



mini frame darklight 50 e

linha de luminárias embutidas ou aplicadas, em perfil de alumínio extrudado, para tecnologia led. permite instalação em forro de gesso, alvenaria, laje, marcenaria ou trilho, com opções de fachos fixos e orientáveis. sua principal característica é o excelente controle antiofuscamento, eficiência luminosa e tamanhos reduzidos.

informações técnicas

fonte de luz
LED integrado

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

vida útil
50.000h

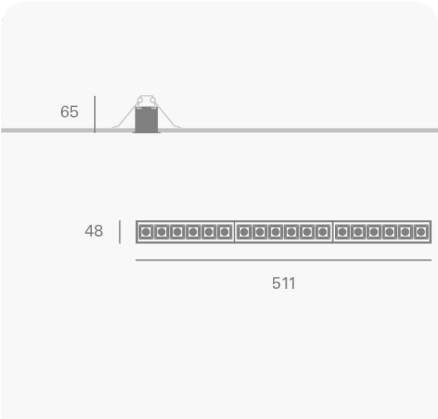
potência (W), facho, temperatura de cor (K),
fluxo nominal (lm nominal), fluxo útil (lm útil)

W		K	lm nominal	lm útil
18	concentrado	2700		
18	médio	2700		
18	aberto	2700		
18	concentrado	3000	2190	1838
18	médio	3000	2190	1897
18	aberto	3000	2190	1681
18	concentrado	4000		
18	médio	4000		
18	aberto	4000		
36	concentrado	2700		
36	médio	2700		
36	aberto	2700		
36	concentrado	3000	3870	3189
36	médio	3000	3870	3206
36	aberto	3000	3870	2799
36	concentrado	4000		
36	médio	4000		
36	aberto	4000		

equipamentos
LED driver 700mA (incluso, ponto remoto)

controle
on/off
dim fphase

instalação
forro de gesso
marcenaria



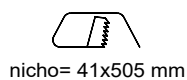
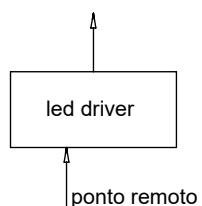
acabamentos e cores

cores



vista inferior

dimensões em milímetros



mini frame darklight 50 e sr3

folha
1/1

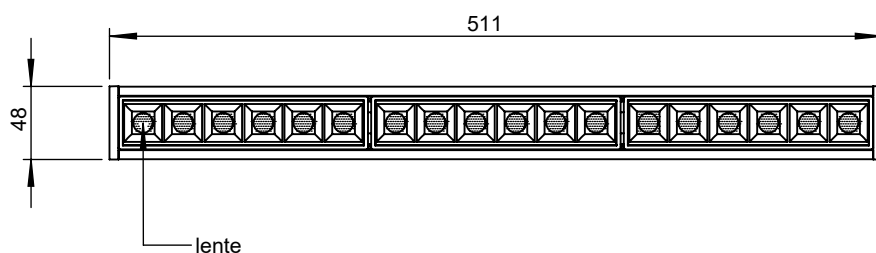
escala
1:5

data
27/11/2024

desenhista
joão v.

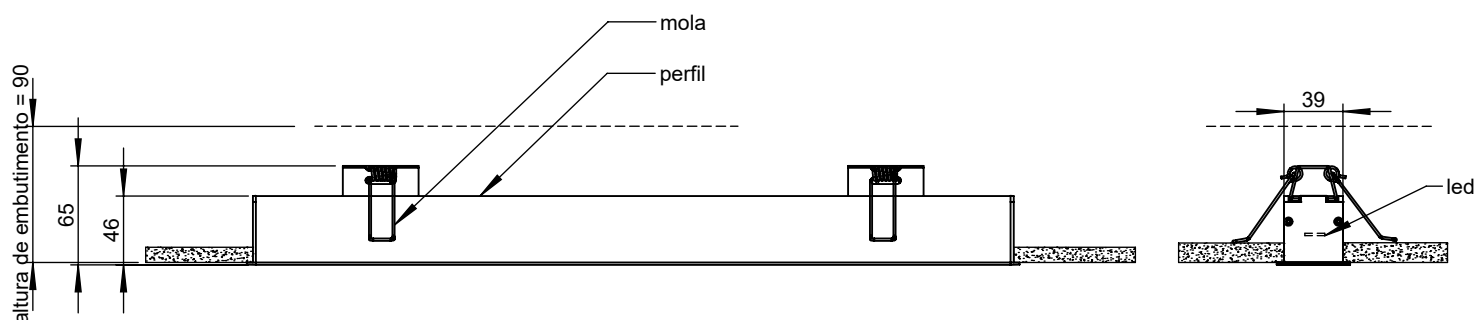
aprovação
ronaldo

revisões
27/11/2024



vista lateral

dimensões em milímetros



para maiores informações,
consulte a área técnica
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LumCAT:

Luminaire: mini frame darklight 50 serie 2 e fc

LampCAT: modulo led 18W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.0300

Test No:

Current(A): 0.1650

Number of Lamps: 1

Power (W): 20.7600

Lamp flux(lm): 2190.0

PF: 0.9890

Length(mm): 486

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1837.85, Efficiency(%): 83.92% , Luminous Efficacy(lm/W): 88.53

Central intensity(cd): 9948.348, Maximum intensity(cd): 9948.348

Angle of maximum intensity: C=0.0 γ =0.0

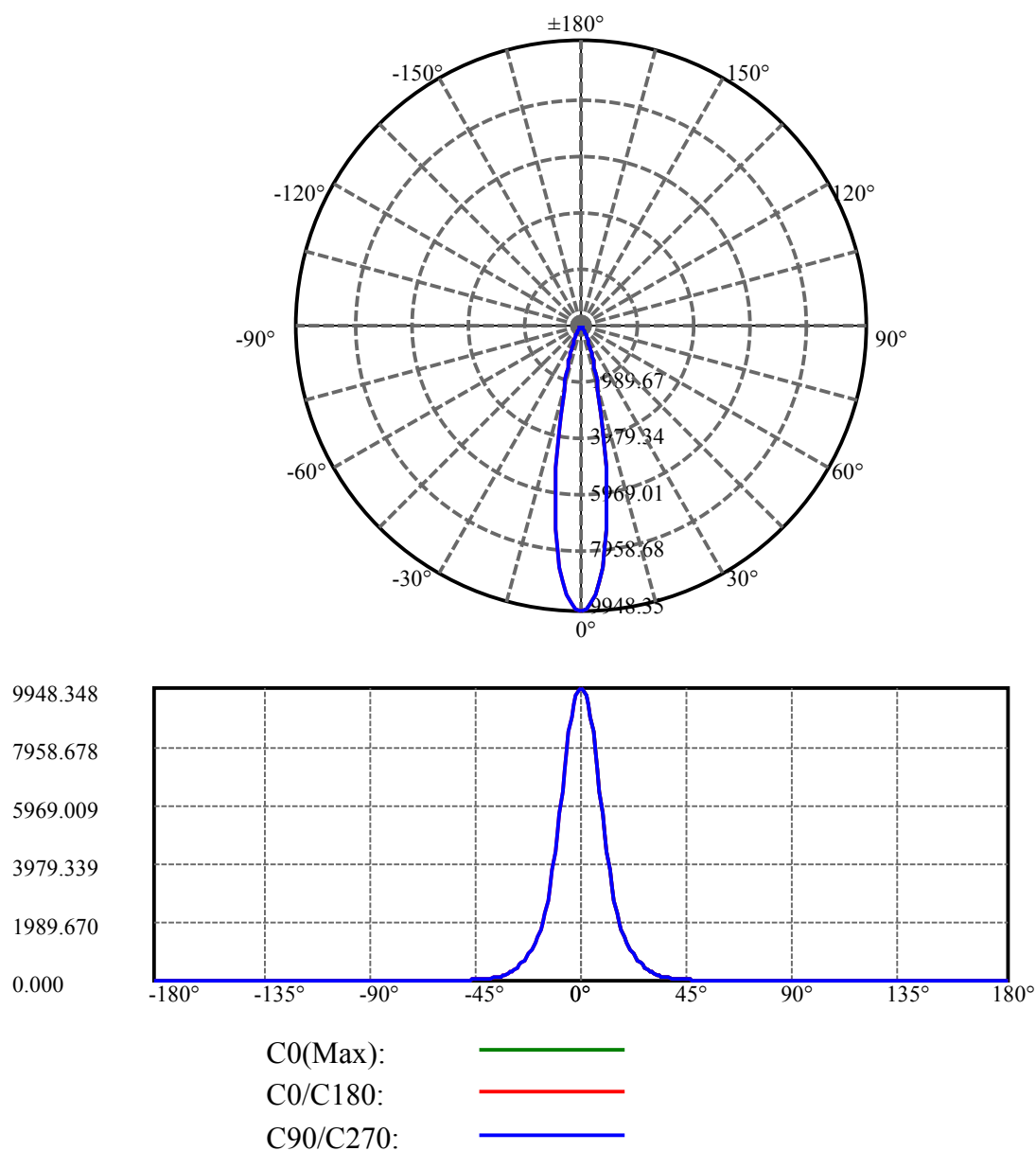
Beam angle of C0 plane : 20.16

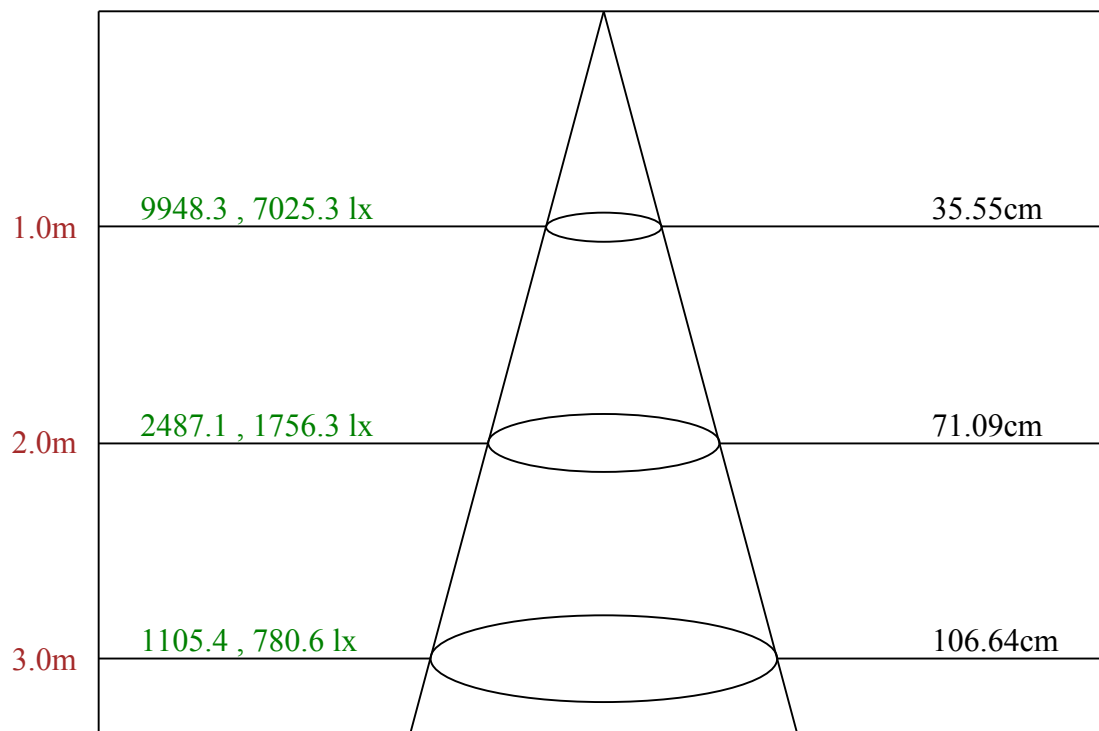
Aveage BeamAngle(IEC 61341):20.16

Equipment: equipamento lumini
Temperature(°C): 26.3

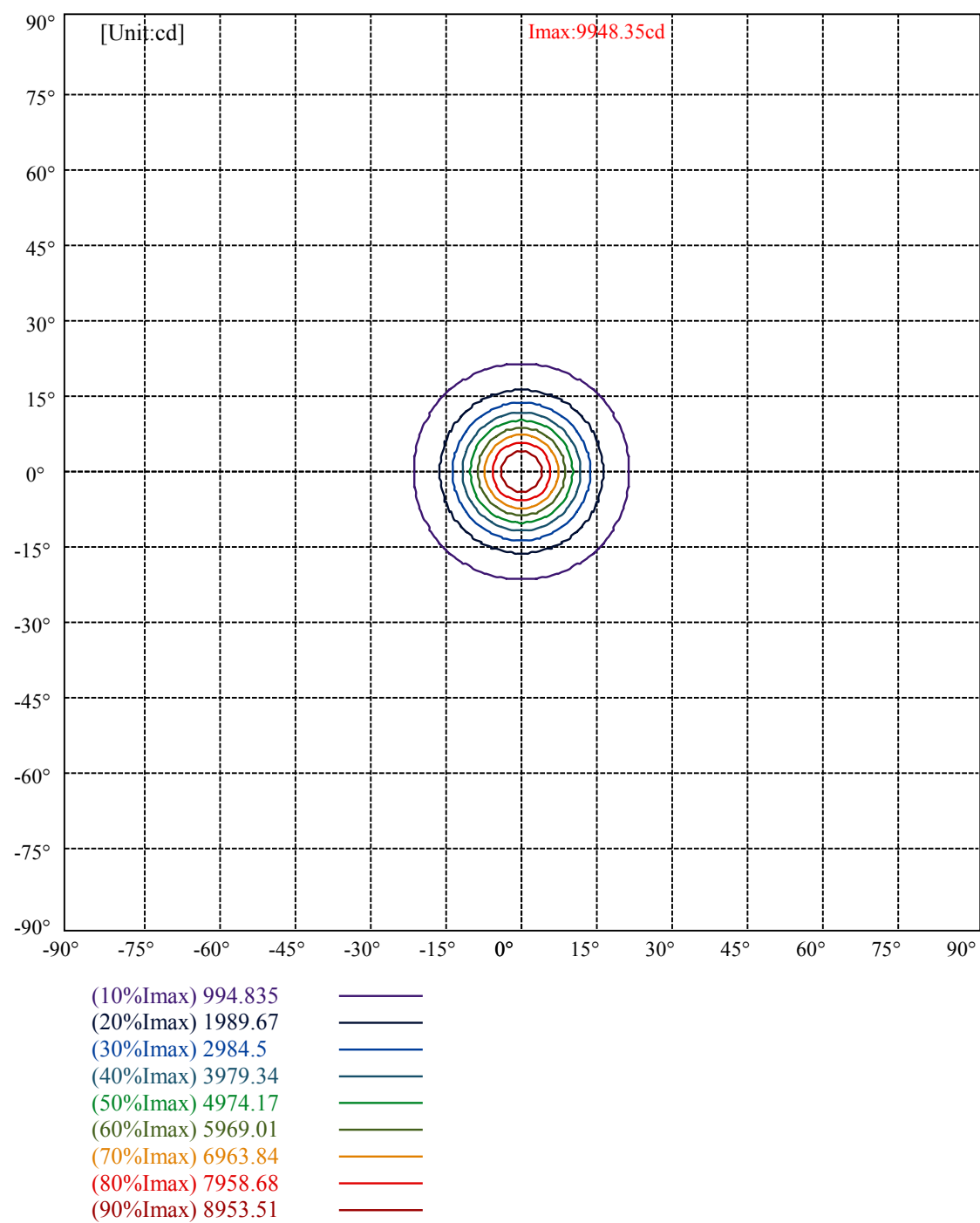
Date: 13/02/2025
Humidity(%): 57.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 20.16



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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	4335	2874	1912	1261	1113	1280	1675	2505	4968
C45	4335	2874	1912	1261	1113	1280	1675	2505	4968
C90	4335	2874	1912	1261	1113	1280	1675	2505	4968

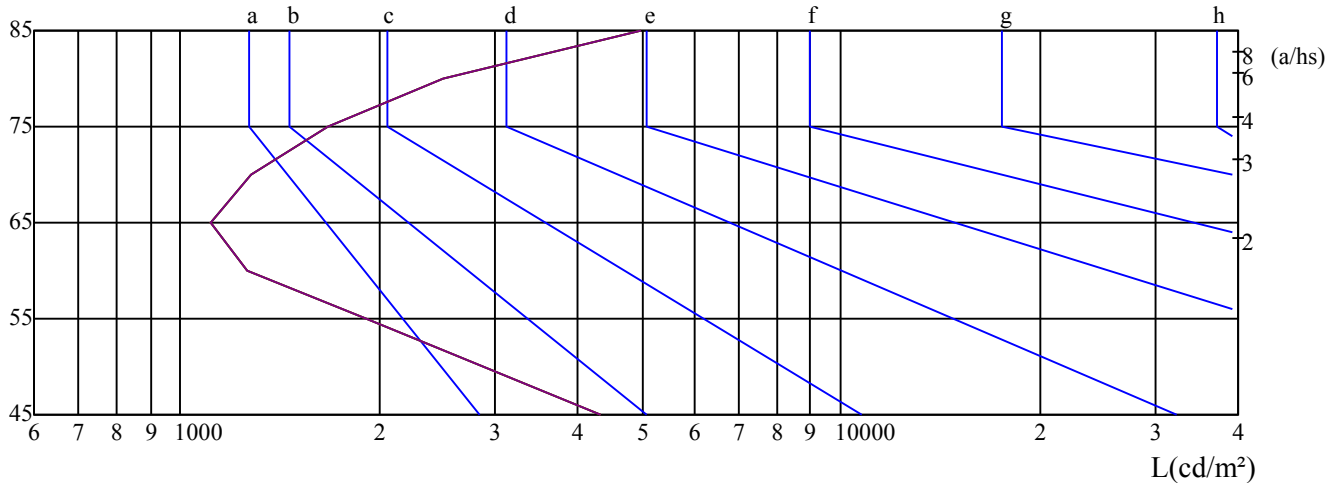
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1113	1113	1113	1675	1675	1675	4968	4968	4968

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): 26.3

Date: 13/02/2025
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	9.09	10.00	9.50	10.36	10.72	9.80	10.71	10.20	11.06	11.43
	3H	9.15	9.96	9.58	10.34	10.74	9.81	10.62	10.24	11.00	11.39
	4H	9.34	10.08	9.78	10.48	10.90	9.95	10.69	10.39	11.09	11.51
	6H	9.78	10.46	10.24	10.88	11.33	10.31	10.99	10.77	11.41	11.86
	8H	10.13	10.78	10.59	11.21	11.66	10.60	11.25	11.06	11.68	12.13
	12H	10.66	11.27	11.12	11.71	12.17	11.06	11.67	11.52	12.11	12.58
4H	2H	8.93	9.68	9.37	10.07	10.49	9.60	10.35	10.04	10.74	11.16
	3H	9.09	9.72	9.55	10.15	10.62	9.69	10.32	10.16	10.75	11.22
	4H	9.47	10.01	9.94	10.47	10.97	10.00	10.54	10.48	11.01	11.50
	6H	10.14	10.62	10.65	11.11	11.61	10.57	11.05	11.08	11.54	12.04
	8H	10.71	11.15	11.23	11.64	12.16	11.07	11.51	11.59	12.01	12.53
	12H	11.50	11.91	12.03	12.40	12.97	11.79	12.20	12.32	12.69	13.25
8H	4H	9.55	9.99	10.07	10.49	11.01	10.05	10.49	10.57	10.98	11.50
	6H	10.50	10.86	11.04	11.37	11.93	10.86	11.22	11.40	11.74	12.30
	8H	11.33	11.63	11.90	12.19	12.73	11.62	11.92	12.19	12.48	13.02
	12H	12.42	12.65	13.00	13.20	13.77	12.63	12.86	13.21	13.41	13.98
12H	4H	9.59	10.00	10.12	10.49	11.06	10.08	10.48	10.60	10.97	11.54
	6H	10.69	10.99	11.26	11.55	12.09	11.03	11.33	11.60	11.89	12.43
	8H	11.60	11.83	12.18	12.38	12.95	11.87	12.09	12.44	12.65	13.21
Variation with the observer position at spacings:											
S = 1.0H		3.6/-3.3					3.6/-3.3				
S = 1.5H		5.0/-2.7					5.0/-2.7				
S = 2.0H		5.9/-2.2					5.9/-2.2				
Standard tables:		BK4					BK4				
Uncorrected UGR		-6.7					-6.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: mini frame darklight 50 serie 2 e fm

LampCAT: modulo led 18W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.0300

Test No:

Current(A): 0.1650

Number of Lamps: 1

Power (W): 20.7490

Lamp flux(lm): 2190.0

PF: 0.9890

Length(mm): 486

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1896.59, Efficiency(%): 86.60% , Luminous Efficacy(lm/W): 91.41

Central intensity(cd): 5899.938, Maximum intensity(cd): 5899.938

Angle of maximum intensity: C=0.0 γ =0.0

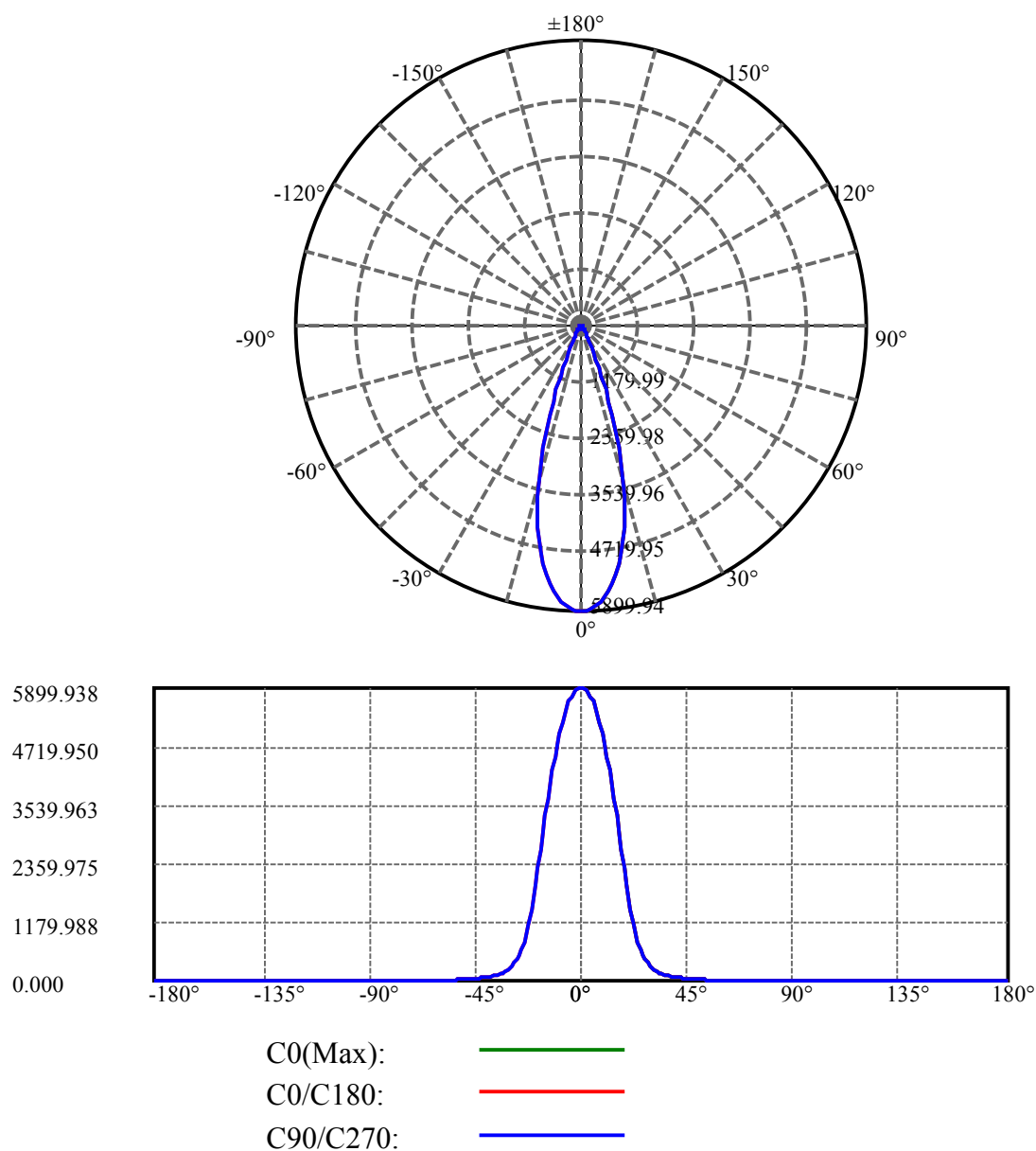
Beam angle of C0 plane : 32.15

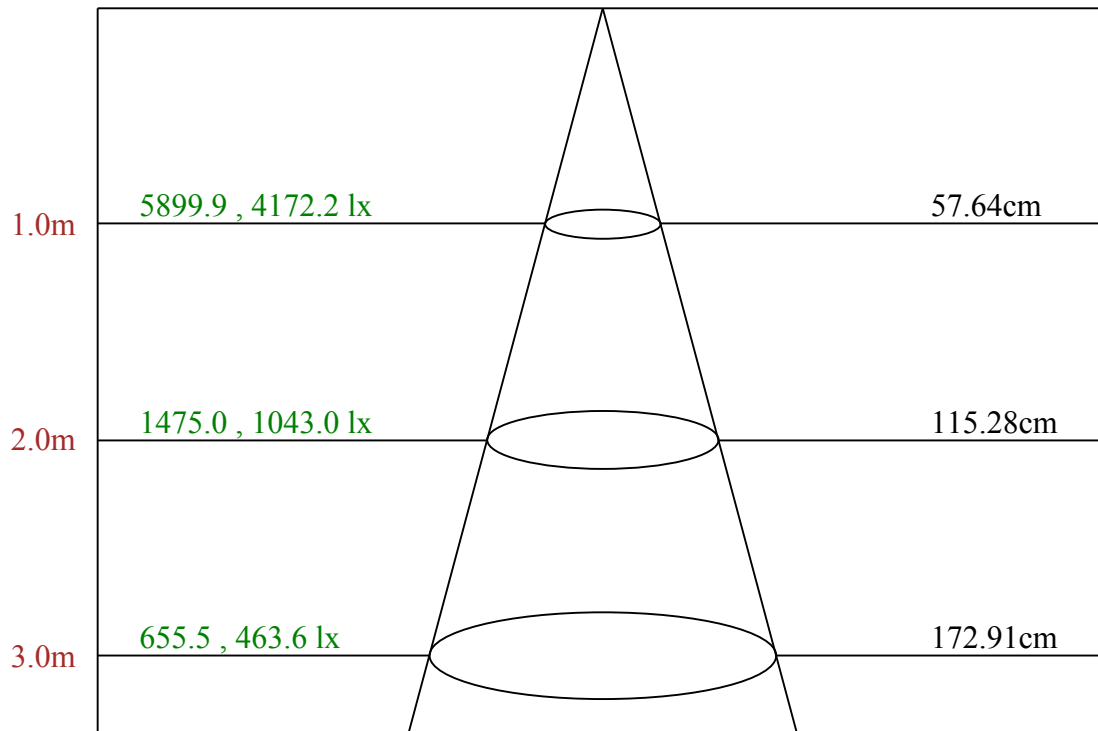
Aveage BeamAngle(IEC 61341):32.15

Equipment: equipamento lumini
Temperature(°C): 25.4

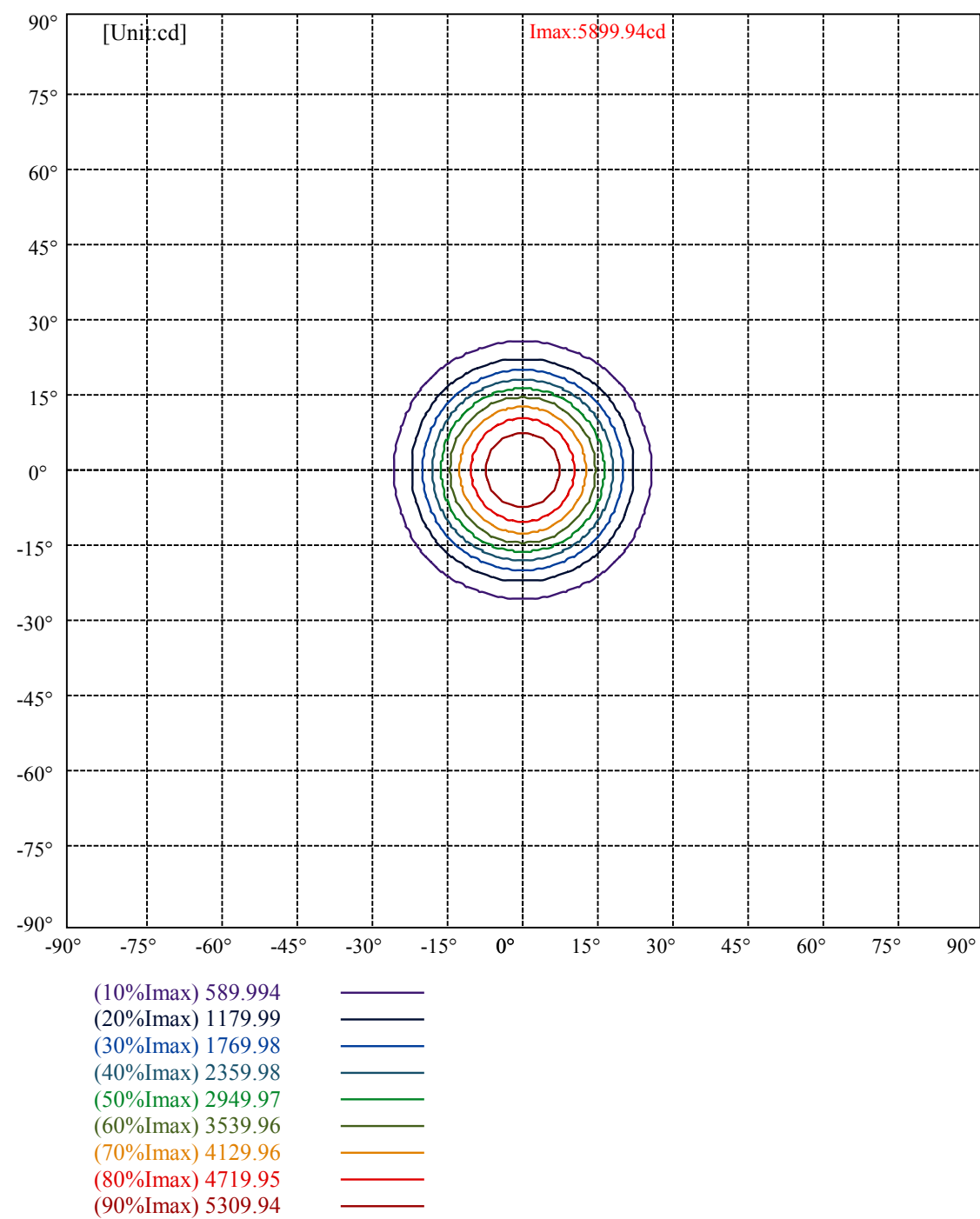
Date: 14/02/2025
Humidity(%): 66.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 32.15



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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	4654	3002	1838	1195	1122	1328	1752	2601	5159
C45	4654	3002	1838	1195	1122	1328	1752	2601	5159
C90	4654	3002	1838	1195	1122	1328	1752	2601	5159

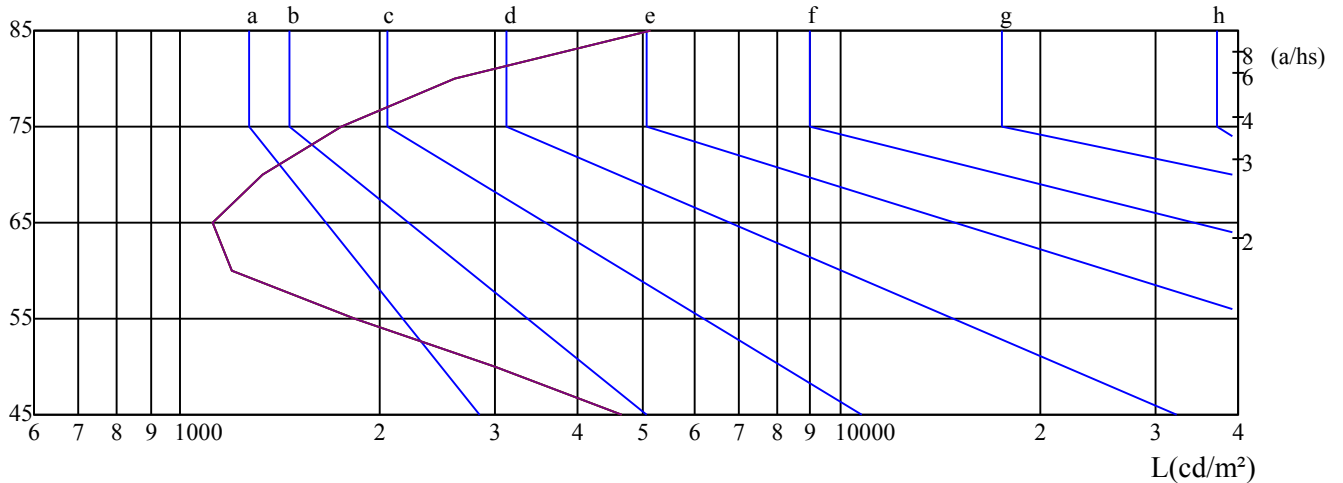
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1122	1122	1122	1752	1752	1752	5159	5159	5159

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): 25.4

Date: 14/02/2025
Humidity(%): 66.0%

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	8.09	9.00	8.49	9.35	9.72	9.47	10.37	9.87	10.73	11.10
	3H	8.25	9.06	8.68	9.44	9.83	9.51	10.32	9.94	10.70	11.09
	4H	8.53	9.28	8.97	9.67	10.09	9.68	10.43	10.12	10.83	11.24
	6H	9.12	9.80	9.58	10.22	10.67	10.10	10.79	10.56	11.20	11.65
	8H	9.56	10.21	10.02	10.64	11.10	10.43	11.08	10.89	11.51	11.97
	12H	10.20	10.82	10.67	11.25	11.72	10.94	11.55	11.40	11.99	12.46
4H	2H	7.94	8.69	8.38	9.08	9.50	9.25	10.00	9.69	10.40	10.81
	3H	8.25	8.87	8.71	9.31	9.77	9.40	10.02	9.86	10.46	10.93
	4H	8.77	9.31	9.24	9.77	10.27	9.77	10.31	10.24	10.77	11.26
	6H	9.63	10.10	10.14	10.59	11.09	10.41	10.89	10.92	11.38	11.88
	8H	10.30	10.74	10.82	11.24	11.76	10.96	11.40	11.48	11.90	12.42
	12H	11.21	11.62	11.74	12.11	12.67	11.74	12.14	12.26	12.63	13.20
8H	4H	8.93	9.37	9.45	9.87	10.39	9.84	10.28	10.36	10.78	11.30
	6H	10.10	10.46	10.64	10.97	11.53	10.76	11.12	11.30	11.63	12.19
	8H	11.05	11.35	11.62	11.91	12.45	11.57	11.87	12.14	12.43	12.98
	12H	12.25	12.48	12.83	13.03	13.60	12.64	12.86	13.21	13.42	13.98
12H	4H	9.00	9.41	9.53	9.90	10.46	9.88	10.29	10.41	10.78	11.34
	6H	10.33	10.63	10.90	11.19	11.73	10.95	11.25	11.52	11.81	12.35
	8H	11.37	11.60	11.94	12.15	12.72	11.84	12.07	12.42	12.62	13.19
Variation with the observer position at spacings:											
S = 1.0H		3.1/-3.1					3.1/-3.1				
S = 1.5H		4.4/-2.5					4.4/-2.5				
S = 2.0H		5.2/-2.1					5.2/-2.1				
Standard tables:		BK4					BK4				
Uncorrected UGR		-6.8					-6.8				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: mini frame darklight 50 serie 2 e fa

LampCAT: modulo led 18W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.0200

Test No:

Current(A): 0.1650

Number of Lamps: 1

Power (W): 20.7810

Lamp flux(lm): 2190.0

PF: 0.9890

Length(mm): 486

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1680.56, Efficiency(%): 76.74% , Luminous Efficacy(lm/W): 80.87

Central intensity(cd): 2020.568, Maximum intensity(cd): 2027.359

Angle of maximum intensity: C=0.0 γ =5.0

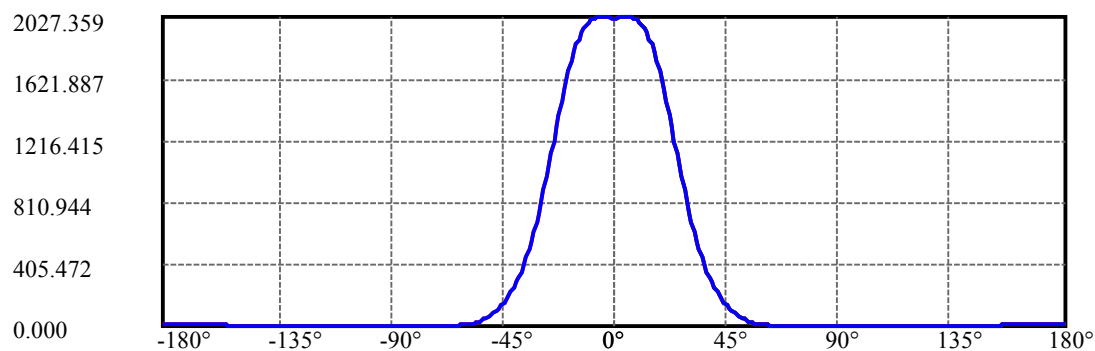
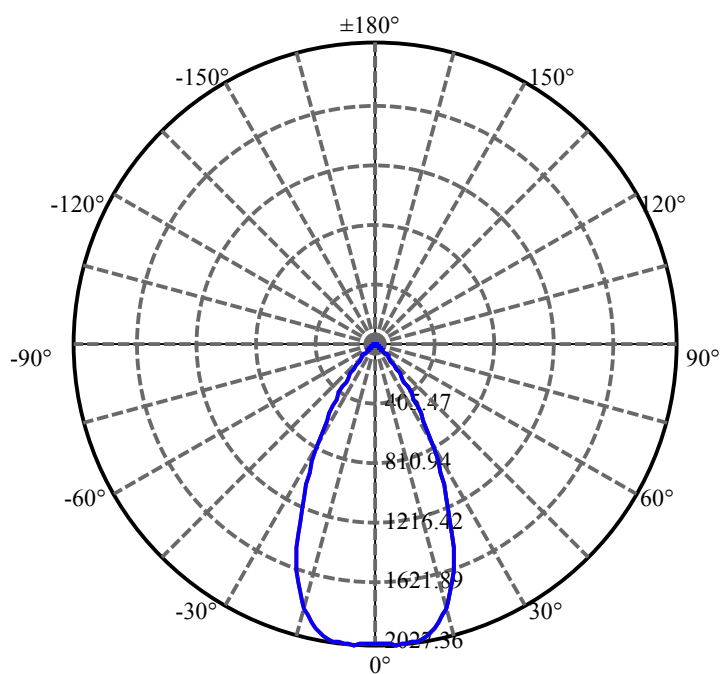
Beam angle of C0 plane : 53.16

Average BeamAngle(IEC 61341): 53.16

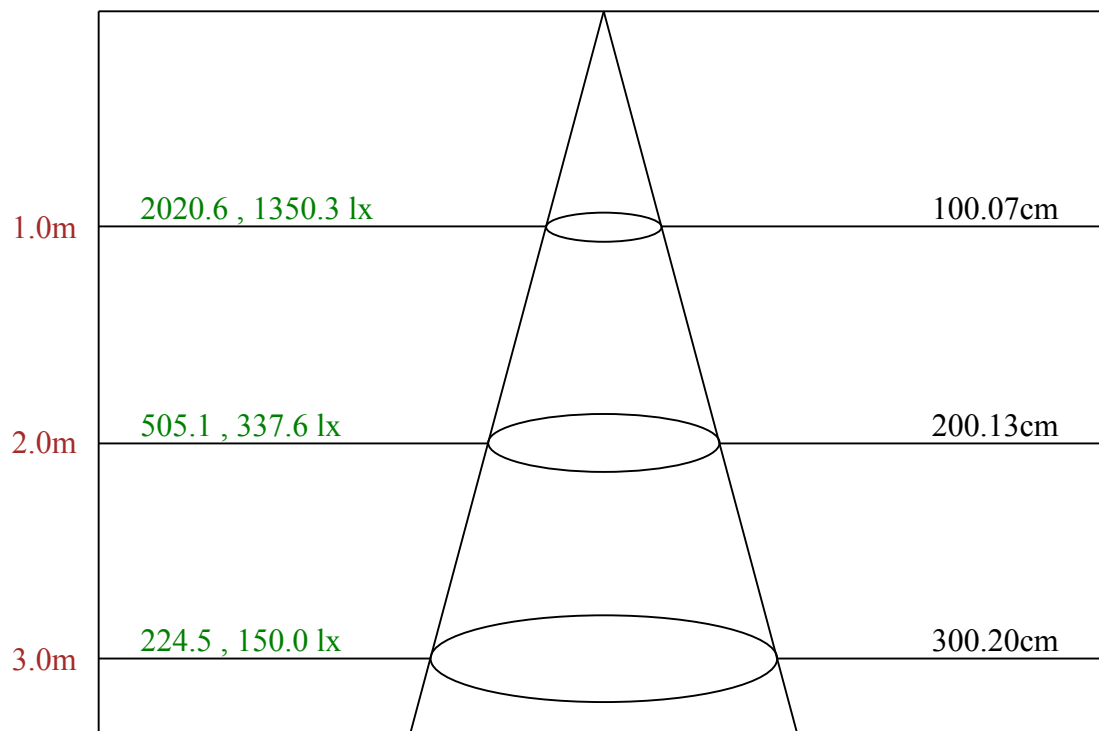
Equipment: equipamento lumini
Temperature(°C): 25.4

Date: 14/02/2025
Humidity(%): 66.0%

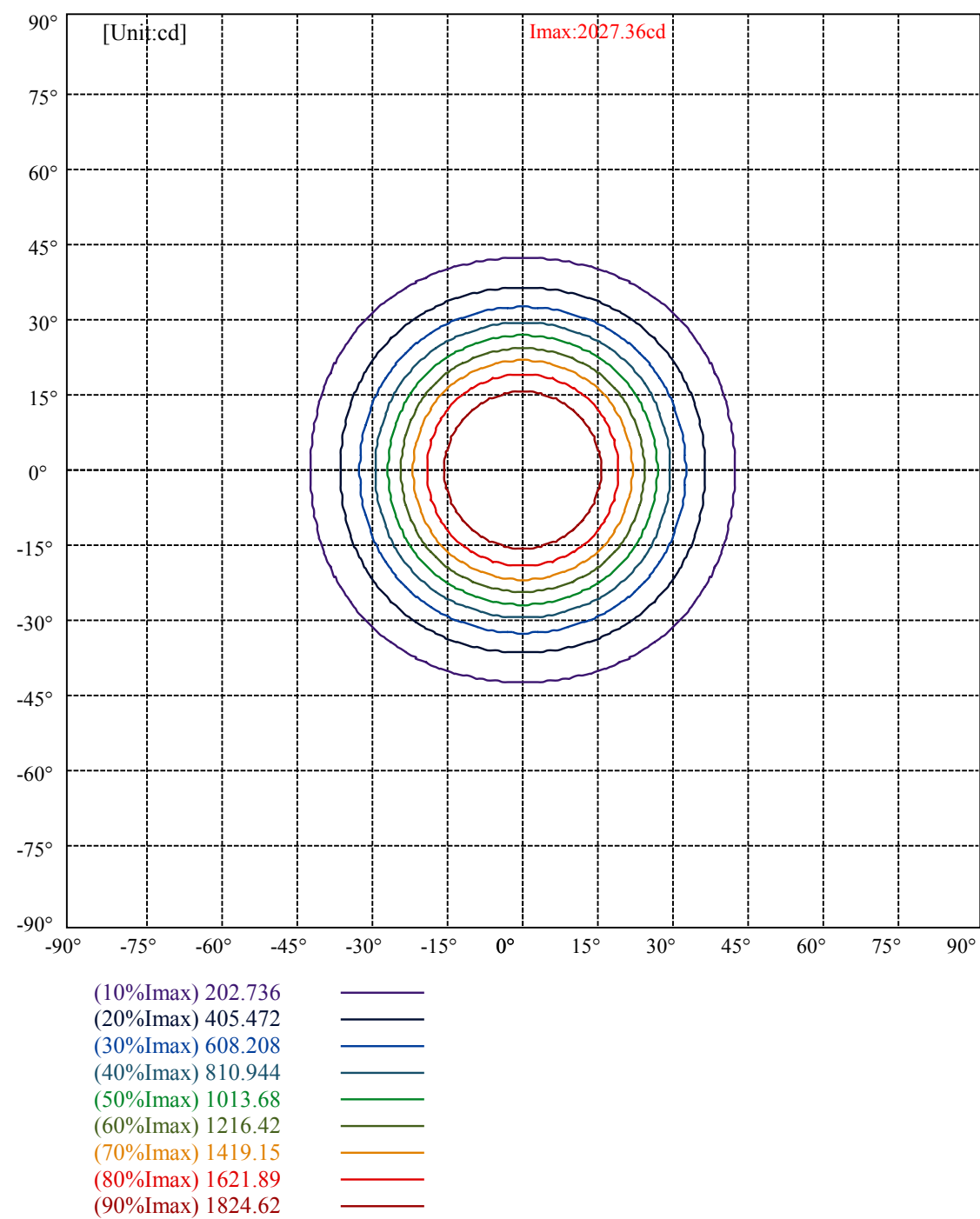
Operator: 01
Distance(m): 6.90



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



Max , Ave Beam angle of C0 plane 53.16



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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	15818	8326	3324	1243	832	951	1255	1862	3715
C45	15818	8326	3324	1243	832	951	1255	1862	3715
C90	15818	8326	3324	1243	832	951	1255	1862	3715

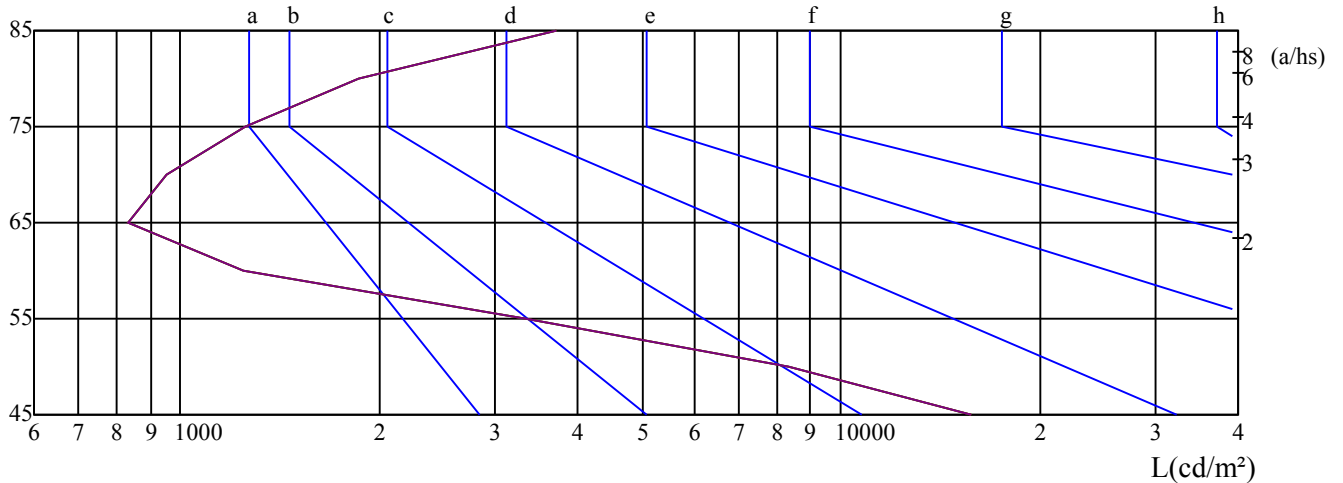
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
832	832	832	1255	1255	1255	3715	3715	3715

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): 25.4

Date: 14/02/2025
Humidity(%): 66.0%

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	18.35	19.33	18.75	19.68	20.05	18.89	19.87	19.28	20.22	20.58
	3H	18.16	19.03	18.58	19.41	19.80	18.69	19.56	19.11	19.94	20.33
	4H	18.07	18.87	18.50	19.27	19.68	18.60	19.40	19.03	19.80	20.21
	6H	18.01	18.74	18.46	19.16	19.60	18.54	19.27	18.99	19.68	20.12
	8H	17.96	18.66	18.41	19.08	19.53	18.48	19.18	18.93	19.60	20.05
	12H	17.93	18.59	18.39	19.02	19.48	18.44	19.11	18.90	19.54	20.00
4H	2H	18.07	18.88	18.51	19.27	19.68	18.60	19.41	19.04	19.80	20.21
	3H	17.85	18.52	18.31	18.95	19.41	18.37	19.04	18.83	19.47	19.93
	4H	17.80	18.38	18.27	18.83	19.32	18.32	18.90	18.79	19.35	19.84
	6H	17.70	18.21	18.21	18.70	19.19	18.22	18.73	18.72	19.21	19.71
	8H	17.69	18.16	18.21	18.65	19.17	18.20	18.67	18.71	19.16	19.67
	12H	17.71	18.15	18.23	18.63	19.19	18.21	18.64	18.73	19.13	19.69
8H	4H	17.61	18.08	18.13	18.57	19.09	18.13	18.60	18.64	19.09	19.61
	6H	17.53	17.91	18.06	18.42	18.98	18.03	18.42	18.57	18.93	19.48
	8H	17.58	17.91	18.15	18.46	19.00	18.08	18.41	18.64	18.96	19.50
	12H	17.66	17.91	18.23	18.46	19.02	18.13	18.39	18.71	18.94	19.50
12H	4H	17.56	18.00	18.08	18.48	19.04	18.08	18.52	18.60	19.00	19.56
	6H	17.52	17.85	18.09	18.40	18.94	18.03	18.36	18.59	18.91	19.45
	8H	17.56	17.81	18.13	18.36	18.92	18.05	18.31	18.62	18.85	19.41
Variation with the observer position at spacings:											
S = 1.0H		4.0/-8.9					4.0/-8.9				
S = 1.5H		6.6/-10.6					6.6/-10.6				
S = 2.0H		8.5/-9.2					8.5/-9.2				
Standard tables:		BK0					BK0				
Uncorrected UGR		-1.6					-1.6				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



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LumCAT:

Luminaire: mini frame darklight 50 serie 2 e fc

LampCAT: modulo led 36W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.3070

Number of Lamps: 1

Power (W): 38.6990

Lamp flux(lm): 3870.0

PF: 0.9940

Length(mm): 320

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3189.35, Efficiency(%): 82.41% , Luminous Efficacy(lm/W): 82.41

Central intensity(cd): 17678.390, Maximum intensity(cd): 17678.390

Angle of maximum intensity: C=0.0 γ =0.0

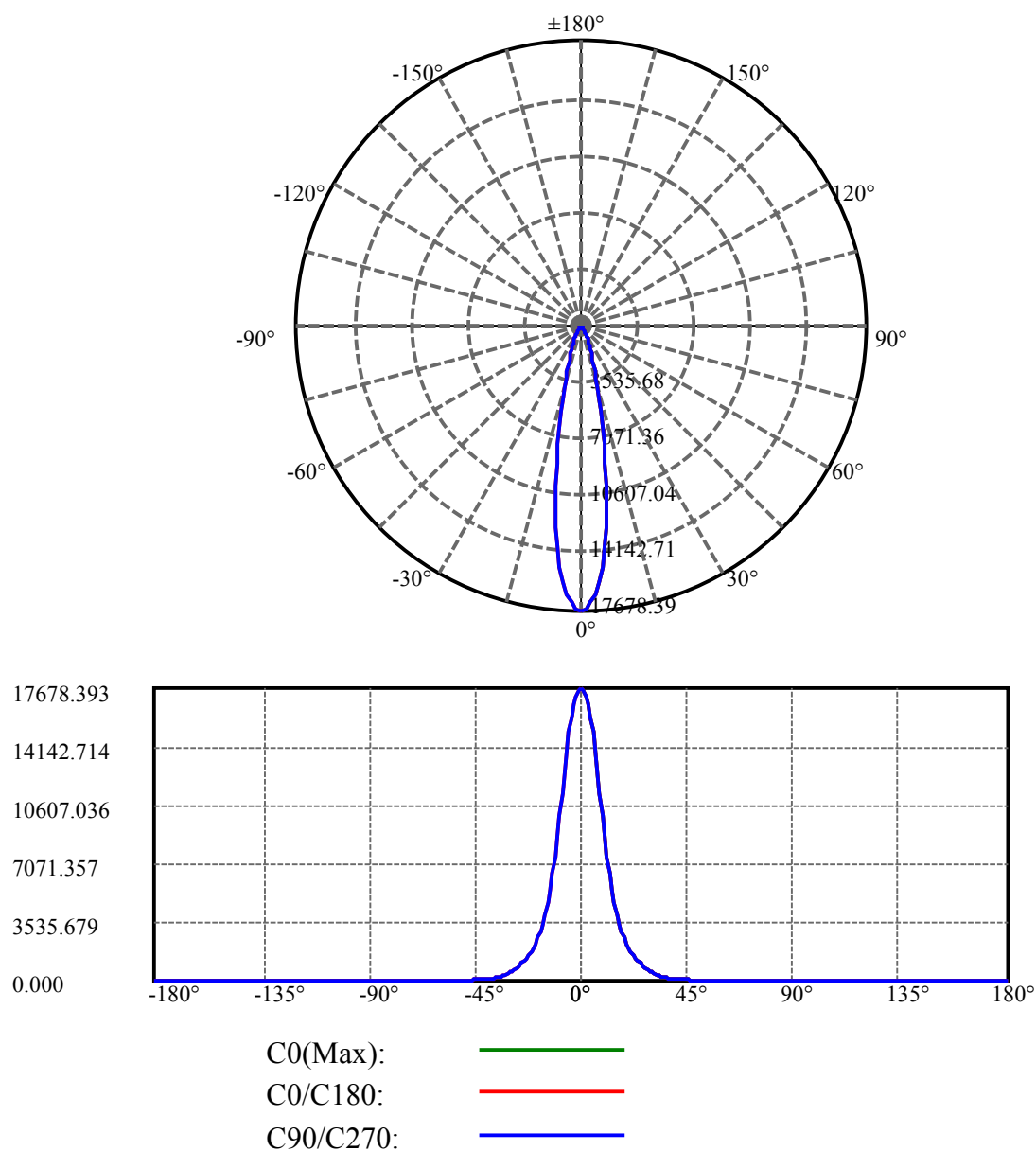
Beam angle of C0 plane : 19.83

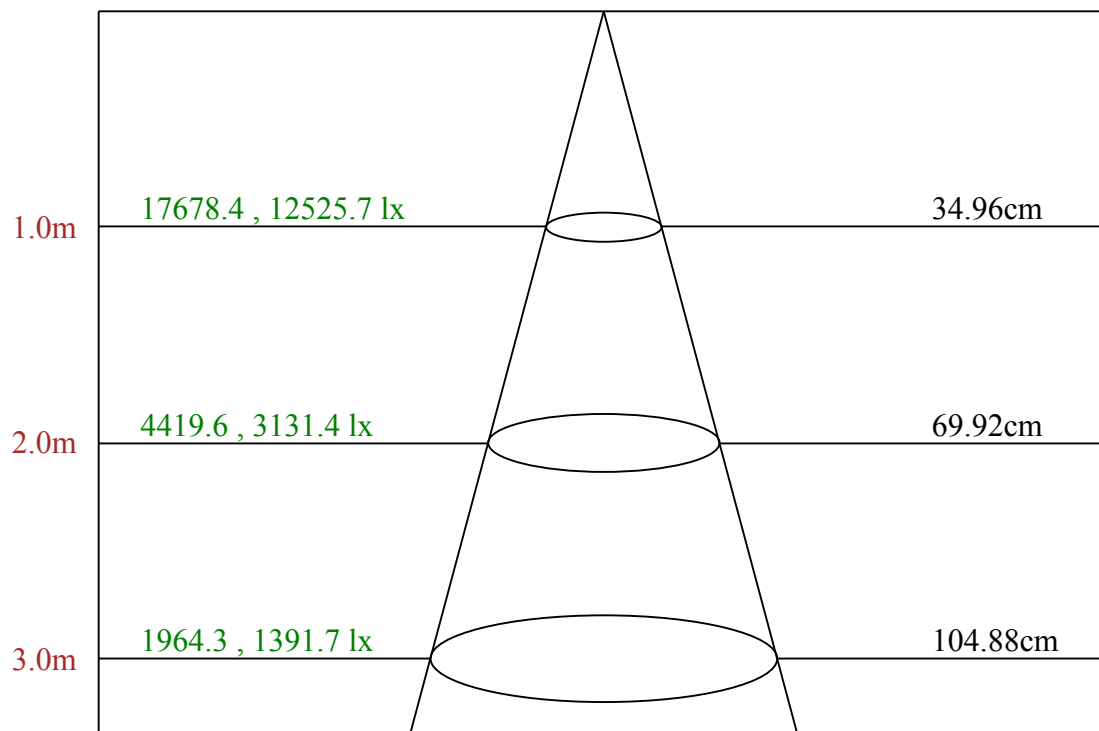
Aveage BeamAngle(IEC 61341):19.83

Equipment: equipamento lumini
Temperature(°C): 27.2

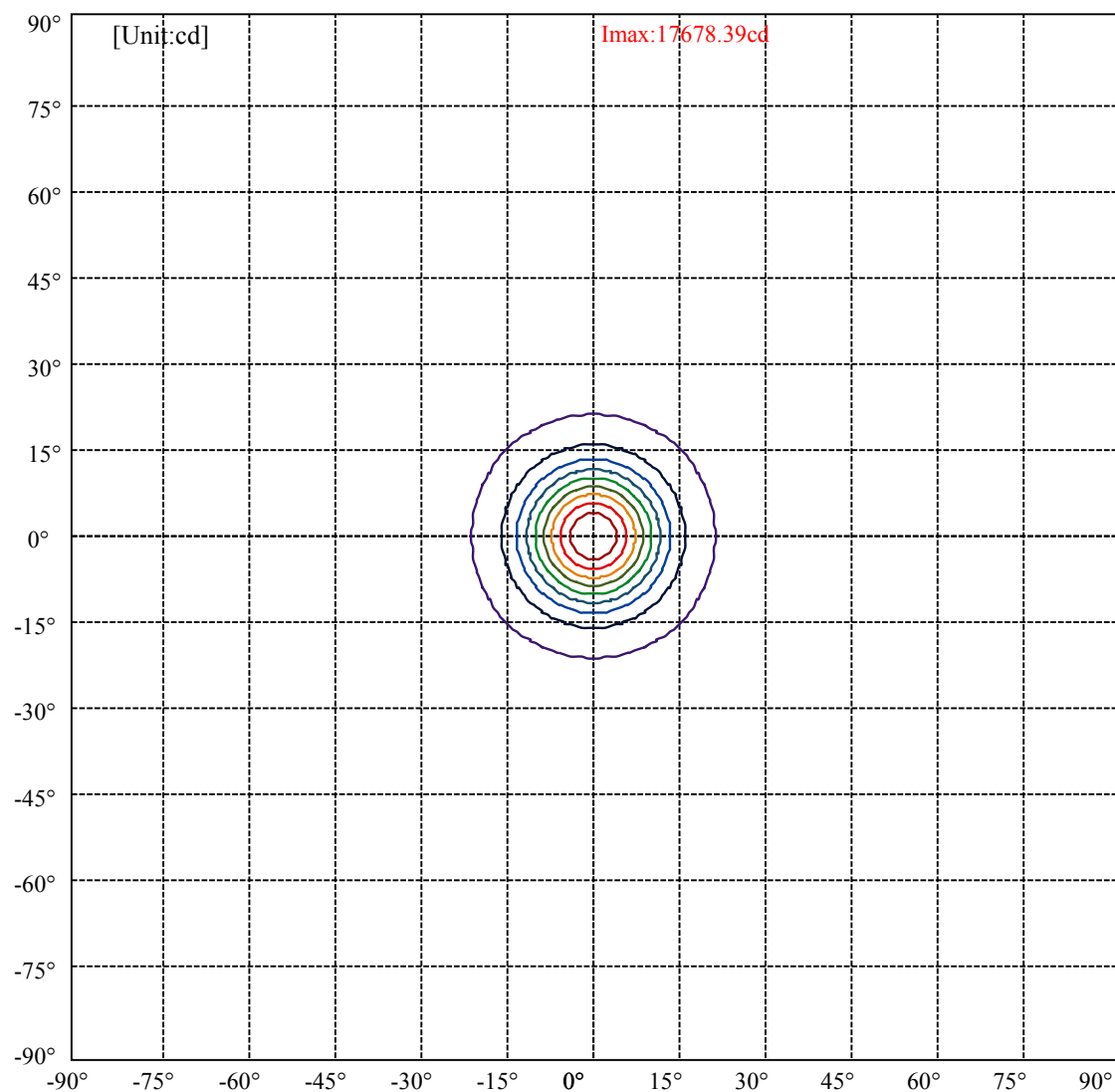
Date: 20/02/2025
Humidity(%): 59.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 19.83



(10%Imax)	1767.84	—
(20%Imax)	3535.68	—
(30%Imax)	5303.52	—
(40%Imax)	7071.36	—
(50%Imax)	8839.2	—
(60%Imax)	10607	—
(70%Imax)	12374.9	—
(80%Imax)	14142.7	—
(90%Imax)	15910.6	—

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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	10695	6988	4491	3206	2832	3363	4400	6550	13034
C45	10695	6988	4491	3206	2832	3363	4400	6550	13034
C90	10695	6988	4491	3206	2832	3363	4400	6550	13034

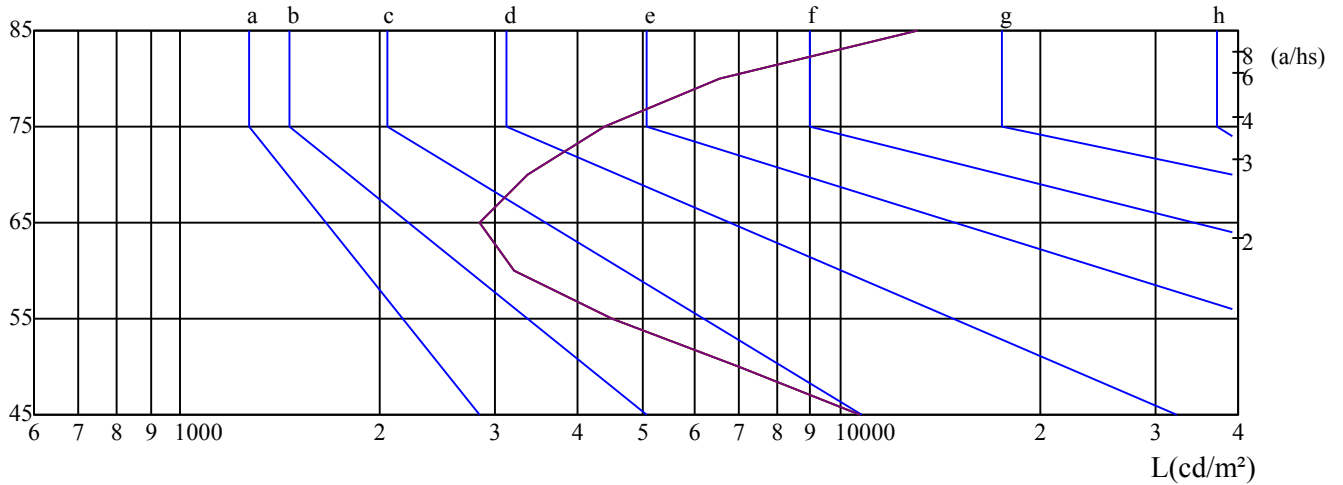
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2832	2832	2832	4400	4400	4400	13034	13034	13034

Glare Table

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

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 27.2

Date: 20/02/2025
Humidity(%): 59.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: mini frame darklight 50 serie 2 e fm

LampCAT: modulo led 36W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.0100

Test No:

Current(A): 0.3070

Number of Lamps: 1

Power (W): 38.7280

Lamp flux(lm): 3870.0

PF: 0.9940

Length(mm): 320

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3206.07, Efficiency(%): 82.84% , Luminous Efficacy(lm/W): 82.78

Central intensity(cd): 14734.720, Maximum intensity(cd): 14734.720

Angle of maximum intensity: C=0.0 γ =0.0

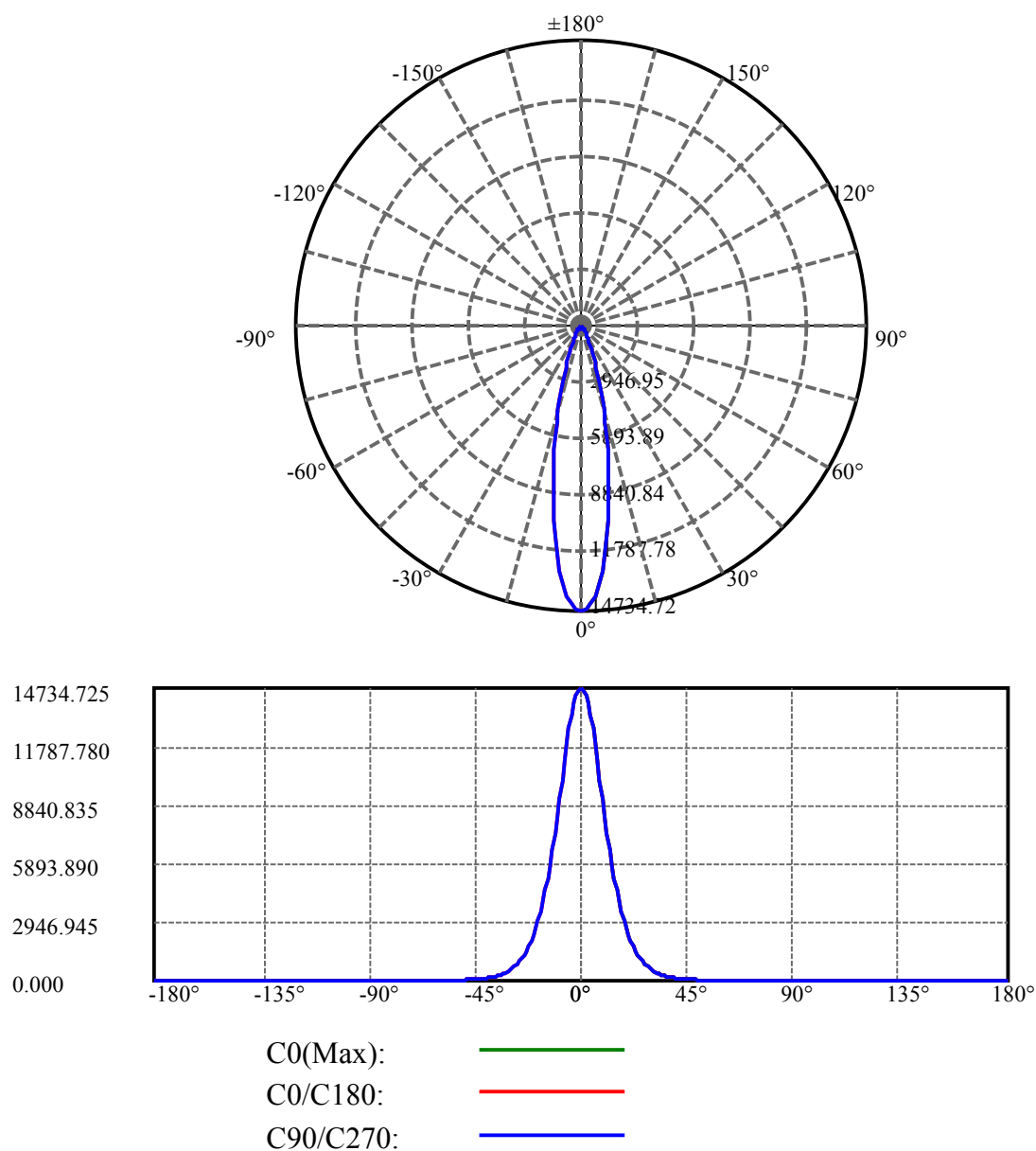
Beam angle of C0 plane : 22.04

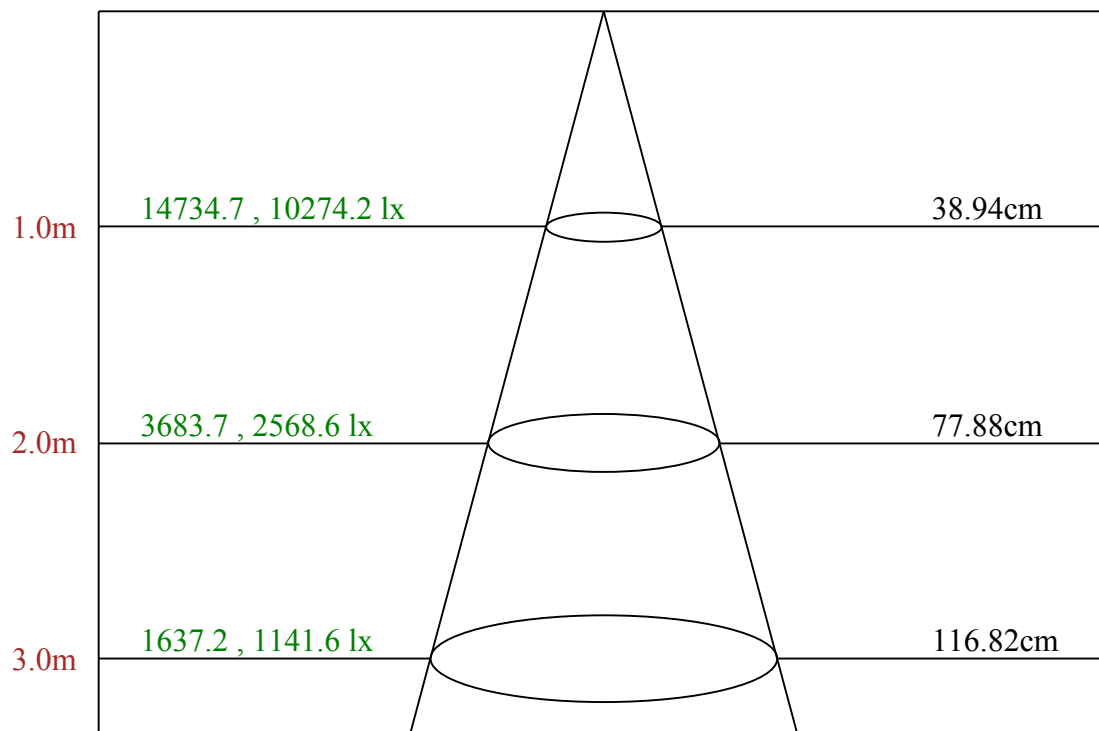
Aveage BeamAngle(IEC 61341):22.04

Equipment: equipamento lumini
Temperature(°C): 27.2

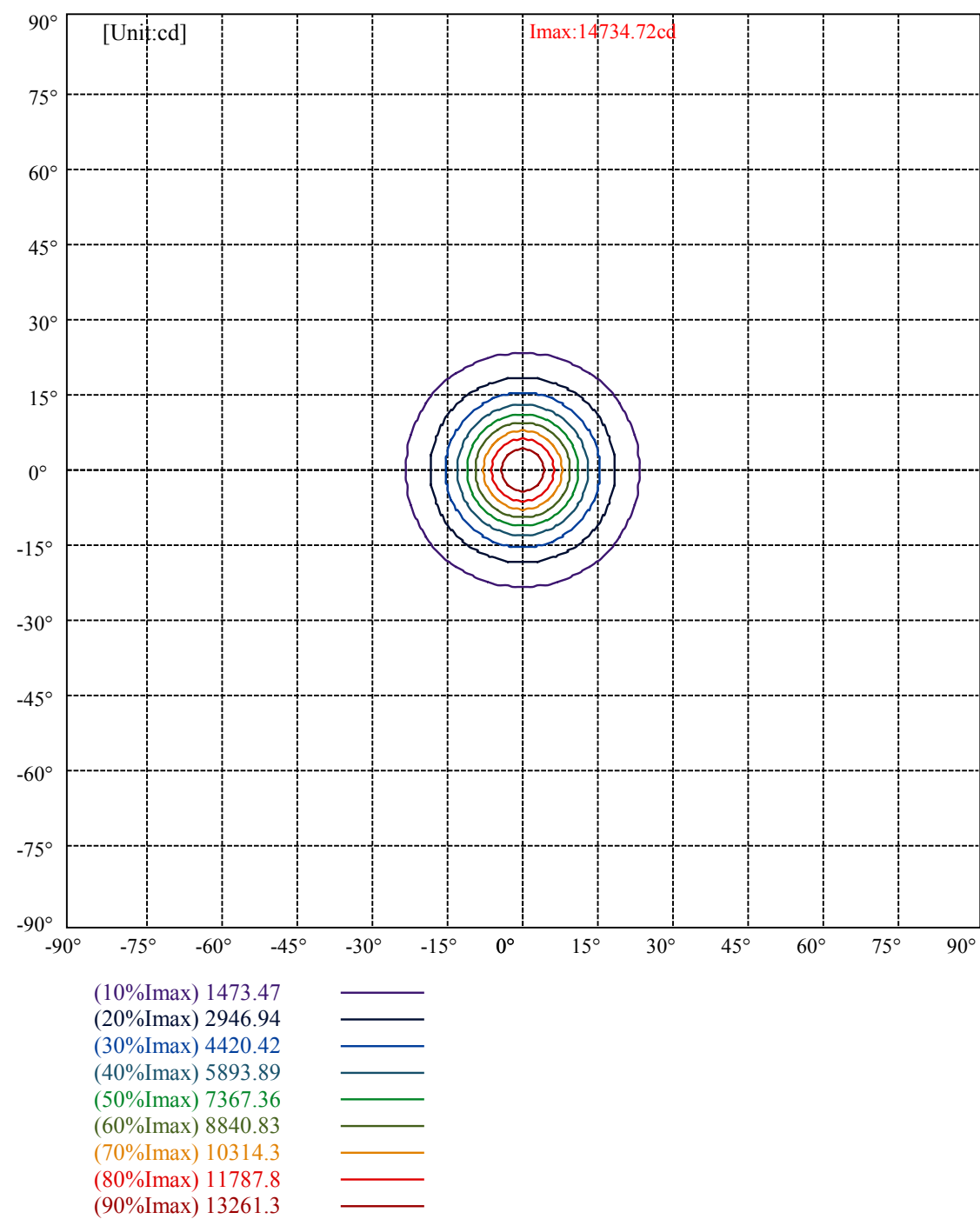
Date: 19/02/2025
Humidity(%): 59.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 22.04



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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	12208	7858	4792	3270	2880	3378	4446	6619	13162
C45	12208	7858	4792	3270	2880	3378	4446	6619	13162
C90	12208	7858	4792	3270	2880	3378	4446	6619	13162

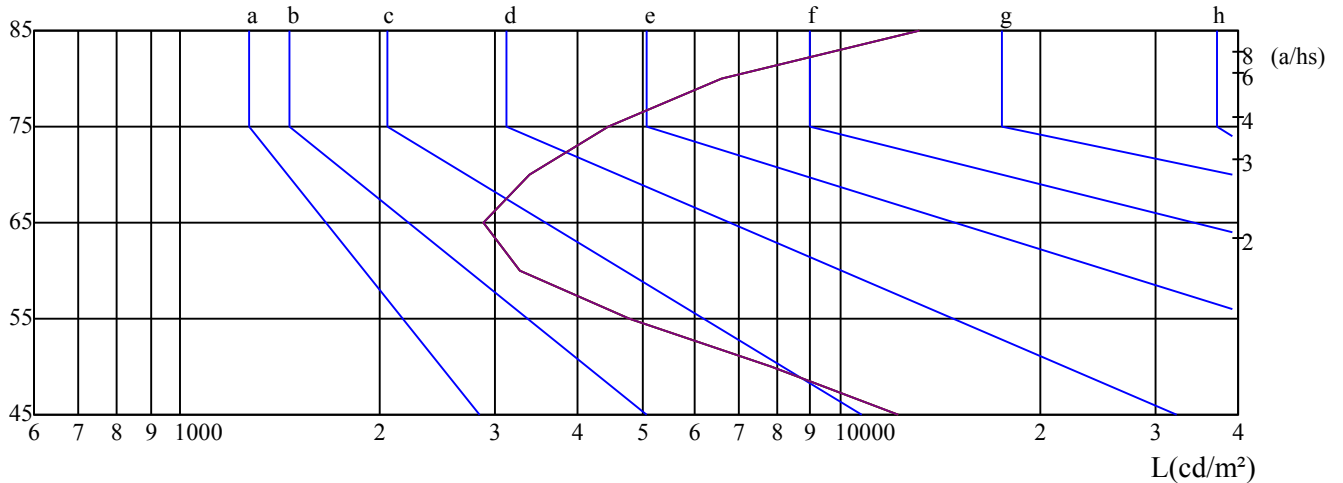
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2880	2880	2880	4446	4446	4446	13162	13162	13162

Glare Table

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

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 —

C45 —

C90 —

Equipment: equipamento lumini
Temperature($^{\circ}$ C): 27.2

Date: 19/02/2025
Humidity(%): 59.0%

Operator: 01
Distance(m): 6.90



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LumCAT:

Luminaire: mini frame darklight 50 serie 2 e fa

LampCAT: modulo led 36W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.3060

Number of Lamps: 1

Power (W): 38.6320

Lamp flux(lm): 3870.0

PF: 0.9940

Length(mm): 320

Width(mm): 25

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2798.68, Efficiency(%): 72.32% , Luminous Efficacy(lm/W): 72.44

Central intensity(cd): 3338.913, Maximum intensity(cd): 3353.339

Angle of maximum intensity: C=0.0 γ =6.0

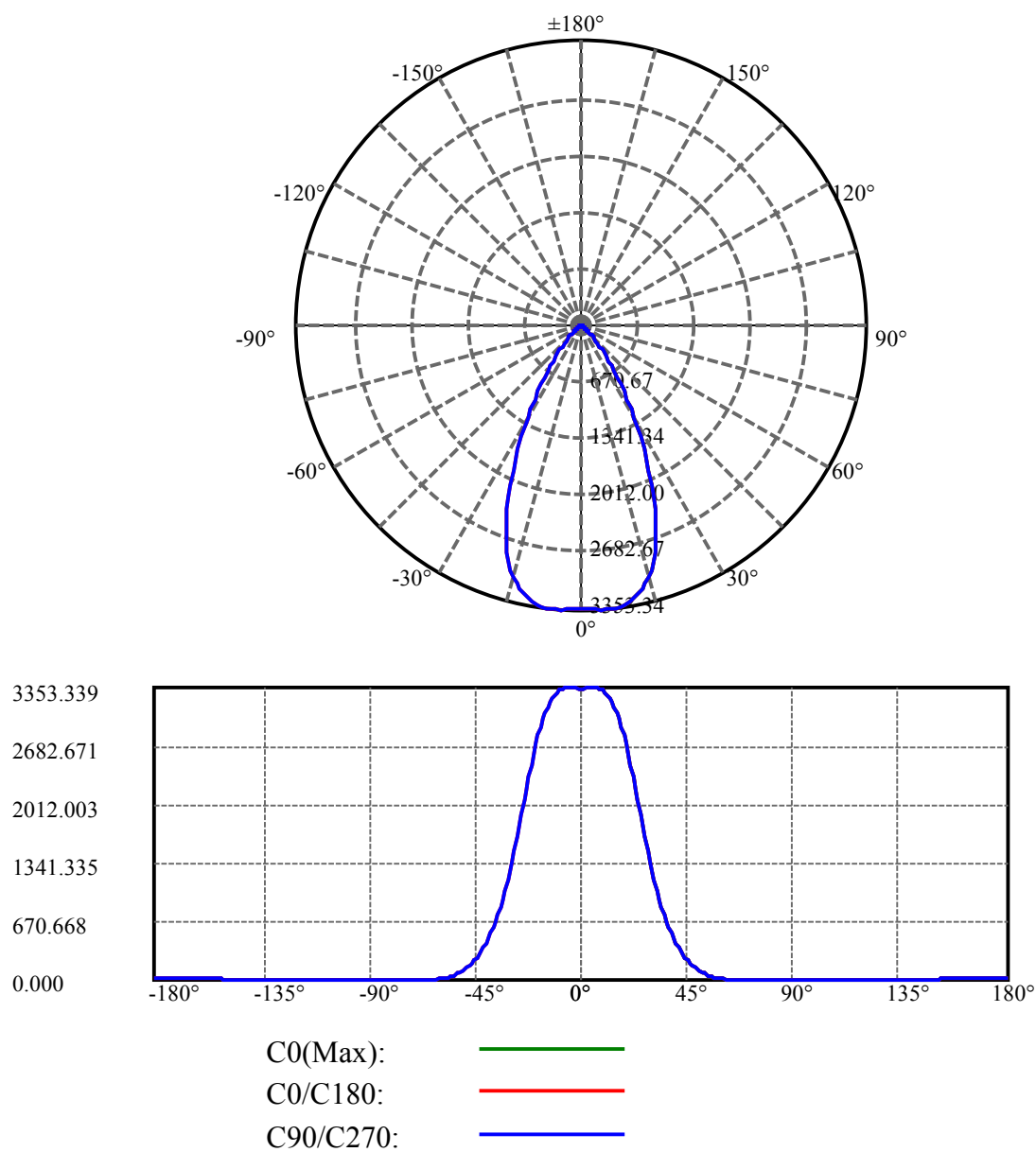
Beam angle of C0 plane : 53.48

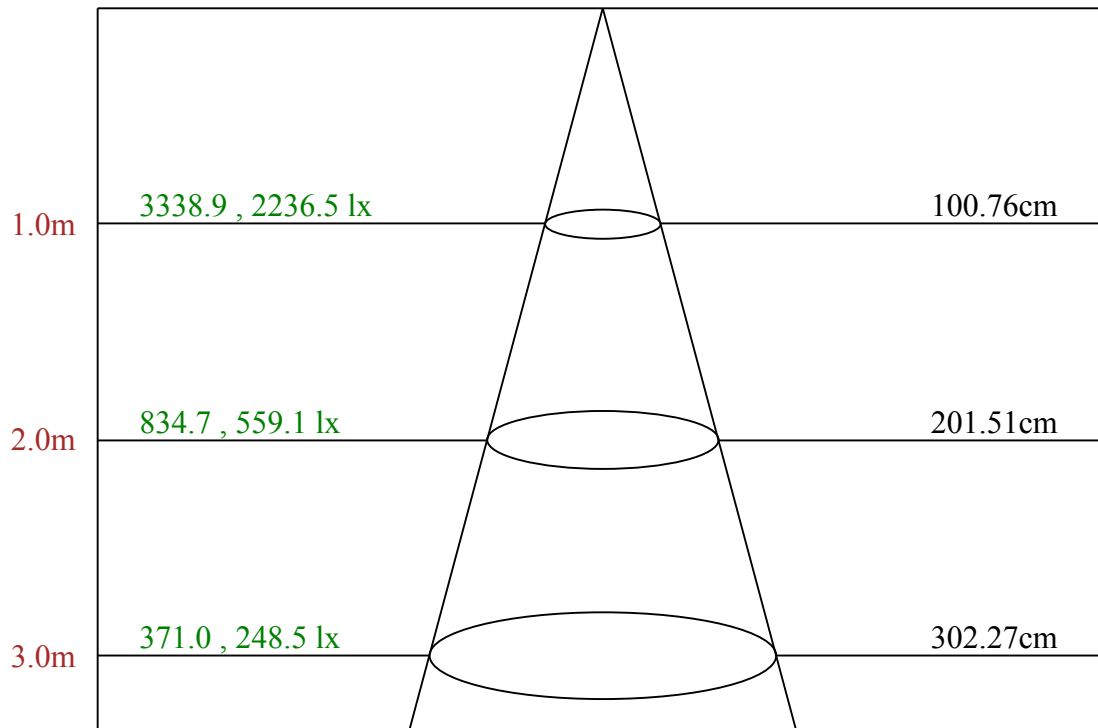
Aveage BeamAngle(IEC 61341):53.48

Equipment: equipamento lumini
Temperature(°C): 27.2

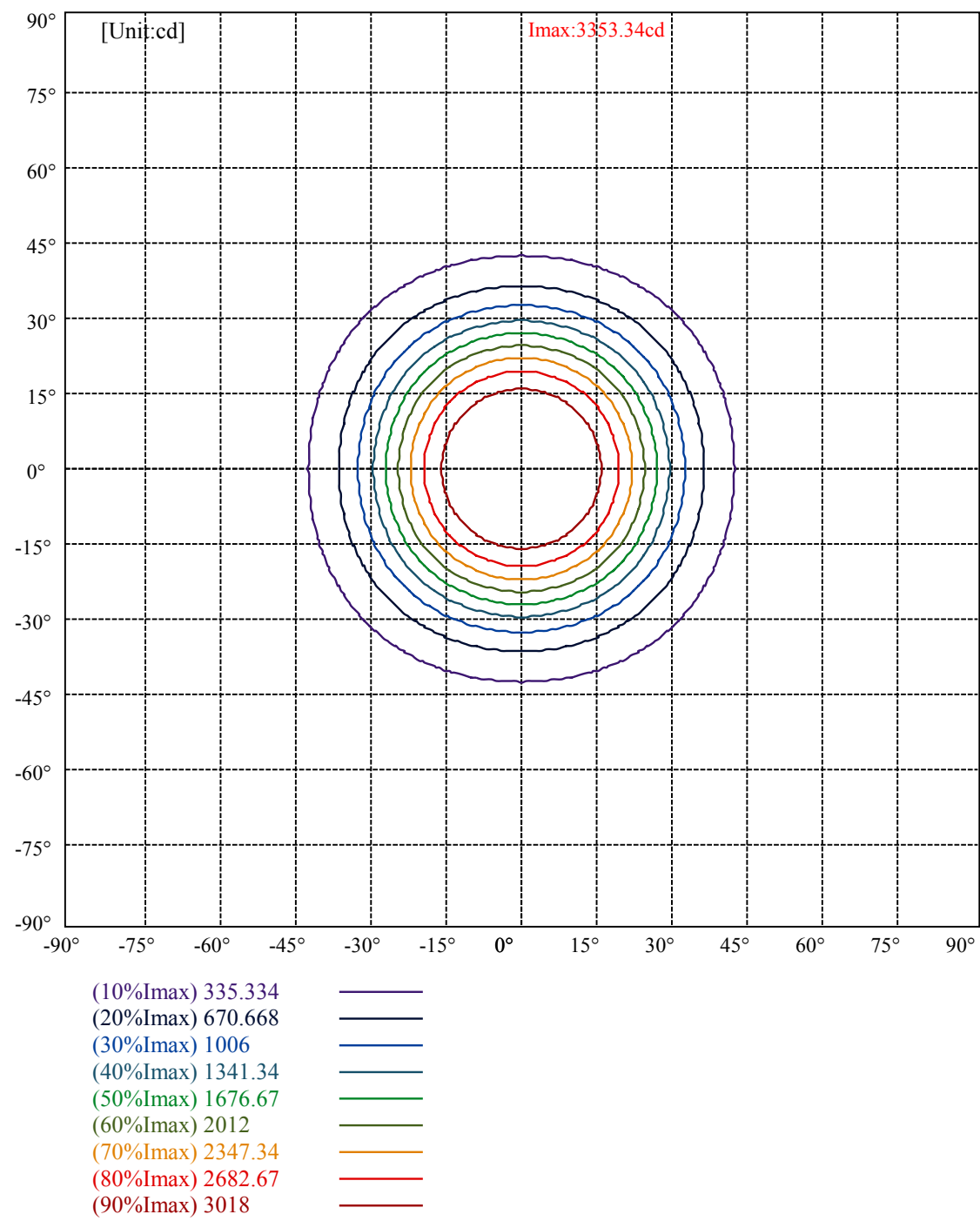
Date: 19/02/2025
Humidity(%): 59.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 53.48



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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	39124	20868	8140	3108	2091	2490	3271	4879	9688
C45	39124	20868	8140	3108	2091	2490	3271	4879	9688
C90	39124	20868	8140	3108	2091	2490	3271	4879	9688

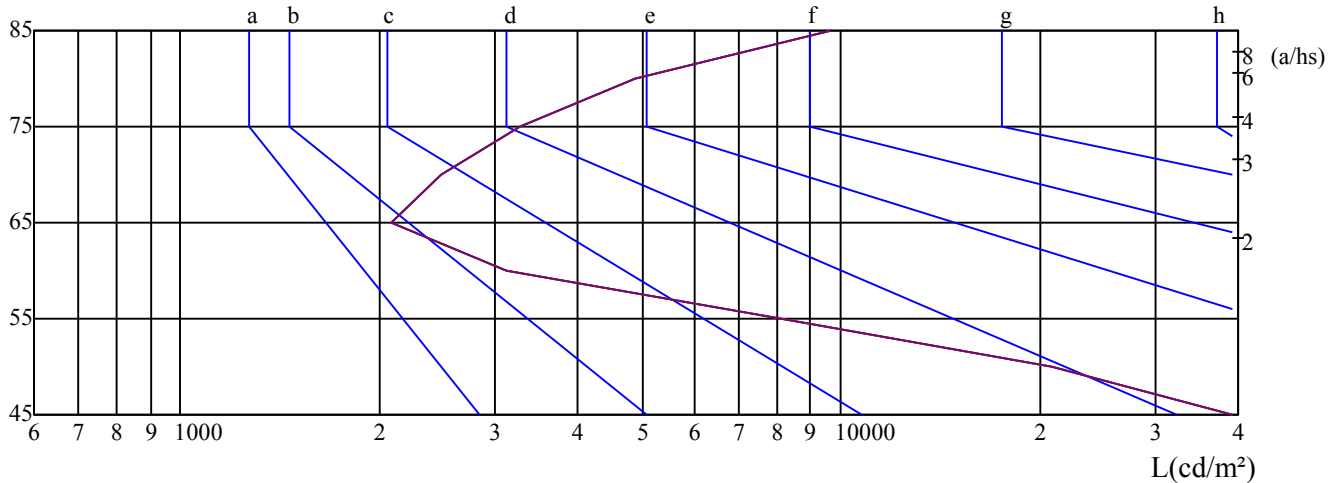
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2091	2091	2091	3271	3271	3271	9688	9688	9688

Glare Table

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

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

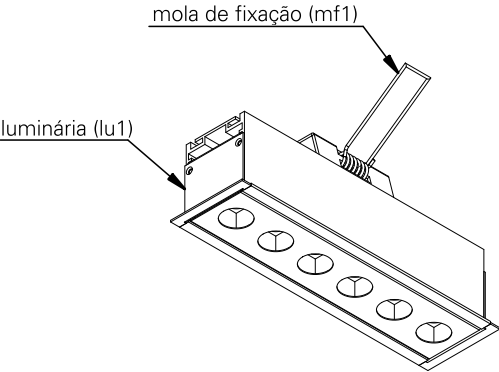
Equipment: equipamento lumini
Temperature($^{\circ}$ C): 27.2

Date: 19/02/2025
Humidity(%): 59.0%

Operator: 01
Distance(m): 6.90

mini frame

xmc mini frame led concentra 8 serie 2
mini frame darklight 8 serie 2 e
mini frame darklight 17 serie 3 e
mini frame darklight 34 serie 2 e
mini frame darklight 50 serie 2 e



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

xmc mini frame led concentra 8 serie 2 - 0,3 kg
mini frame darklight 8 serie 2 e - 0,3 kg
mini frame darklight 17 serie 3 e - 0,5 kg
mini frame darklight 34 serie 2 - 0,9 kg
mini frame darklight 50 serie 2 - 1,2 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 tico tico

informações importantes

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

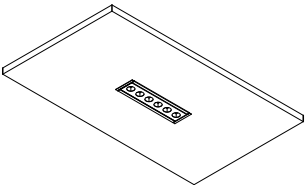
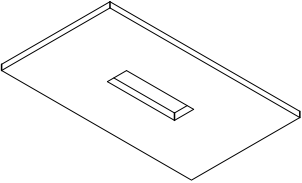
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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

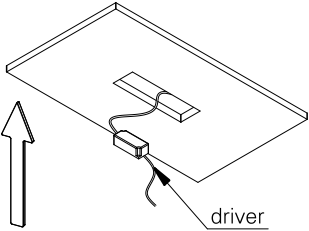
instalação passo a passo



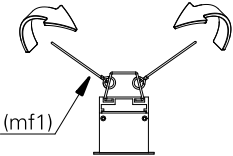
1. faça um nicho no forro conforme a tabela abaixo:
xmc mini frame led concentra 8 s2 - nicho = 91x41
mini frame darklight 8 serie 2 e - nicho = 91x41
mini frame darklight 17 serie 3 e - nicho = 173x41
mini frame darklight 34 serie 2 e - nicho = 332x41
mini frame darklight 50 serie 2 e - nicho = 494x41



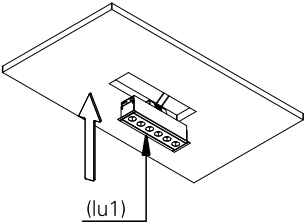
2. aloje o driver sobre o forro.
faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.



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



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



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