

focus sm r e tr

linha de luminárias embutidas orientáveis para tecnologia led em alumínio tratado e pintado por processo eletrostático nas cores padrão lumini, com dispositivo antiofiscamento na cor preta.

informações técnicas

fonte de luz
LED integrado

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

vida útil
25.000h

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

W		K	lm nominal	lm útil
5	m	2700	290	200
5	a	2700	290	201
9	m	2700	525	333
9	a	2700	525	315

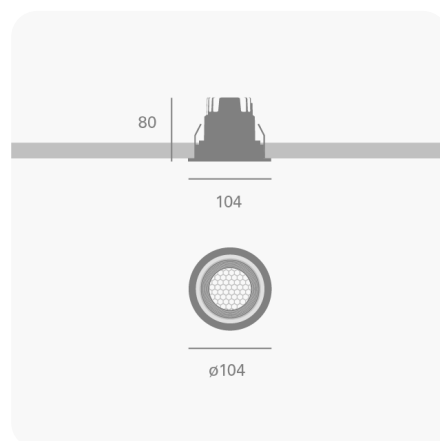
equipamentos
TR (driver integrado ao módulo LED)

controle
on/off

instalação
forro de gesso
forro modular
marcenaria

IP
20

dimensões



acabamentos e cores

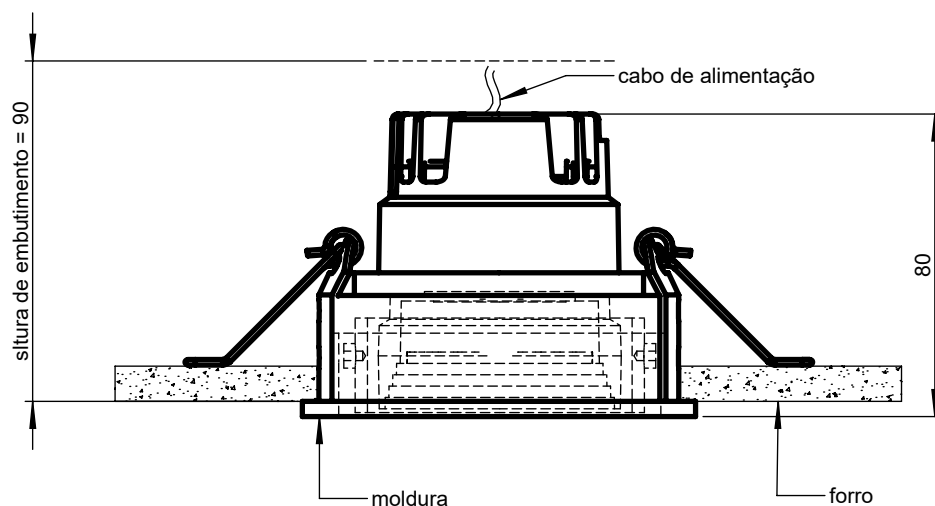
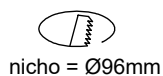
cores





vista lateral

dimensões em milímetros



focus sm r tr e

folha
1/1

escala
1:2

data
16/04/2025

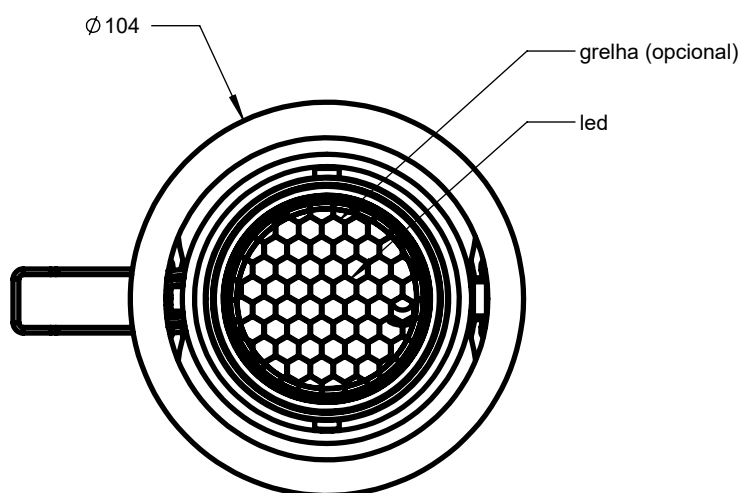
desenhista
emilson

aprovação
edmilson

revisões
16/04/2025

vista inferior

dimensões em milímetros



para maiores informações,
consulte a área técnica
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LumCAT:

Luminaire: focus sm r e tr fa

LampCAT: modulo led tr 5W 2700K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0390

Number of Lamps: 1

Power (W): 4.7000

Lamp flux(lm): 290.0

PF: 0.9300

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 200.80, Efficiency(%): 69.24% , Luminous Efficacy(lm/W): 42.72

Central intensity(cd): 212.198, Maximum intensity(cd): 212.198

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

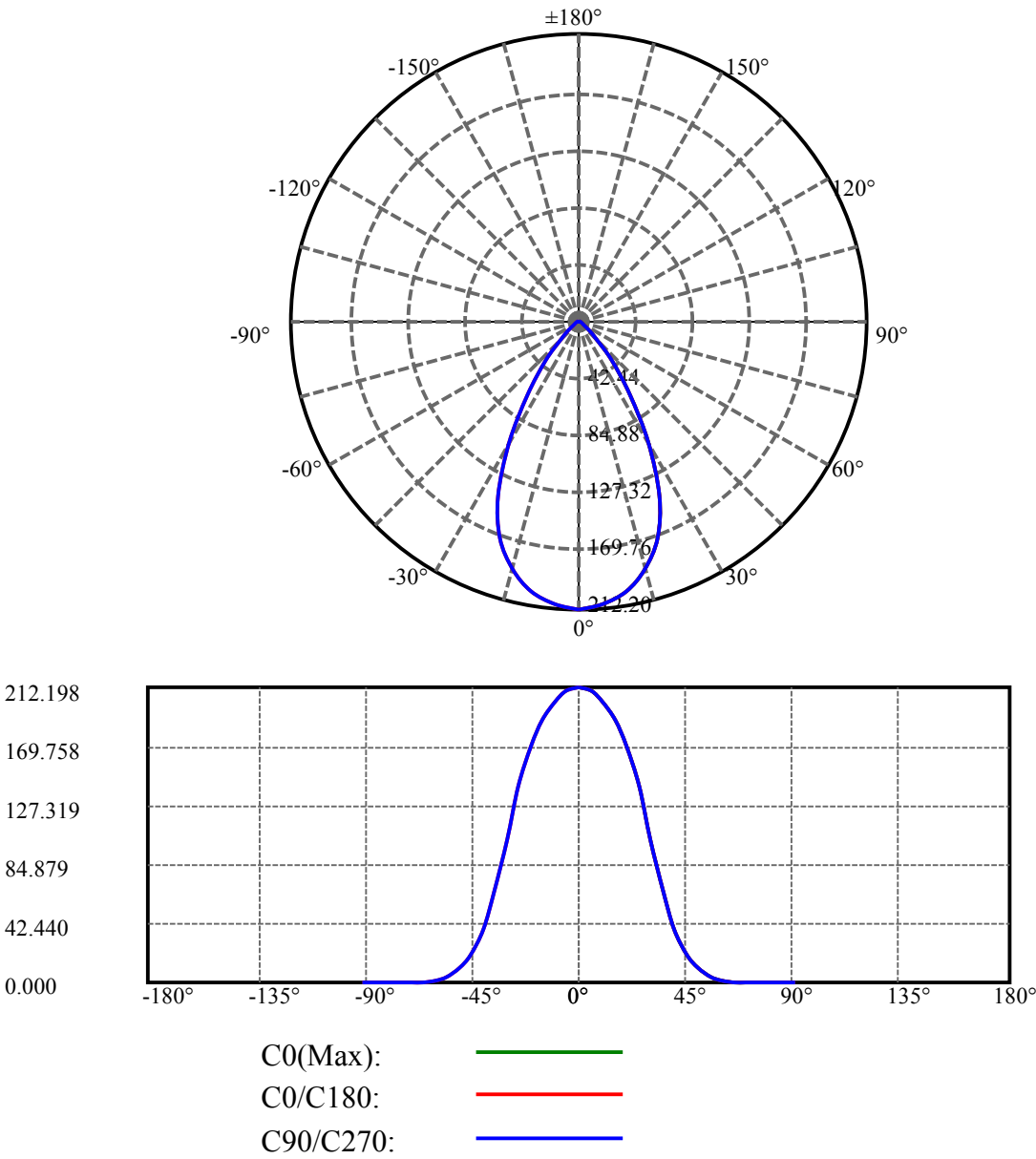
Beam angle of C0 plane : 59.11

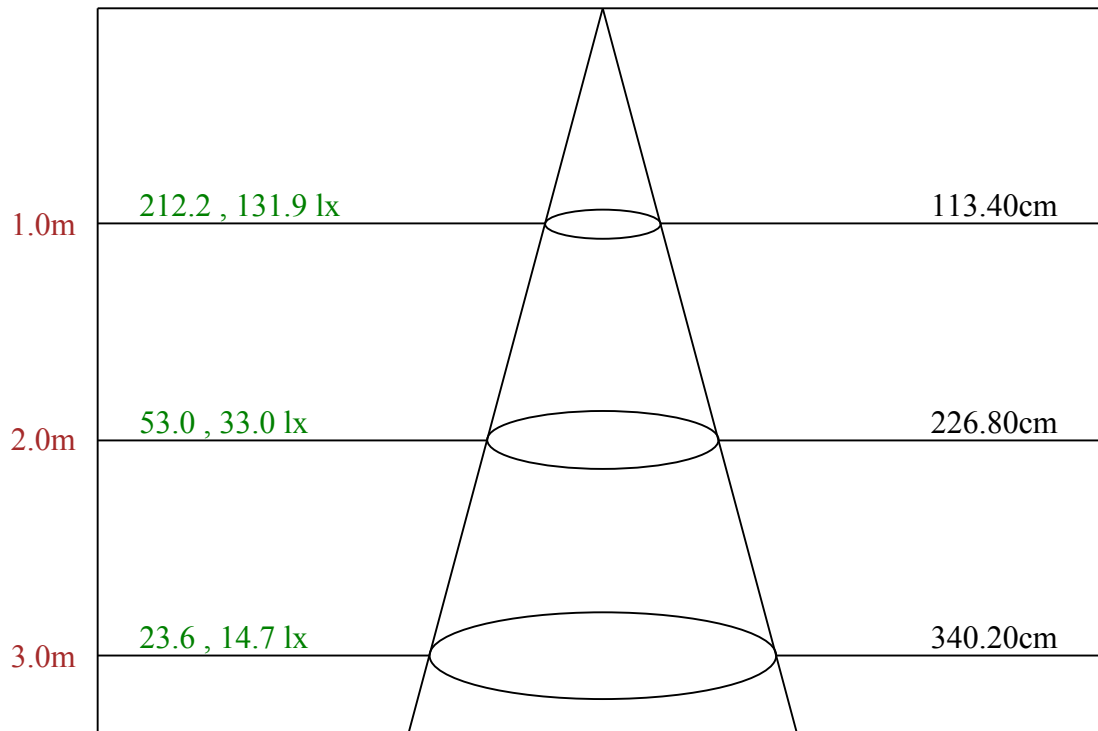
Average BeamAngle(IEC 61341): 59.11

Equipment: equipamento lumini
Temperature(°C): 25.0

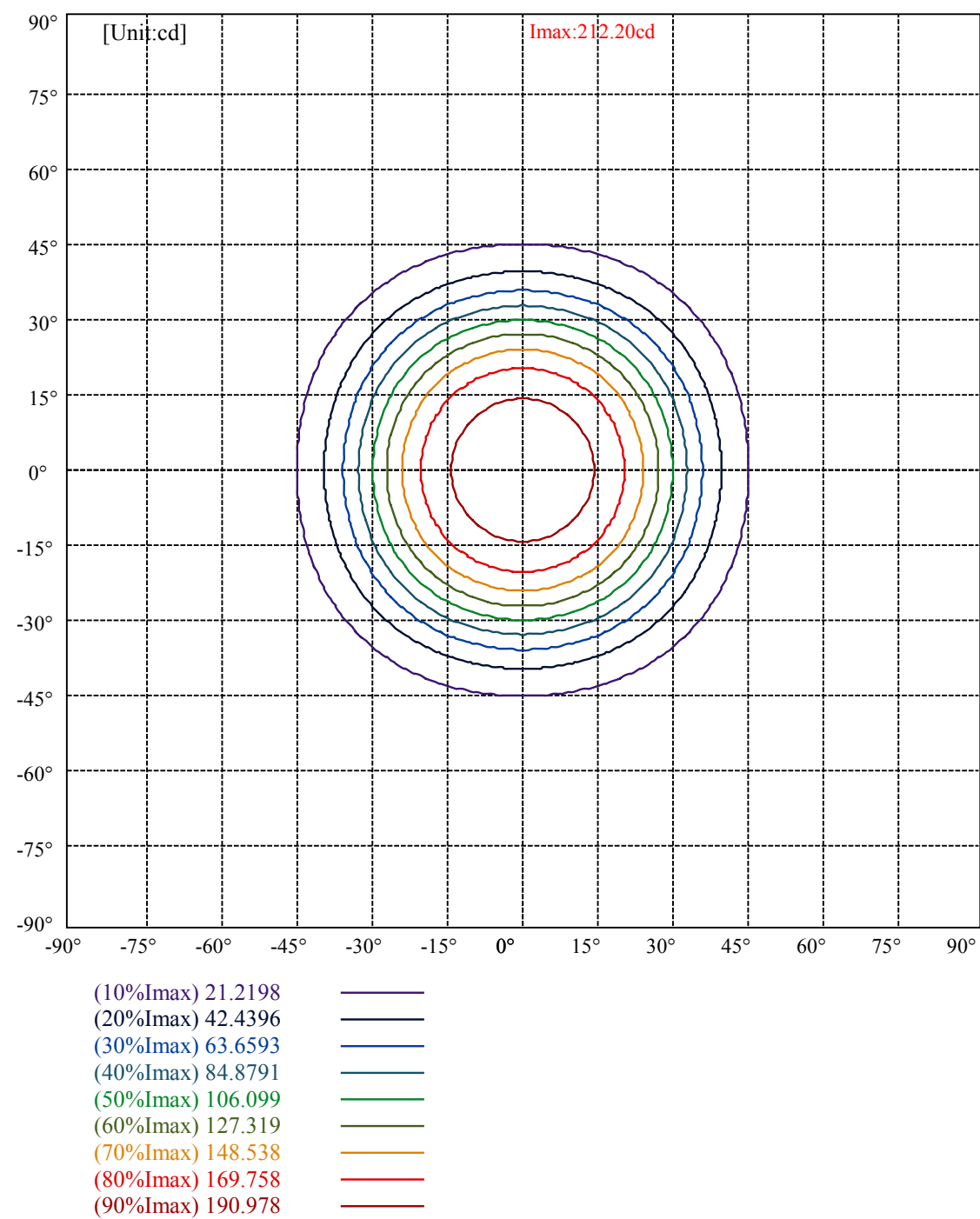
Date: 11/30/2023
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 59.11



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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	9095	5185	2449	893	452	500	623	918	1761
C45	9095	5185	2449	893	452	500	623	918	1761
C90	9095	5185	2449	893	452	500	623	918	1761

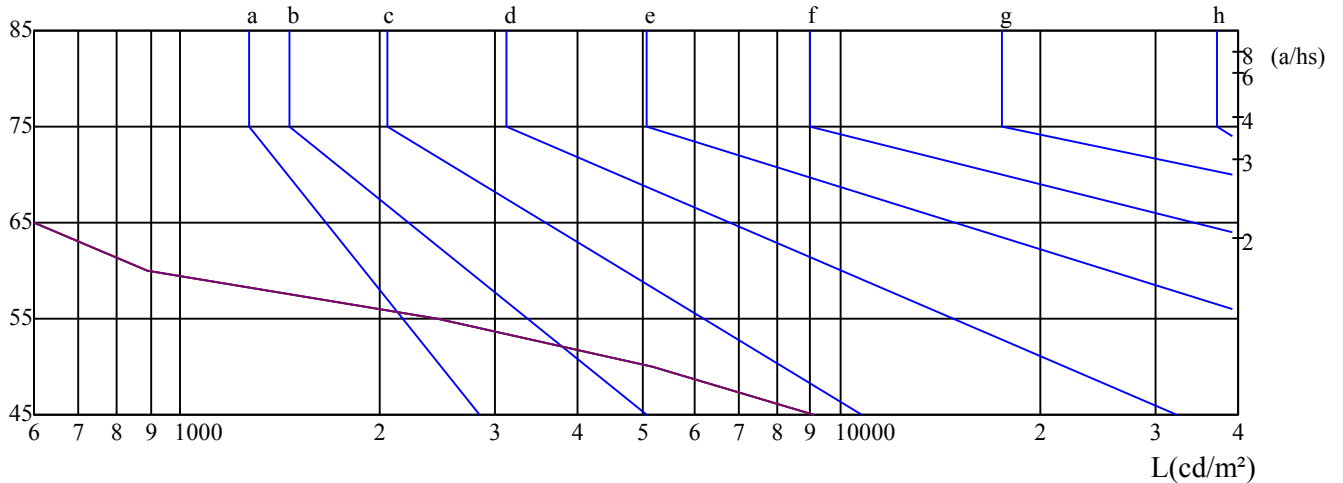
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
452	452	452	623	623	623	1761	1761	1761

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	16.72	17.75	17.08	18.06	18.38	18.05	19.08	18.41	19.39	19.71
	3H	16.53	17.45	16.92	17.79	18.13	17.86	18.77	18.24	19.11	19.46
	4H	16.45	17.29	16.85	17.65	18.01	17.76	18.61	18.16	18.96	19.33
	6H	16.38	17.15	16.80	17.53	17.93	17.69	18.47	18.11	18.84	19.24
	8H	16.33	17.07	16.75	17.45	17.86	17.63	18.37	18.05	18.76	19.16
	12H	16.29	16.99	16.71	17.38	17.80	17.58	18.28	18.01	18.68	19.10
4H	2H	16.47	17.31	16.87	17.67	18.04	17.78	18.62	18.18	18.98	19.35
	3H	16.25	16.96	16.68	17.35	17.77	17.56	18.26	17.98	18.65	19.07
	4H	16.20	16.81	16.64	17.23	17.68	17.49	18.10	17.93	18.52	18.97
	6H	16.10	16.63	16.57	17.09	17.54	17.38	17.92	17.85	18.37	18.82
	8H	16.08	16.57	16.56	17.03	17.50	17.35	17.84	17.83	18.30	18.77
	12H	16.08	16.54	16.57	16.99	17.51	17.34	17.80	17.83	18.25	18.77
8H	4H	16.01	16.51	16.50	16.97	17.44	17.30	17.80	17.79	18.26	18.73
	6H	15.92	16.32	16.42	16.80	17.31	17.19	17.60	17.69	18.07	18.59
	8H	15.96	16.30	16.49	16.83	17.32	17.21	17.56	17.74	18.08	18.58
	12H	16.01	16.28	16.55	16.80	17.32	17.23	17.50	17.77	18.02	18.54
12H	4H	15.96	16.42	16.45	16.87	17.39	17.25	17.71	17.74	18.16	18.68
	6H	15.91	16.26	16.44	16.78	17.28	17.18	17.52	17.71	18.05	18.54
	8H	15.93	16.20	16.47	16.72	17.24	17.17	17.44	17.71	17.96	18.48
Variation with the observer position at spacings:											
S = 1.0H		3.8/-7.7					3.8/-7.7				
S = 1.5H		6.4/-11.2					6.4/-11.2				
S = 2.0H		8.4/-10.3					8.4/-10.3				
Standard tables:		BK0					BK0				
Uncorrected UGR		-2.7					-2.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm r e tr fm

LampCAT: modulo led tr 5W 2700K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0390

Number of Lamps: 1

Power (W): 4.7000

Lamp flux(lm): 290.0

PF: 0.9300

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 199.90, Efficiency(%): 68.93% , Luminous Efficacy(lm/W): 42.53

Central intensity(cd): 678.704, Maximum intensity(cd): 678.704

Angle of maximum intensity: C=0.0 γ =0.0

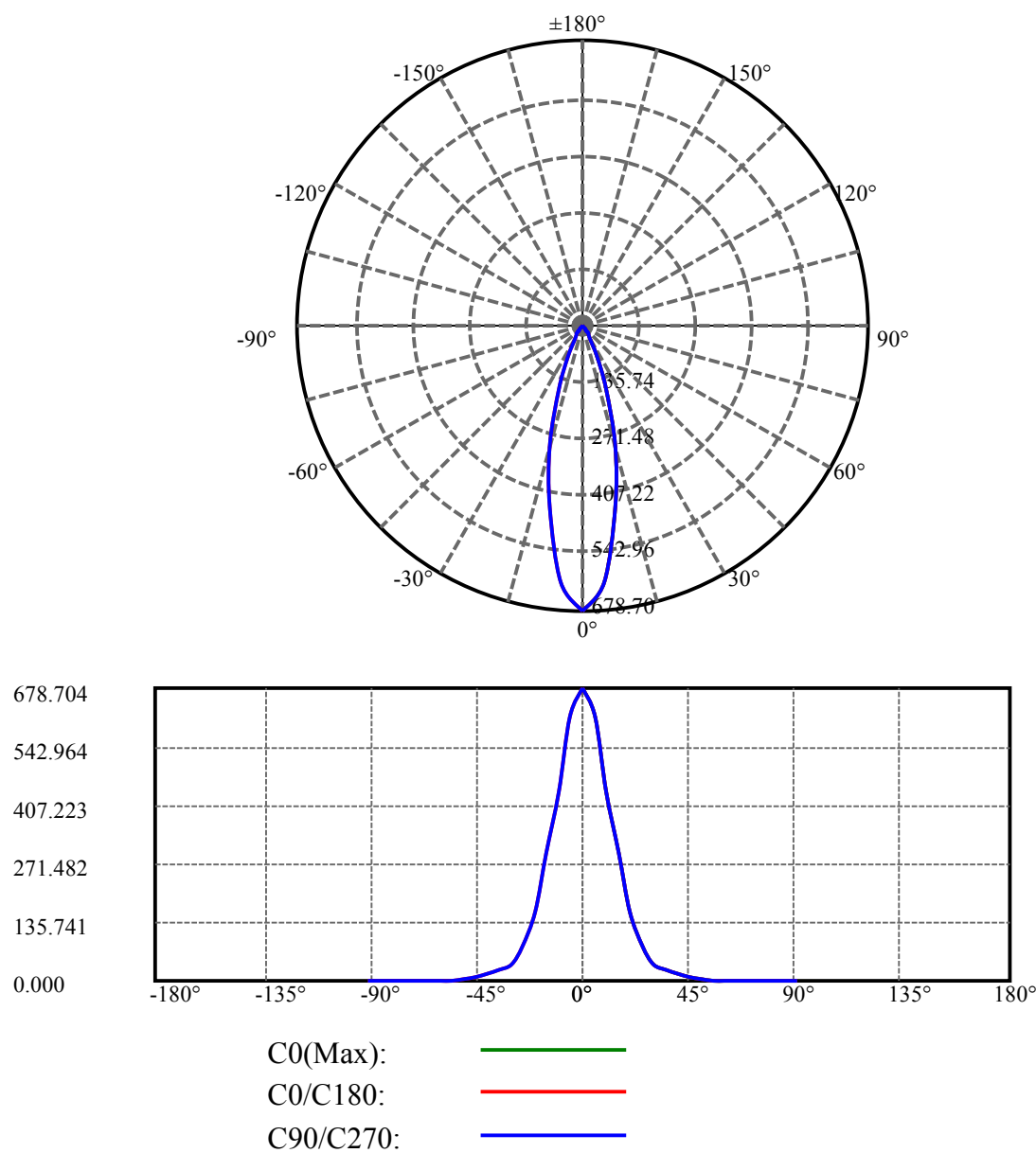
Beam angle of C0 plane : 26.91

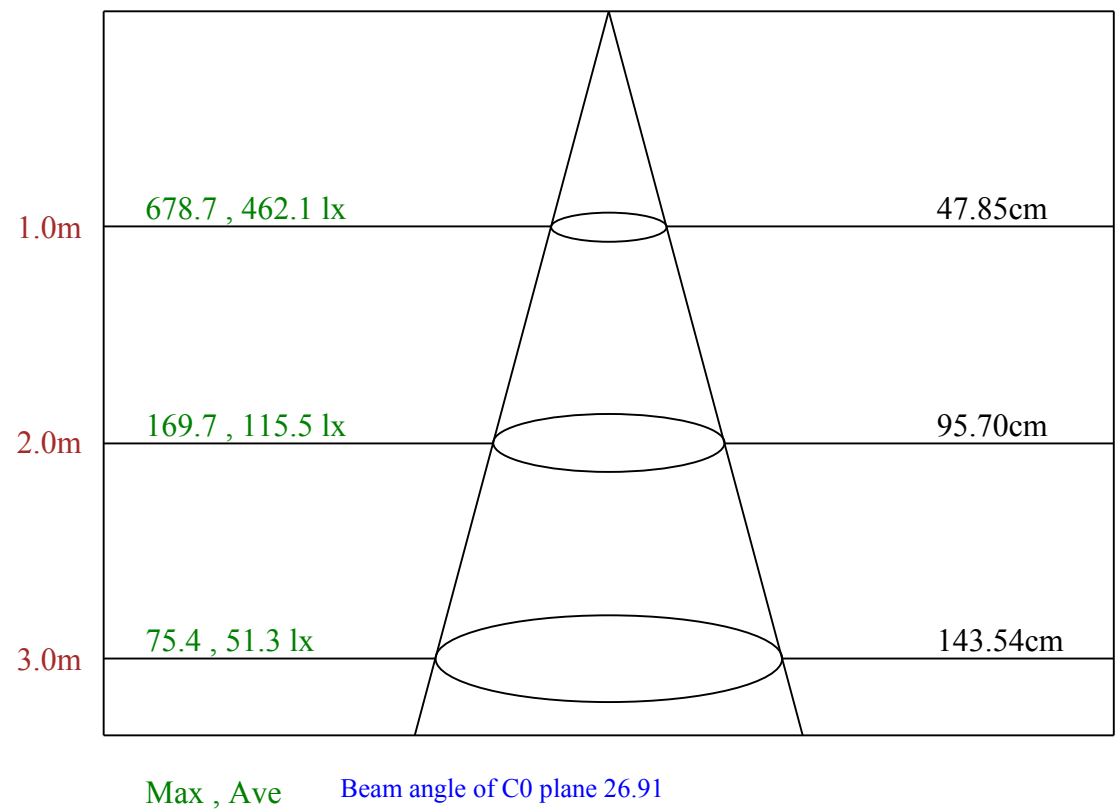
Aveage BeamAngle(IEC 61341):26.91

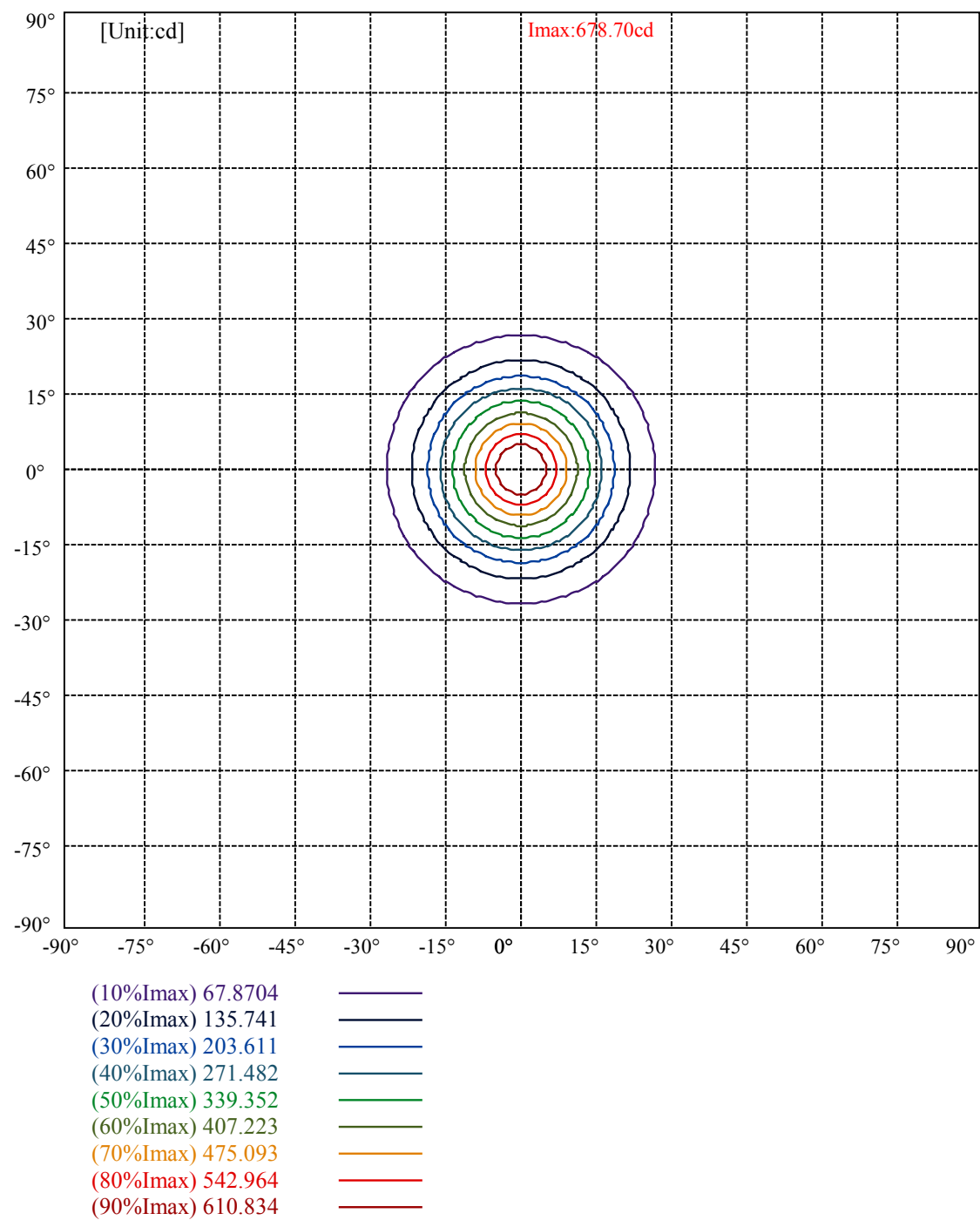
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 11/29/2023
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90







Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	4154	1907	1067	622	517	598	775	1008	1986
C45	4154	1907	1067	622	517	598	775	1008	1986
C90	4154	1907	1067	622	517	598	775	1008	1986

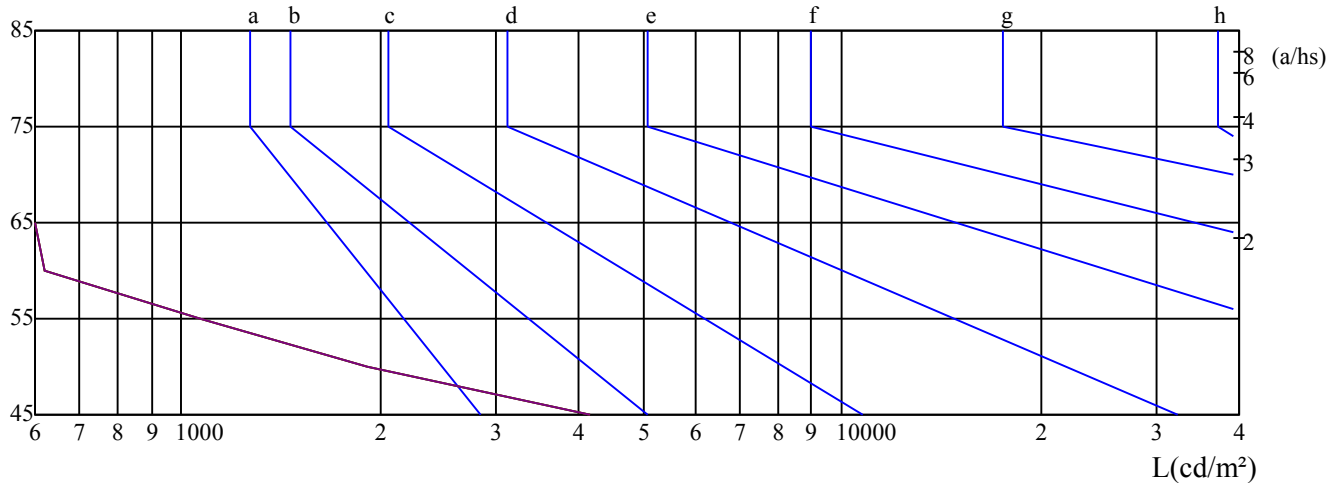
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
517	517	517	775	775	775	1986	1986	1986

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.0

Date: 11/29/2023
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	11.02	11.98	11.39	12.29	12.61	10.53	11.49	10.89	11.80	12.11
	3H	10.90	11.75	11.29	12.08	12.43	10.41	11.26	10.80	11.60	11.94
	4H	10.89	11.67	11.29	12.03	12.39	10.39	11.18	10.80	11.53	11.90
	6H	10.95	11.66	11.37	12.04	12.44	10.46	11.18	10.88	11.56	11.96
	8H	10.99	11.67	11.41	12.06	12.47	10.53	11.21	10.95	11.59	12.00
	12H	11.11	11.75	11.53	12.15	12.56	10.67	11.31	11.09	11.71	12.12
4H	2H	10.77	11.55	11.17	11.90	12.27	10.28	11.07	10.68	11.42	11.79
	3H	10.65	11.30	11.08	11.70	12.12	10.18	10.84	10.61	11.23	11.65
	4H	10.73	11.29	11.17	11.72	12.17	10.25	10.82	10.69	11.24	11.69
	6H	10.85	11.35	11.32	11.80	12.25	10.39	10.89	10.86	11.34	11.80
	8H	11.00	11.46	11.48	11.92	12.39	10.57	11.03	11.06	11.49	11.96
	12H	11.26	11.68	11.75	12.14	12.66	10.87	11.30	11.36	11.75	12.27
8H	4H	10.62	11.09	11.11	11.54	12.02	10.16	10.63	10.65	11.08	11.56
	6H	10.86	11.24	11.37	11.72	12.23	10.44	10.81	10.94	11.29	11.81
	8H	11.17	11.49	11.71	12.01	12.51	10.79	11.10	11.32	11.63	12.12
	12H	11.61	11.85	12.16	12.37	12.90	11.28	11.52	11.82	12.04	12.56
12H	4H	10.60	11.03	11.09	11.48	12.00	10.15	10.57	10.64	11.03	11.55
	6H	10.93	11.25	11.47	11.77	12.27	10.52	10.83	11.05	11.36	11.86
	8H	11.27	11.51	11.81	12.03	12.55	10.90	11.14	11.44	11.66	12.18
Variation with the observer position at spacings:											
S = 1.0H		2.9/-5.3					2.9/-5.3				
S = 1.5H		5.0/-5.0					5.0/-5.0				
S = 2.0H		6.5/-4.2					6.5/-4.2				
Standard tables:		BK2					BK2				
Uncorrected UGR		-7.8					-7.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm r e tr fa

LampCAT: modulo led tr 9W 2700K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0730

Number of Lamps: 1

Power (W): 8.3800

Lamp flux(lm): 525.0

PF: 0.9300

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 315.33, Efficiency(%): 60.06% , Luminous Efficacy(lm/W): 37.63

Central intensity(cd): 251.940, Maximum intensity(cd): 258.260

Angle of maximum intensity: $C=0.0$ $\gamma=10.0$

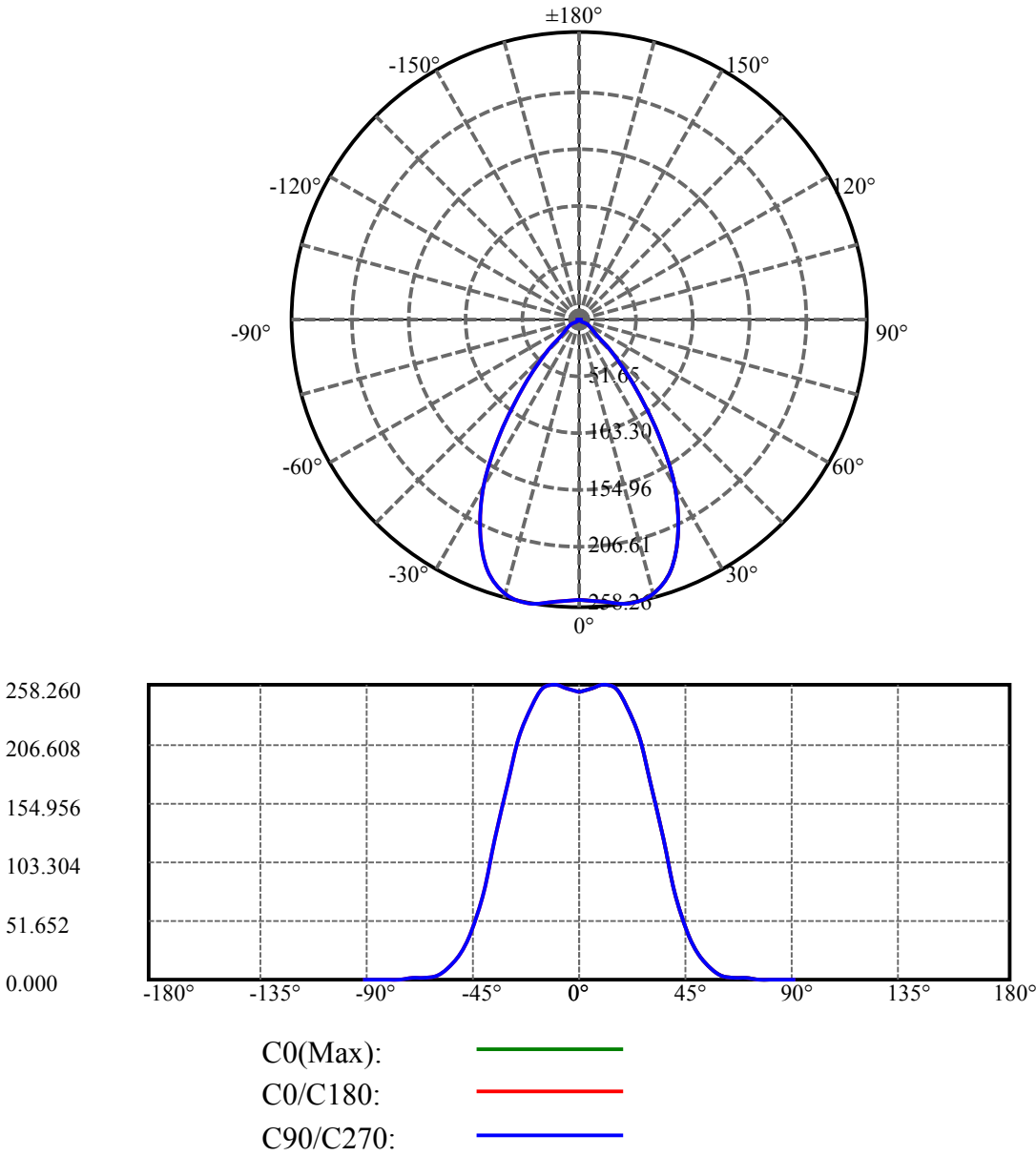
Beam angle of C0 plane : 69.29

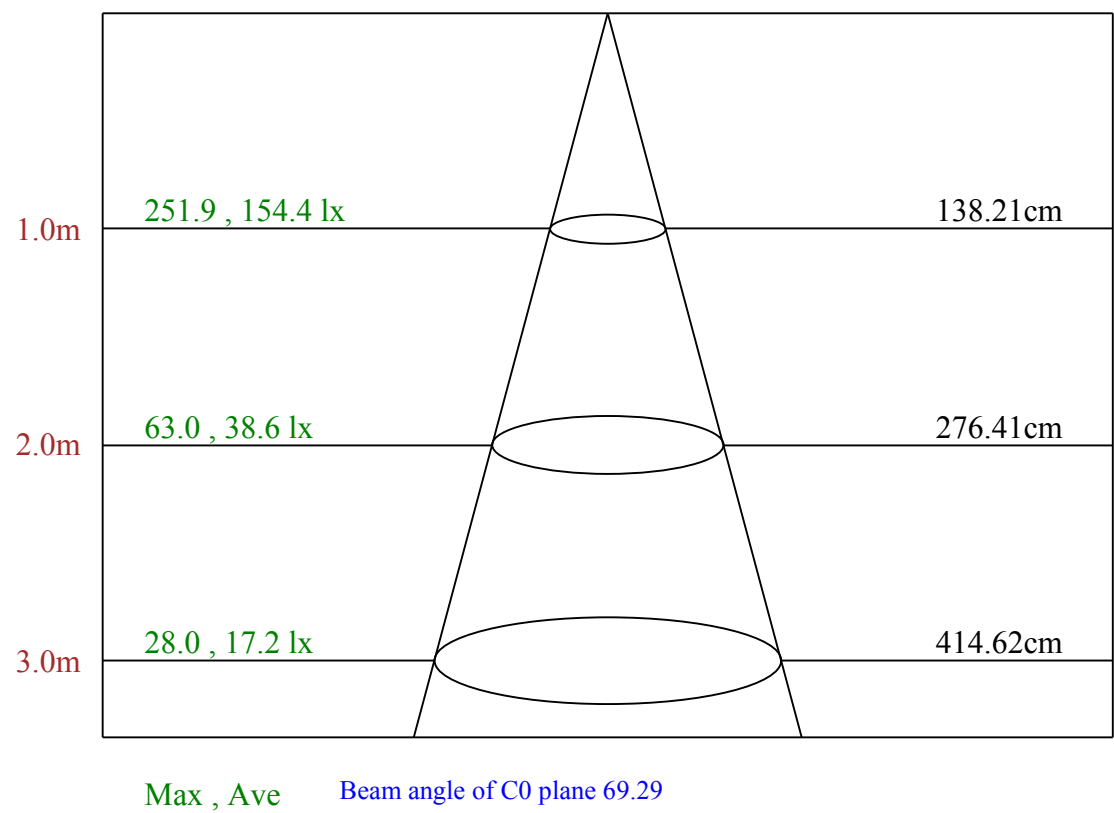
Aveage BeamAngle(IEC 61341): 69.29

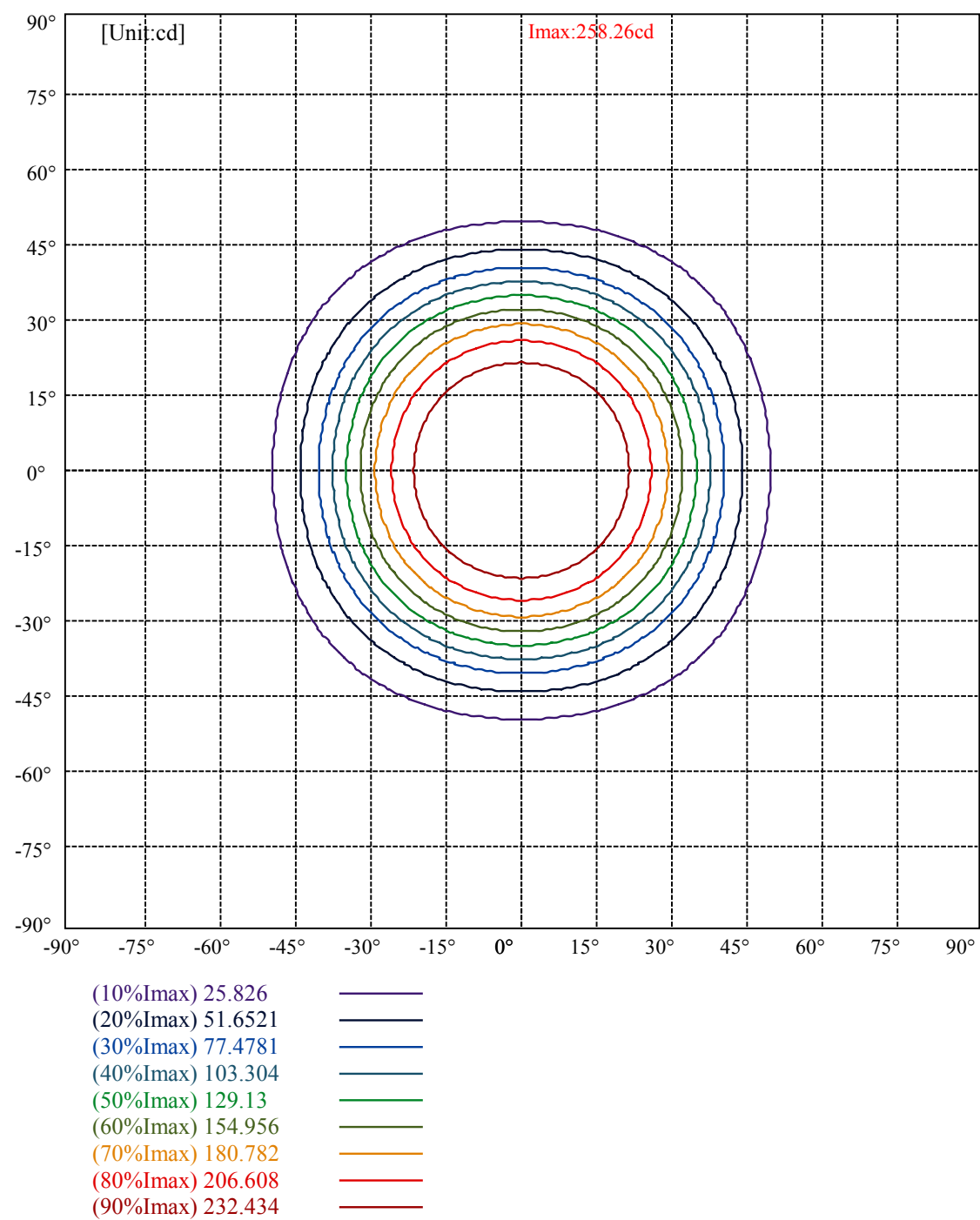
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 11/29/2023
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90







Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	19573	11251	5402	1739	763	817	958	1246	2370
C45	19573	11251	5402	1739	763	817	958	1246	2370
C90	19573	11251	5402	1739	763	817	958	1246	2370

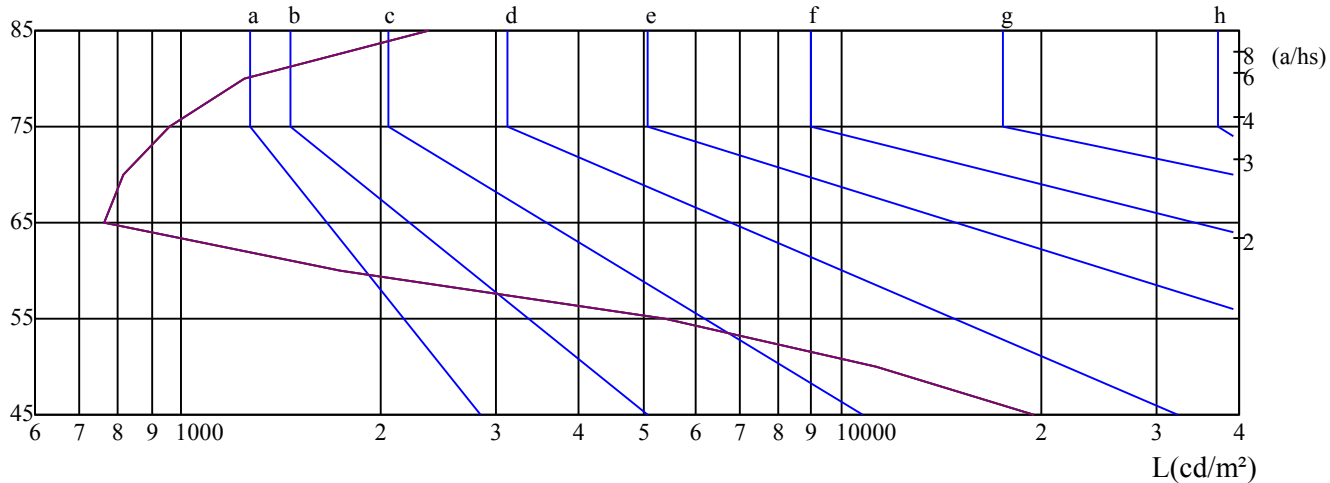
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
763	763	763	958	958	958	2370	2370	2370

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.0

Date: 11/29/2023
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	20.34	21.42	20.70	21.74	22.05	21.48	22.57	21.85	22.88	23.19
	3H	20.16	21.12	20.55	21.46	21.80	21.30	22.26	21.69	22.60	22.94
	4H	20.07	20.96	20.47	21.31	21.68	21.21	22.09	21.61	22.45	22.81
	6H	20.00	20.81	20.42	21.18	21.58	21.13	21.94	21.55	22.32	22.72
	8H	19.93	20.71	20.35	21.09	21.50	21.07	21.84	21.49	22.22	22.63
	12H	19.88	20.61	20.30	21.01	21.42	21.01	21.74	21.43	22.13	22.55
4H	2H	20.13	21.01	20.53	21.37	21.73	21.24	22.13	21.64	22.48	22.85
	3H	19.91	20.65	20.34	21.04	21.46	21.03	21.76	21.45	22.15	22.57
	4H	19.86	20.49	20.29	20.91	21.36	20.97	21.60	21.40	22.02	22.47
	6H	19.74	20.30	20.21	20.75	21.20	20.84	21.40	21.31	21.85	22.30
	8H	19.69	20.21	20.18	20.67	21.14	20.80	21.31	21.28	21.77	22.24
	12H	19.67	20.15	20.16	20.60	21.11	20.76	21.24	21.25	21.69	22.21
8H	4H	19.67	20.19	20.15	20.64	21.12	20.78	21.29	21.26	21.75	22.22
	6H	19.54	19.97	20.04	20.45	20.96	20.64	21.07	21.14	21.55	22.06
	8H	19.55	19.91	20.08	20.43	20.93	20.64	21.01	21.17	21.53	22.02
	12H	19.53	19.82	20.07	20.34	20.86	20.61	20.90	21.15	21.42	21.94
12H	4H	19.62	20.10	20.11	20.55	21.07	20.73	21.20	21.21	21.66	22.17
	6H	19.53	19.89	20.06	20.41	20.91	20.63	20.99	21.16	21.51	22.01
	8H	19.50	19.79	20.04	20.31	20.83	20.59	20.88	21.13	21.40	21.92
Variation with the observer position at spacings:											
S = 1.0H		3.1/-7.1					3.1/-7.1				
S = 1.5H		5.7/-12.5					5.7/-12.5				
S = 2.0H		7.8/-12.2					7.8/-12.2				
Standard tables:		BK0					BK0				
Uncorrected UGR		0.3					0.3				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: focus sm r e tr fm

LampCAT: modulo led tr 9W 2700K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0730

Number of Lamps: 1

Power (W): 8.3800

Lamp flux(lm): 525.0

PF: 0.9300

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 333.37, Efficiency(%): 63.50% , Luminous Efficacy(lm/W): 39.78

Central intensity(cd): 573.808, Maximum intensity(cd): 573.808

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

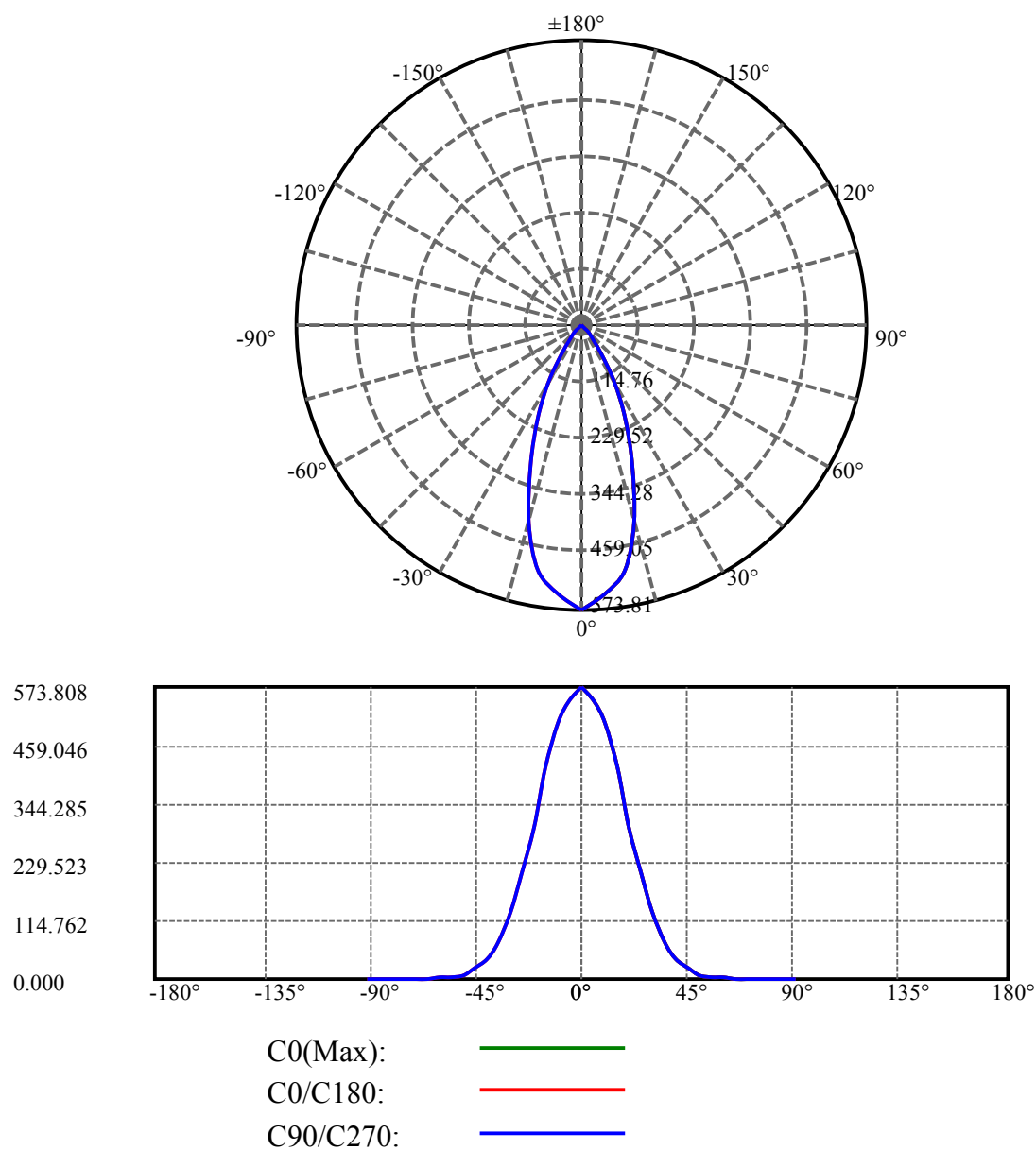
Beam angle of C0 plane : 41.40

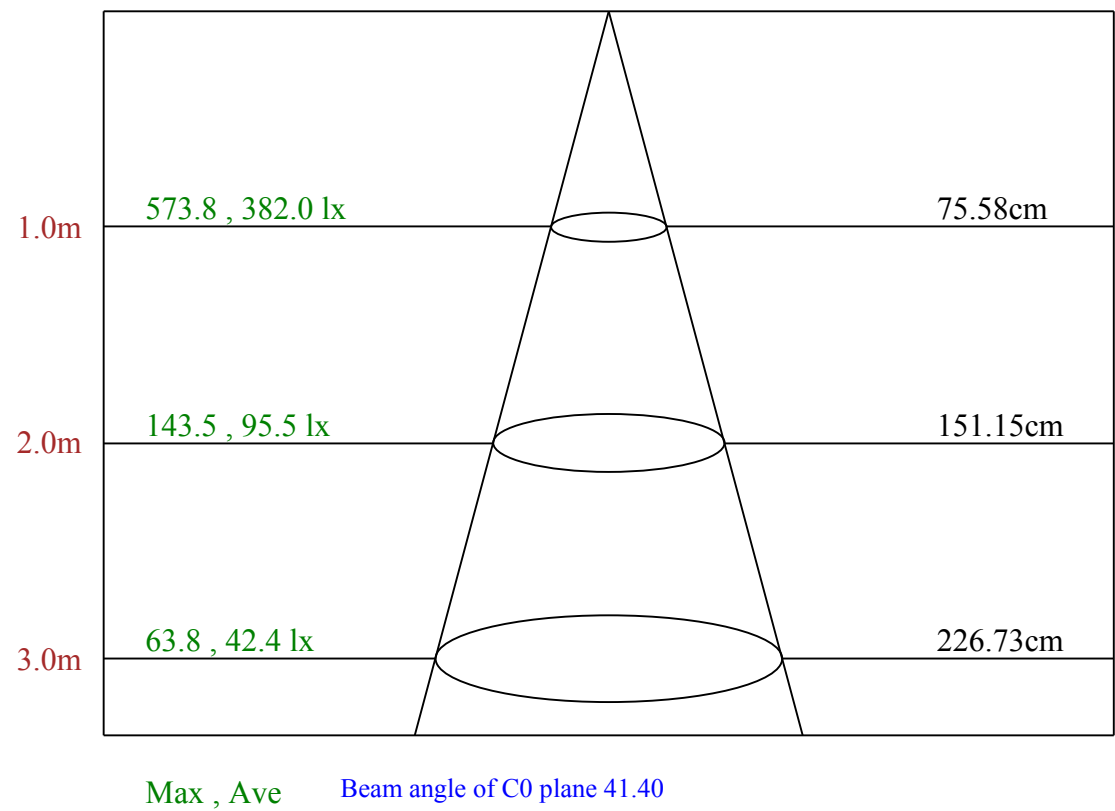
Average BeamAngle(IEC 61341): 41.40

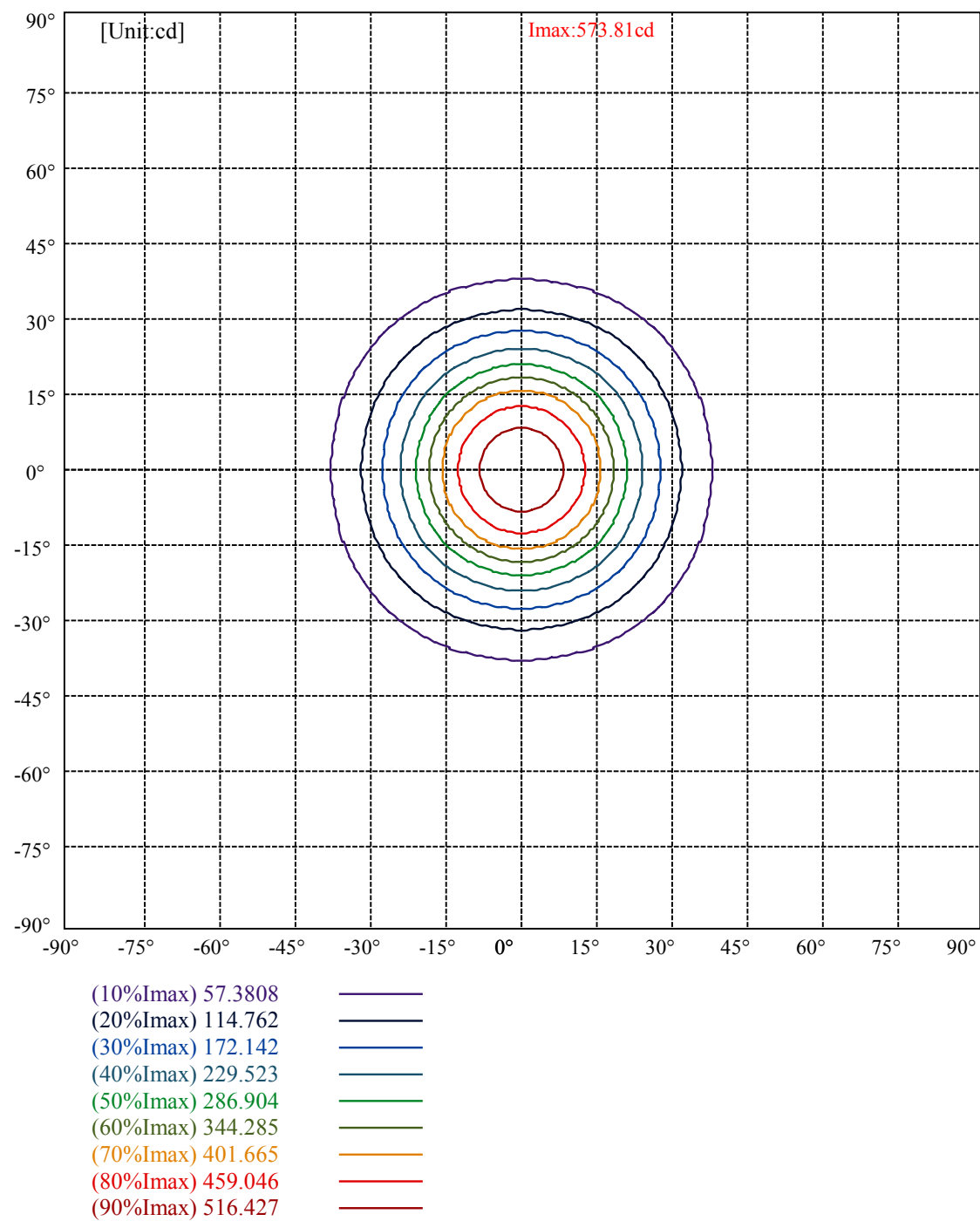
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 11/29/2023
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90







Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	9549	4563	2384	1232	871	909	1133	1631	2844
C45	9549	4563	2384	1232	871	909	1133	1631	2844
C90	9549	4563	2384	1232	871	909	1133	1631	2844

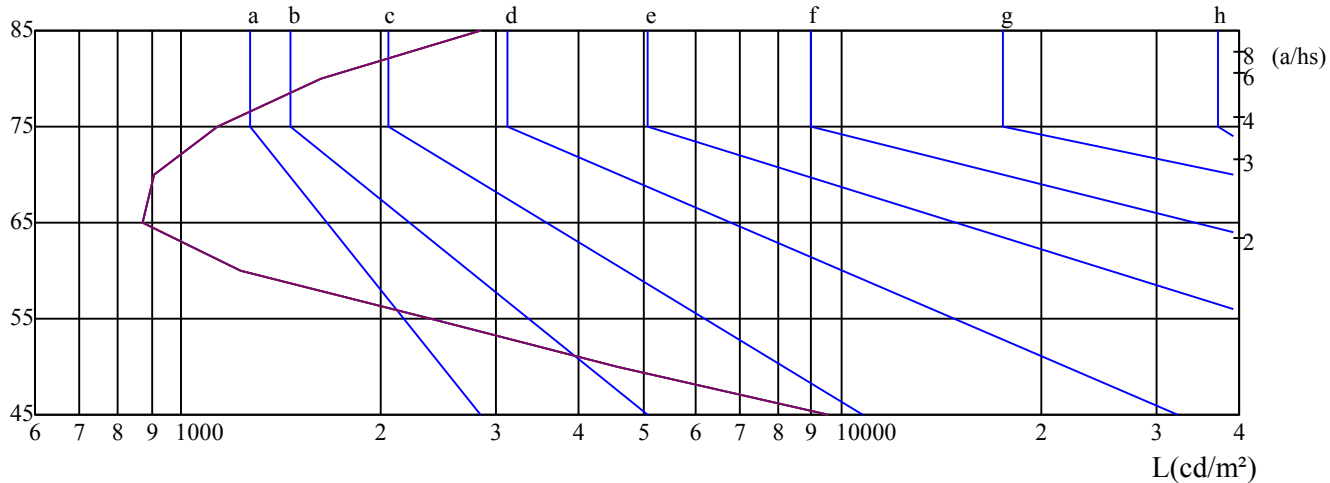
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
871	871	871	1133	1133	1133	2844	2844	2844

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.0

Date: 11/29/2023
Humidity(%): 55.0%

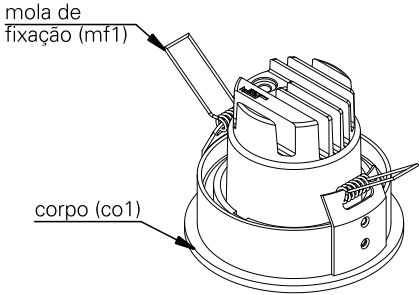
Operator: 01
Distance(m): 6.90

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	16.24	17.22	16.60	17.53	17.85	18.26	19.24	18.62	19.55	19.86
	3H	16.06	16.93	16.45	17.27	17.61	18.06	18.93	18.45	19.27	19.62
	4H	15.98	16.79	16.38	17.14	17.51	17.98	18.78	18.38	19.13	19.50
	6H	15.94	16.68	16.36	17.05	17.45	17.91	18.65	18.33	19.02	19.42
	8H	15.91	16.61	16.33	16.99	17.40	17.86	18.56	18.28	18.95	19.35
	12H	15.90	16.56	16.32	16.95	17.37	17.82	18.49	18.25	18.88	19.30
4H	2H	15.97	16.78	16.37	17.13	17.50	17.96	18.77	18.37	19.12	19.49
	3H	15.77	16.44	16.20	16.84	17.25	17.74	18.41	18.17	18.81	19.23
	4H	15.74	16.31	16.18	16.74	17.19	17.69	18.27	18.13	18.69	19.14
	6H	15.68	16.19	16.15	16.64	17.10	17.60	18.11	18.07	18.56	19.01
	8H	15.69	16.17	16.18	16.63	17.10	17.58	18.05	18.07	18.51	18.99
	12H	15.75	16.19	16.24	16.64	17.16	17.59	18.03	18.08	18.48	19.00
8H	4H	15.56	16.03	16.05	16.49	16.97	17.50	17.98	17.99	18.43	18.91
	6H	15.54	15.92	16.04	16.40	16.91	17.42	17.81	17.93	18.29	18.80
	8H	15.64	15.96	16.17	16.49	16.98	17.47	17.80	18.01	18.32	18.82
	12H	15.77	16.02	16.31	16.53	17.06	17.53	17.78	18.07	18.29	18.82
12H	4H	15.52	15.95	16.01	16.41	16.93	17.46	17.89	17.95	18.34	18.86
	6H	15.55	15.87	16.08	16.39	16.89	17.42	17.74	17.95	18.27	18.76
	8H	15.63	15.88	16.18	16.40	16.92	17.45	17.70	17.99	18.22	18.74
Variation with the observer position at spacings:											
S = 1.0H		4.3/-7.7					4.3/-7.7				
S = 1.5H		6.8/-8.3					6.8/-8.3				
S = 2.0H		8.6/-7.4					8.6/-7.4				
Standard tables:		BK1					BK1				
Uncorrected UGR		-3.3					-3.3				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

focus

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



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

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

cuidados com o produto
o produto deve ser manuseado com cuidado para evitar riscos e deformações.

para limpeza, utilize detergente neutro e um pano de algodão macio. finalize com um pano de algodão seco.

instalação

conteúdo da embalagem
1 luminária

ferramentas necessárias
serra

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

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

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

atenção

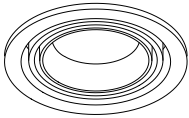
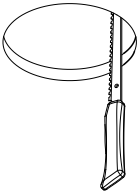
leia atentamente todas as instruções relacionadas ao seu produto antes de utilizá-lo.

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

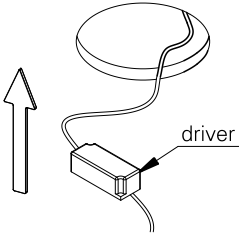
não são permitidas modificações no produto, esse deve atender à finalidade para a qual foi projetado e ser utilizado de acordo com as especificações técnicas.

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

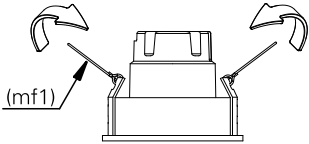
1. faça um nicho no forro conforme o modelo do produto na tabela.



2. aloje o driver sobre o forro. faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda. obs: drivers não se aplicam para as versões tr.



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



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

