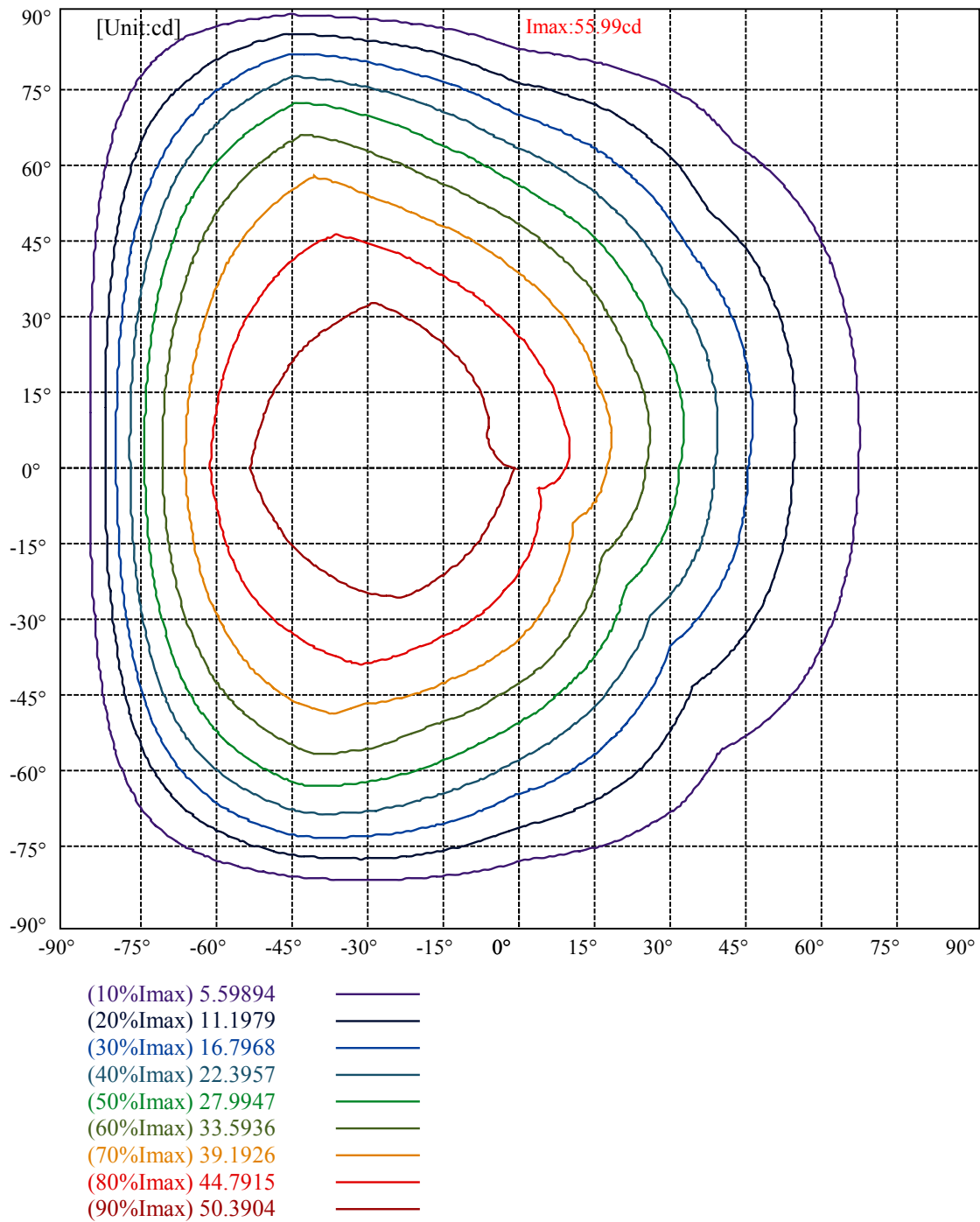
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C180 plane 104.72



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

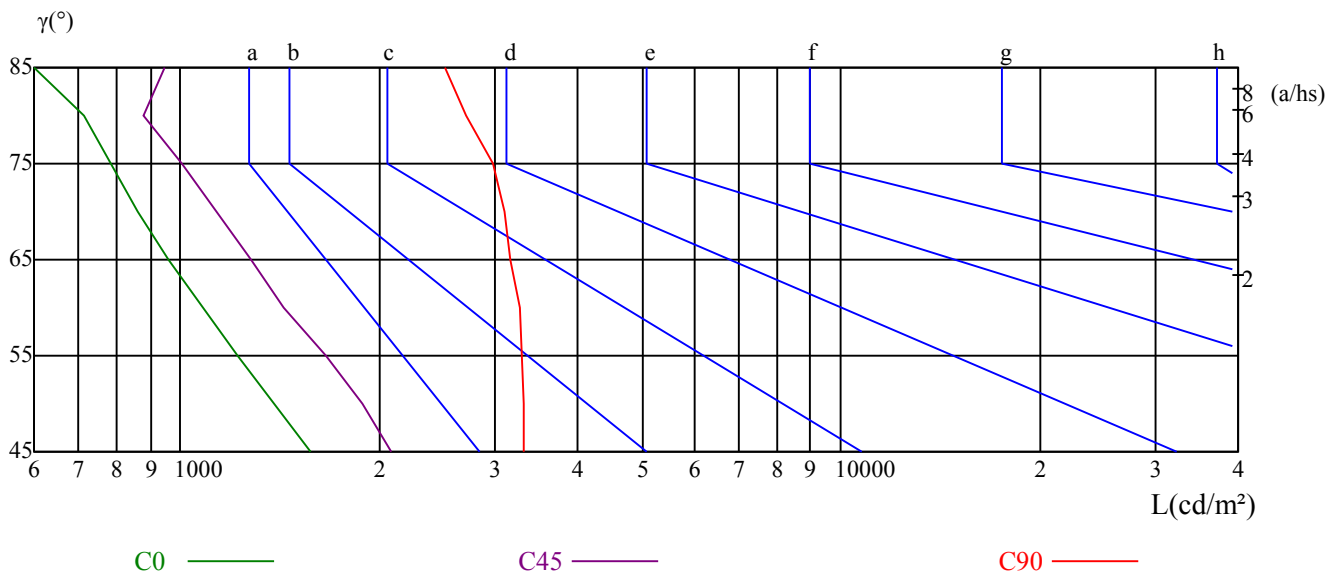
γ	45	50	55	60	65	70	75	80	85
C0	1576	1388	1217	1079	961	863	785	713	473
C45	2087	1886	1660	1435	1277	1132	1006	877	947
C90	3322	3303	3287	3263	3169	3100	2968	2705	2513

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3609	2813	3387	3630	2416	3642	1985	1511	3423

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



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	10.85	12.50	11.24	12.85	13.20	15.04	16.69	15.42	17.04	17.39
	3H	11.82	13.33	12.23	13.70	14.08	17.04	18.55	17.45	18.92	19.30
	4H	12.18	13.60	12.60	13.98	14.38	17.87	19.28	18.28	19.67	20.07
	6H	12.47	13.80	12.90	14.19	14.62	18.52	19.84	18.95	20.24	20.67
	8H	12.54	13.82	12.97	14.22	14.66	18.74	20.02	19.18	20.43	20.86
	12H	12.55	13.78	12.99	14.19	14.64	18.89	20.12	19.33	20.53	20.98
4H	2H	11.70	13.11	12.11	13.50	13.90	15.18	16.60	15.60	16.99	17.39
	3H	12.79	14.00	13.23	14.42	14.86	17.34	18.56	17.78	18.97	19.42
	4H	13.29	14.38	13.75	14.82	15.29	18.35	19.44	18.80	19.88	20.35
	6H	13.63	14.61	14.12	15.08	15.55	19.12	20.10	19.61	20.56	21.04
	8H	13.76	14.68	14.26	15.15	15.64	19.45	20.37	19.95	20.84	21.33
	12H	13.83	14.68	14.33	15.15	15.68	19.70	20.55	20.20	21.02	21.55
8H	4H	13.72	14.63	14.21	15.10	15.59	18.36	19.27	18.85	19.74	20.24
	6H	14.16	14.93	14.67	15.42	15.95	19.23	19.99	19.74	20.48	21.02
	8H	14.40	15.07	14.93	15.61	16.13	19.69	20.36	20.22	20.89	21.41
	12H	14.52	15.09	15.06	15.63	16.16	20.03	20.60	20.57	21.13	21.67
12H	4H	13.82	14.67	14.32	15.13	15.67	18.34	19.19	18.84	19.66	20.19
	6H	14.35	15.02	14.88	15.55	16.07	19.27	19.94	19.80	20.47	20.99
	8H	14.58	15.15	15.12	15.68	16.22	19.71	20.28	20.25	20.81	21.35
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.3/-0.7				
S = 1.5H		0.7/-0.6					0.8/-1.3				
S = 2.0H		1.1/-0.9					1.6/-1.6				
Standard tables:		BKBF					BK4				
Uncorrected UGR		4.6					-3.2				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil ww 12V e lp 7.5W

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.7800

Test No:

Current(A): 0.0920

Number of Lamps: 1

Power (W): 11.1920

Lamp flux(lm): 707.0

PF: 0.9520

Length(mm): 500

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 415.06, Efficiency(%): 58.71% , Luminous Efficacy(lm/W): 37.09

Central intensity(cd): 129.309, Maximum intensity(cd): 148.020

Angle of maximum intensity: C=0.0 γ =26.0

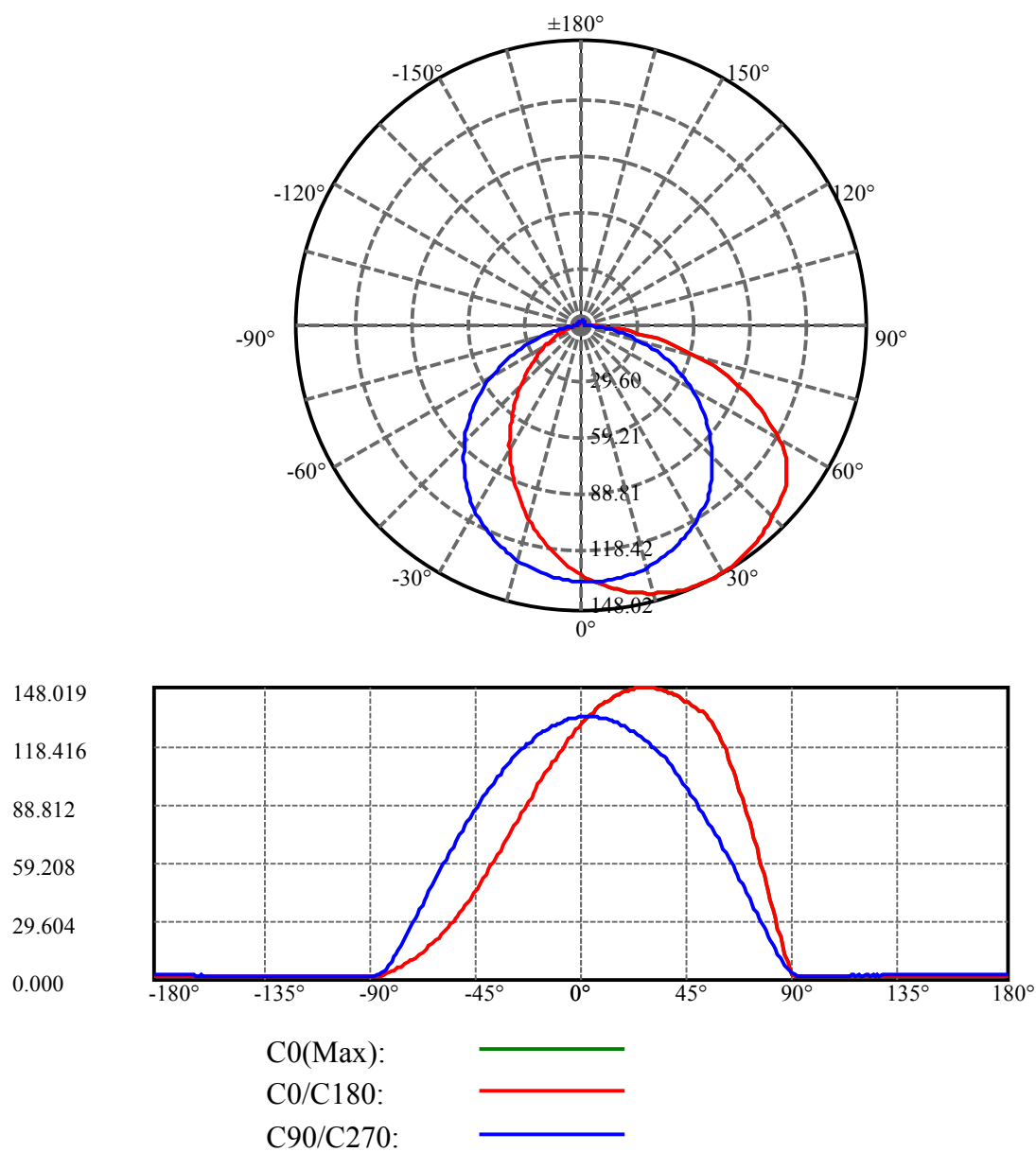
Beam angle of C0 plane : 102.71

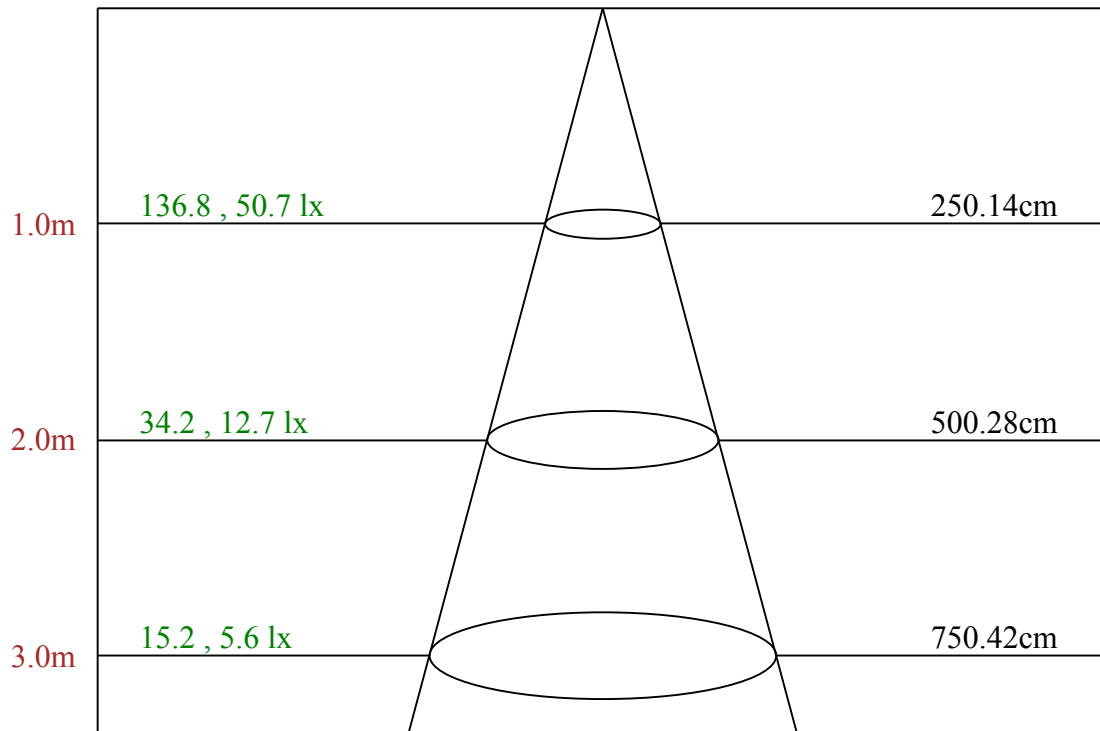
Aveage BeamAngle(IEC 61341):114.25

Equipment: equipamento lumini
Temperature(°C): 26.2

Date: 23/04/2025
Humidity(%): 62.0%

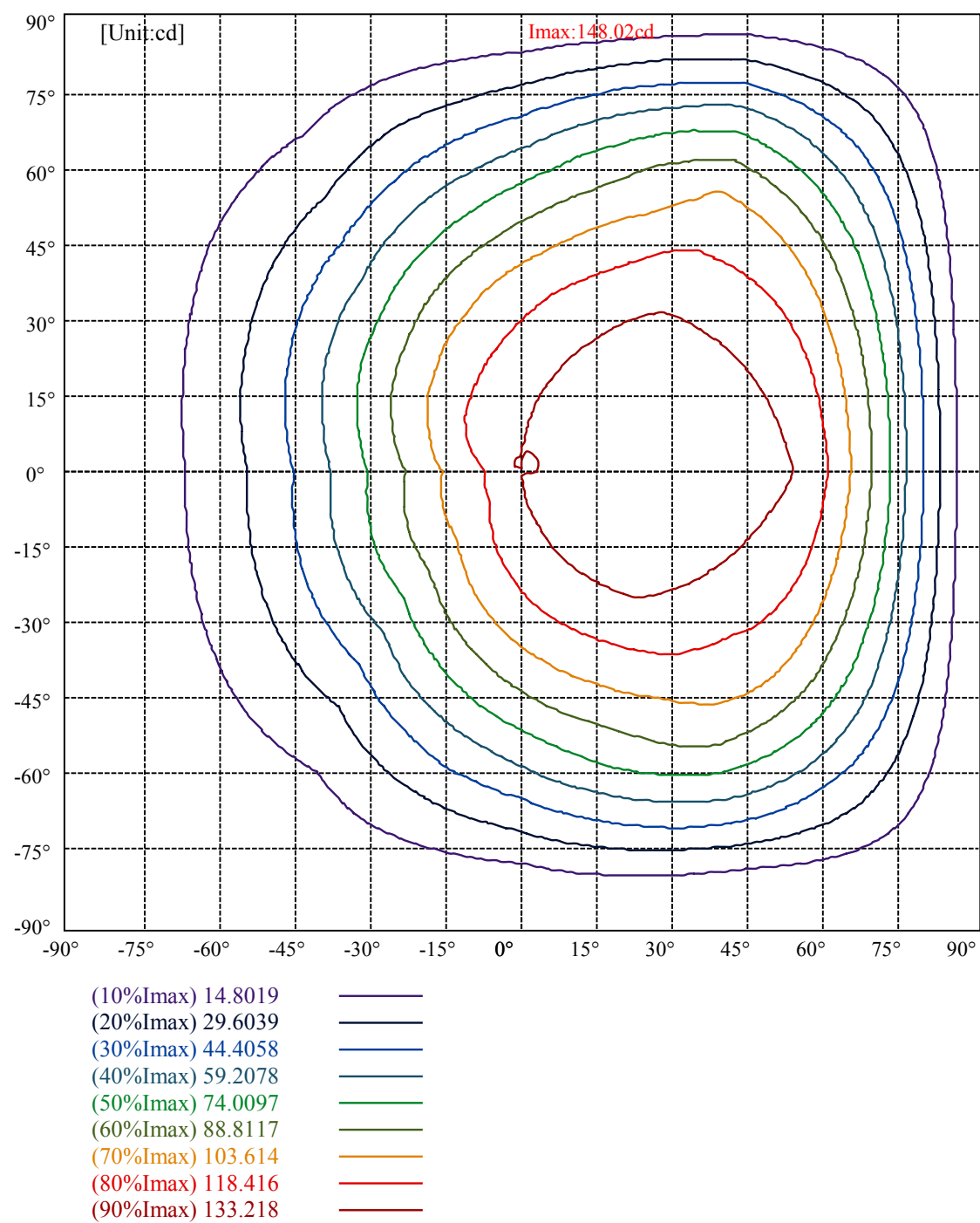
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 102.71



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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	13219	14147	15179	15883	16215	16417	15906	15610	13256
C45	12196	12848	13419	14518	15659	16621	17144	17346	17371
C90	9076	9002	9003	8862	8742	8547	8131	7622	6847

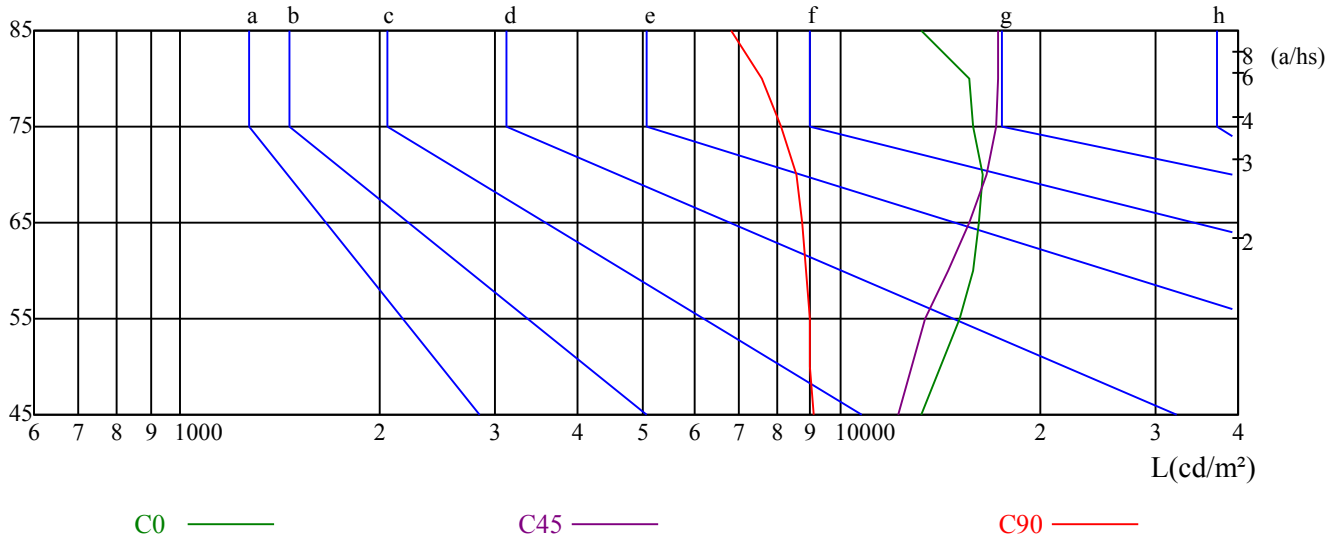
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9373	7728	8768	8928	6543	8336	7356	4643	6209

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($^{\circ}$ C): 26.2

Date: 23/04/2025
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	23.47	25.08	23.87	25.45	25.83	21.49	23.10	21.89	23.48	23.86
	3H	25.81	27.28	26.23	27.67	28.08	23.34	24.80	23.76	25.20	25.61
	4H	26.73	28.11	27.17	28.52	28.95	24.03	25.41	24.46	25.81	26.24
	6H	27.47	28.76	27.92	29.18	29.64	24.55	25.84	25.00	26.26	26.72
	8H	27.70	28.94	28.15	29.37	29.84	24.70	25.95	25.16	26.38	26.84
	12H	27.84	29.03	28.29	29.47	29.94	24.79	25.99	25.25	26.43	26.90
4H	2H	24.33	25.71	24.76	26.11	26.54	22.96	24.35	23.40	24.75	25.18
	3H	26.84	28.03	27.30	28.46	28.94	25.00	26.19	25.46	26.62	27.10
	4H	27.96	29.01	28.43	29.48	29.98	25.89	26.94	26.36	27.41	27.91
	6H	28.80	29.74	29.30	30.23	30.74	26.49	27.44	26.99	27.92	28.43
	8H	29.12	30.00	29.63	30.49	31.01	26.71	27.60	27.23	28.09	28.61
	12H	29.33	30.15	29.84	30.64	31.20	26.86	27.68	27.38	28.17	28.73
8H	4H	28.37	29.25	28.88	29.74	30.26	26.67	27.56	27.18	28.05	28.57
	6H	29.39	30.13	29.92	30.65	31.20	27.51	28.25	28.04	28.76	29.32
	8H	29.87	30.51	30.42	31.07	31.61	27.90	28.54	28.45	29.10	29.64
	12H	30.17	30.72	30.72	31.27	31.84	28.12	28.67	28.68	29.23	29.79
12H	4H	28.41	29.23	28.93	29.72	30.28	26.80	27.62	27.31	28.11	28.67
	6H	29.55	30.20	30.10	30.75	31.30	27.79	28.44	28.34	28.99	29.54
	8H	30.04	30.59	30.60	31.14	31.71	28.21	28.76	28.77	29.32	29.88
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.1/-0.8				
S = 1.5H		0.4/-0.6					0.5/-0.6				
S = 2.0H		0.5/-0.8					0.7/-0.4				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		11.7					13.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 12V ww e lp 7.5W

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

Ballast type: led line driver 12V

Report No:

Voltage(V): 127.7500

Test No:

Current(A): 0.1090

Number of Lamps: 1

Power (W): 12.9070

Lamp flux(lm): 672.0

PF: 0.9260

Length(mm): 500

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 363.30, Efficiency(%): 54.06% , Luminous Efficacy(lm/W): 28.15

Central intensity(cd): 117.930, Maximum intensity(cd): 132.499

Angle of maximum intensity: C=180.0 γ =25.0

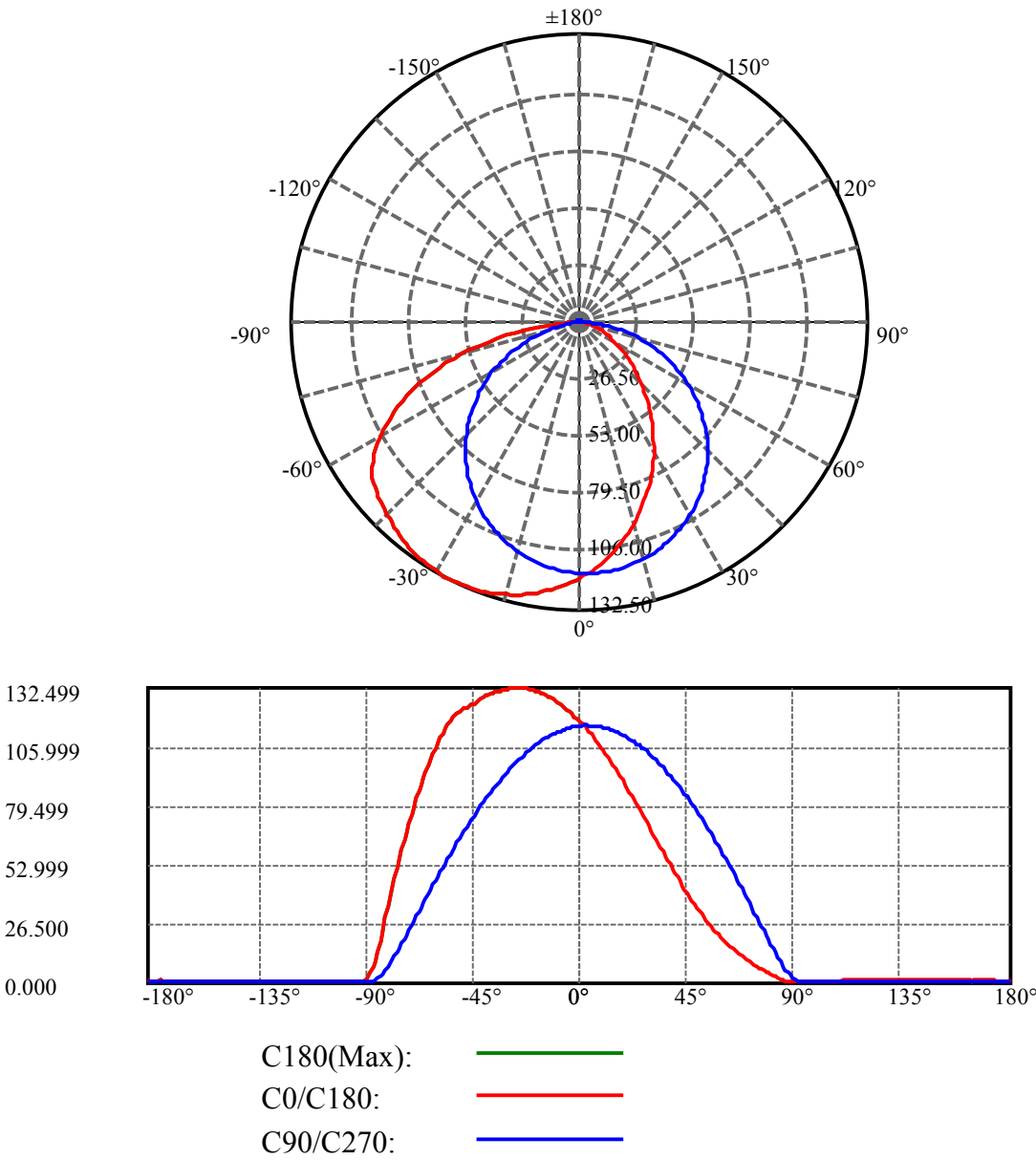
Beam angle of C180 plane : 103.50

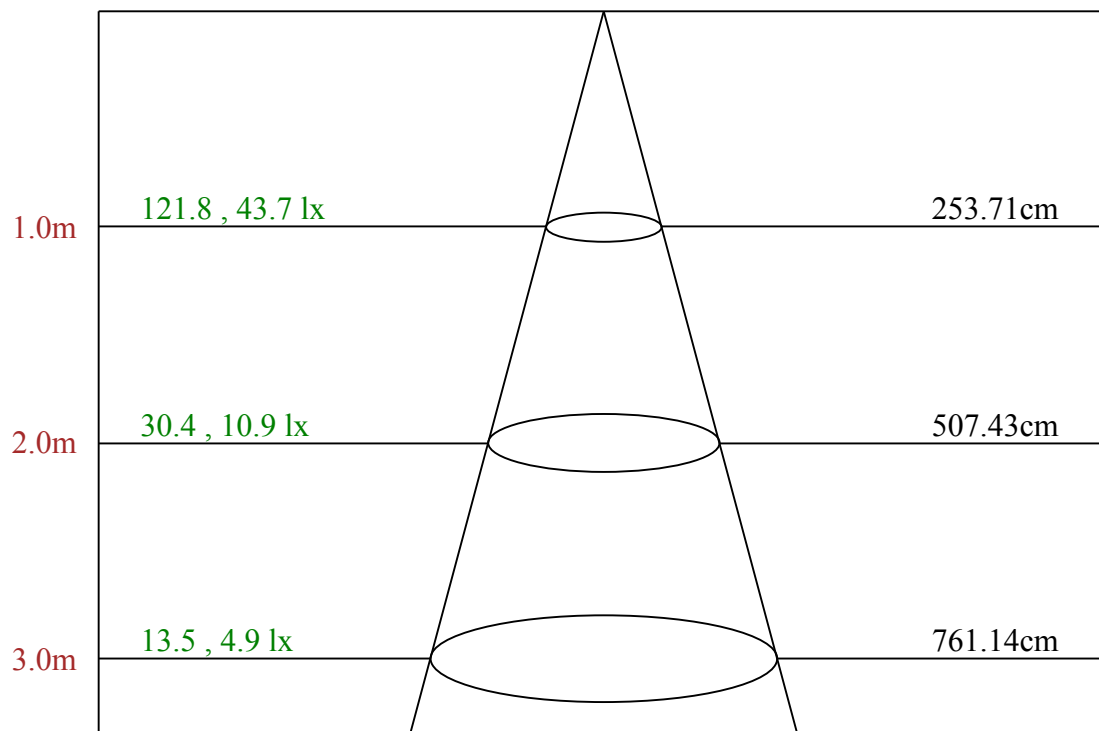
Average BeamAngle(IEC 61341): 114.05

Equipment: equipamento lumini
Temperature(°C): 25.5

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

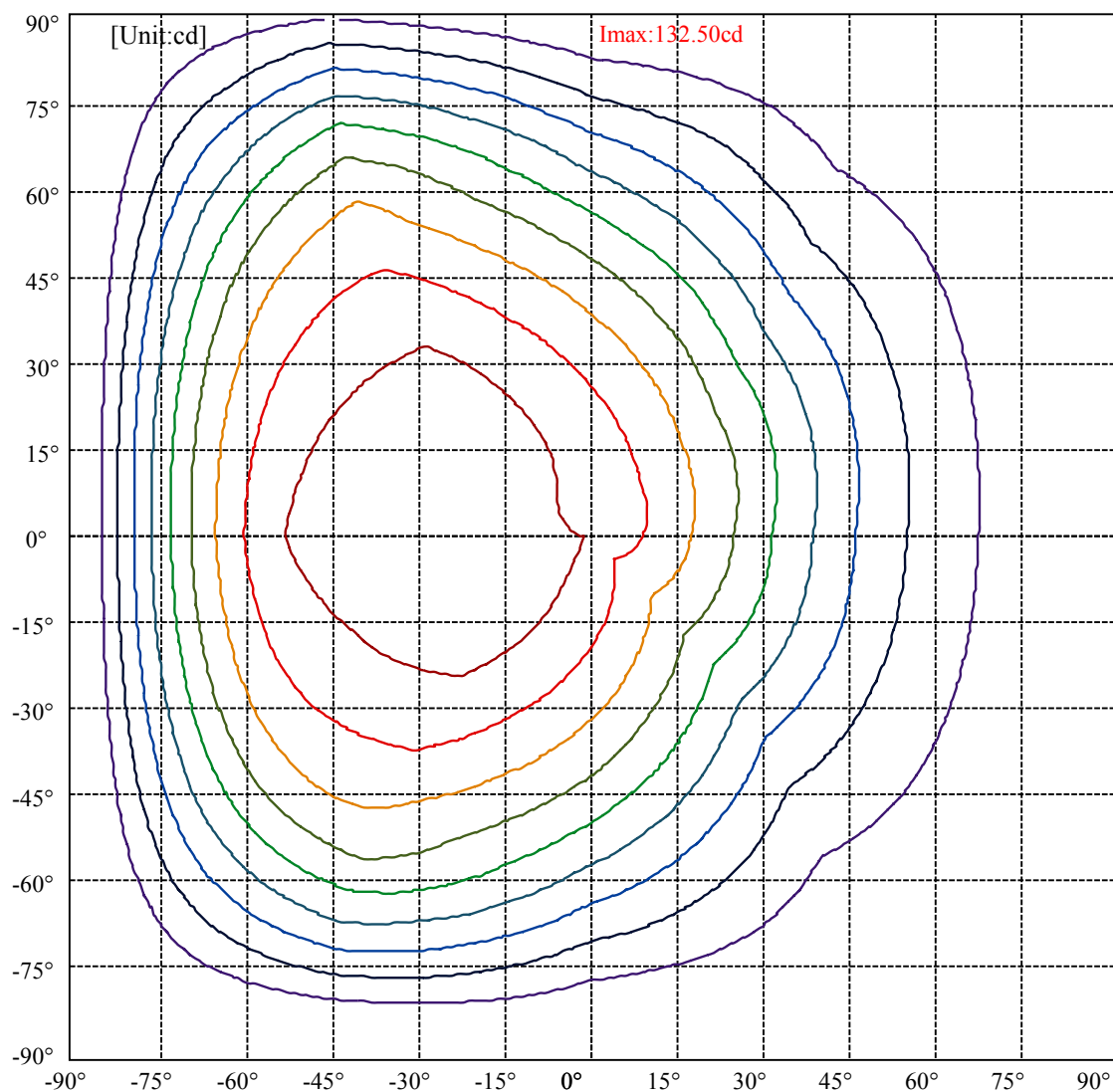
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C180 plane 103.50



(10%Imax) 13.2499	—
(20%Imax) 26.4997	—
(30%Imax) 39.7496	—
(40%Imax) 52.9995	—
(50%Imax) 66.2493	—
(60%Imax) 79.4992	—
(70%Imax) 92.749	—
(80%Imax) 105.999	—
(90%Imax) 119.249	—

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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

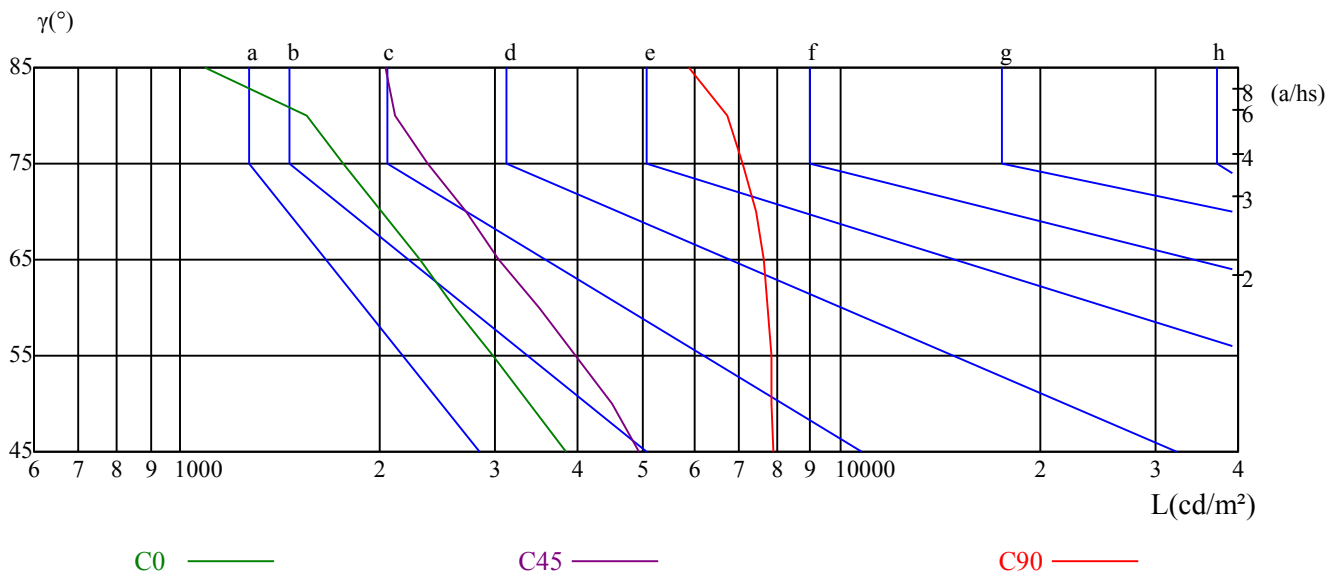
γ	45	50	55	60	65	70	75	80	85
C0	3824	3382	2977	2596	2306	2023	1766	1554	1093
C45	4956	4508	3979	3504	3027	2701	2367	2120	2039
C90	7887	7876	7836	7726	7630	7461	7101	6745	5900

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8397	6662	7974	8088	5598	8339	4461	3533	7875

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



Equipment: equipamento lumini
Temperature($^{\circ}$ 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	13.99	15.64	14.37	15.99	16.34	18.11	19.76	18.50	20.11	20.46
	3H	14.94	16.45	15.35	16.82	17.19	20.15	21.65	20.55	22.02	22.40
	4H	15.27	16.68	15.68	17.07	17.46	20.97	22.38	21.38	22.77	23.16
	6H	15.53	16.85	15.96	17.25	17.67	21.66	22.98	22.09	23.38	23.81
	8H	15.58	16.86	16.01	17.26	17.69	21.90	23.17	22.33	23.58	24.01
	12H	15.59	16.82	16.03	17.23	17.67	22.05	23.28	22.49	23.69	24.14
4H	2H	14.85	16.27	15.27	16.65	17.05	18.27	19.69	18.69	20.07	20.47
	3H	15.91	17.13	16.35	17.54	17.99	20.45	21.67	20.89	22.08	22.53
	4H	16.38	17.46	16.83	17.91	18.38	21.46	22.54	21.91	22.99	23.46
	6H	16.69	17.66	17.17	18.13	18.61	22.28	23.25	22.76	23.72	24.19
	8H	16.80	17.71	17.30	18.18	18.68	22.62	23.53	23.11	24.00	24.50
	12H	16.87	17.71	17.36	18.18	18.71	22.88	23.72	23.37	24.19	24.72
8H	4H	16.80	17.72	17.30	18.19	18.68	21.47	22.38	21.96	22.85	23.34
	6H	17.22	17.98	17.73	18.47	19.00	22.38	23.15	22.89	23.64	24.17
	8H	17.44	18.11	17.97	18.64	19.16	22.86	23.53	23.39	24.06	24.58
	12H	17.54	18.11	18.08	18.65	19.19	23.20	23.77	23.74	24.30	24.84
12H	4H	16.91	17.76	17.41	18.23	18.76	21.45	22.30	21.95	22.76	23.30
	6H	17.41	18.08	17.94	18.61	19.13	22.42	23.09	22.95	23.62	24.14
	8H	17.61	18.18	18.15	18.72	19.26	22.87	23.44	23.41	23.98	24.51
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.3/-0.7				
S = 1.5H		0.7/-0.6					0.7/-1.3				
S = 2.0H		1.1/-0.8					1.7/-1.7				
Standard tables:		BKBF					BK4				
Uncorrected UGR		7.7					-0.1				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil 24V ww e lp 12W

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

Ballast type: led line driver 24V

Report No:

Voltage(V): 127.7300

Test No:

Current(A): 0.1340

Number of Lamps: 1

Power (W): 14.6200

Lamp flux(lm): 1078.0

PF: 0.8560

Length(mm): 500

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 654.01, Efficiency(%): 60.67% , Luminous Efficacy(lm/W): 44.73

Central intensity(cd): 200.914, Maximum intensity(cd): 231.908

Angle of maximum intensity: C=0.0 γ =28.0

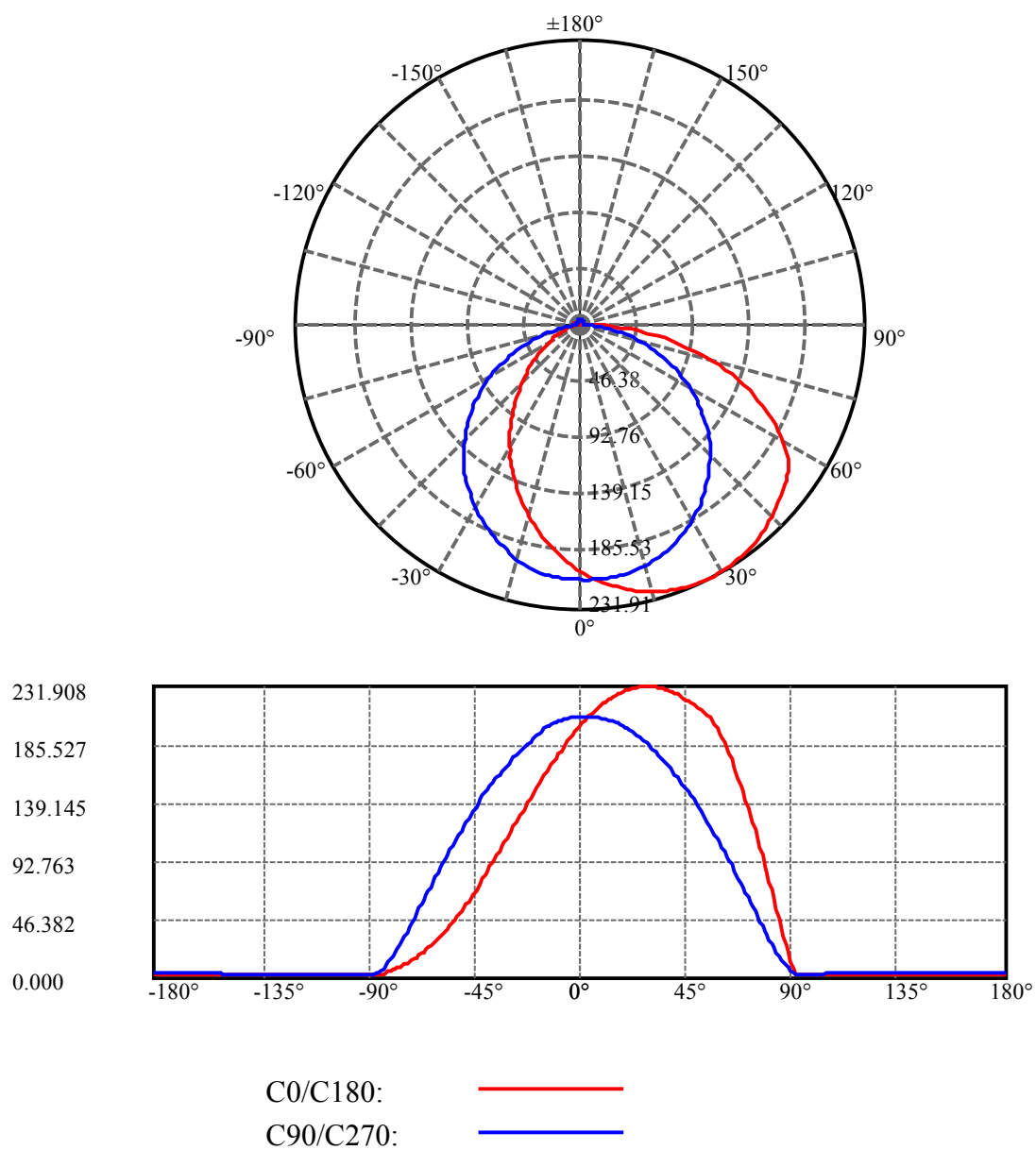
Beam angle of C0 plane : 103.67

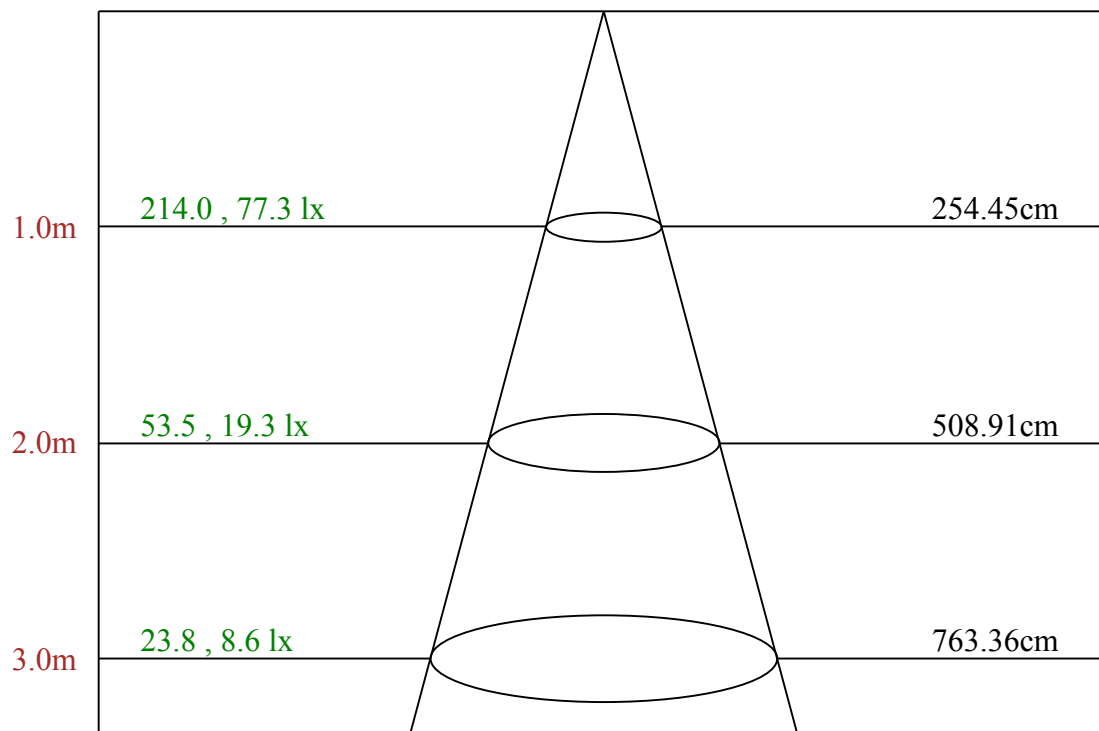
Average BeamAngle(IEC 61341): 114.53

Equipment: equipamento lumini
Temperature(°C): 25.5

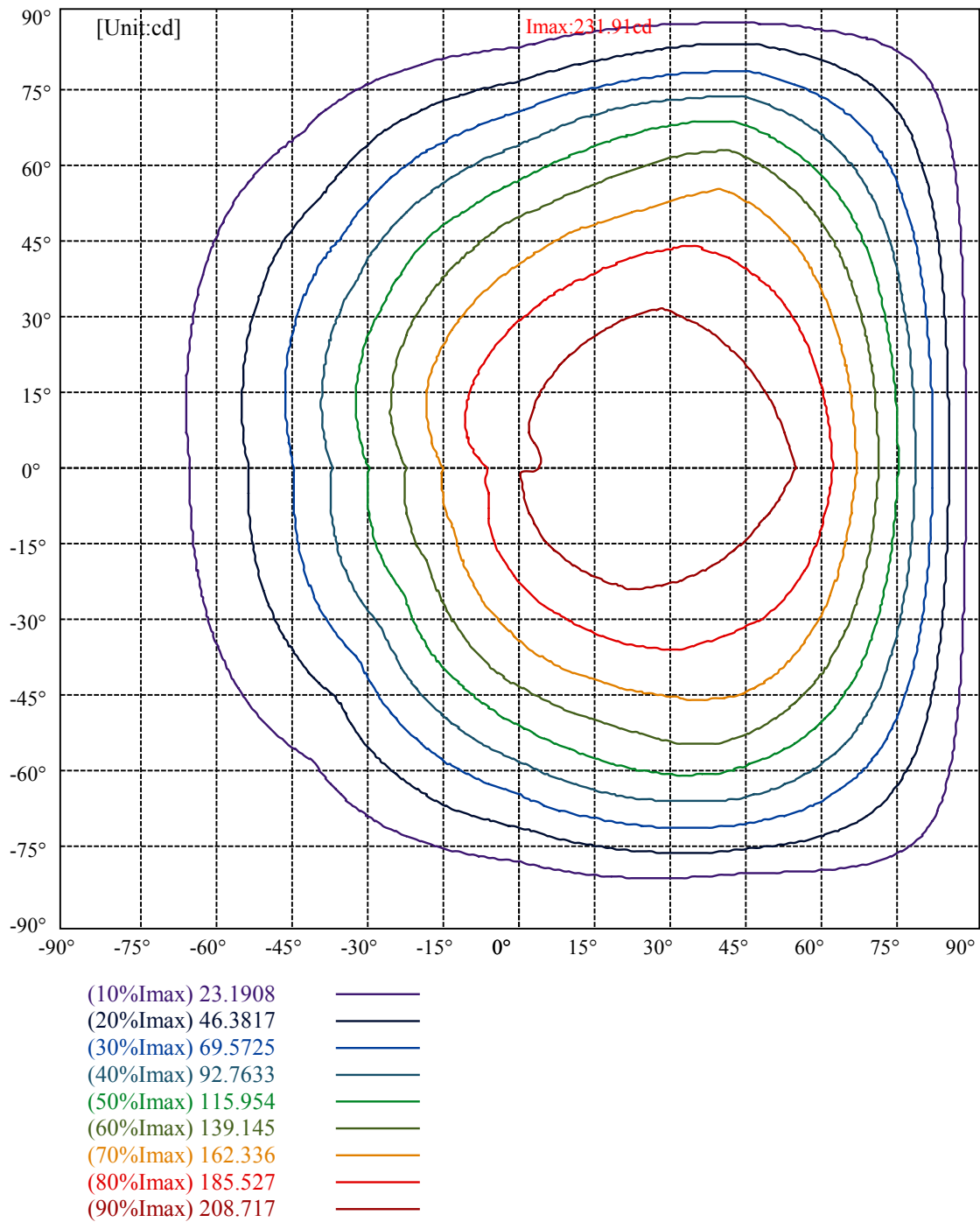
Date: 29/04/2025
Humidity(%): 64.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 103.67



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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	20837	22294	24105	25563	26421	27599	28733	29446	31283
C45	19099	19988	21122	22732	24844	26718	27777	29574	35944
C90	14180	14147	13978	13908	13504	13271	12595	11826	11217

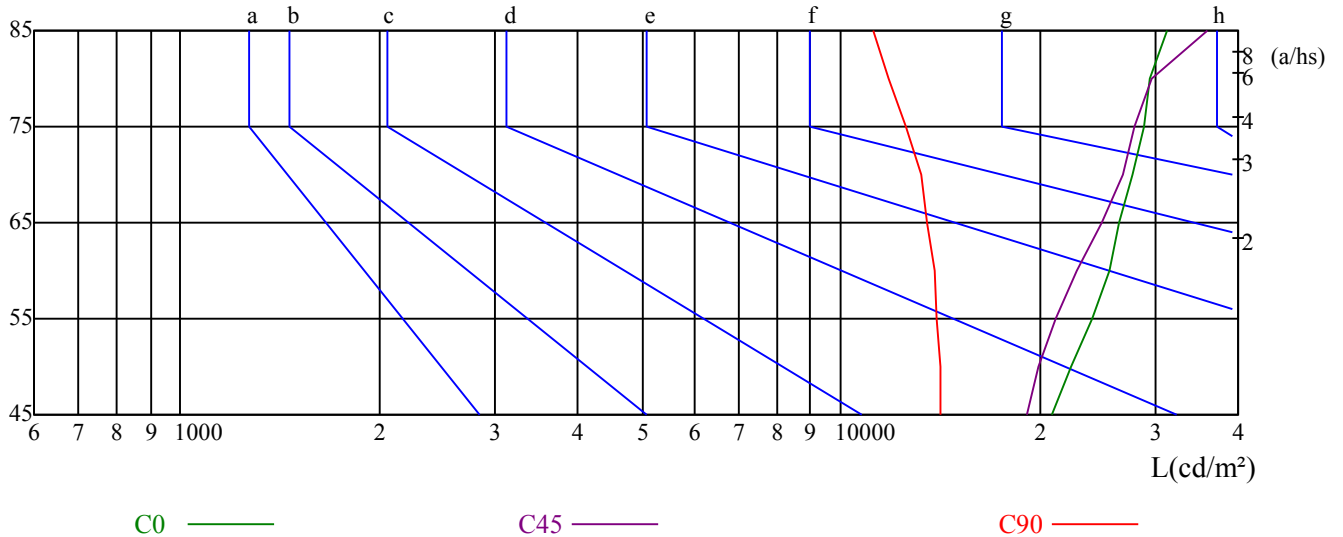
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14972	11949	13802	15666	10148	13425	16552	7302	12373

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($^{\circ}\text{C}$): 25.5

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	25.09	26.71	25.49	27.08	27.47	23.00	24.61	23.40	24.99	25.37
	3H	27.57	29.04	27.99	29.44	29.85	24.86	26.33	25.28	26.73	27.14
	4H	28.61	30.00	29.05	30.41	30.84	25.56	26.95	26.00	27.36	27.79
	6H	29.50	30.80	29.95	31.22	31.68	26.09	27.39	26.54	27.81	28.27
	8H	29.85	31.10	30.30	31.53	31.99	26.26	27.51	26.71	27.94	28.40
	12H	30.10	31.31	30.56	31.75	32.22	26.36	27.56	26.82	28.00	28.47
4H	2H	25.94	27.33	26.38	27.74	28.17	24.50	25.89	24.94	26.30	26.73
	3H	28.59	29.79	29.05	30.23	30.70	26.57	27.76	27.03	28.20	28.67
	4H	29.83	30.90	30.31	31.37	31.87	27.47	28.54	27.95	29.00	29.50
	6H	30.84	31.79	31.34	32.28	32.79	28.10	29.05	28.60	29.54	30.05
	8H	31.28	32.17	31.79	32.67	33.19	28.34	29.23	28.85	29.72	30.25
	12H	31.64	32.47	32.15	32.96	33.52	28.51	29.34	29.02	29.83	30.39
8H	4H	30.24	31.14	30.76	31.63	32.16	28.33	29.22	28.84	29.71	30.24
	6H	31.45	32.20	31.98	32.71	33.27	29.21	29.96	29.74	30.47	31.03
	8H	32.07	32.73	32.62	33.28	33.83	29.63	30.29	30.18	30.85	31.40
	12H	32.56	33.12	33.12	33.67	34.24	29.92	30.48	30.48	31.03	31.60
12H	4H	30.29	31.12	30.81	31.61	32.18	28.48	29.31	29.00	29.80	30.36
	6H	31.62	32.28	32.17	32.83	33.38	29.54	30.20	30.09	30.76	31.31
	8H	32.27	32.83	32.83	33.39	33.95	30.04	30.60	30.60	31.15	31.72
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.9				
S = 1.5H		0.4/-0.6					0.5/-0.7				
S = 2.0H		0.4/-0.7					0.6/-0.4				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		13.3					15.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: led line perfil ww c mp 12.5W

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

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.7100

Test No:

Current(A): 0.1510

Number of Lamps: 1

Power (W): 17.0390

Lamp flux(lm): 1748.0

PF: 0.8840

Length(mm): 500

Width(mm): 30

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1036.28, Efficiency(%): 59.28% , Luminous Efficacy(lm/W): 60.82

Central intensity(cd): 314.893, Maximum intensity(cd): 369.311

Angle of maximum intensity: C=0.0 γ =28.0

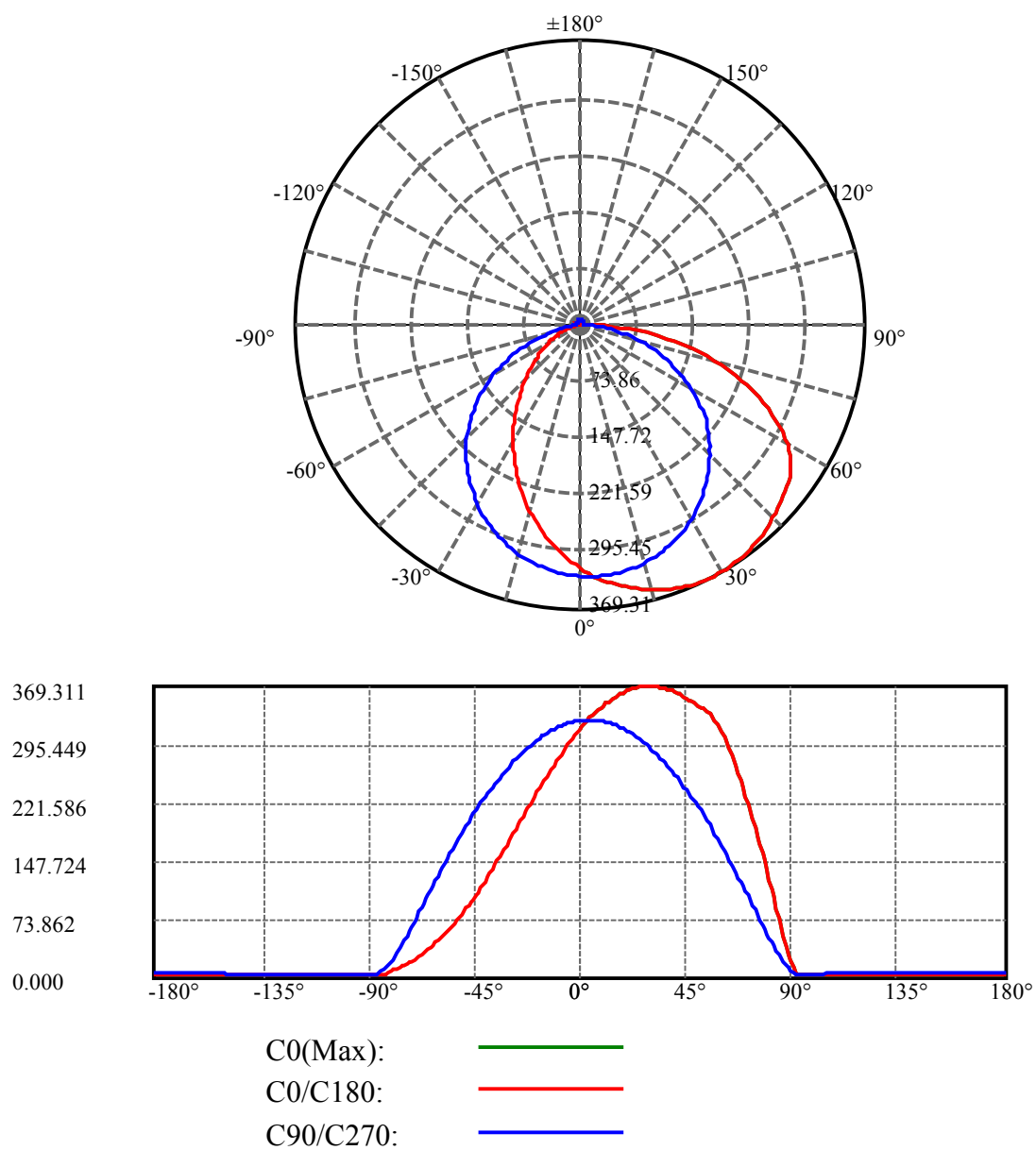
Beam angle of C0 plane : 102.34

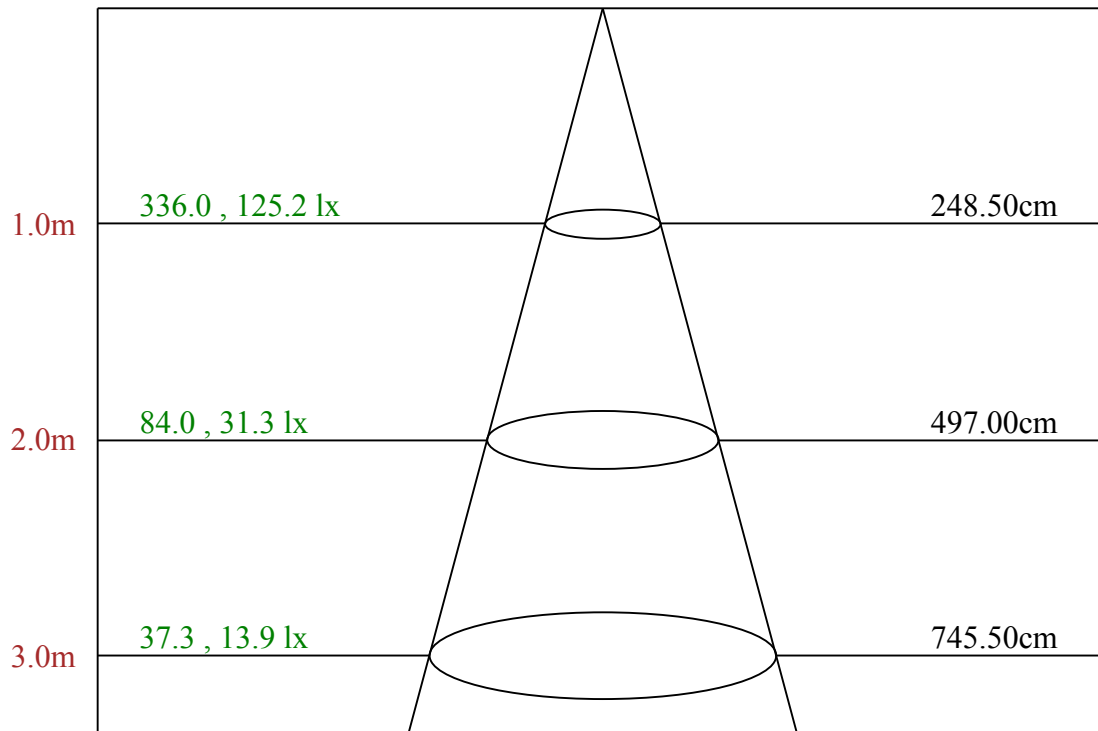
Average BeamAngle(IEC 61341): 114.28

Equipment: equipamento lumini
Temperature(°C): 25.5

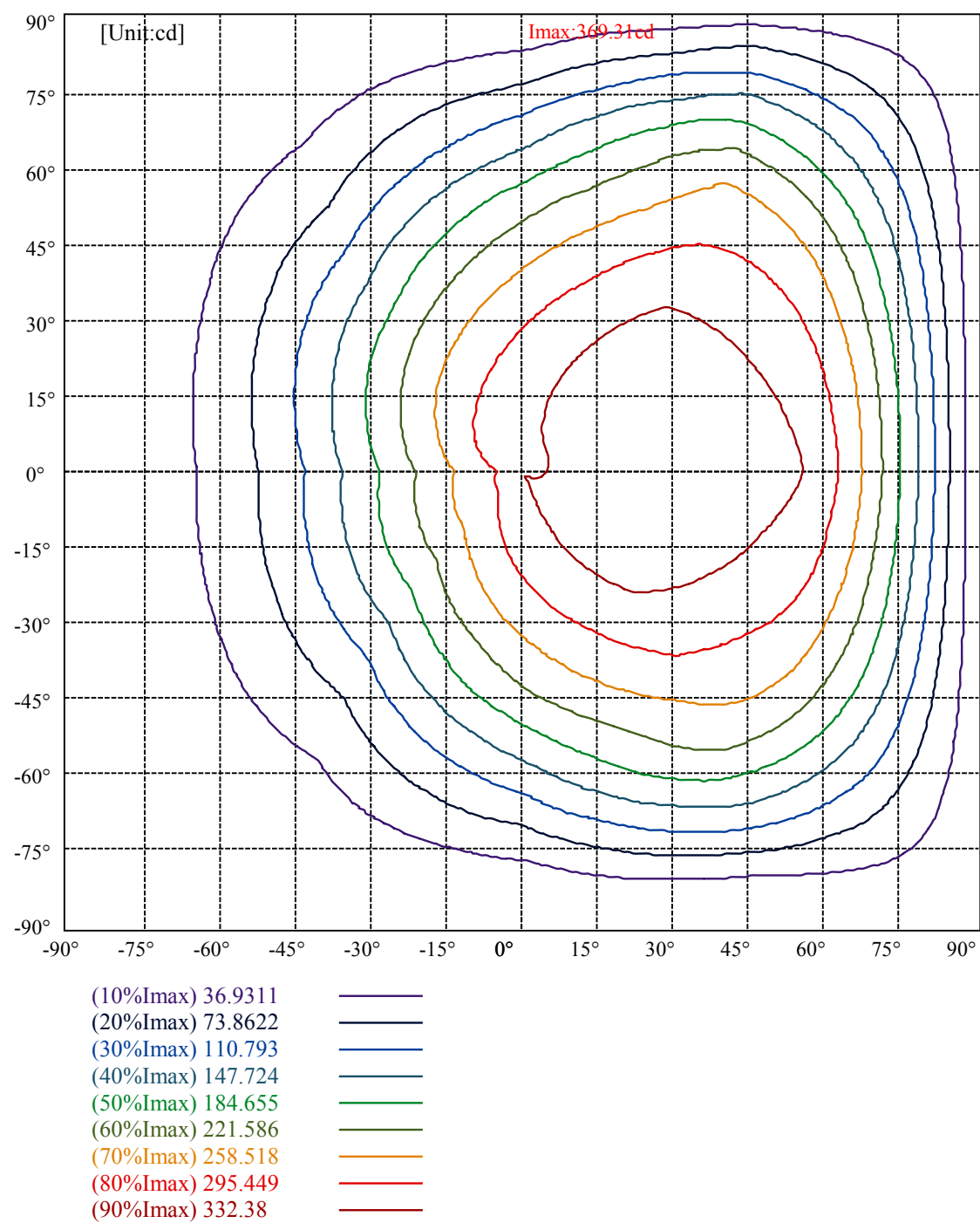
Date: 28/04/2025
Humidity(%): 64.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 102.34



Luminance Table

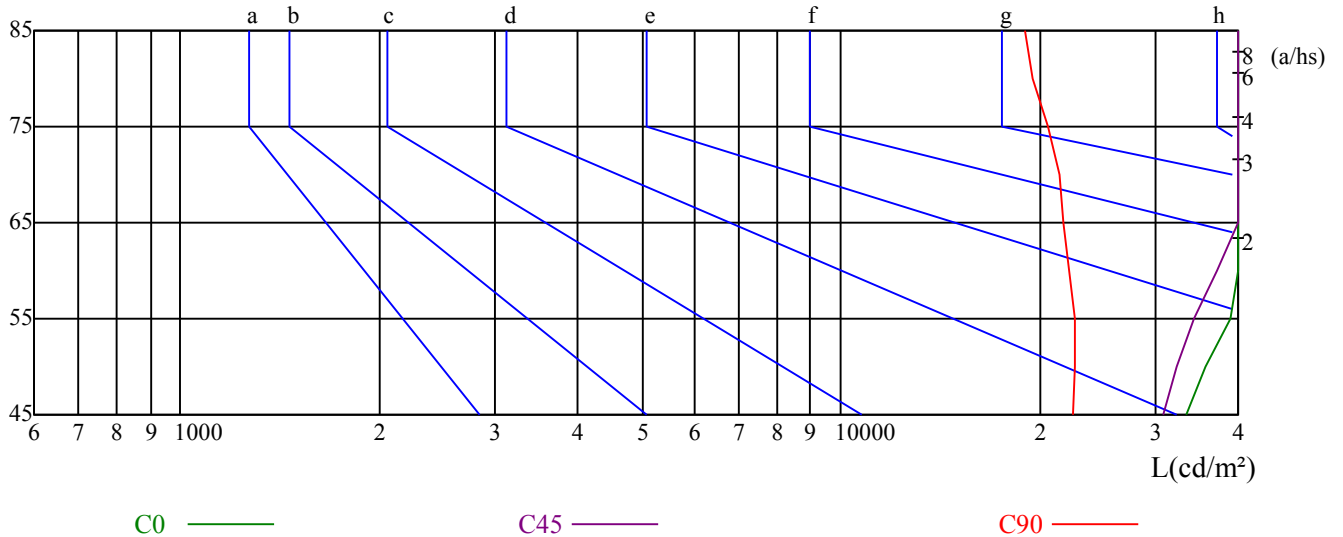
γ	45	50	55	60	65	70	75	80	85
C0	33365	35750	38830	41491	43470	44860	46331	47725	48872
C45	30712	32274	34176	37047	40924	43849	46625	51362	60562
C90	22444	22586	22589	22224	21697	21446	20566	19576	19010

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
24454	18768	22253	25201	15930	22142	25875	12273	20685

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

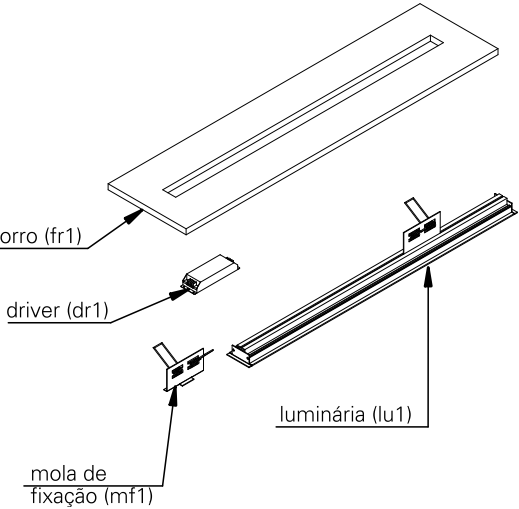
 $\gamma(^{\circ})$ 

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	26.84	28.46	27.24	28.83	29.22	24.71	26.33	25.12	26.71	27.09
	3H	29.36	30.83	29.78	31.23	31.64	26.60	28.08	27.03	28.48	28.89
	4H	30.40	31.80	30.84	32.21	32.64	27.33	28.72	27.76	29.13	29.56
	6H	31.31	32.61	31.76	33.03	33.49	27.88	29.18	28.33	29.61	30.07
	8H	31.64	32.90	32.10	33.33	33.80	28.05	29.31	28.51	29.74	30.21
	12H	31.88	33.09	32.34	33.53	34.00	28.16	29.37	28.62	29.81	30.28
4H	2H	27.71	29.10	28.15	29.51	29.94	26.26	27.65	26.69	28.06	28.49
	3H	30.40	31.60	30.86	32.04	32.52	28.36	29.56	28.82	30.00	30.47
	4H	31.65	32.72	32.13	33.19	33.69	29.29	30.36	29.77	30.83	31.33
	6H	32.68	33.64	33.18	34.13	34.63	29.95	30.90	30.45	31.39	31.90
	8H	33.10	34.00	33.62	34.50	35.02	30.19	31.09	30.70	31.58	32.10
	12H	33.43	34.27	33.95	34.76	35.32	30.36	31.20	30.88	31.69	32.25
8H	4H	32.09	32.99	32.60	33.48	34.01	30.19	31.09	30.70	31.58	32.11
	6H	33.32	34.08	33.85	34.59	35.15	31.11	31.87	31.64	32.38	32.94
	8H	33.92	34.58	34.47	35.13	35.68	31.53	32.19	32.08	32.75	33.30
	12H	34.37	34.93	34.93	35.49	36.05	31.81	32.38	32.37	32.93	33.50
12H	4H	32.14	32.98	32.66	33.47	34.03	30.36	31.19	30.87	31.68	32.24
	6H	33.49	34.16	34.04	34.71	35.26	31.45	32.11	32.00	32.67	33.22
	8H	34.11	34.68	34.67	35.23	35.80	31.92	32.49	32.48	33.04	33.61
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.1/-0.9				
S = 1.5H		0.4/-0.6					0.5/-0.7				
S = 2.0H		0.4/-0.7					0.6/-0.4				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		15.1					17.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

led line

led line perfil ww 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 ww mini frame flex e - 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.

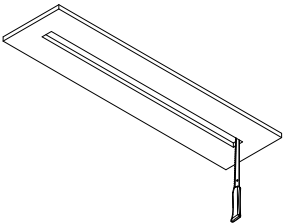
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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

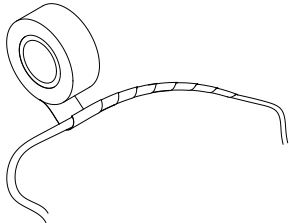
instalação passo a passo



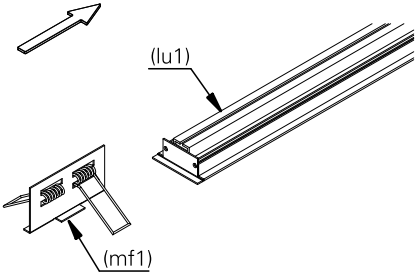
1. faça o nicho de 35 x comprimento -10mm.



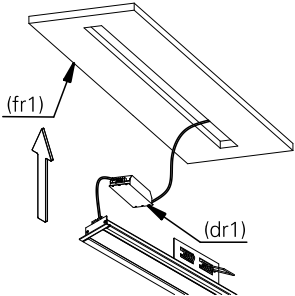
2. faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.



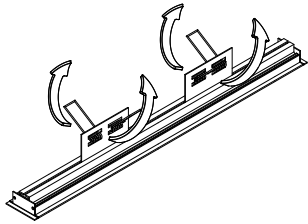
3. encaixe as molas de fixação (mf1) na luminária (lu1) e ajuste na posição desejada.



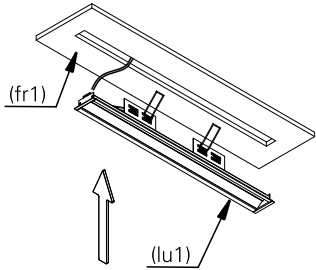
4. aloje o driver (dr1) sobre o forro (fr1).



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.

