



spectra mini frame flex

linha de luminárias embutidas circulares, ideal para forros. disponível com moldura discreta (mini frame) ou sem moldura (no frame), garantindo integração limpa e contemporânea à arquitetura. com opções de fecho fixo ou orientável, a linha oferece múltiplos tamanhos e potências com estética unificada, permitindo uma identidade visual coesa em todo o projeto. o conjunto óptico e a moldura em alumínio pintado proporcionam excelente controle de ofuscamento e conforto visual. a fixação é prática e segura: por molas em aço inox (mini frame) ou aro de fixação (no frame), garantindo aderência perfeita ao forro e acabamento refinado. ideal para projetos que valorizam estética e funcionalidade na iluminação.

informações técnicas

fonte de luz
LED integrado

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

vida útil
50.000h

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

W		K	lm nominal	lm útil
6	concentrado	2700		
6	médio	2700		
6	aberto	2700		
6	concentrado	3000	654	478
6	médio	3000	654	509
6	aberto	3000	654	528
6	concentrado	4000		
6	médio	4000		
6	aberto	4000		
12	concentrado	2700		
12	médio	2700		
12	aberto	2700		
12	concentrado	3000	1185	840
12	médio	3000	1185	902
12	aberto	3000	1185	939
12	concentrado	4000		
12	médio	4000		
12	aberto	4000		
18	concentrado	2700		
18	médio	2700		
18	aberto	2700		
18	concentrado	3000	1585	1130
18	médio	3000	1585	1192
18	aberto	3000	1585	1243
18	concentrado	4000		
18	médio	4000		
18	aberto	4000		

equipamentos

LED driver 180mA (ponto remoto)

LED driver 350mA (ponto remoto)

LED driver 500mA (ponto remoto)

controle

on/off

dim fphase

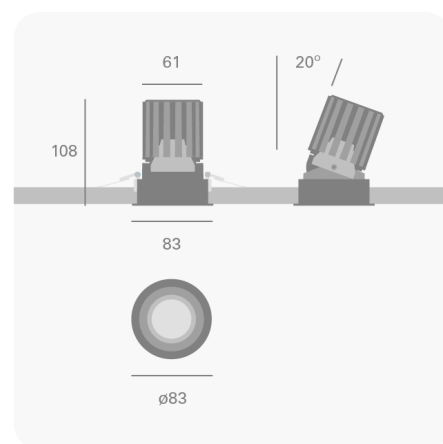
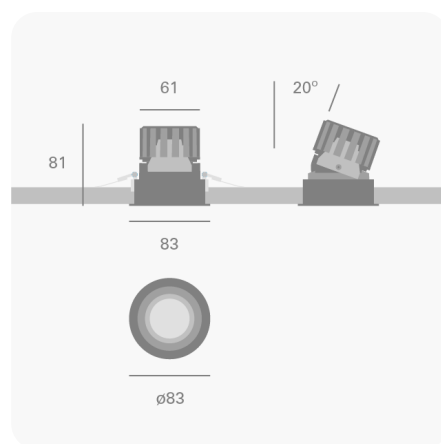
instalação

forro de gesso

marcenaria

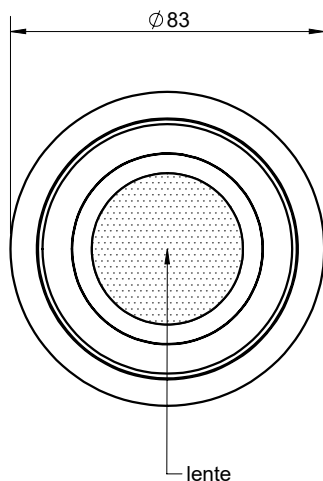
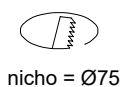
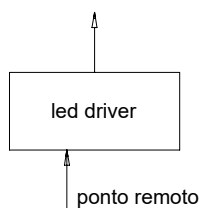
IP

20

dimensões

acabamentos e cores
cores


vista inferior

dimensões em milímetros



spectra flex mini frame 6w/12w

folha
1/1

escala
1:2

data
22/07/2025

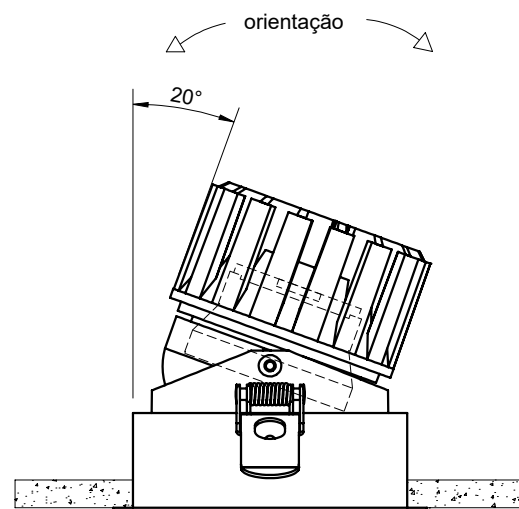
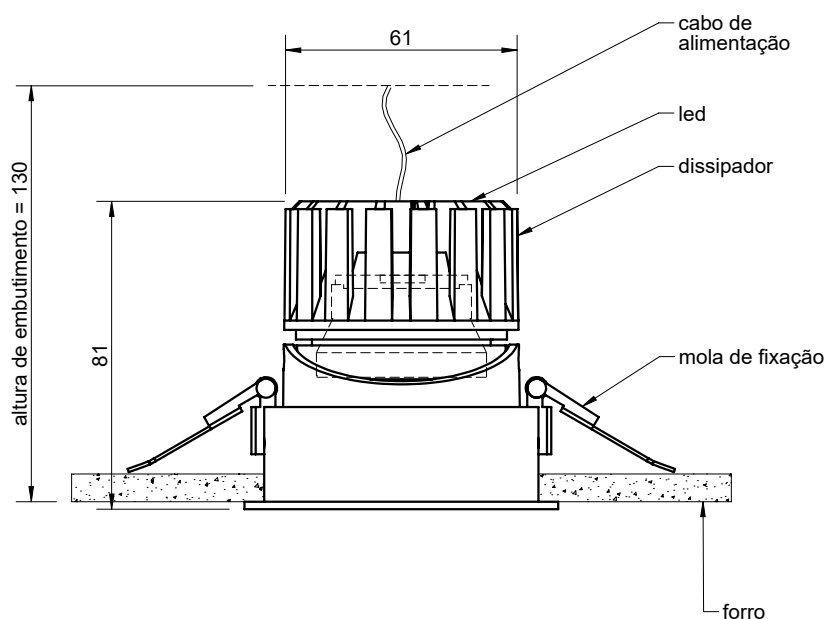
desenhista
joão v.

aprovação
ronaldo

revisões
22/07/2025

vista lateral

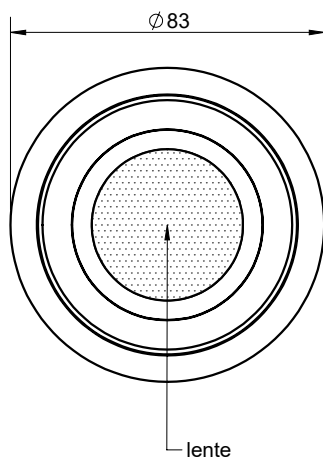
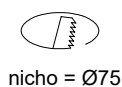
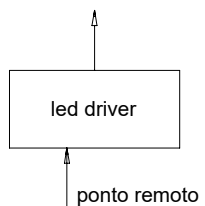
dimensões em milímetros



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vista inferior

dimensões em milímetros



spectra flex mini frame 18w

folha
1/1

escala
1:2

data
01/07/2025

desenhista
joão v.

aprovação
ronaldo

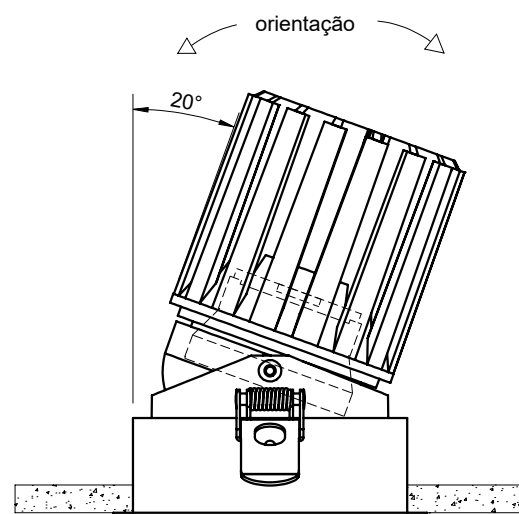
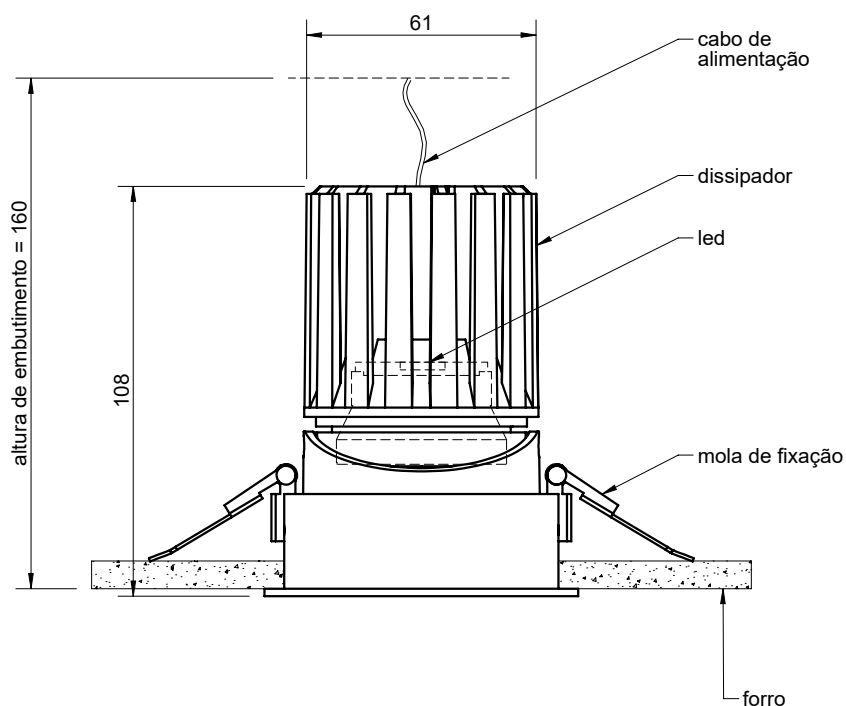
revisões

01/07/2025

vista lateral

dimensões em milímetros

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LumCAT:

Luminaire: spectra flex mini frame fc

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.8400

Test No:

Current(A): 0.0650

Number of Lamps: 1

Power (W): 8.2090

Lamp flux(lm): 654.0

PF: 0.9870

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 478.28, Efficiency(%): 73.13% , Luminous Efficacy(lm/W): 58.26

Central intensity(cd): 4752.966, Maximum intensity(cd): 4752.966

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

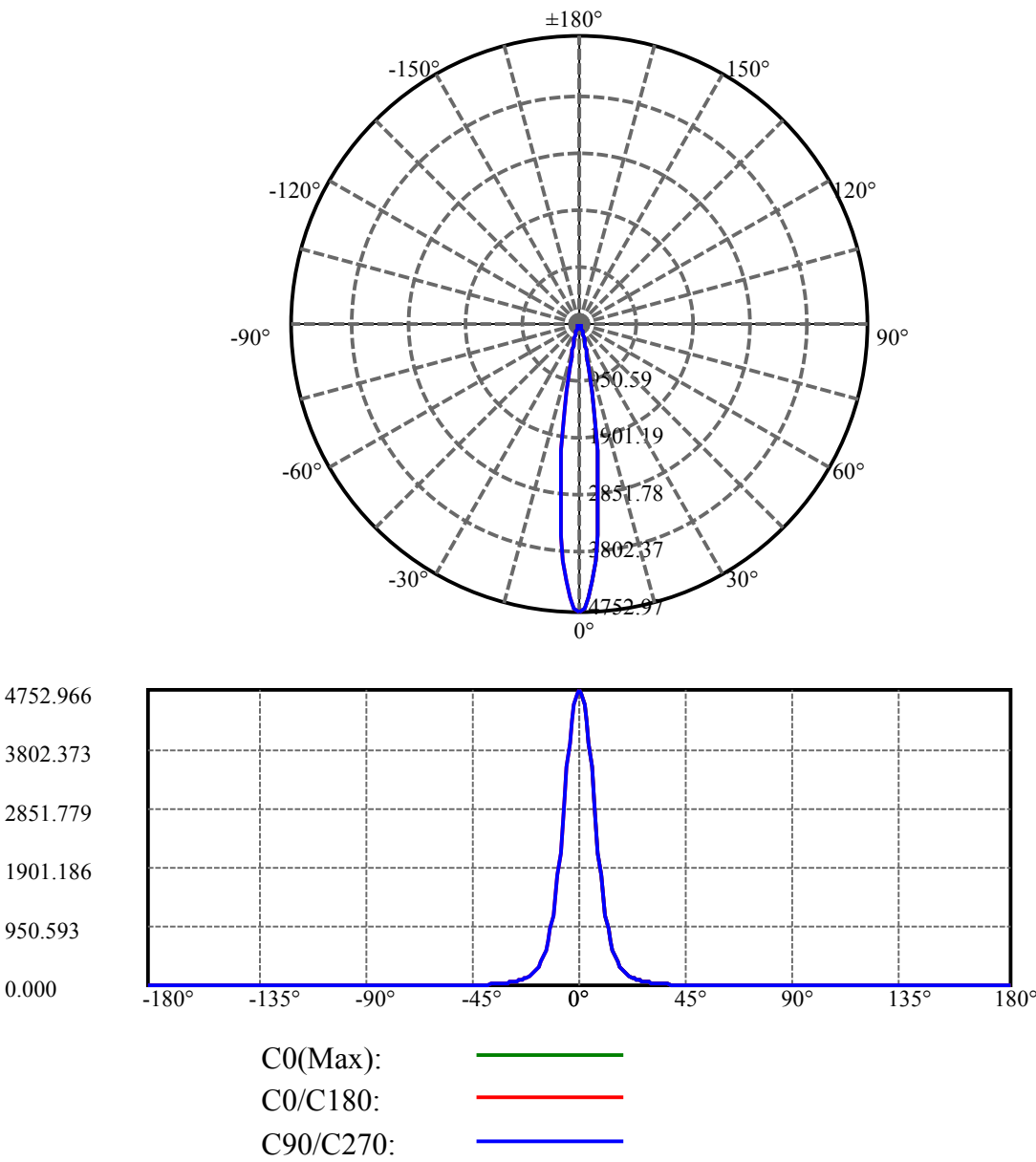
Beam angle of C0 plane : 14.81

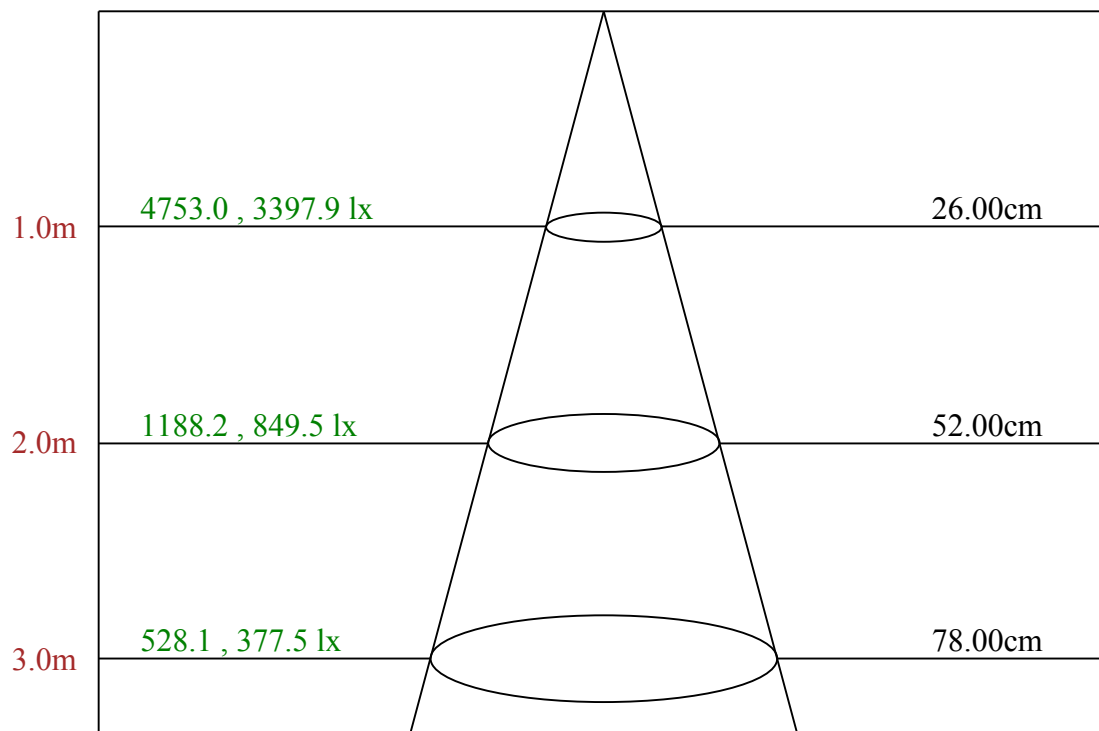
Average BeamAngle(IEC 61341): 14.81

Equipment: equipamento lumini
Temperature(°C): 25.0

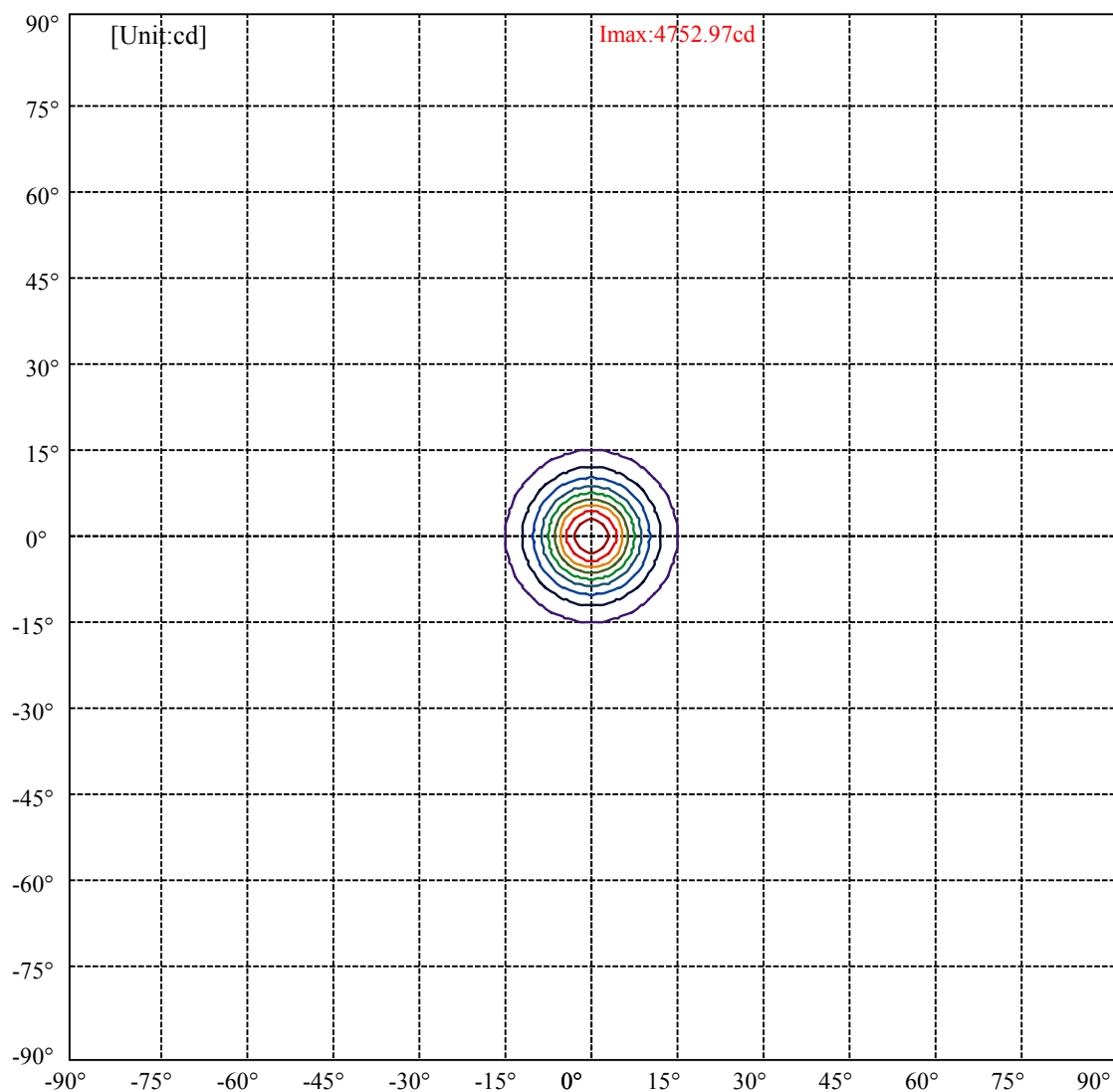
Date: 25/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 14.81



(10%Imax) 475.297	—————
(20%Imax) 950.593	—————
(30%Imax) 1425.89	—————
(40%Imax) 1901.19	—————
(50%Imax) 2376.48	—————
(60%Imax) 2851.78	—————
(70%Imax) 3327.08	—————
(80%Imax) 3802.37	—————
(90%Imax) 4277.67	—————

Luminance Table

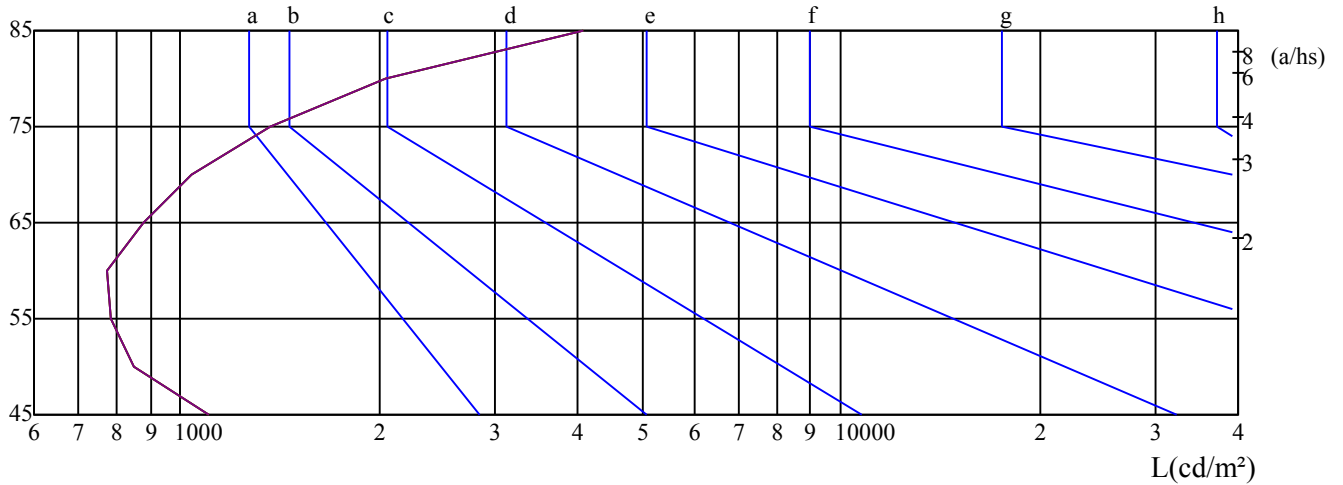
γ	45	50	55	60	65	70	75	80	85
C0	1104	848	783	775	880	1038	1371	2044	4073
C45	1104	848	783	775	880	1038	1371	2044	4073
C90	1104	848	783	775	880	1038	1371	2044	4073

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
880	880	880	1371	1371	1371	4073	4073	4073

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 ———



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LumCAT:

Luminaire: spectra flex mini frame fm

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.8400

Test No:

Current(A): 0.0650

Number of Lamps: 1

Power (W): 8.2050

Lamp flux(lm): 654.0

PF: 0.9870

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 509.02, Efficiency(%): 77.83% , Luminous Efficacy(lm/W): 62.04

Central intensity(cd): 3632.536, Maximum intensity(cd): 3632.536

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

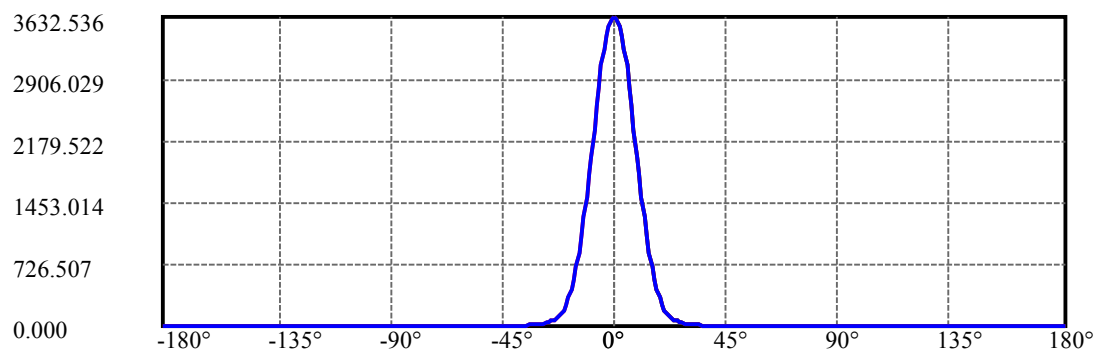
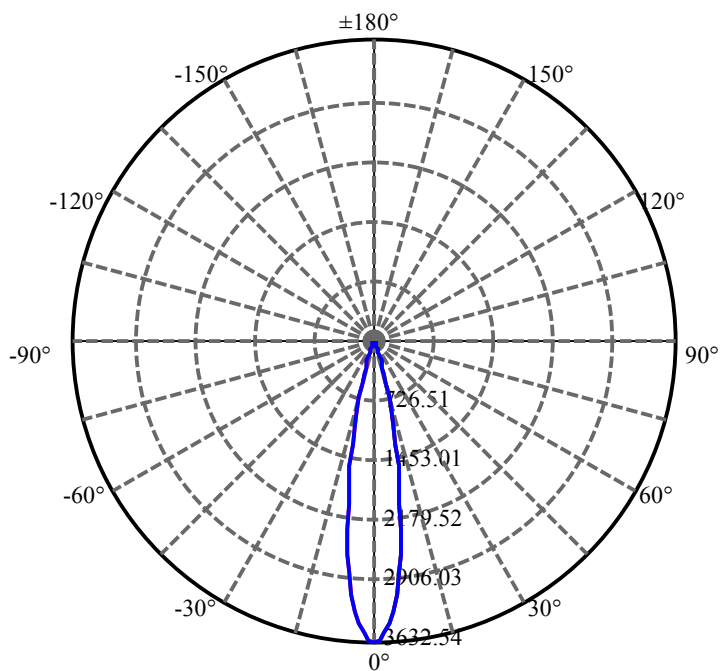
Beam angle of C0 plane : 19.58

Average BeamAngle(IEC 61341): 19.58

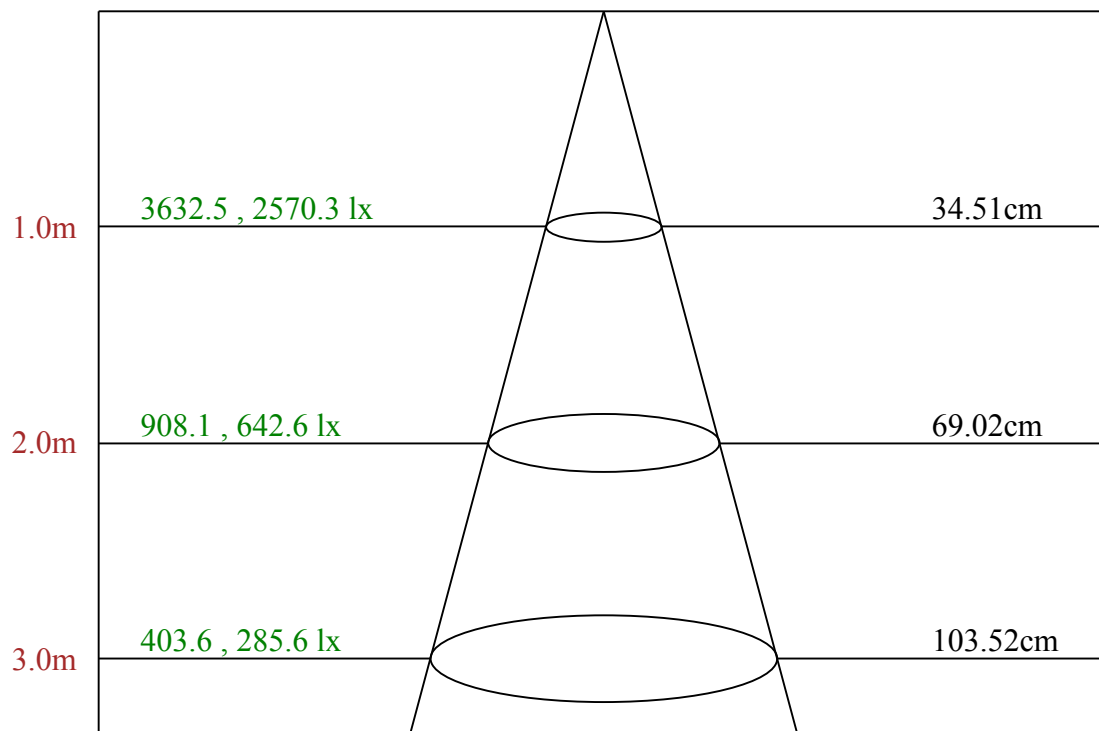
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/06/2025
Humidity(%): 58.0%

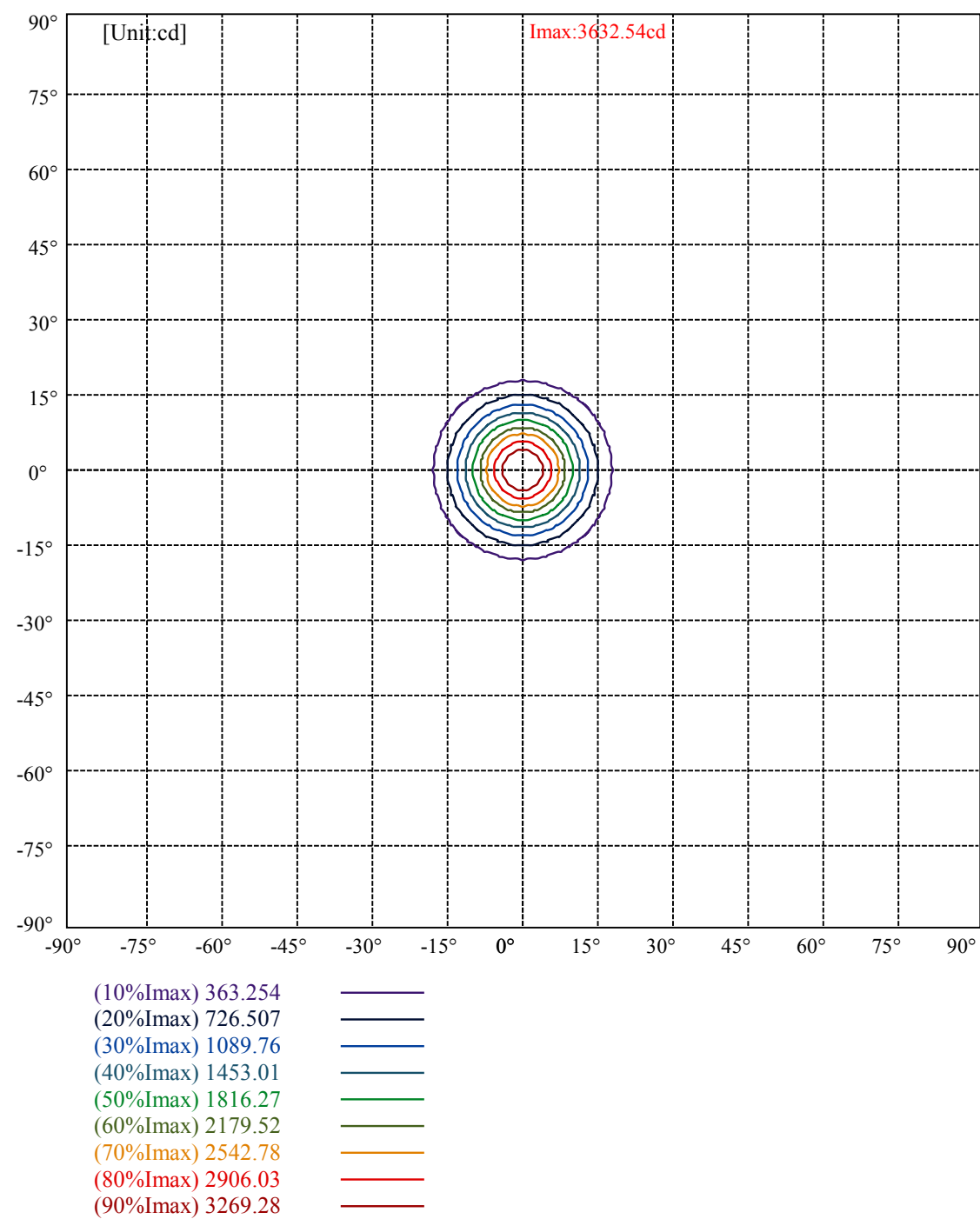
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 19.58



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	1102	905	869	865	993	1194	1589	2377	4719
C45	1102	905	869	865	993	1194	1589	2377	4719
C90	1102	905	869	865	993	1194	1589	2377	4719

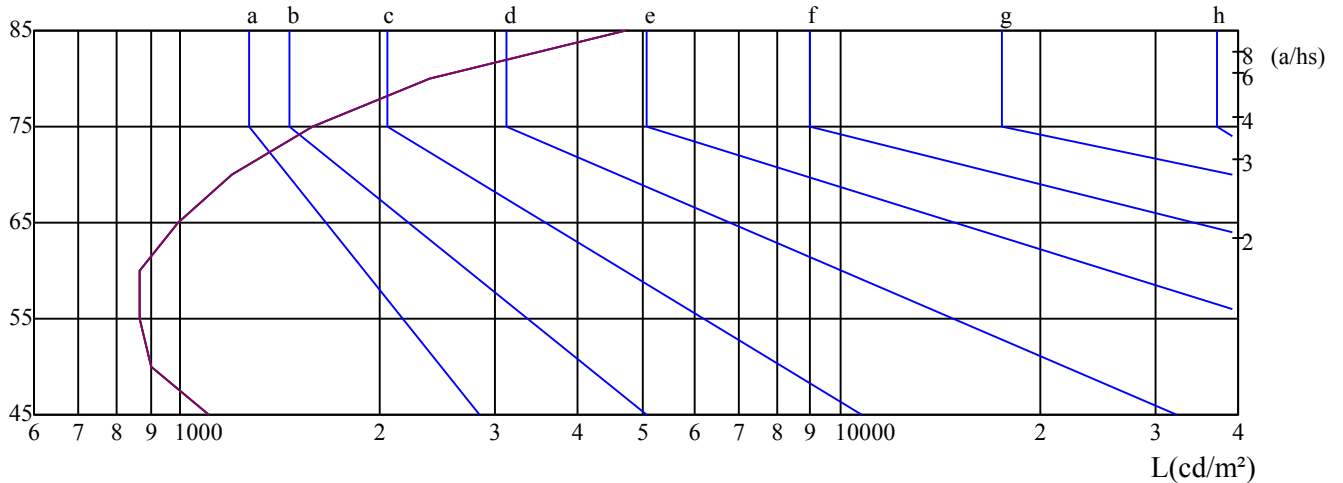
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
993	993	993	1589	1589	1589	4719	4719	4719

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: 25/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: spectra flex mini frame fa

LampCAT: modulo led 6W 30K irc 90

Ballast type: led driver 180mA

Report No:

Voltage(V): 127.8400

Test No:

Current(A): 0.0650

Number of Lamps: 1

Power (W): 8.2110

Lamp flux(lm): 654.0

PF: 0.9870

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 527.51, Efficiency(%): 80.66% , Luminous Efficacy(lm/W): 64.24

Central intensity(cd): 1544.337, Maximum intensity(cd): 1545.248

Angle of maximum intensity: $C=0.0$ $\gamma=2.0$

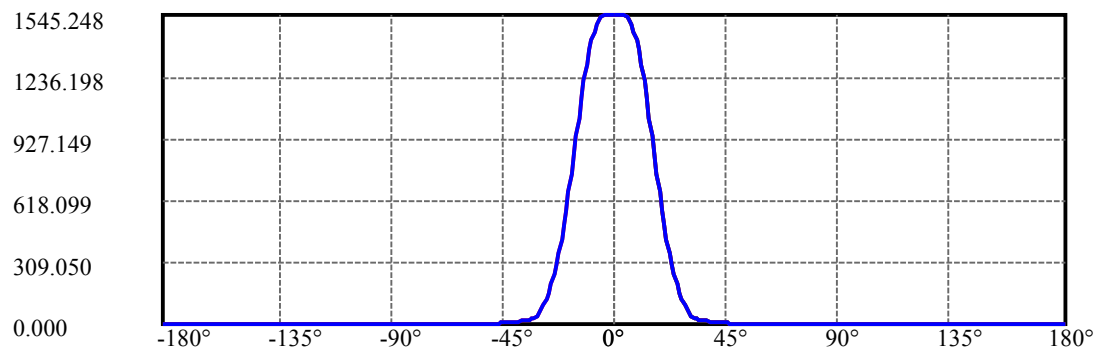
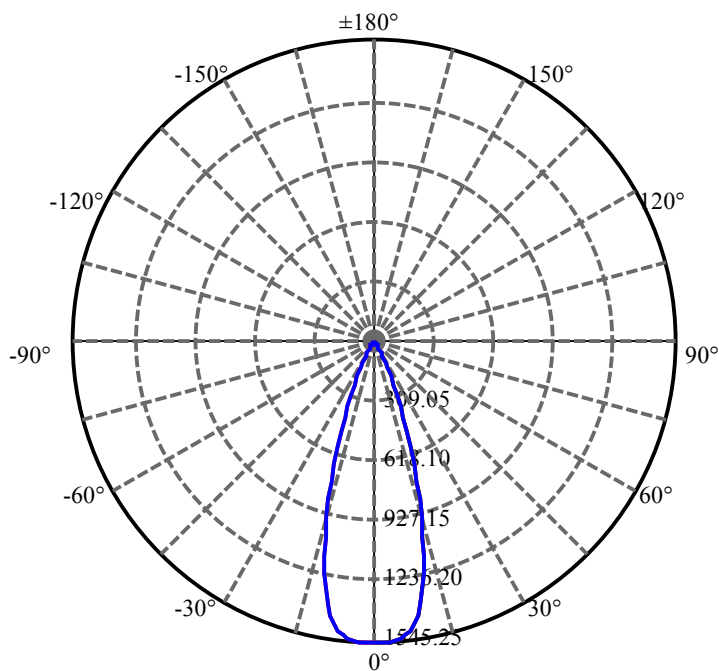
Beam angle of C0 plane : 33.52

Average BeamAngle(IEC 61341): 33.52

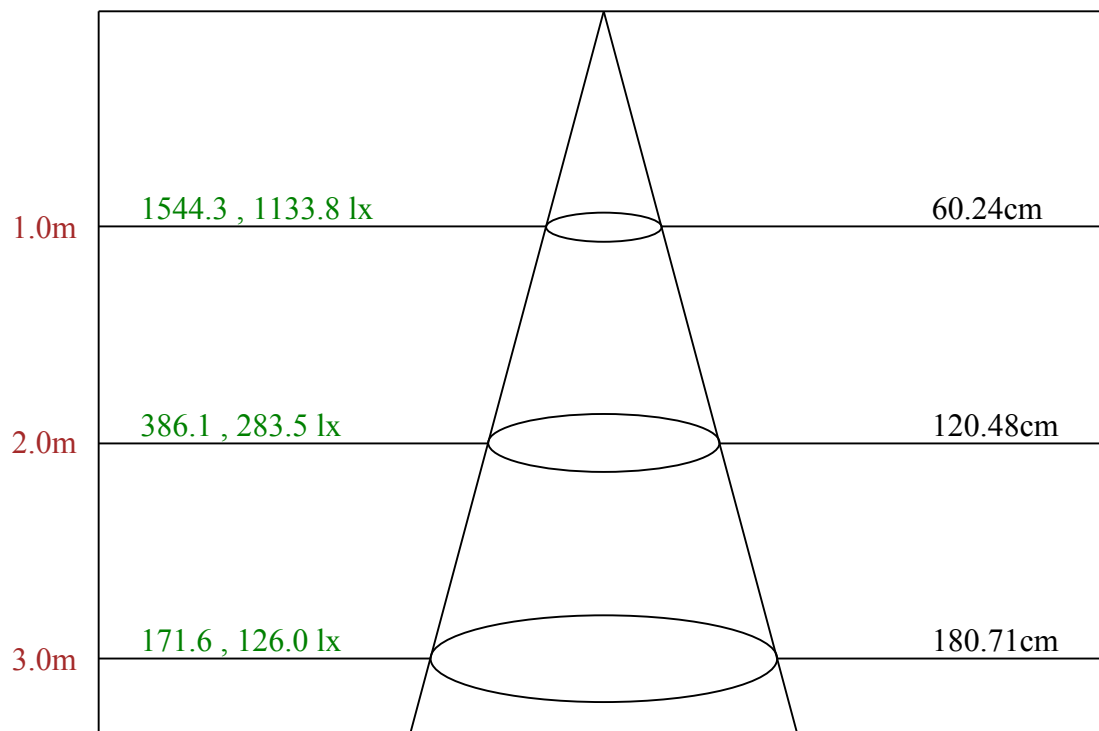
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/06/2025
Humidity(%): 58.0%

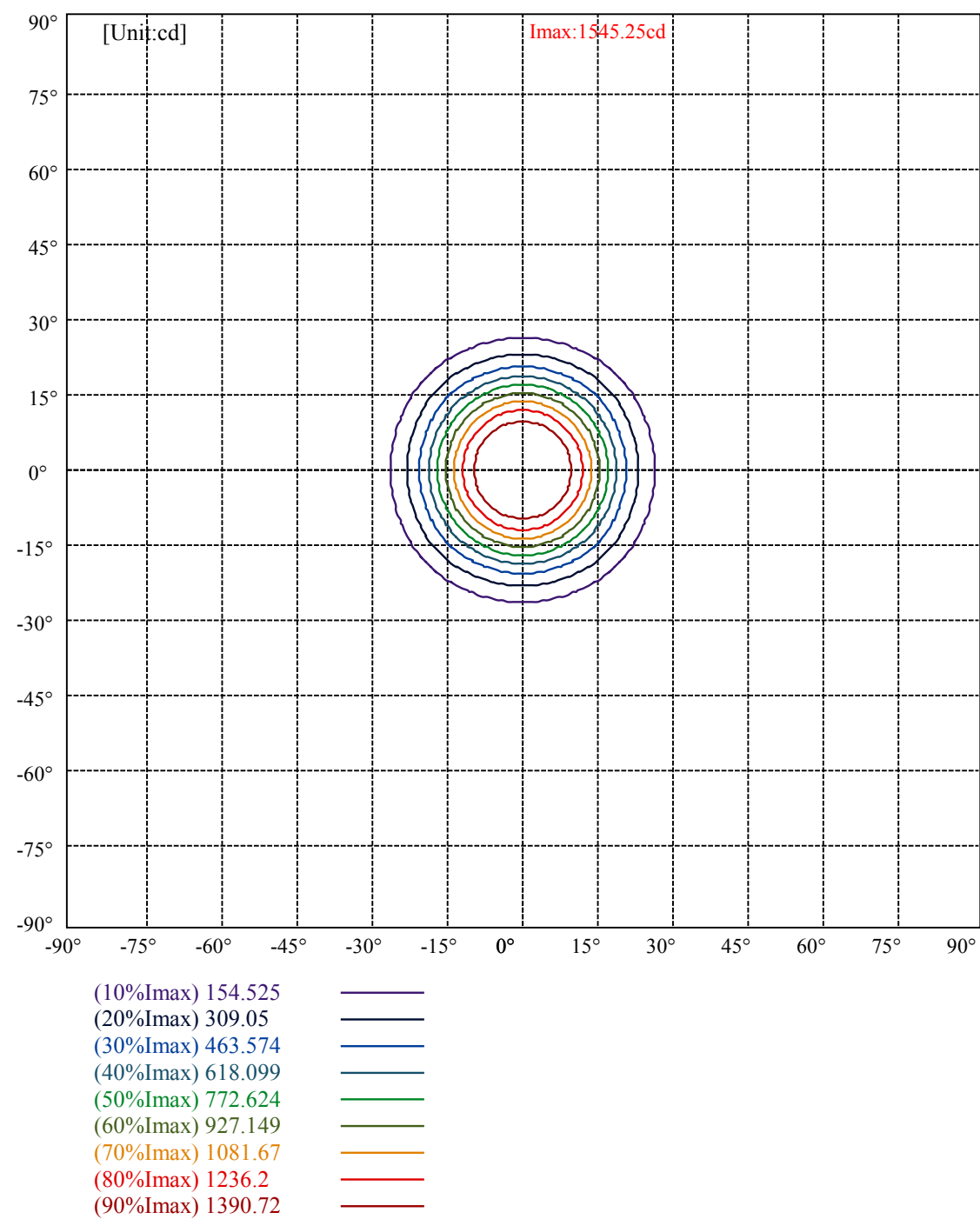
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 33.52



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	1641	1056	862	862	953	1157	1535	2304	4525
C45	1641	1056	862	862	953	1157	1535	2304	4525
C90	1641	1056	862	862	953	1157	1535	2304	4525

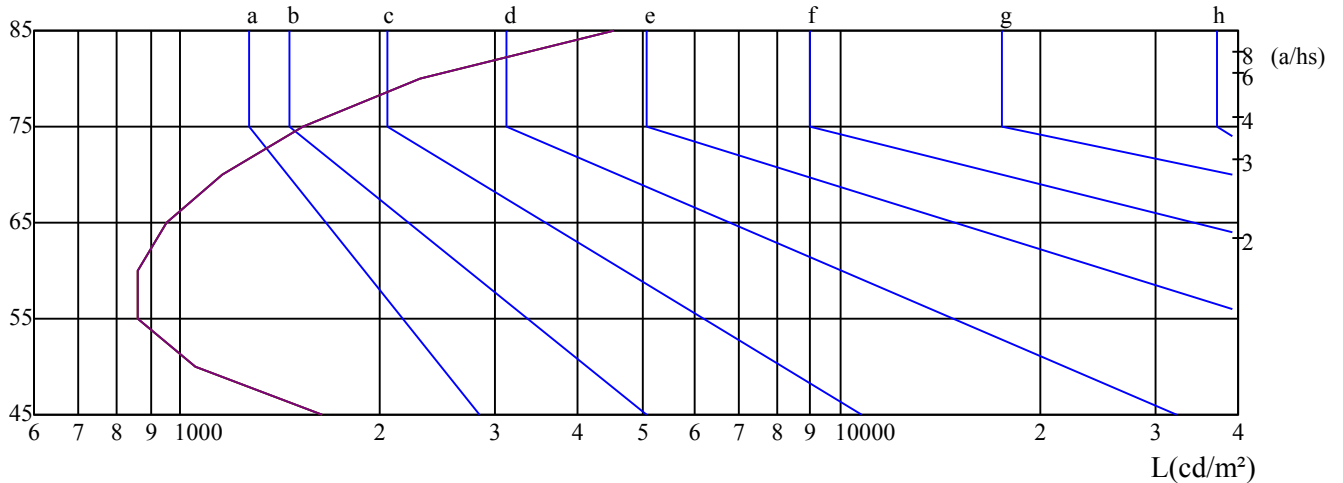
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
953	953	953	1535	1535	1535	4525	4525	4525

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: 25/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: spectra flex mini frame fc

LampCAT: modulo led 12W 30K irc 90

Ballast type: led driver 350mA

Report No:

Voltage(V): 127.7300

Test No:

Current(A): 0.1160

Number of Lamps: 1

Power (W): 14.6030

Lamp flux(lm): 1185.0

PF: 0.9860

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 839.77, Efficiency(%): 70.87% , Luminous Efficacy(lm/W): 57.51

Central intensity(cd): 8709.679, Maximum intensity(cd): 8709.679

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

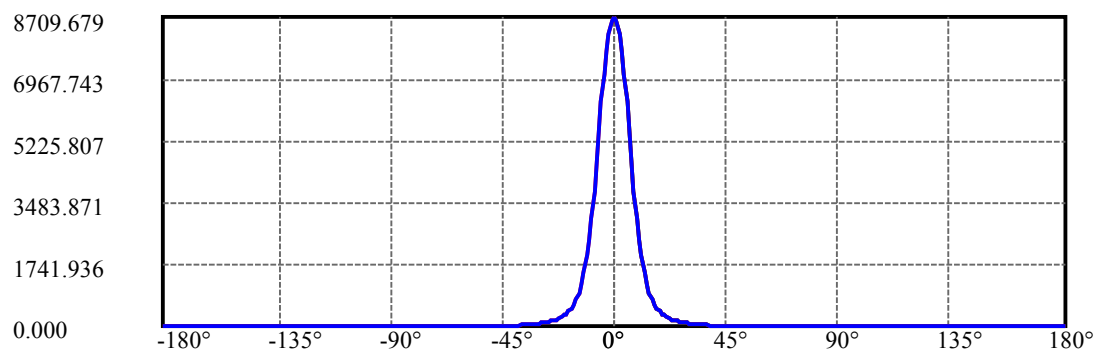
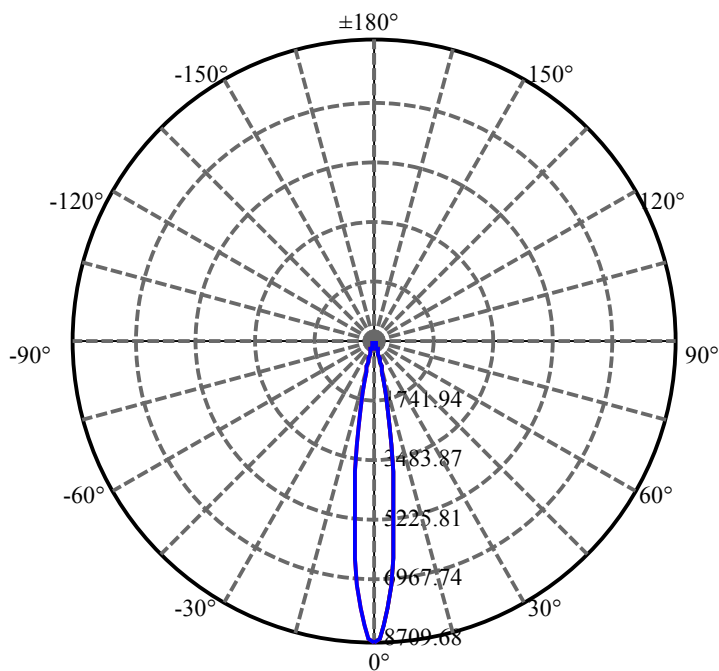
Beam angle of C0 plane : 14.69

Average BeamAngle(IEC 61341): 14.69

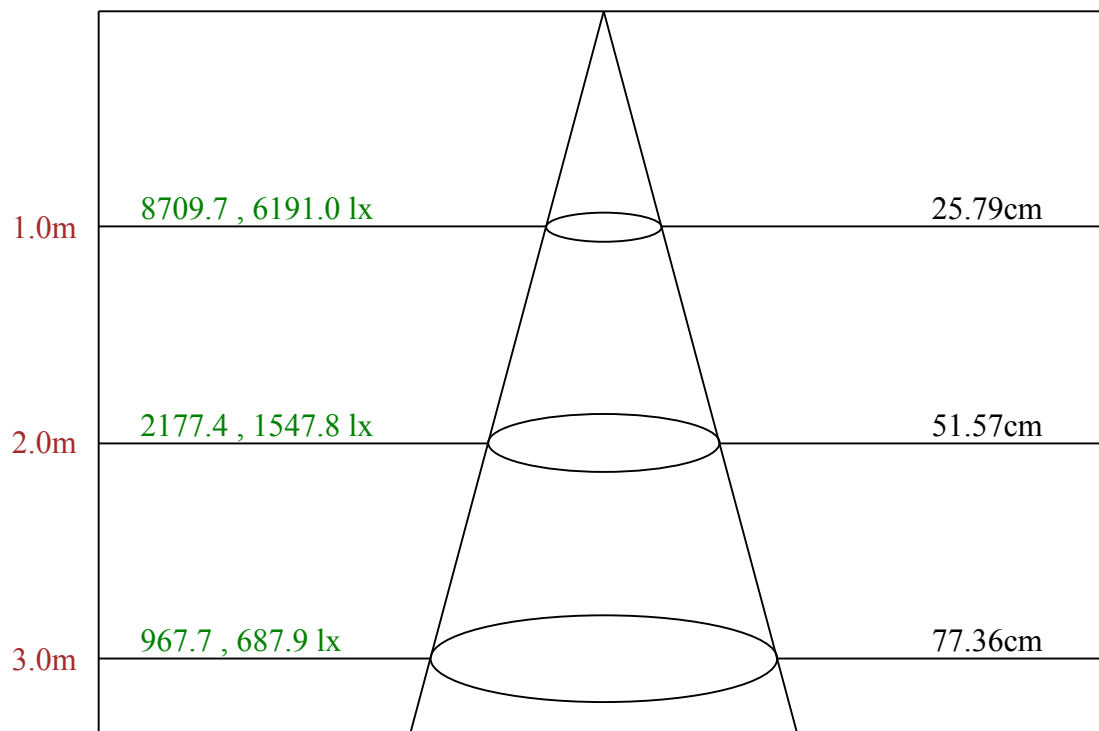
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 24/06/2025
Humidity(%): 58.0%

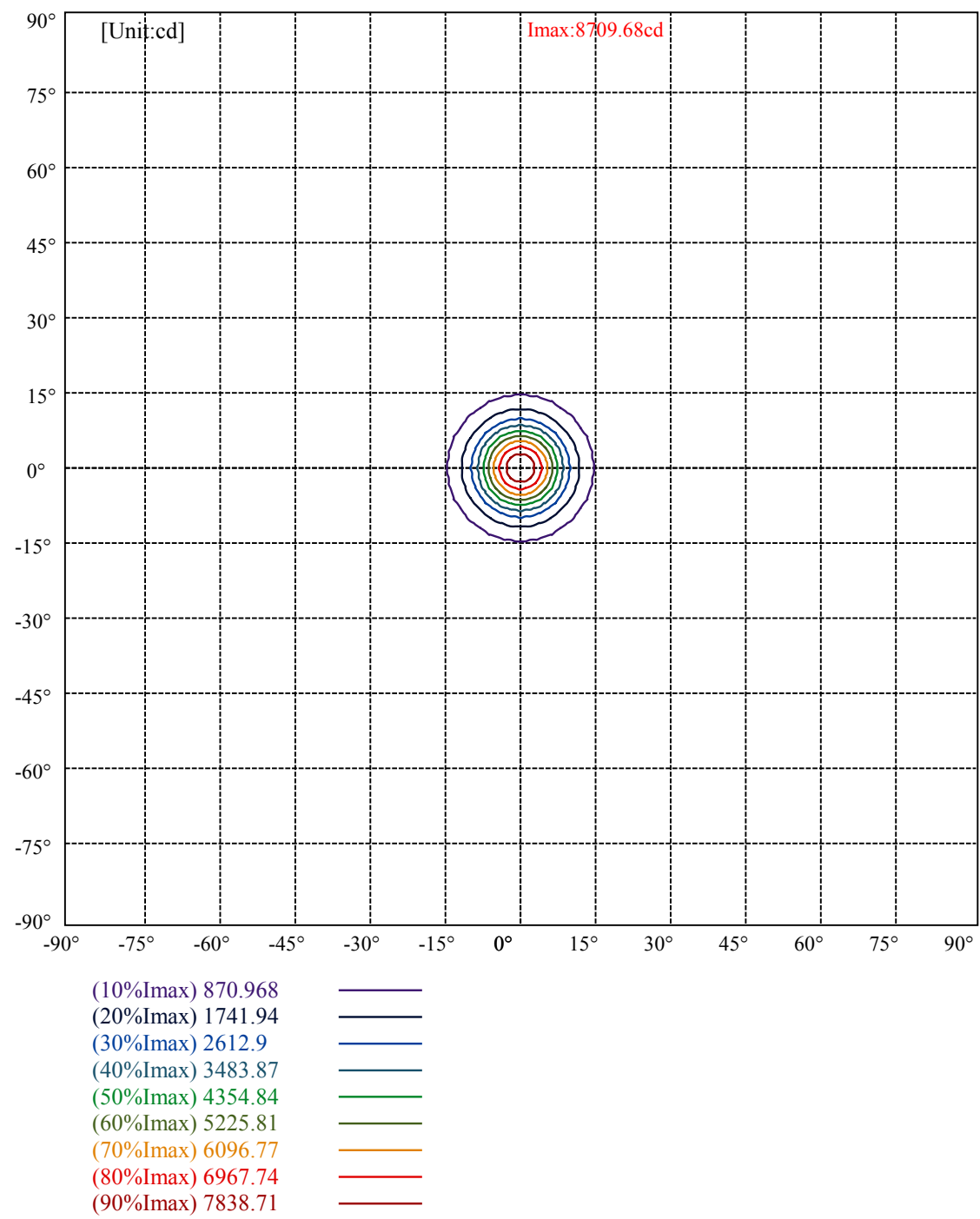
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 14.69



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	1811	1438	1336	1321	1470	1779	2362	3488	6950
C45	1811	1438	1336	1321	1470	1779	2362	3488	6950
C90	1811	1438	1336	1321	1470	1779	2362	3488	6950

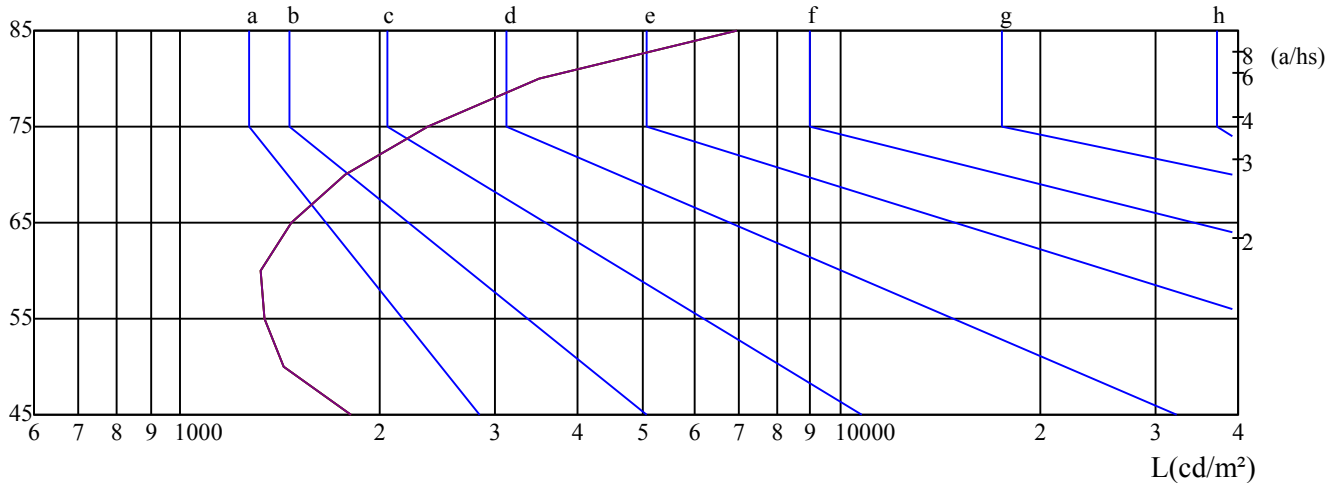
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1470	1470	1470	2362	2362	2362	6950	6950	6950

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: 24/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: spectra flex mini frame fm

LampCAT: modulo led 12W 30K irc 90

Ballast type: led driver 350mA

Report No:

Voltage(V): 127.7300

Test No:

Current(A): 0.1160

Number of Lamps: 1

Power (W): 14.6140

Lamp flux(lm): 1185.0

PF: 0.9860

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 902.40, Efficiency(%): 76.15% , Luminous Efficacy(lm/W): 61.75

Central intensity(cd): 6756.930, Maximum intensity(cd): 6756.930

Angle of maximum intensity: C=0.0 γ =0.0

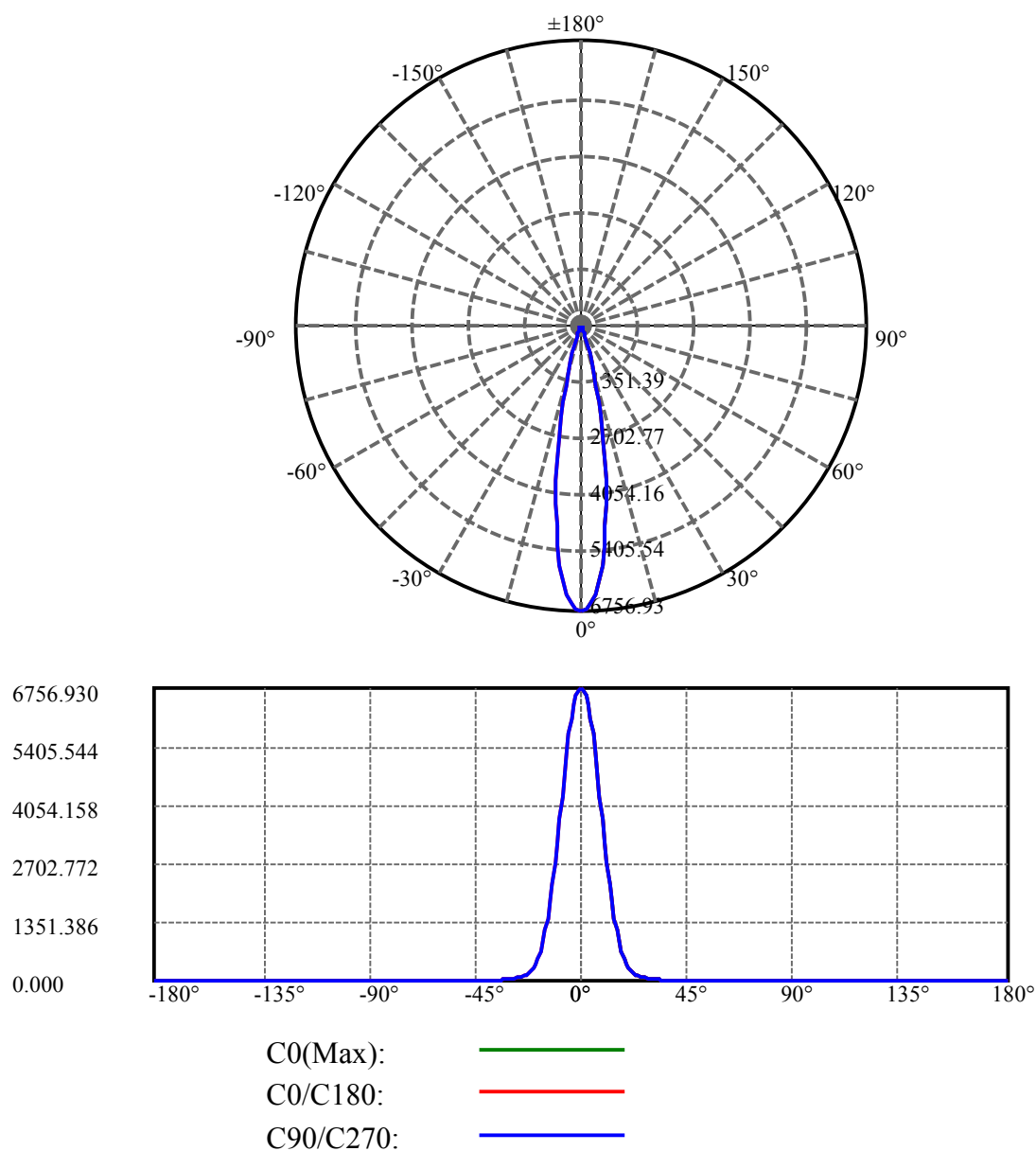
Beam angle of C0 plane : 19.32

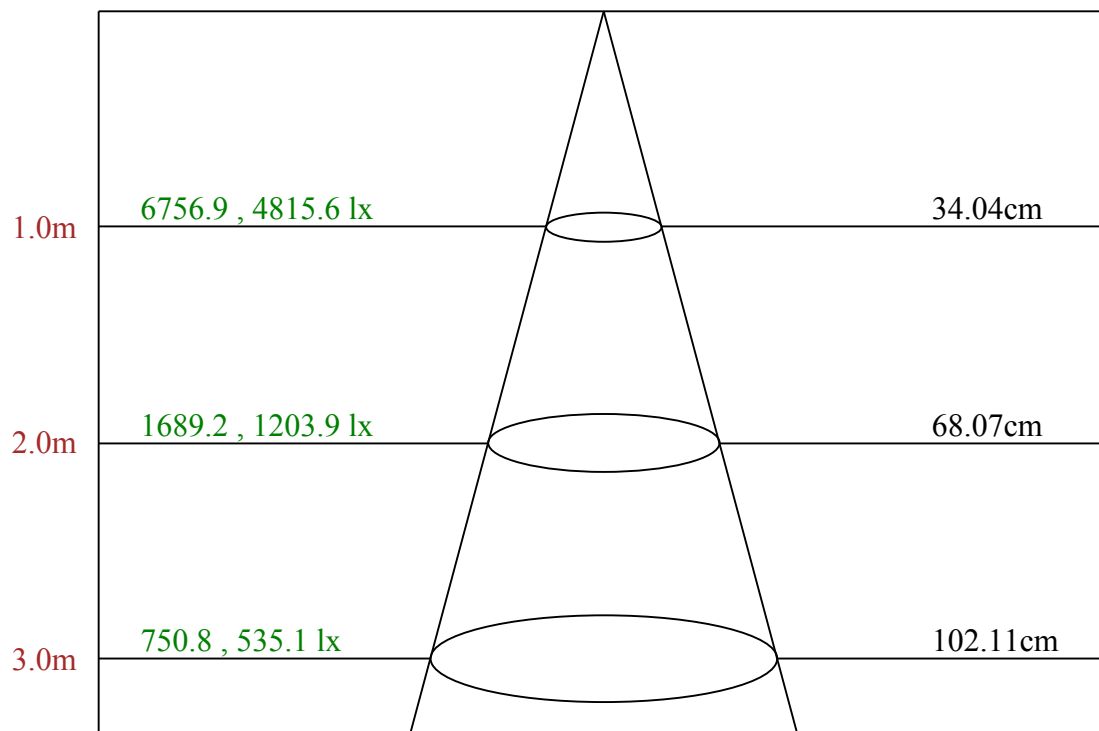
Average BeamAngle(IEC 61341): 19.32

Equipment: equipamento lumini
Temperature(°C): 25.0

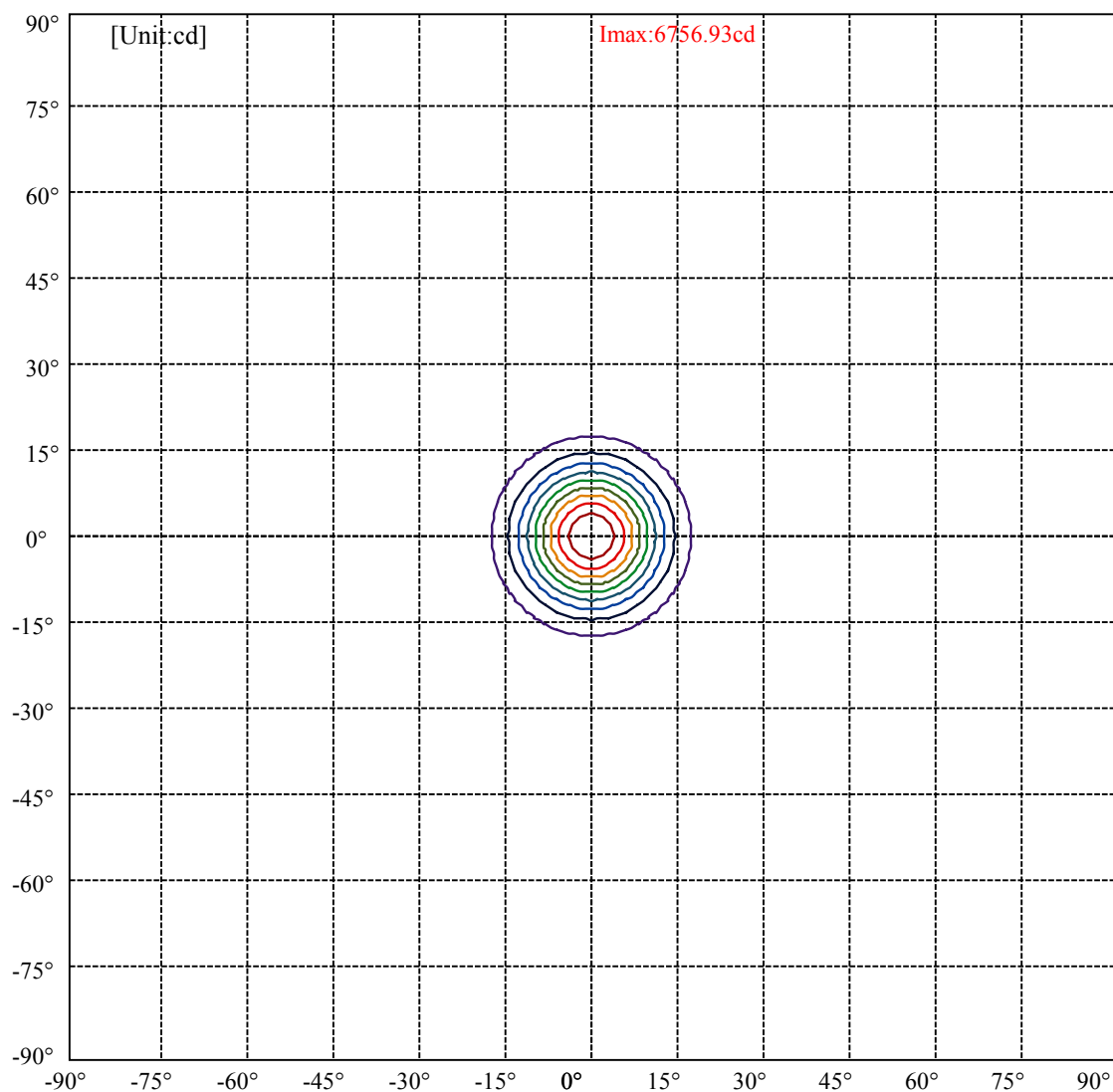
Date: 24/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 19.32



(10%Imax)	675.693	———
(20%Imax)	1351.39	———
(30%Imax)	2027.08	———
(40%Imax)	2702.77	———
(50%Imax)	3378.47	———
(60%Imax)	4054.16	———
(70%Imax)	4729.85	———
(80%Imax)	5405.54	———
(90%Imax)	6081.24	———

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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	1813	1530	1456	1468	1653	2034	2667	3975	7887
C45	1813	1530	1456	1468	1653	2034	2667	3975	7887
C90	1813	1530	1456	1468	1653	2034	2667	3975	7887

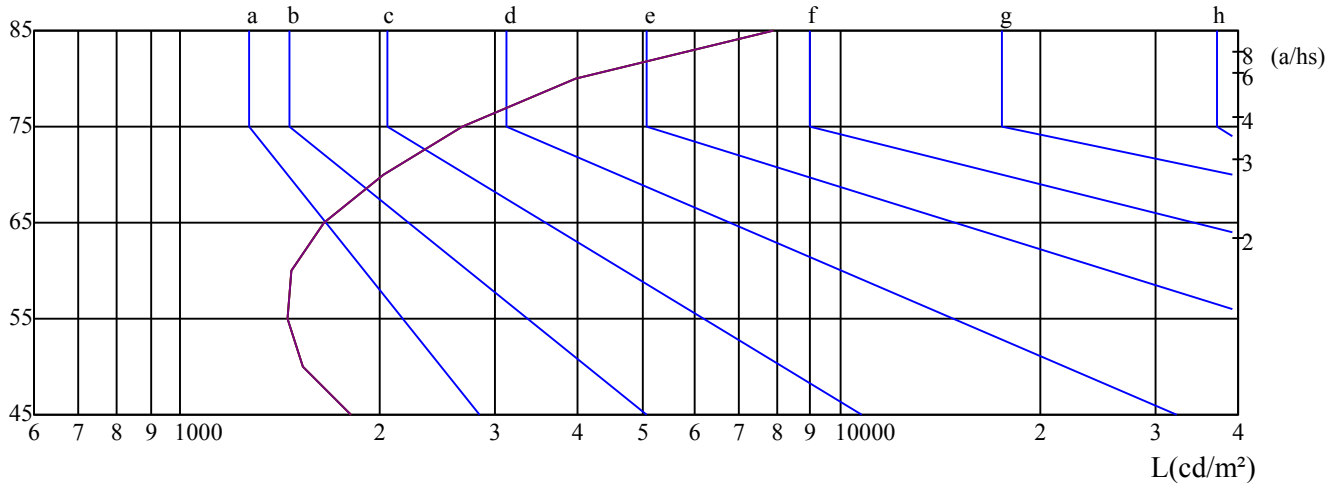
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1653	1653	1653	2667	2667	2667	7887	7887	7887

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: 24/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: spectra flex mini frame fa

LampCAT: modulo led 12W 30K irc 90

Ballast type: led driver 350mA

Report No:

Voltage(V): 127.7300

Test No:

Current(A): 0.1160

Number of Lamps: 1

Power (W): 14.6120

Lamp flux(lm): 1185.0

PF: 0.9860

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 938.59, Efficiency(%): 79.21% , Luminous Efficacy(lm/W): 64.23

Central intensity(cd): 2848.708, Maximum intensity(cd): 2848.708

Angle of maximum intensity: C=0.0 γ =0.0

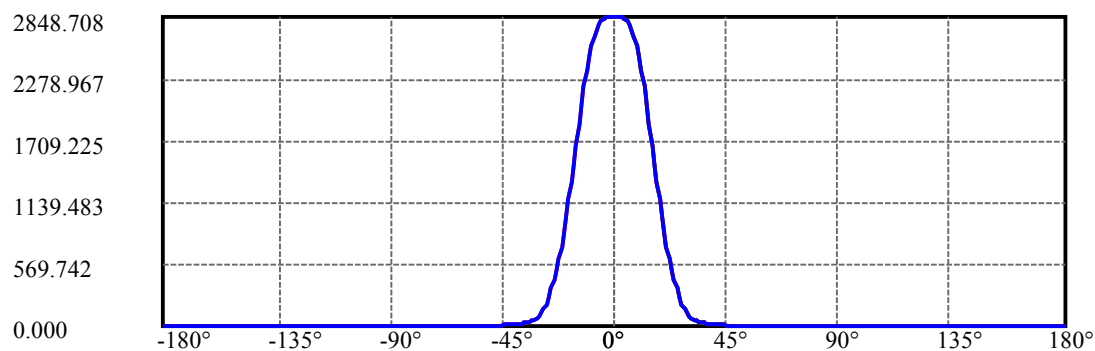
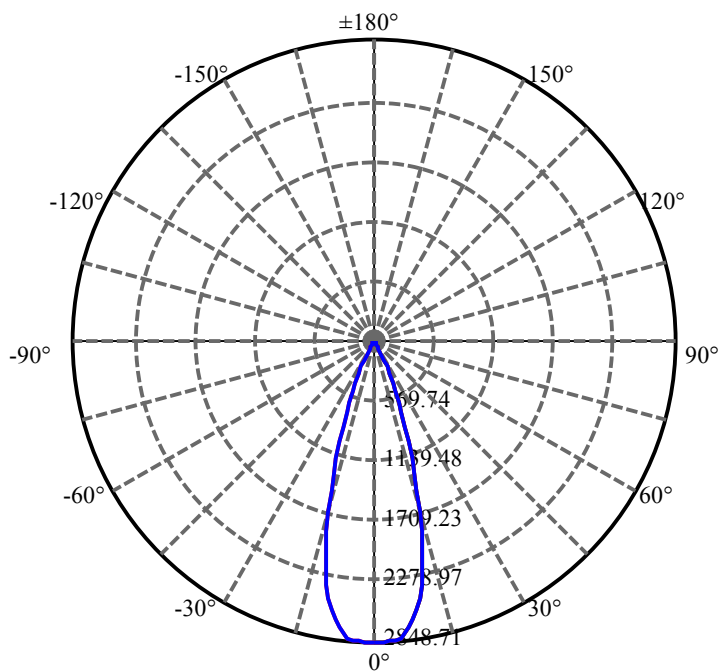
Beam angle of C0 plane : 32.72

Aveage BeamAngle(IEC 61341):32.72

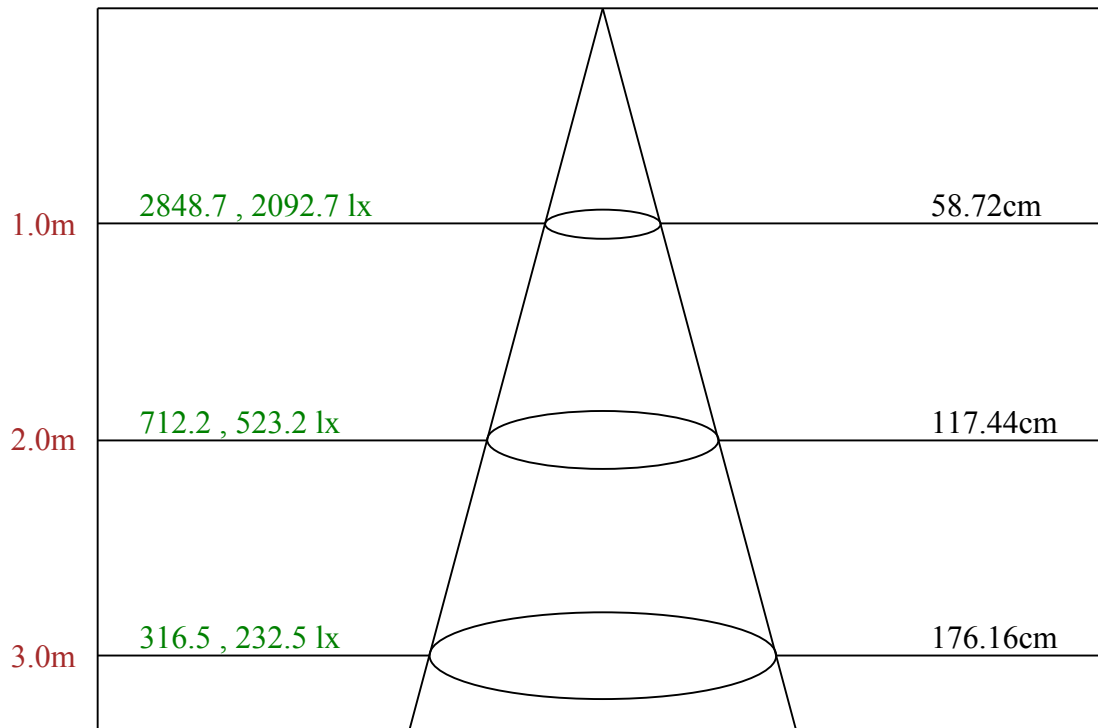
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 24/06/2025
Humidity(%): 58.0%

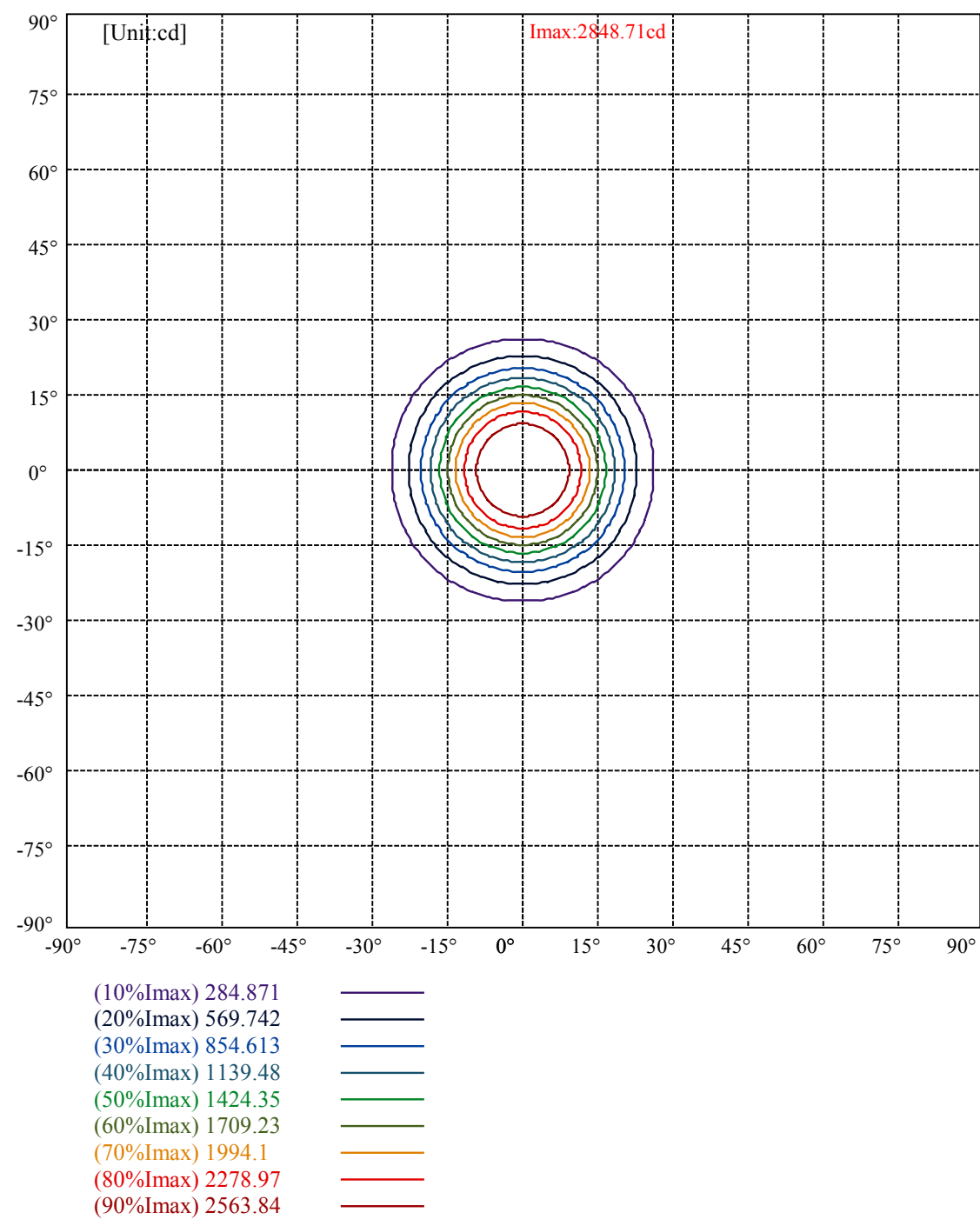
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 32.72



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	2743	1795	1523	1518	1706	2072	2737	4088	8129
C45	2743	1795	1523	1518	1706	2072	2737	4088	8129
C90	2743	1795	1523	1518	1706	2072	2737	4088	8129

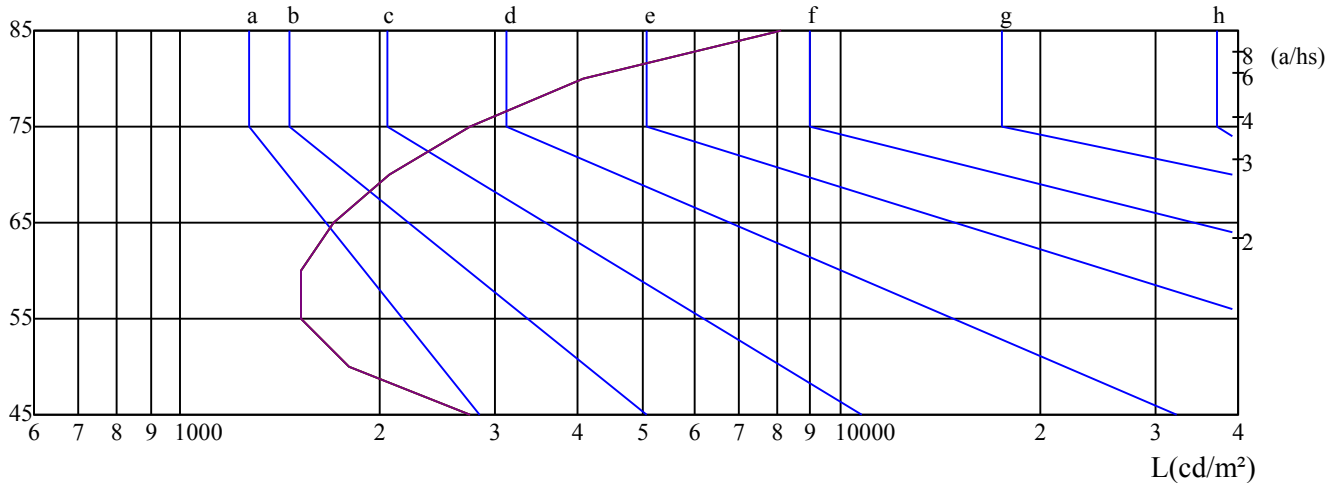
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1706	1706	1706	2737	2737	2737	8129	8129	8129

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: 24/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: spectra flex mini frame fc

LampCAT: modulo led 18W 30K irc 90

Ballast type: led driver 500mA

Report No:

Voltage(V): 221.2300

Test No:

Current(A): 0.1050

Number of Lamps: 1

Power (W): 21.5890

Lamp flux(lm): 1585.0

PF: 0.9320

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1130.37, Efficiency(%): 71.32% , Luminous Efficacy(lm/W): 52.36

Central intensity(cd): 11570.990, Maximum intensity(cd): 11570.990

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

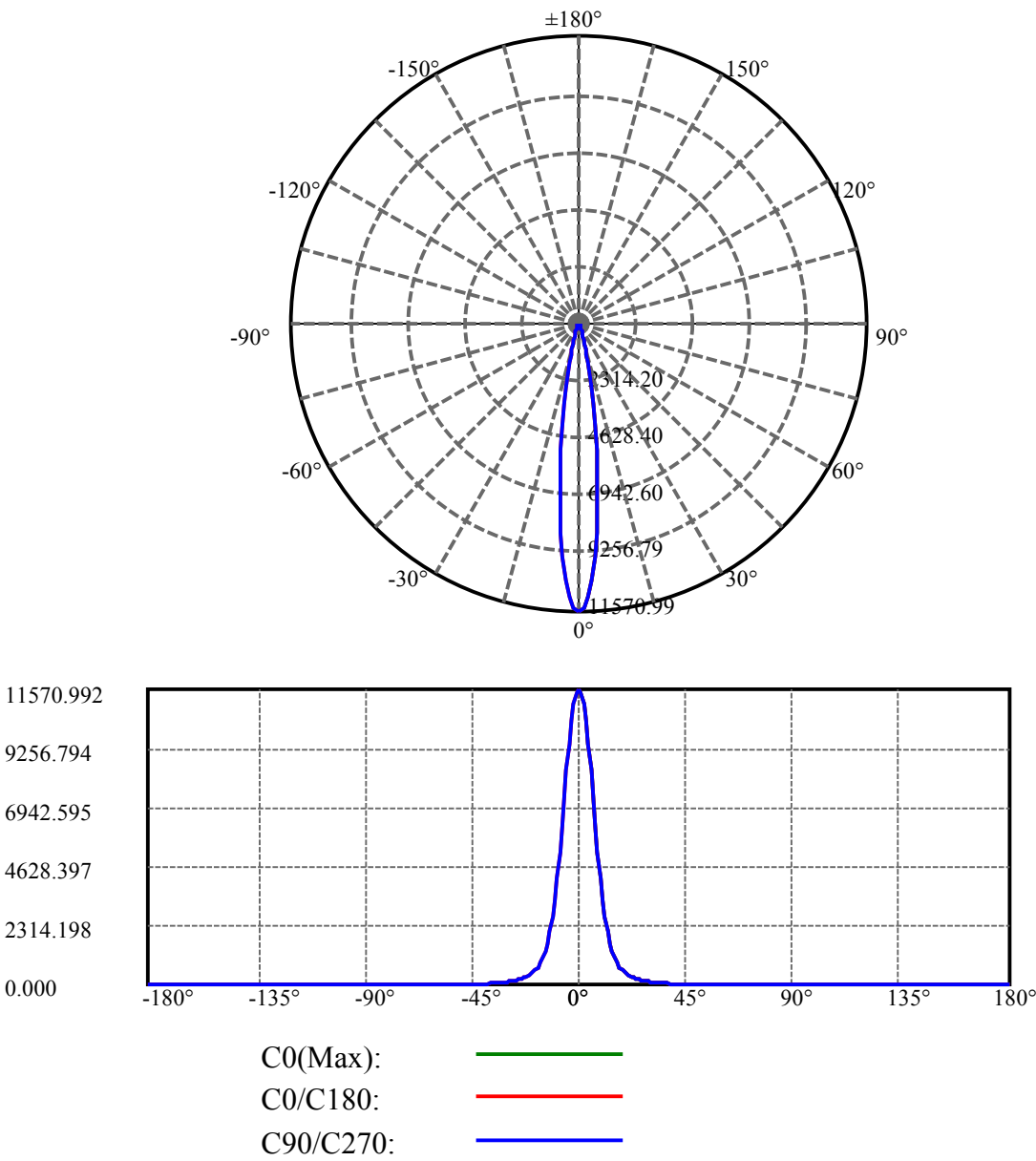
Beam angle of C0 plane : 14.77

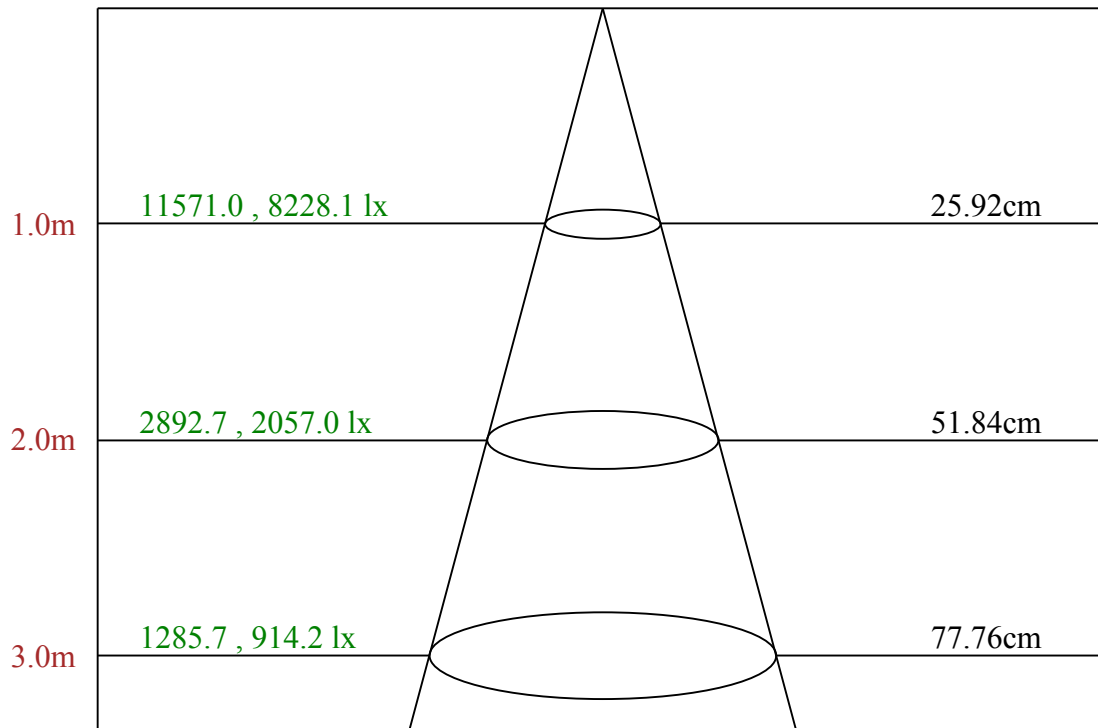
Average BeamAngle(IEC 61341): 14.77

Equipment: equipamento lumini
Temperature(°C): 25.0

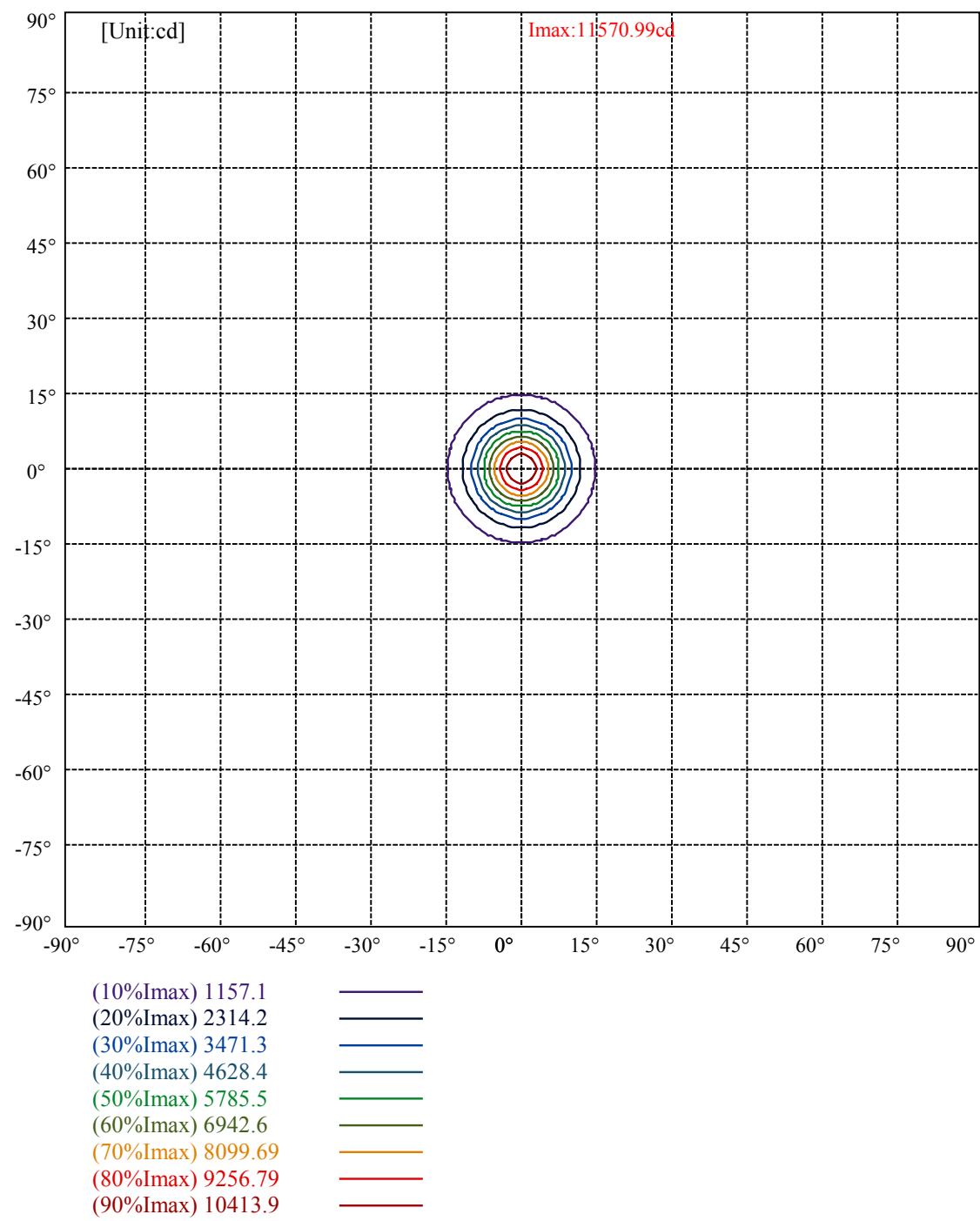
Date: 24/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 14.77



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	2614	1953	1807	1755	1940	2352	3124	4624	9180
C45	2614	1953	1807	1755	1940	2352	3124	4624	9180
C90	2614	1953	1807	1755	1940	2352	3124	4624	9180

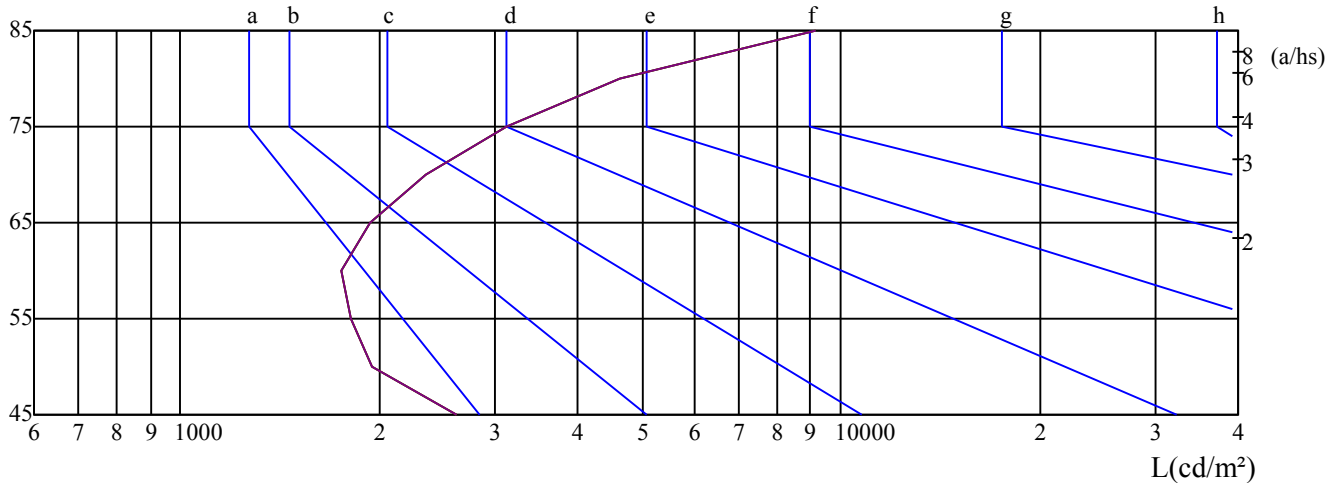
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1940	1940	1940	3124	3124	3124	9180	9180	9180

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: 24/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: spectra flex mini frame fm

LampCAT: modulo led 18W 30K irc 90

Ballast type: led driver 500mA

Report No:

Voltage(V): 221.2600

Test No:

Current(A): 0.1050

Number of Lamps: 1

Power (W): 21.6260

Lamp flux(lm): 1585.0

PF: 0.9320

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1191.51, Efficiency(%): 75.17% , Luminous Efficacy(lm/W): 55.10

Central intensity(cd): 9041.877, Maximum intensity(cd): 9041.877

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

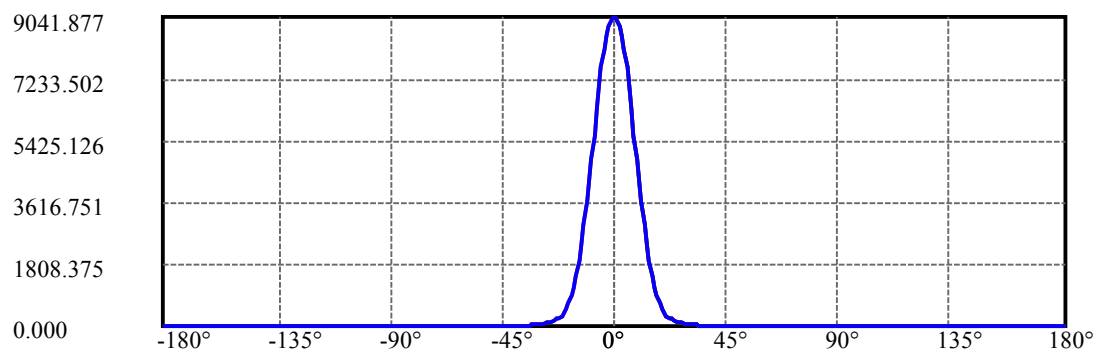
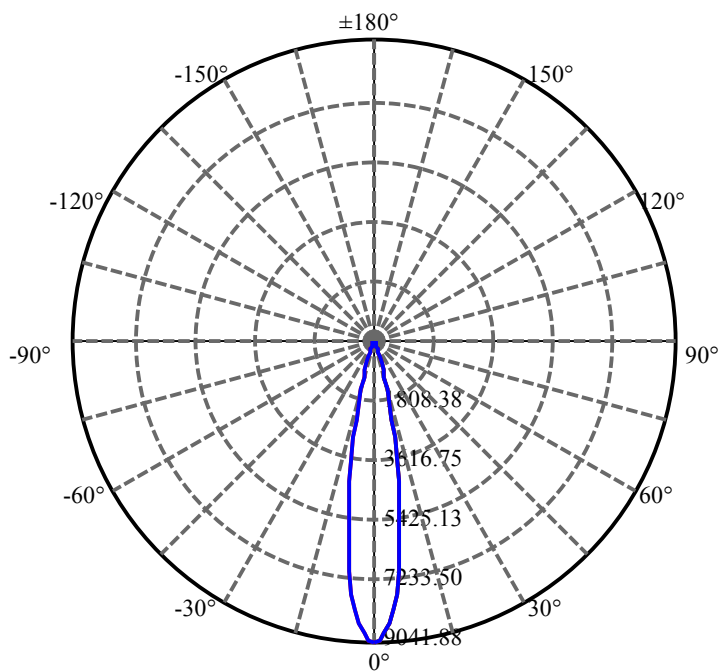
Beam angle of C0 plane : 19.14

Average BeamAngle(IEC 61341): 19.14

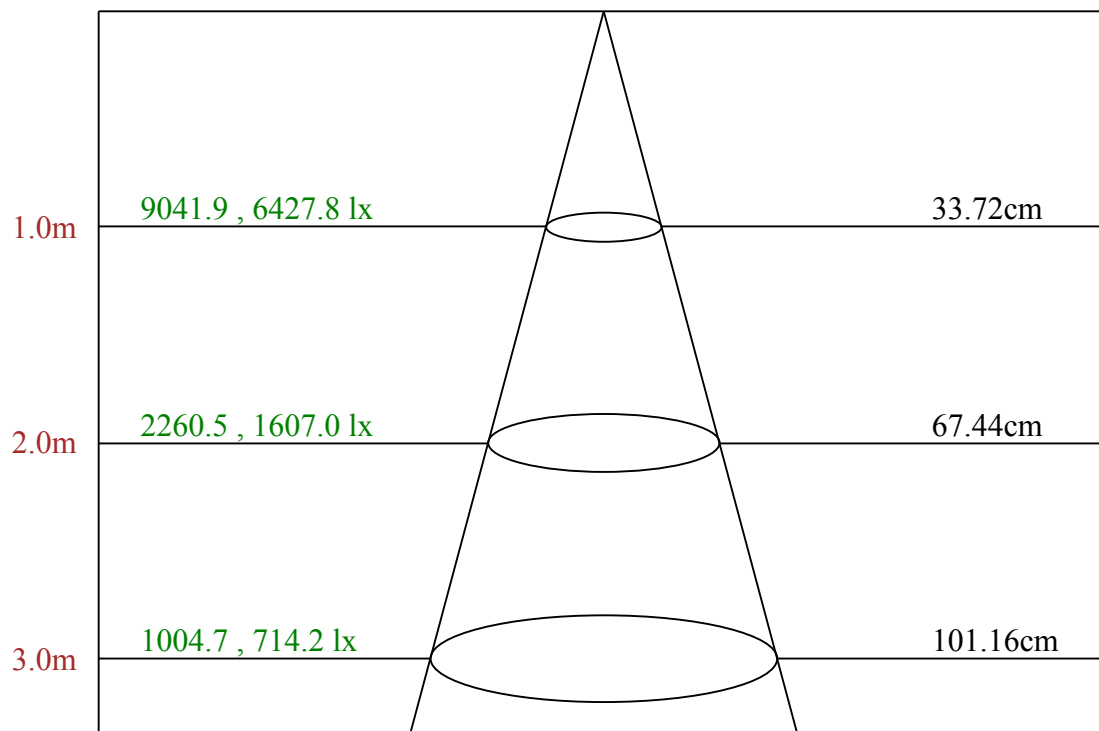
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 23/06/2025
Humidity(%): 58.0%

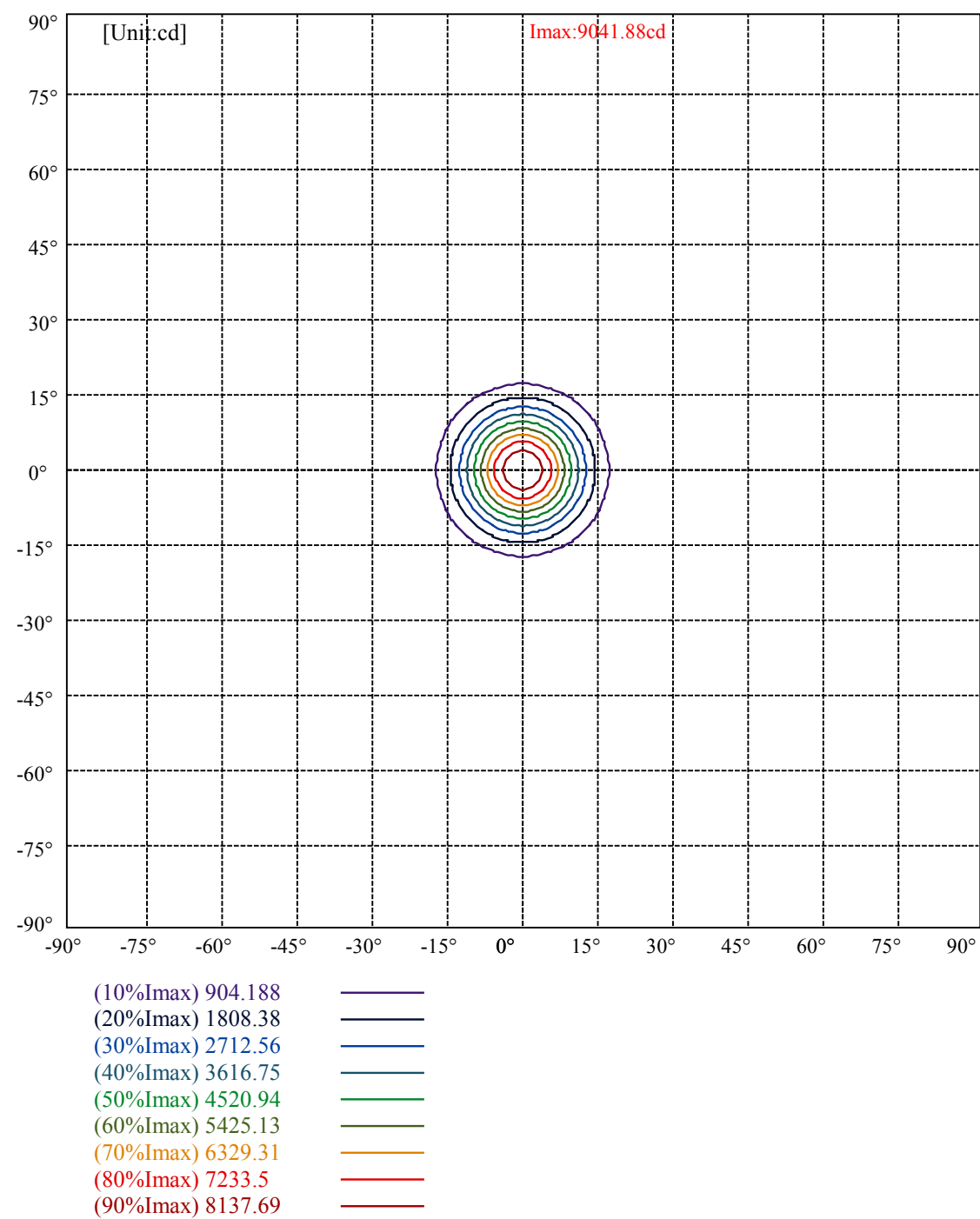
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 19.14



Luminance Table

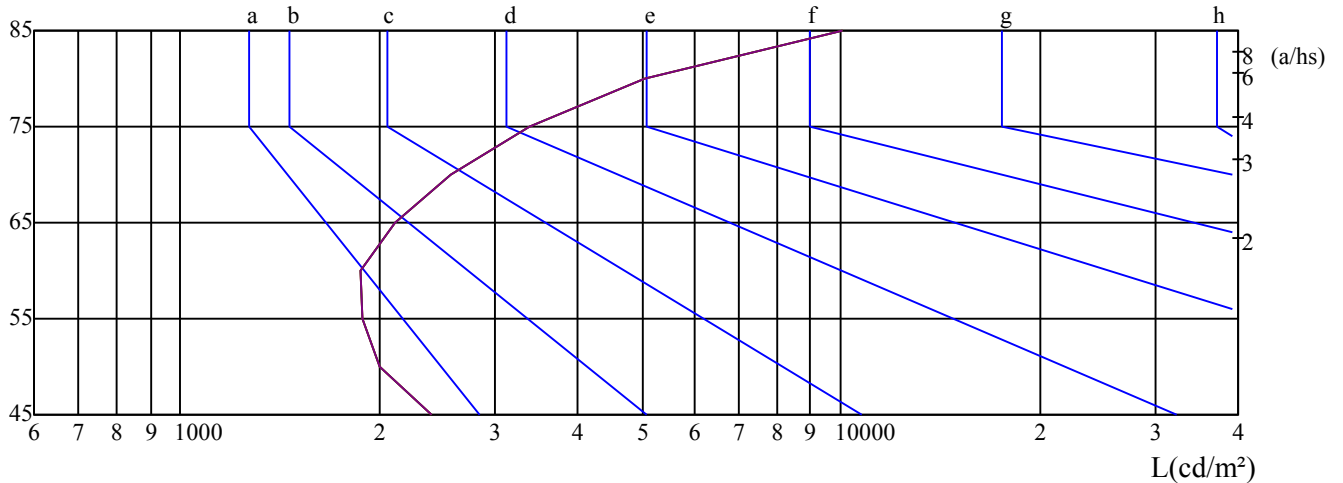
γ	45	50	55	60	65	70	75	80	85
C0	2402	2009	1891	1876	2110	2566	3380	5037	10069
C45	2402	2009	1891	1876	2110	2566	3380	5037	10069
C90	2402	2009	1891	1876	2110	2566	3380	5037	10069

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2110	2110	2110	3380	3380	3380	10069	10069	10069

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 ———



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LumCAT:

Luminaire: spectra flex mini frame fa

LampCAT: modulo led 18W 30K irc 90

Ballast type: led driver 500mA

Report No:

Voltage(V): 221.2700

Test No:

Current(A): 0.1050

Number of Lamps: 1

Power (W): 21.5950

Lamp flux(lm): 1585.0

PF: 0.9320

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1242.65, Efficiency(%): 78.40% , Luminous Efficacy(lm/W): 57.54

Central intensity(cd): 3709.331, Maximum intensity(cd): 3709.331

Angle of maximum intensity: C=0.0 γ =0.0

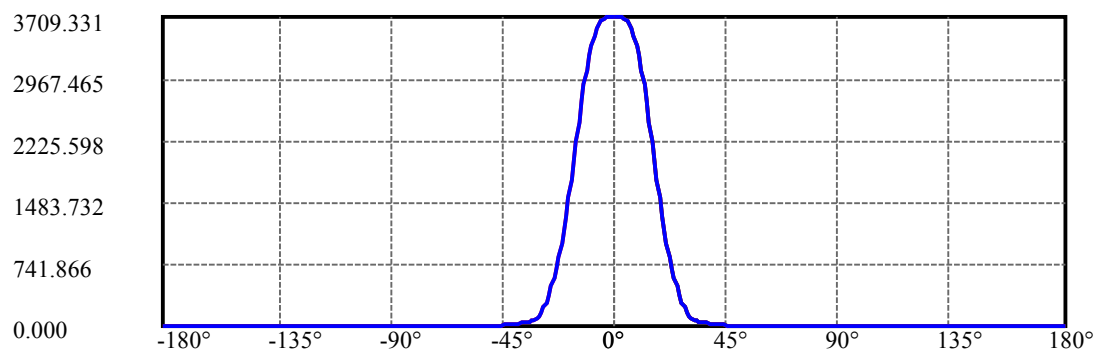
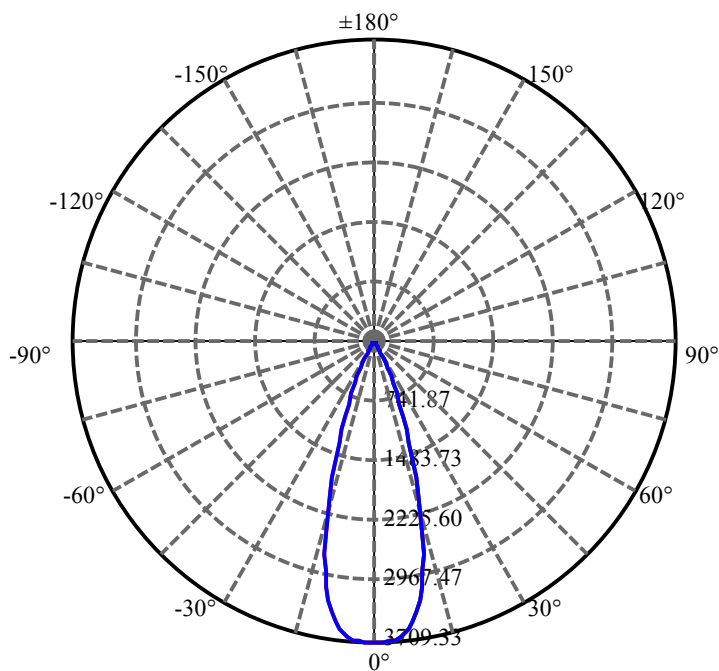
Beam angle of C0 plane : 33.07

Average BeamAngle(IEC 61341): 33.07

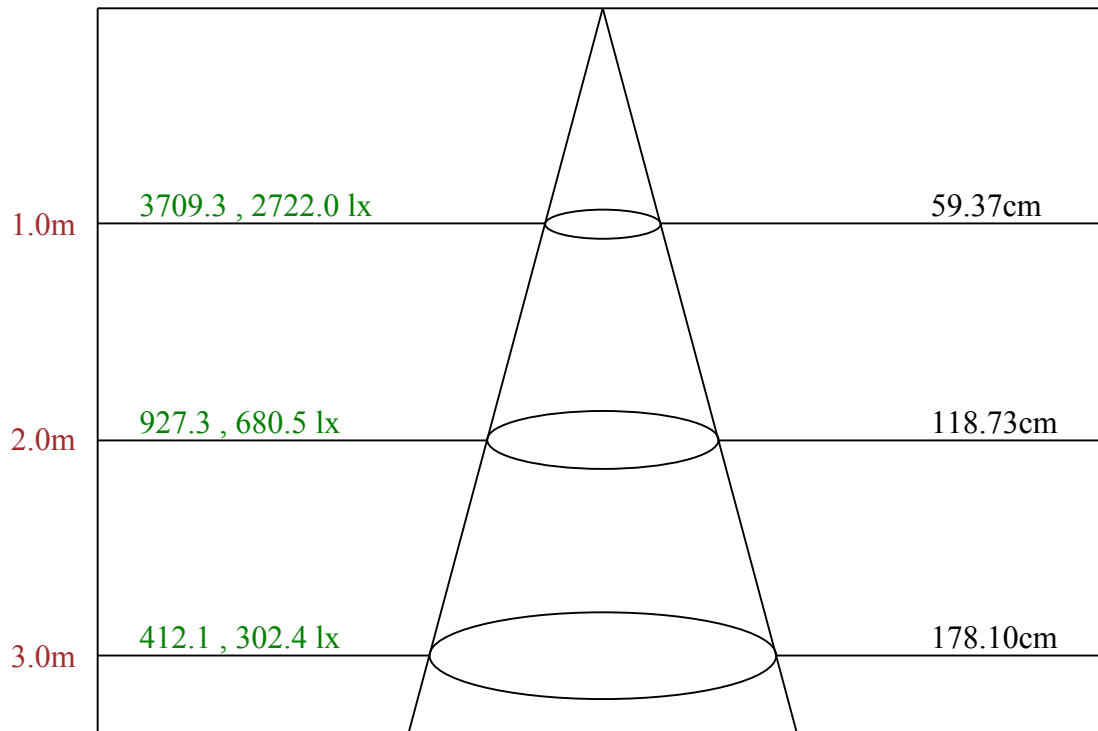
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 23/06/2025
Humidity(%): 58.0%

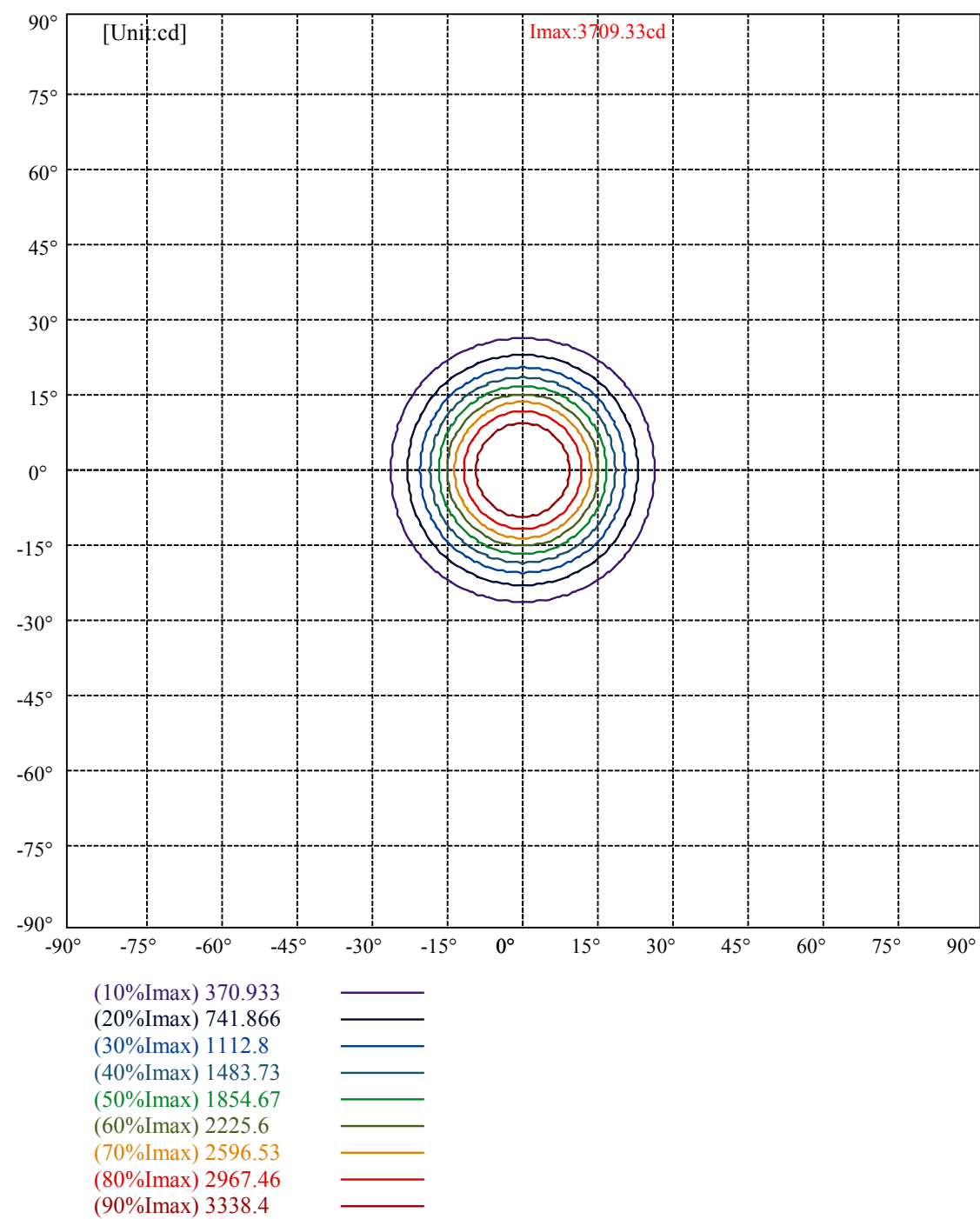
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 33.07



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:5

Luminance Table

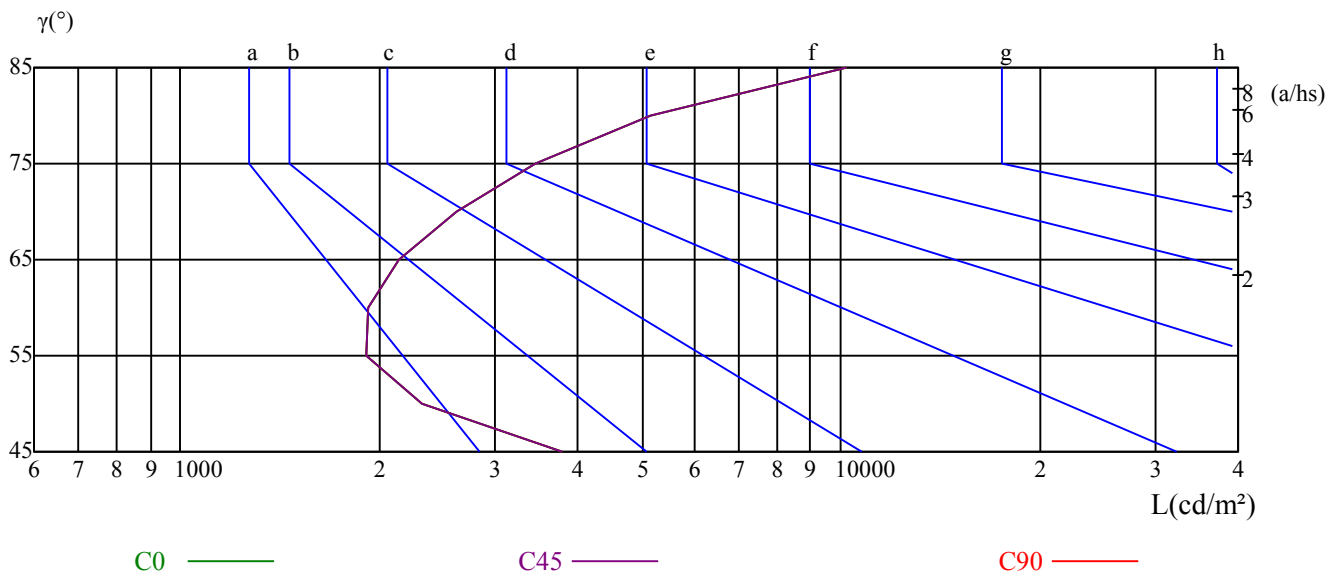
γ	45	50	55	60	65	70	75	80	85
C0	3777	2321	1918	1918	2136	2623	3450	5151	10214
C45	3777	2321	1918	1918	2136	2623	3450	5151	10214
C90	3777	2321	1918	1918	2136	2623	3450	5151	10214

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2136	2136	2136	3450	3450	3450	10214	10214	10214

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



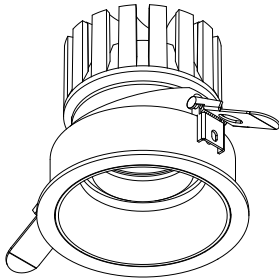
Equipment: equipamento lumini
Temperature($^{\circ}$ C): 25.0

Date: 23/06/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

spectra

spectra flex mini frame 6w
spectra flex mini frame 12w
spectra flex mini frame 18w



especificações técnicas

fonte de luz
módulo led integrado (incluso)

índice de proteção
IP20 - luminária para uso interno

peso
spectra flex mini frame 6w - 0,4 kg
spectra flex mini frame 12w - 0,4 kg
spectra flex mini frame 18w - 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

informações importantes
para a instalação, lave 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

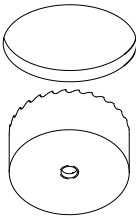
leia atentamente todas as instruções relacionadas ao seu produto antes de utilizá-lo.

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

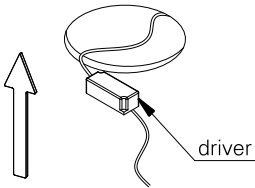
não são permitidas modificações no produto, esse deve atender à finalidade para a qual foi projetado e ser utilizado de acordo com as especificações técnicas.

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

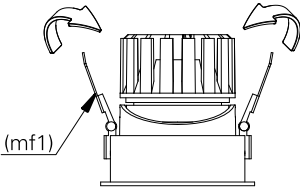
1. faça um nicho no forro conforme a tabela abaixo:
spectra flex mini frame 6w - nicho = Ø75
spectra flex mini frame 12w - nicho = Ø75
spectra flex mini frame 18w - nicho = Ø75



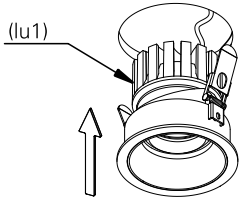
2. aloje o driver sobre o forro. faça a conexão entre os cabos condutores da luminária e os fios da rede elétrica, utilize conectores apropriados para garantir o contato firme e seguro. caso necessário isole-os separadamente com fita isolante.



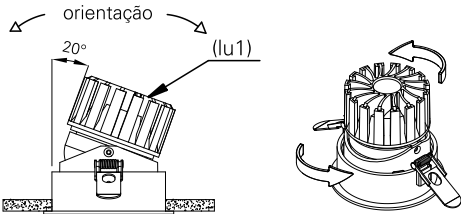
3. levante as molas de fixação (mf1) conforme a ilustração abaixo.



4. segurando as molas de fixação, encaixe a luminária (lu1) no nicho.



5. para orientar o fecho de luz, mova a luminária (lu1) para direção e rotação conforme indicado.



6. a luminária após instalada deverá ficar como ilustrado na imagem. ligue a rede elétrica e teste o seu funcionamento.

