

eye r

linha de luminárias embutidas para tecnologia led, para áreas internas ou externas. possui opções de fecho difuso aberto, médio e concentrado

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
9	m	2700	325	188
9	a	2700	325	194
9	d	2700	325	10
4 (12V)	m	2700	311	187
4 (12V)	a	2700	311	203
4 (12V)	d	2700	311	10

equipamentos

LED driver 350mA (incluso, dentro do produto)
LED line driver 12V (incluso, ponto remoto)

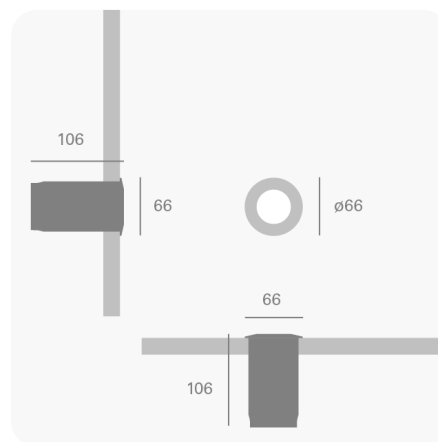
controle
on/off
dim fphase (12V)

instalação

alvenaria
concreto
drywall
deck

IP
65

dimensões



acabamentos e cores

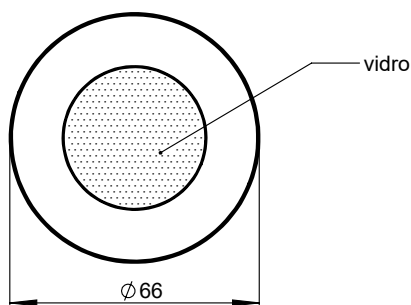
cores





vista frontal

dimensões em milímetros



eye r

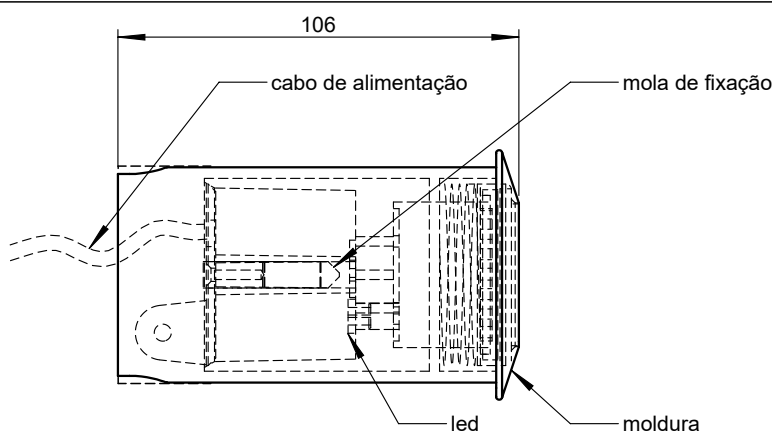
folha
1/1

escala
1:2

data
23/04/2025

vista lateral

dimensões em milímetros



desenhista
joao ferreira

aprovação
edmilson

revisões

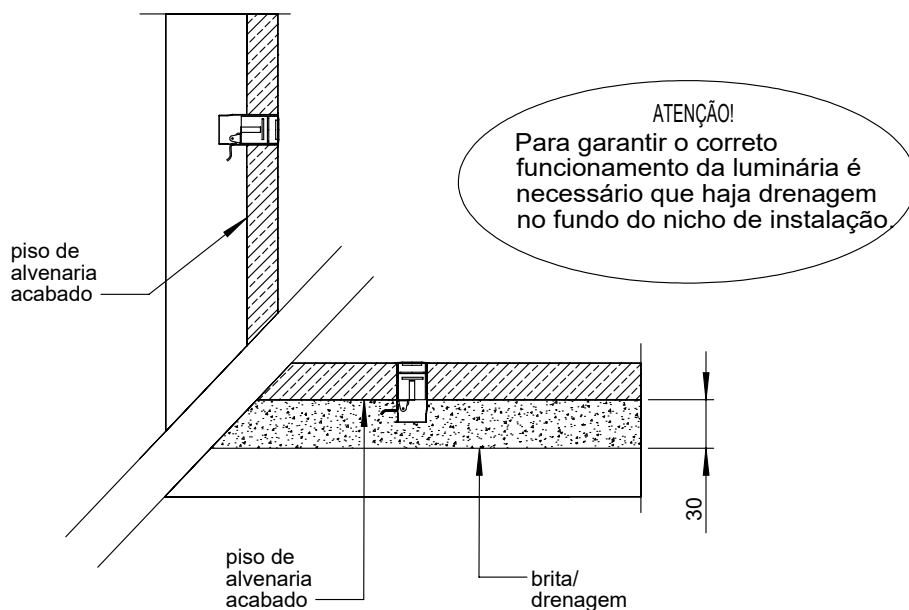
24/04/2025

instalação

dimensões em milímetros



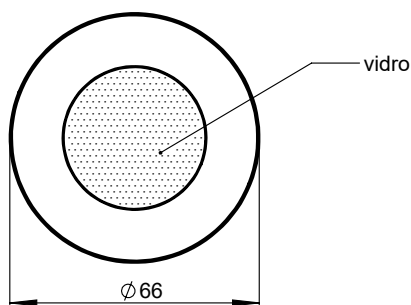
nicho = Ø60 x 106mm



para maiores informações,
consulte a área técnica
produto@lumini.com.br

vista frontal

dimensões em milímetros



eye r difusa

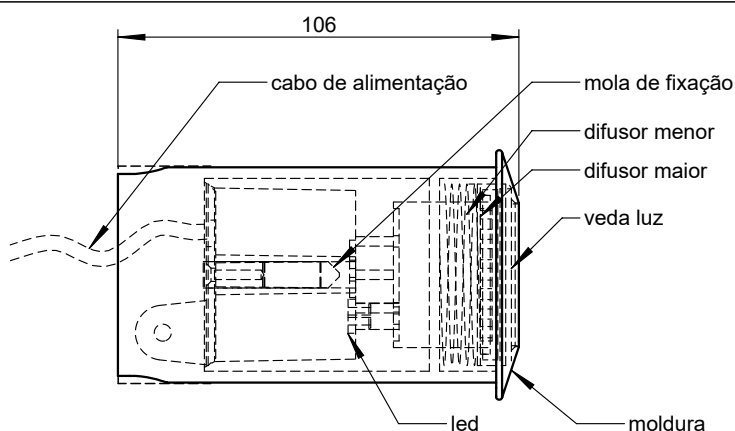
folha
1/1

escala
1:2

data
23/04/2025

vista lateral

dimensões em milímetros



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revisões

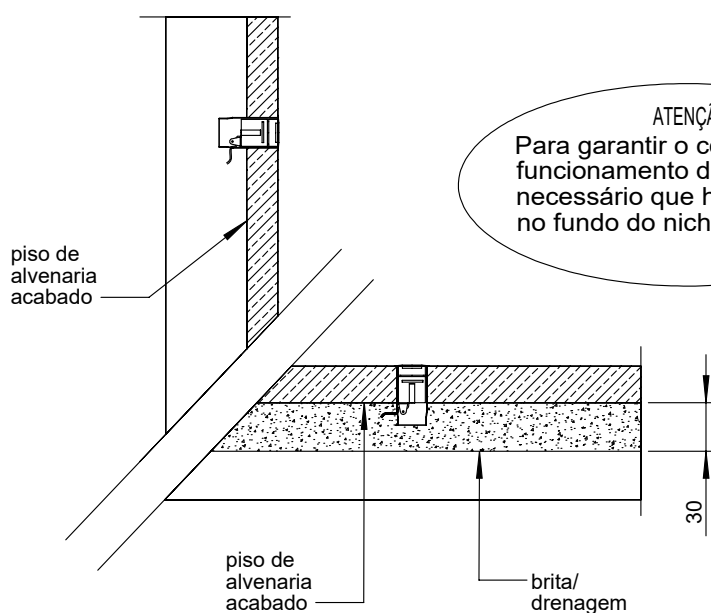
24/04/2025

instalação

dimensões em milímetros



nicho = Ø60 x 106mm



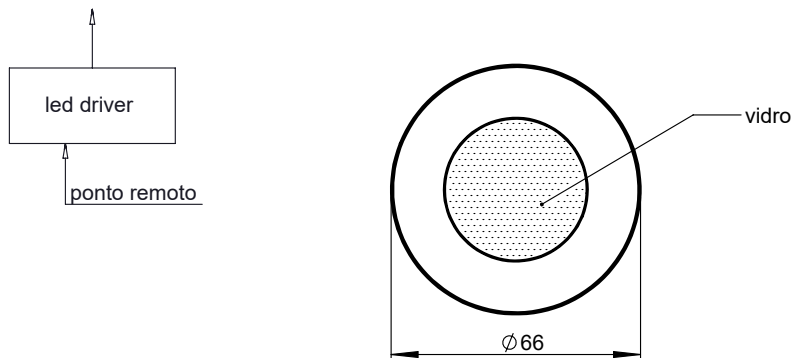
ATENÇÃO!

Para garantir o correto funcionamento da luminária é necessário que haja drenagem no fundo do nicho de instalação.

para maiores informações,
consulte a área técnica
produto@lumini.com.br

vista frontal

dimensões em milímetros



eye r 12V

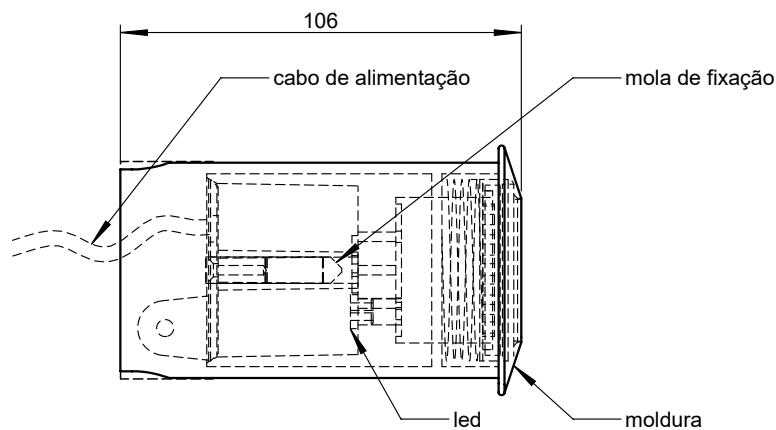
folha
1/1

escala
1:2

data
23/04/2025

vista lateral

dimensões em milímetros



desenhista
joao ferreira

aprovação
edmilson

revisões

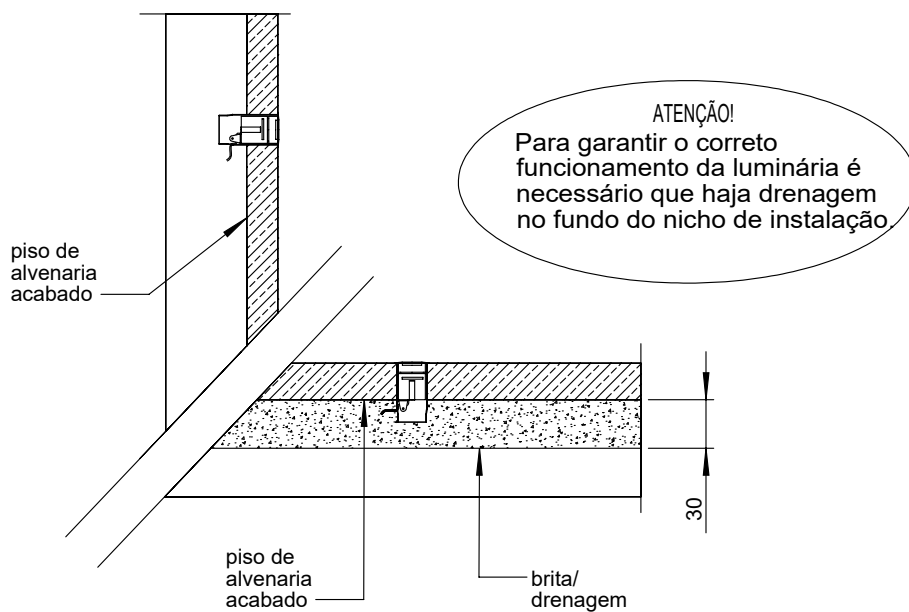
24/04/2025

instalação

dimensões em milímetros



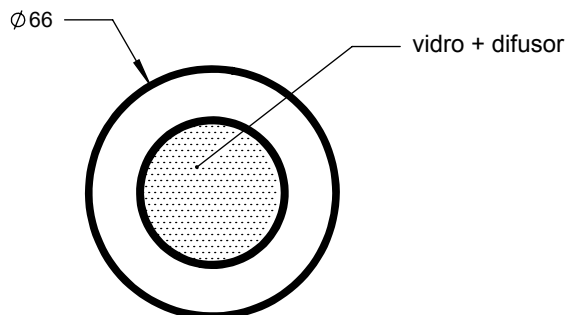
nicho = Ø60 x 106mm



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vista frontal

dimensões em milímetros



eye r 12V difusa

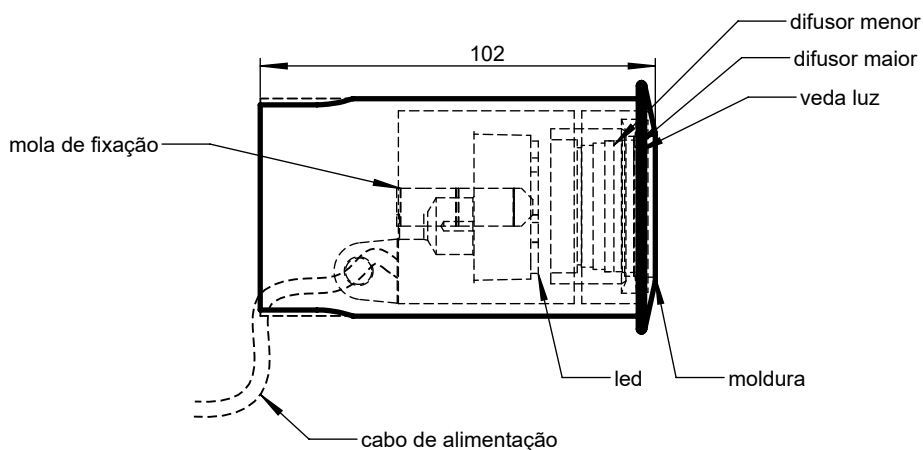
folha
1/1

escala
1:2

data
27/03/2023

vista lateral

dimensões em milímetros



desenhista
joao ferreira

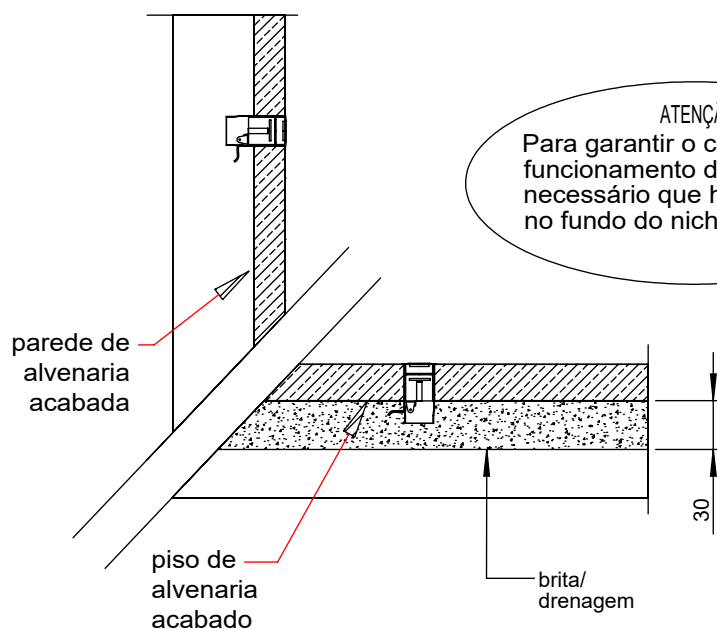
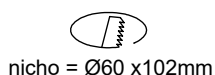
aprovação
edmilson

revisões

06/04/2023

instalação

dimensões em milímetros



ATENÇÃO!
Para garantir o correto funcionamento da luminária é necessário que haja drenagem no fundo do nicho de instalação

para maiores informações,
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lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email:laboratorio@lumini.com.br
Tel:+55 11 3437-5555 Fax:+55 11 3437-5555
Address:Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: eye r fa

LampCAT: modulo led 9W 27K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0680

Number of Lamps: 1

Power (W): 8.6300

Lamp flux(lm): 325.0

PF: 0.4300

Length(mm): 40

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 194.05, Efficiency(%): 59.71% , Luminous Efficacy(lm/W): 22.49

Central intensity(cd): 276.712, Maximum intensity(cd): 276.712

Angle of maximum intensity: C=0.0 γ =0.0

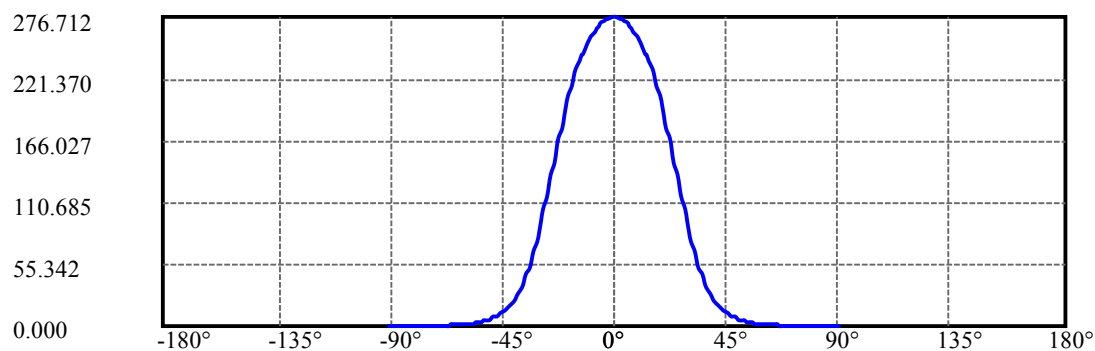
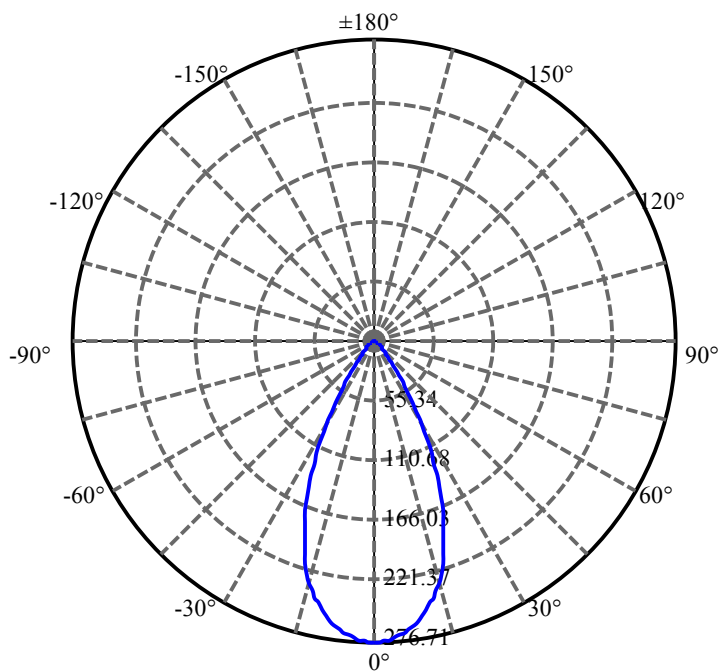
Beam angle of C0 plane : 49.53

Aveage BeamAngle(IEC 61341):49.53

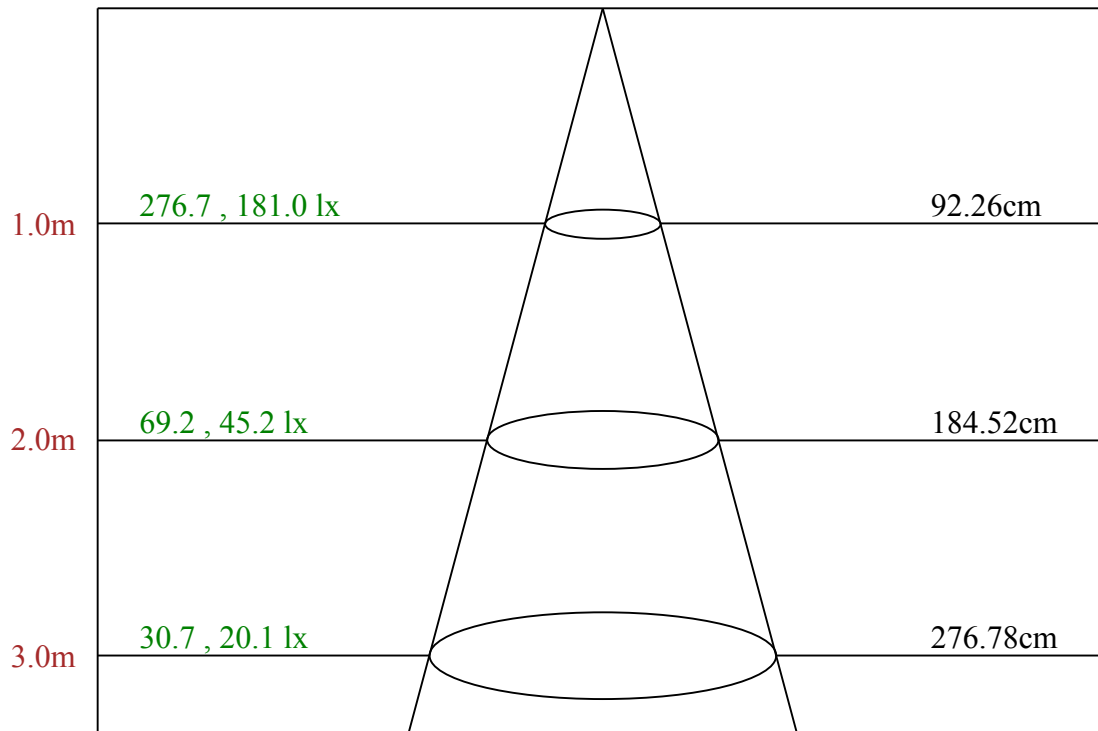
Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 25/09/2024
Humidity(%): 55.0%

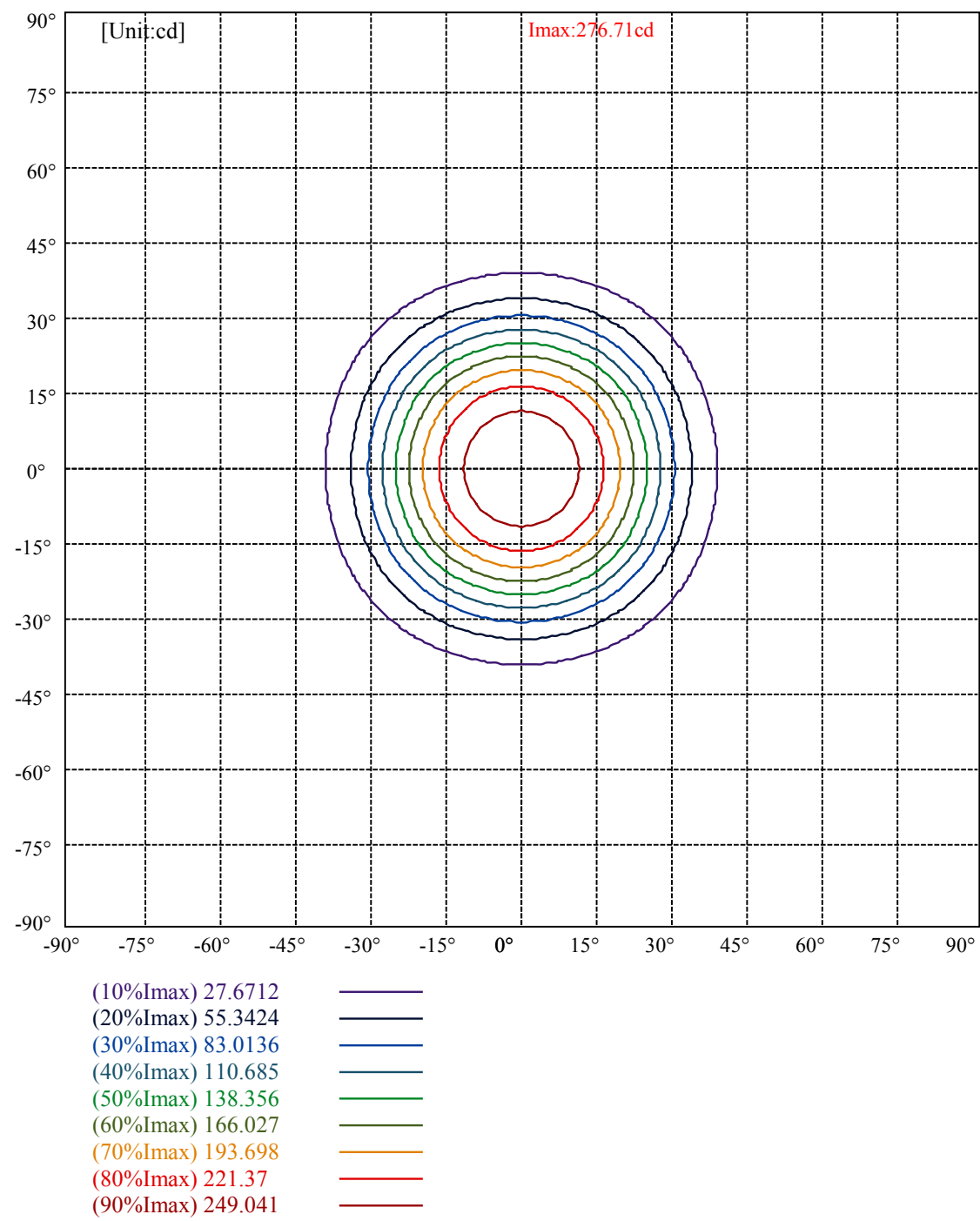
Operator: 01
Distance(m): 6.90



C90/C270: —————



Max , Ave Beam angle of C0 plane 49.53



Luminance Table

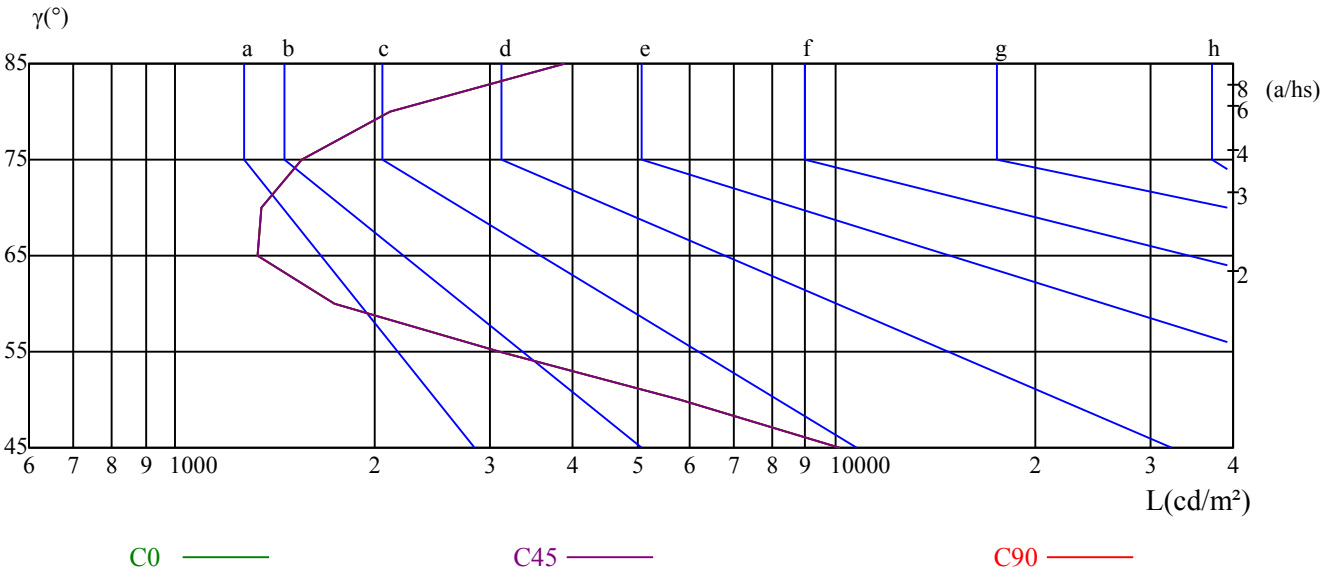
γ	45	50	55	60	65	70	75	80	85
C0	10132	5799	3095	1744	1330	1349	1555	2118	3879
C45	10132	5799	3095	1744	1330	1349	1555	2118	3879
C90	10132	5799	3095	1744	1330	1349	1555	2118	3879

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1330	1330	1330	1555	1555	1555	3879	3879	3879

Glare Table

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

Luminance Limiting Curve



Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	16.80	17.78	17.16	18.09	18.41	17.72	18.71	18.08	19.02	19.33
	3H	16.64	17.51	17.03	17.85	18.20	17.56	18.43	17.95	18.77	19.11
	4H	16.58	17.38	16.98	17.74	18.11	17.49	18.29	17.89	18.65	19.02
	6H	16.55	17.29	16.97	17.67	18.07	17.45	18.19	17.87	18.57	18.97
	8H	16.53	17.23	16.95	17.62	18.03	17.43	18.13	17.85	18.52	18.92
	12H	16.53	17.20	16.96	17.59	18.01	17.43	18.09	17.85	18.49	18.91
4H	2H	16.54	17.34	16.94	17.70	18.07	17.45	18.25	17.85	18.61	18.97
	3H	16.37	17.04	16.79	17.43	17.85	17.26	17.94	17.69	18.33	18.75
	4H	16.35	16.93	16.79	17.36	17.81	17.24	17.82	17.68	18.25	18.69
	6H	16.33	16.84	16.81	17.30	17.75	17.20	17.71	17.67	18.16	18.62
	8H	16.36	16.84	16.85	17.30	17.77	17.22	17.70	17.71	18.16	18.63
	12H	16.44	16.88	16.93	17.34	17.86	17.30	17.74	17.79	18.20	18.72
8H	4H	16.19	16.67	16.68	17.13	17.60	17.07	17.54	17.56	18.00	18.48
	6H	16.21	16.60	16.72	17.08	17.60	17.06	17.45	17.57	17.93	18.44
	8H	16.35	16.67	16.88	17.20	17.69	17.18	17.51	17.72	18.03	18.53
	12H	16.51	16.77	17.06	17.28	17.81	17.34	17.59	17.88	18.11	18.63
12H	4H	16.15	16.59	16.64	17.05	17.57	17.03	17.46	17.52	17.92	18.44
	6H	16.24	16.56	16.77	17.09	17.58	17.07	17.40	17.61	17.92	18.42
	8H	16.36	16.62	16.90	17.13	17.66	17.18	17.43	17.72	17.95	18.47
Variation with the observer position at spacings:											
S = 1.0H		4.4/-6.7					4.4/-6.7				
S = 1.5H		6.9/-7.1					6.9/-7.1				
S = 2.0H		8.7/-6.1					8.7/-6.1				
Standard tables:		BK1					BK1				
Uncorrected UGR		-2.7					-2.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email:laboratorio@lumini.com.br
Tel:+55 11 3437-5555 Fax:+55 11 3437-5555
Address:Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: eye r fm

LampCAT: modulo led 9W 27K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0680

Number of Lamps: 1

Power (W): 8.6300

Lamp flux(lm): 325.0

PF: 0.4300

Length(mm): 40

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 187.73, Efficiency(%): 57.76% , Luminous Efficacy(lm/W): 21.75

Central intensity(cd): 826.843, Maximum intensity(cd): 826.843

Angle of maximum intensity: C=0.0 γ =0.0

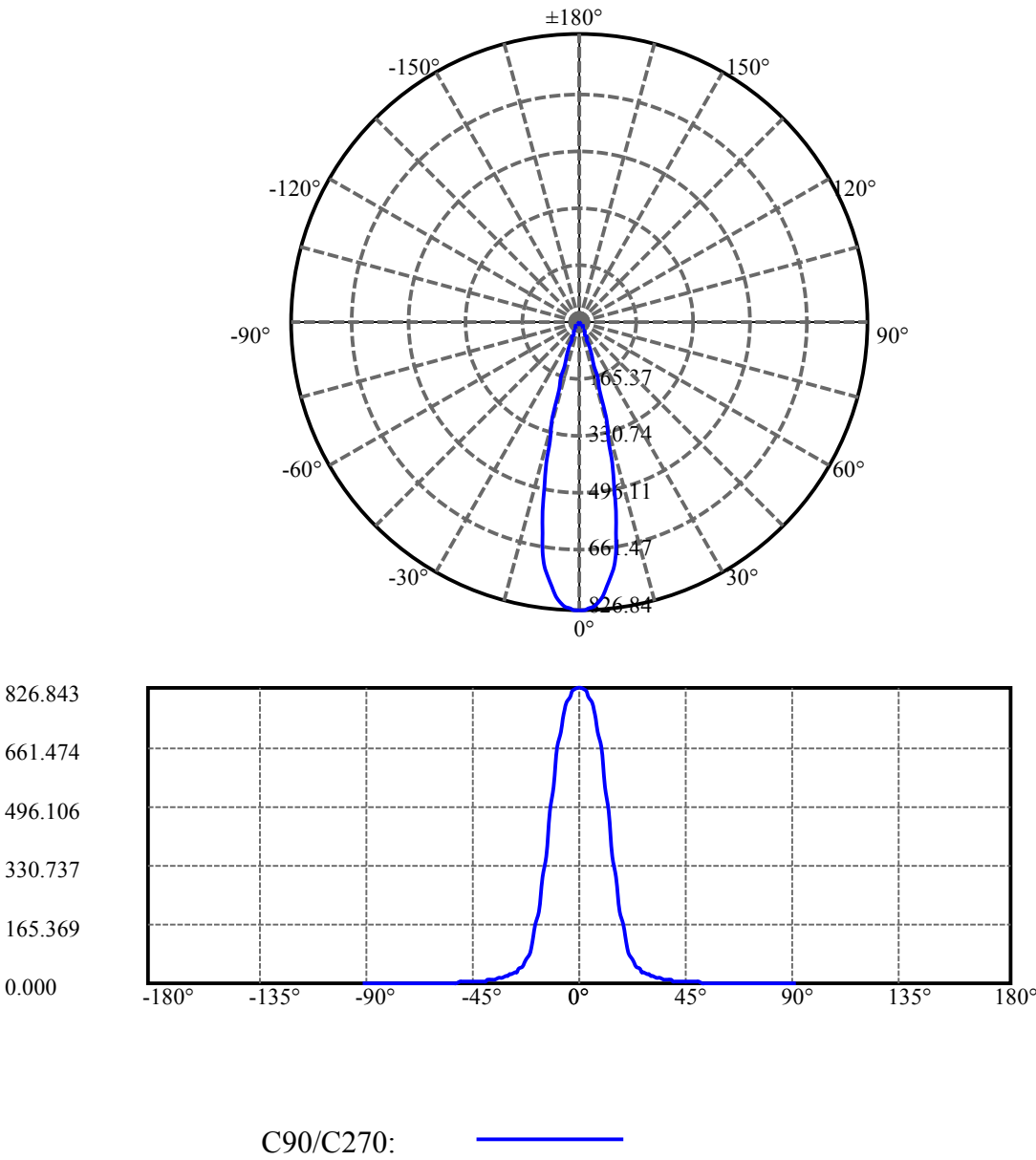
Beam angle of C0 plane : 26.07

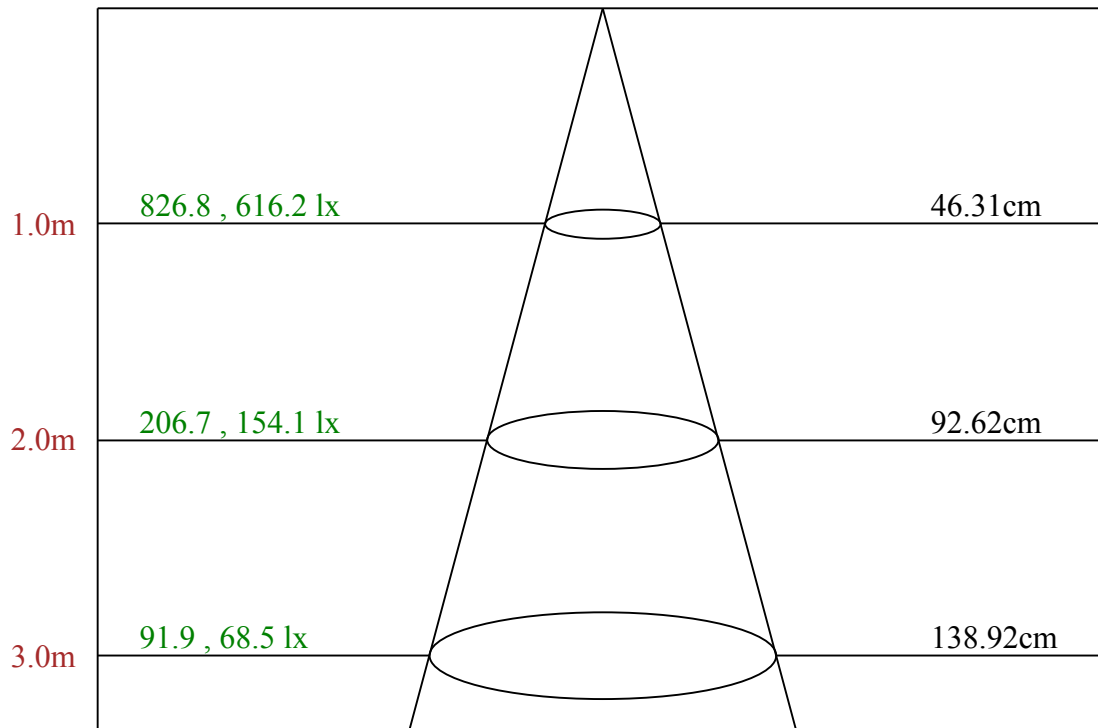
Aveage BeamAngle(IEC 61341):26.07

Equipment: equipamento lumini
Temperature(°C): 25.5

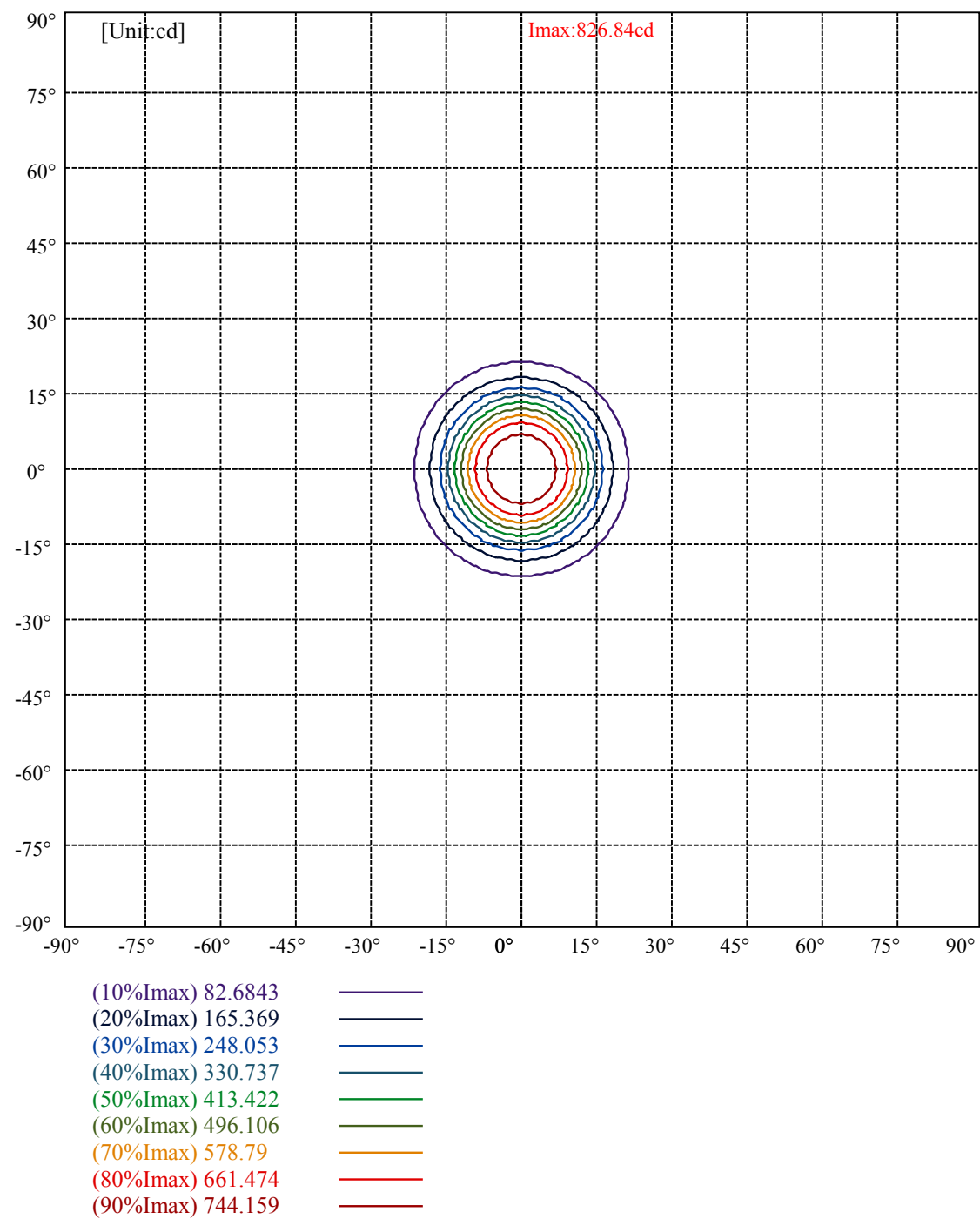
Date: 25/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 26.07



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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	3451	2500	1608	1250	1127	1218	1495	2228	4438
C45	3451	2500	1608	1250	1127	1218	1495	2228	4438
C90	3451	2500	1608	1250	1127	1218	1495	2228	4438

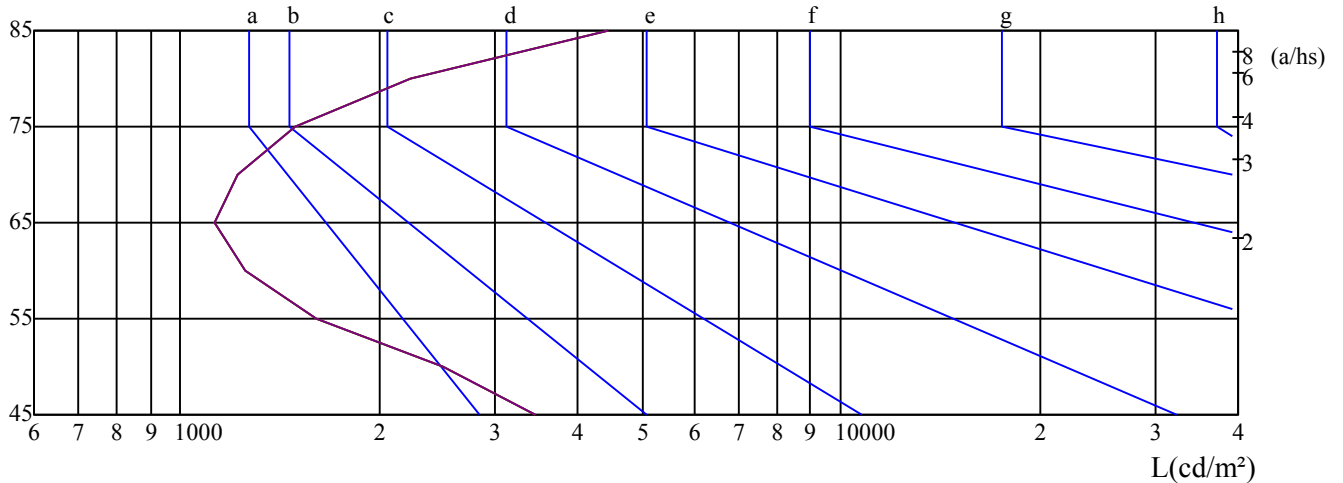
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1127	1127	1127	1495	1495	1495	4438	4438	4438

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): 25.5

Date: 25/09/2024
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	7.81	8.74	8.17	9.05	9.37	7.81	8.74	8.17	9.05	9.37
	3H	8.12	8.95	8.51	9.29	9.64	8.12	8.95	8.51	9.29	9.64
	4H	8.45	9.21	8.85	9.56	9.93	8.45	9.21	8.85	9.56	9.93
	6H	9.06	9.76	9.48	10.14	10.54	9.06	9.76	9.48	10.14	10.54
	8H	9.53	10.19	9.95	10.58	10.99	9.53	10.19	9.95	10.58	10.99
	12H	10.15	10.78	10.57	11.17	11.59	10.15	10.78	10.57	11.17	11.59
4H	2H	7.72	8.49	8.12	8.84	9.21	7.72	8.49	8.12	8.84	9.21
	3H	8.21	8.85	8.64	9.25	9.67	8.21	8.85	8.64	9.25	9.67
	4H	8.76	9.32	9.20	9.74	10.19	8.76	9.32	9.20	9.74	10.19
	6H	9.64	10.13	10.11	10.58	11.03	9.64	10.13	10.11	10.58	11.03
	8H	10.32	10.78	10.81	11.24	11.71	10.32	10.78	10.81	11.24	11.71
	12H	11.19	11.61	11.68	12.06	12.58	11.19	11.61	11.68	12.06	12.58
8H	4H	8.94	9.39	9.42	9.85	10.32	8.94	9.39	9.42	9.85	10.32
	6H	10.12	10.48	10.62	10.96	11.48	10.12	10.48	10.62	10.96	11.48
	8H	11.08	11.39	11.61	11.91	12.41	11.08	11.39	11.61	11.91	12.41
	12H	12.22	12.45	12.76	12.97	13.49	12.22	12.45	12.76	12.97	13.49
12H	4H	9.01	9.42	9.50	9.87	10.40	9.01	9.42	9.50	9.87	10.40
	6H	10.34	10.65	10.88	11.18	11.67	10.34	10.65	10.88	11.18	11.67
	8H	11.38	11.61	11.92	12.13	12.66	11.38	11.61	11.92	12.13	12.66
Variation with the observer position at spacings:											
S = 1.0H		2.5/-2.3					2.5/-2.3				
S = 1.5H		3.6/-2.0					3.6/-2.0				
S = 2.0H		4.3/-1.7					4.3/-1.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.6					-4.6				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email:laboratorio@lumini.com.br
Tel:+55 11 3437-5555 Fax:+55 11 3437-5555
Address:Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: eye r difusa

LampCAT: modulo led tr 9W 27K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0680

Number of Lamps: 1

Power (W): 8.6300

Lamp flux(lm): 325.0

PF: 0.0000

Length(mm): 40

Width(mm): 40

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 10.24, Efficiency(%): 3.15% , Luminous Efficacy(lm/W): 1.19

Central intensity(cd): 3.809, Maximum intensity(cd): 3.809

Angle of maximum intensity: C=0.0 γ =0.0

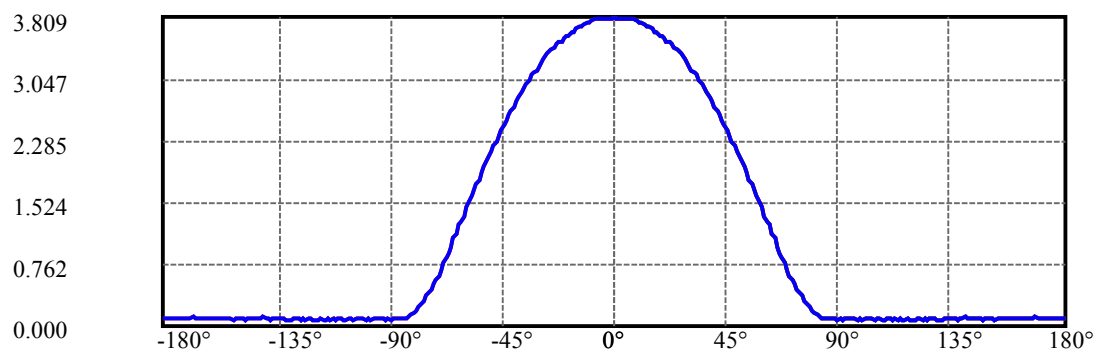
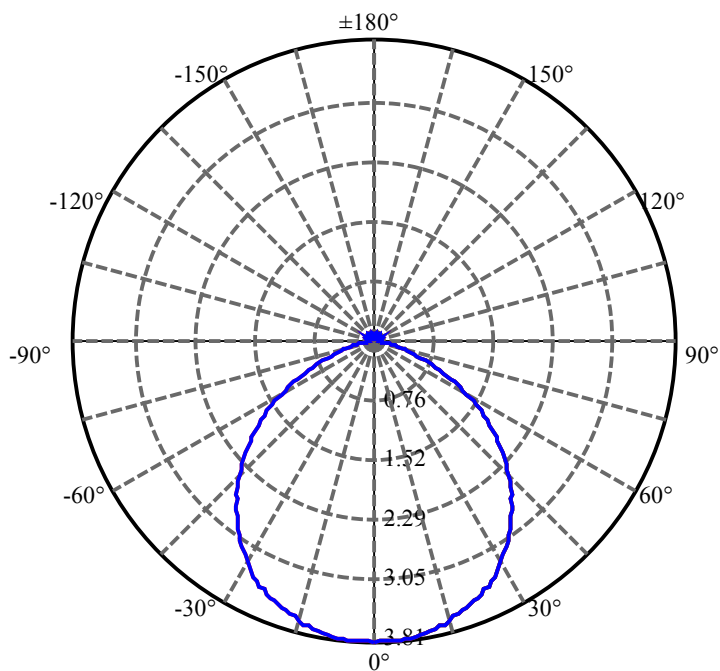
Beam angle of C0 plane : 105.67

Aveage BeamAngle(IEC 61341):105.67

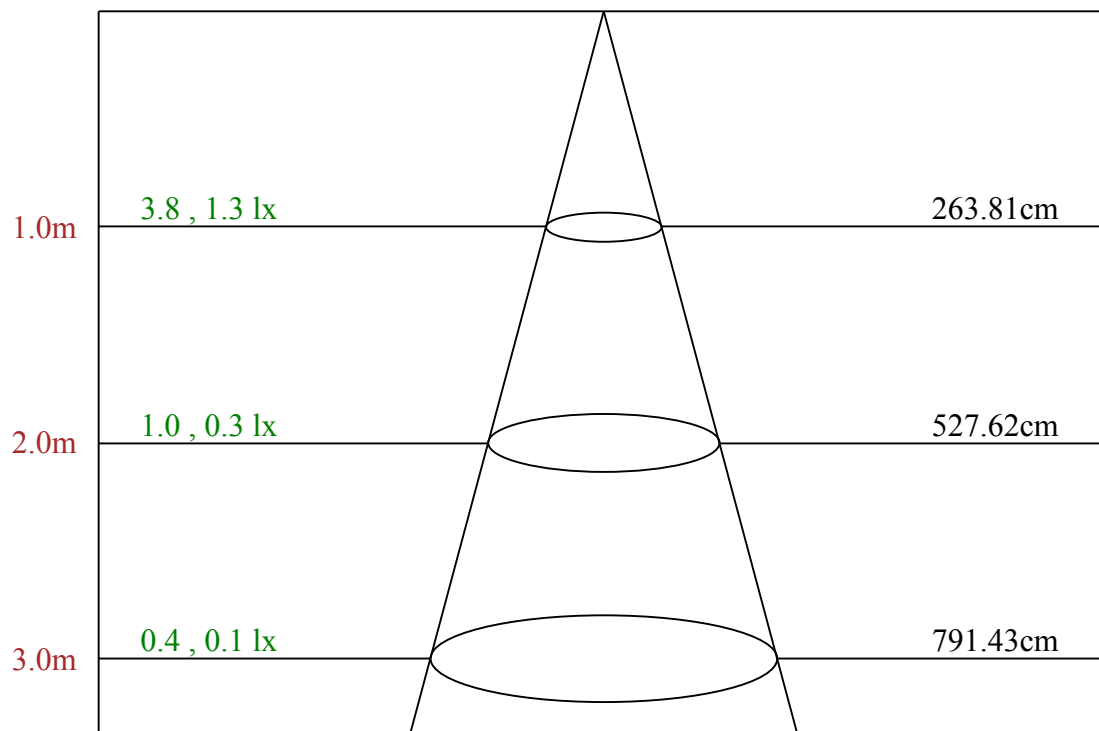
Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 04/02/2025
Humidity(%): 78.0%

Operator: 01
Distance(m): 6.90

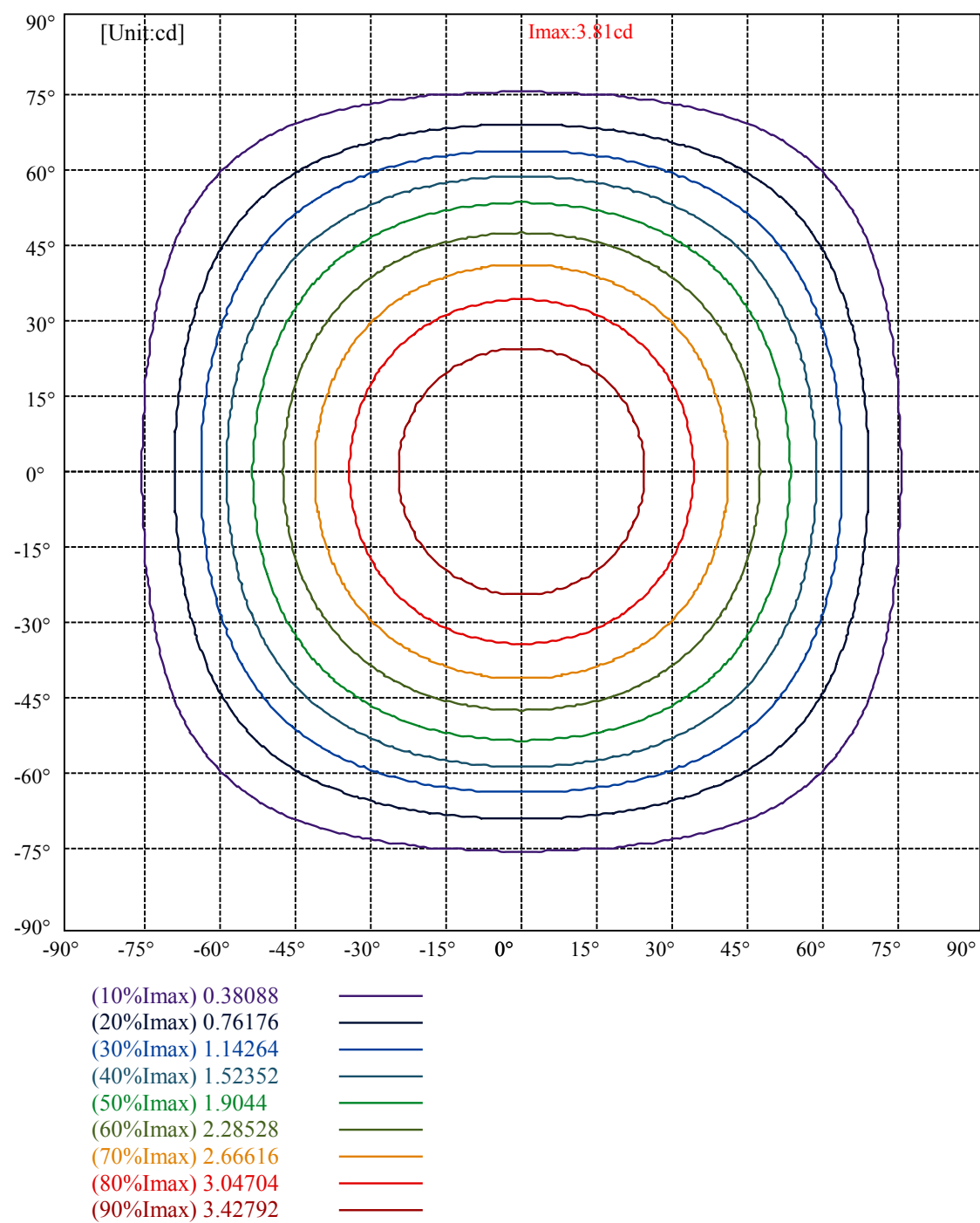


C0(Max): —
 C0/C180: —
 C90/C270: —



Max , Ave

Beam angle of C0 plane 105.67



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

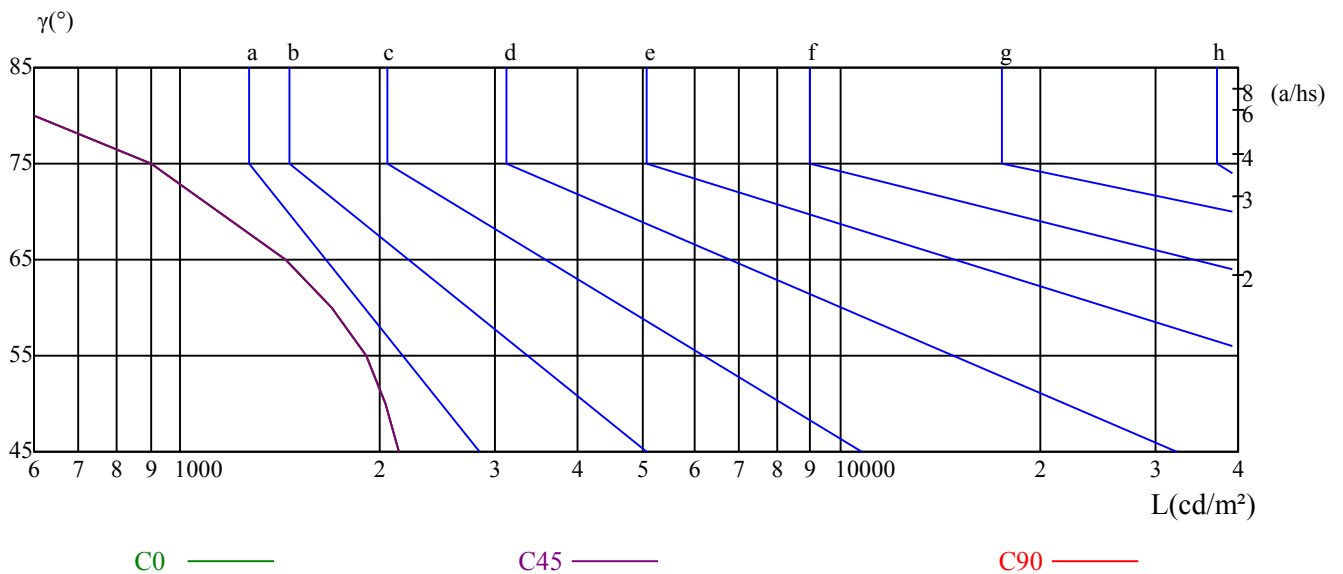
γ	45	50	55	60	65	70	75	80	85
C0	2136	2043	1907	1696	1443	1142	905	578	597
C45	2136	2043	1907	1696	1443	1142	905	578	597
C90	2136	2043	1907	1696	1443	1142	905	578	597

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1443	1443	1443	905	905	905	597	597	597

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: 04/02/2025
Humidity(%): 78.0%

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	14.63	16.08	15.07	16.50	16.94	14.70	16.16	15.14	16.58	17.02
	3H	15.73	17.04	16.19	17.48	17.95	15.82	17.12	16.28	17.57	18.03
	4H	16.01	17.24	16.49	17.69	18.18	16.12	17.34	16.60	17.80	18.28
	6H	16.14	17.28	16.63	17.75	18.26	16.26	17.39	16.75	17.86	18.38
	8H	16.12	17.21	16.61	17.69	18.21	16.25	17.34	16.74	17.82	18.34
	12H	16.10	17.15	16.60	17.64	18.17	16.23	17.28	16.73	17.76	18.29
4H	2H	15.22	16.45	15.70	16.90	17.39	15.28	16.51	15.76	16.96	17.45
	3H	16.42	17.46	16.92	17.94	18.47	16.49	17.53	16.99	18.01	18.54
	4H	16.82	17.74	17.34	18.25	18.80	16.92	17.83	17.43	18.34	18.90
	6H	16.97	17.78	17.52	18.32	18.88	17.08	17.89	17.62	18.42	18.98
	8H	16.99	17.75	17.55	18.29	18.87	17.11	17.87	17.67	18.41	18.98
	12H	17.02	17.72	17.58	18.25	18.87	17.14	17.84	17.70	18.37	18.99
8H	4H	16.93	17.68	17.48	18.22	18.80	17.02	17.77	17.57	18.31	18.89
	6H	17.14	17.77	17.71	18.32	18.94	17.24	17.87	17.81	18.42	19.04
	8H	17.23	17.78	17.82	18.37	18.98	17.35	17.89	17.94	18.49	19.09
	12H	17.28	17.74	17.88	18.34	18.96	17.40	17.86	18.00	18.45	19.08
12H	4H	16.92	17.62	17.48	18.15	18.77	17.01	17.71	17.57	18.24	18.86
	6H	17.19	17.74	17.78	18.33	18.94	17.29	17.83	17.88	18.43	19.03
	8H	17.25	17.71	17.85	18.30	18.93	17.36	17.82	17.96	18.42	19.04
Variation with the observer position at spacings:											
S = 1.0H		0.4/-0.4					0.4/-0.4				
S = 1.5H		0.6/-0.9					0.6/-0.9				
S = 2.0H		1.7/-1.5					1.7/-1.5				
Standard tables:		BK3					BK3				
Uncorrected UGR		-0.9					-0.9				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email:laboratorio@lumini.com.br
Tel:+55 11 3437-5555 Fax:+55 11 3437-5555
Address:Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: eye r 12V fa

LampCAT: modulo led 4W 27K 12Vdc irc 90

Ballast type: led line driver 12Vdc

Report No:

Voltage(V): 126.0000

Test No:

Current(A): 0.0530

Number of Lamps: 1

Power (W): 6.6780

Lamp flux(lm): 311.0

PF: 0.0000

Length(mm): 38

Width(mm): 38

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 203.48, Efficiency(%): 65.43% , Luminous Efficacy(lm/W): 30.47

Central intensity(cd): 252.785, Maximum intensity(cd): 252.785

Angle of maximum intensity: C=0.0 γ =0.0

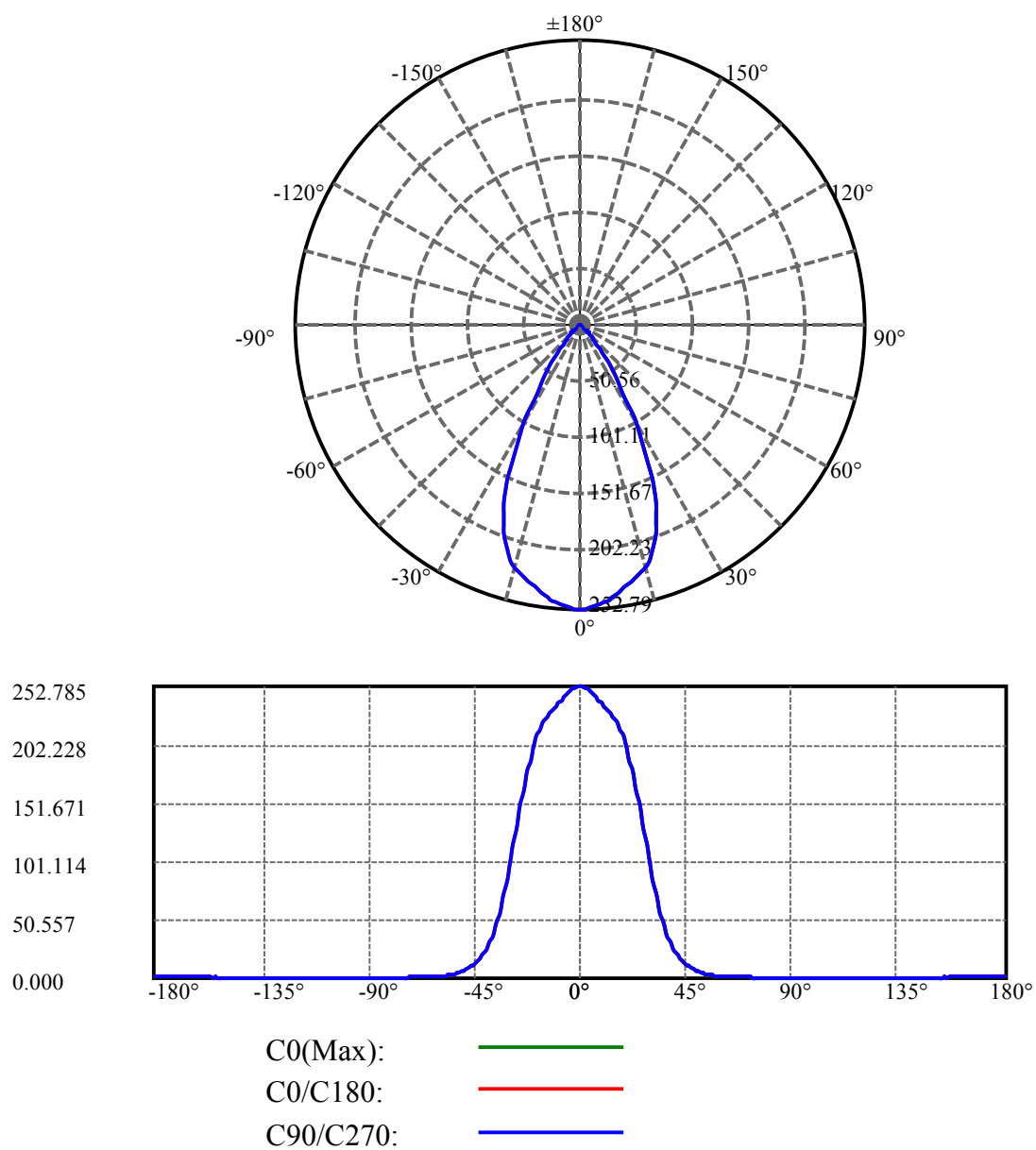
Beam angle of C0 plane : 54.32

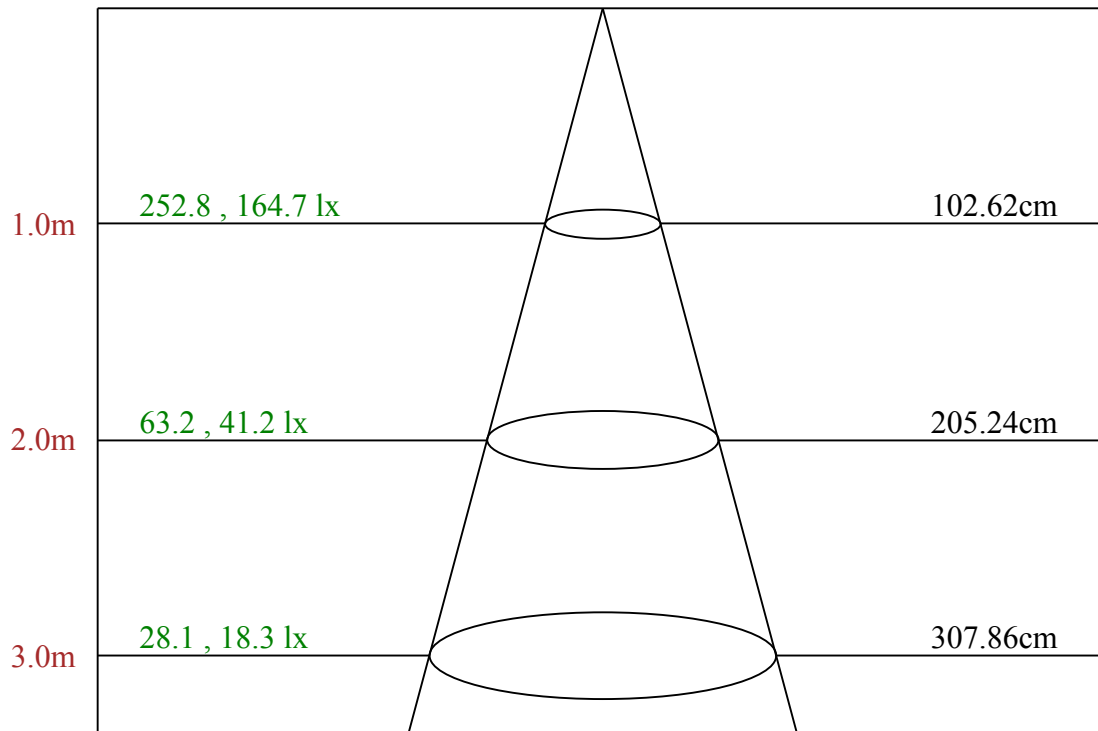
Aveage BeamAngle(IEC 61341):54.32

Equipment: equipamento lumini
Temperature(°C): 25.5

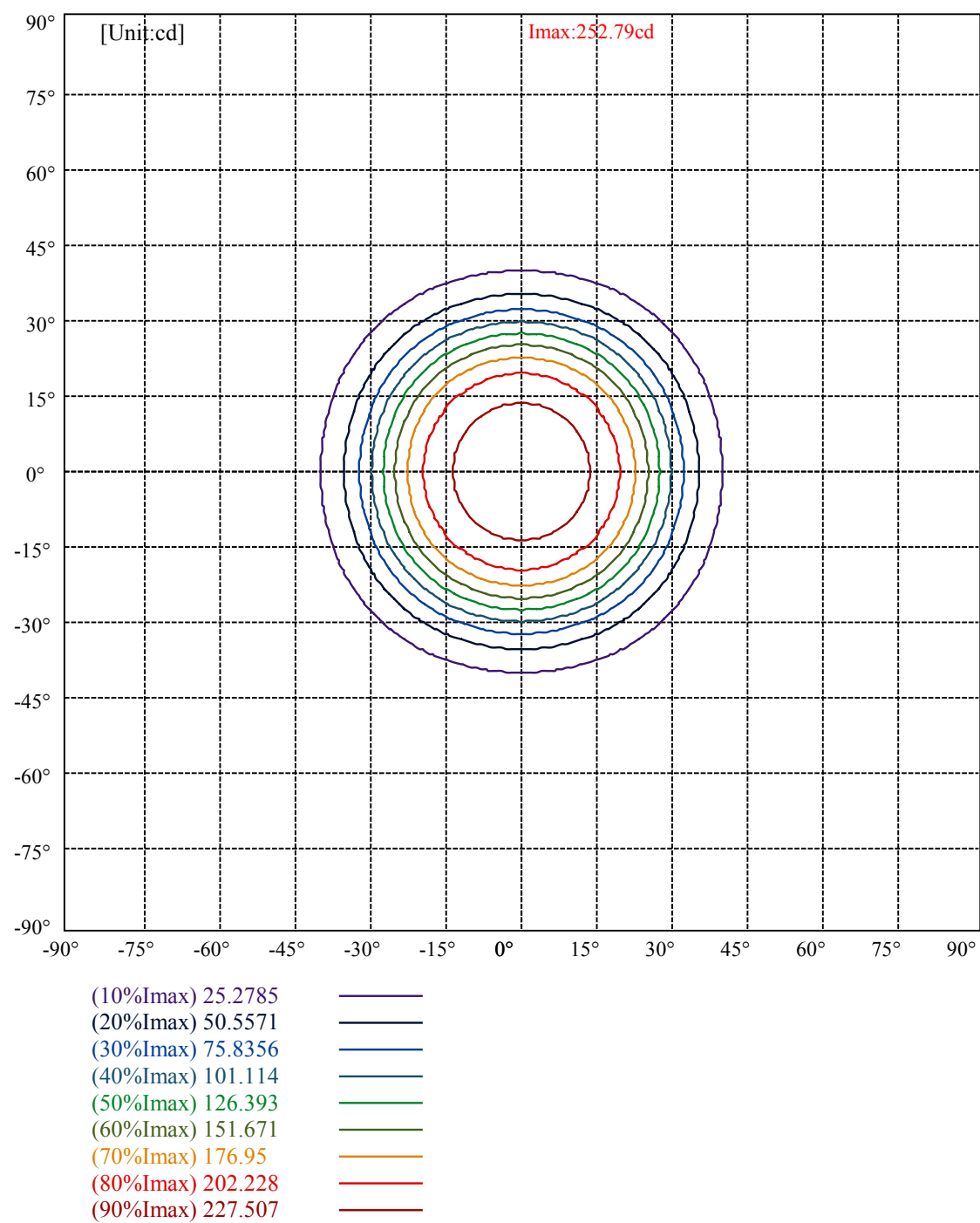
Date: 30/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 54.32



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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	11418	6482	3377	1995	1716	1795	2038	2563	4823
C45	11418	6482	3377	1995	1716	1795	2038	2563	4823
C90	11418	6482	3377	1995	1716	1795	2038	2563	4823

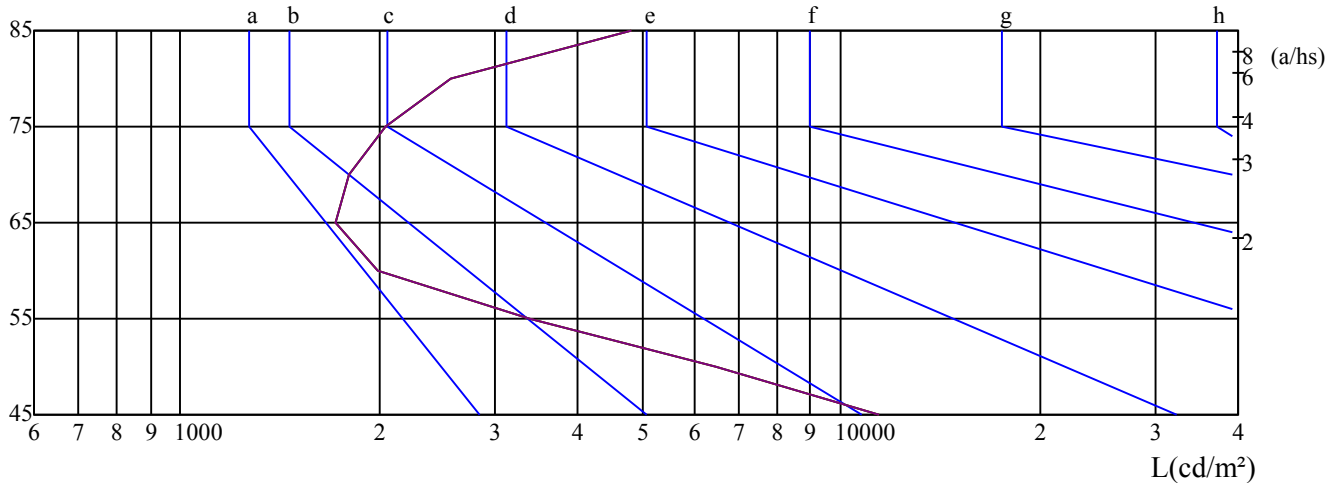
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1716	1716	1716	2038	2038	2038	4823	4823	4823

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): 25.5

Date: 30/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	16.45	17.42	16.85	17.77	18.13	15.82	16.78	16.22	17.13	17.50
	3H	16.33	17.19	16.75	17.56	17.96	15.70	16.56	16.12	16.93	17.33
	4H	16.28	17.08	16.72	17.47	17.88	15.67	16.46	16.11	16.85	17.27
	6H	16.29	17.01	16.74	17.43	17.87	15.68	16.41	16.14	16.82	17.27
	8H	16.29	16.98	16.75	17.40	17.86	15.69	16.38	16.15	16.81	17.26
	12H	16.33	16.98	16.79	17.42	17.88	15.75	16.41	16.21	16.84	17.30
4H	2H	16.19	16.98	16.62	17.37	17.79	15.56	16.35	16.00	16.75	17.16
	3H	16.07	16.73	16.53	17.16	17.62	15.45	16.12	15.92	16.55	17.01
	4H	16.09	16.66	16.56	17.12	17.61	15.50	16.07	15.97	16.53	17.02
	6H	16.11	16.61	16.62	17.10	17.60	15.53	16.04	16.04	16.52	17.02
	8H	16.18	16.65	16.70	17.14	17.66	15.62	16.09	16.14	16.58	17.10
	12H	16.33	16.76	16.85	17.24	17.81	15.80	16.23	16.32	16.72	17.28
8H	4H	15.94	16.41	16.46	16.90	17.42	15.37	15.83	15.88	16.33	16.84
	6H	16.03	16.41	16.57	16.92	17.48	15.47	15.86	16.01	16.37	16.92
	8H	16.22	16.54	16.78	17.09	17.63	15.69	16.01	16.25	16.57	17.11
	12H	16.48	16.73	17.06	17.28	17.85	16.01	16.26	16.58	16.81	17.37
12H	4H	15.91	16.34	16.43	16.83	17.39	15.33	15.77	15.86	16.25	16.81
	6H	16.06	16.38	16.62	16.94	17.48	15.51	15.84	16.08	16.39	16.93
	8H	16.25	16.50	16.82	17.05	17.61	15.73	15.98	16.31	16.53	17.10
Variation with the observer position at spacings:											
S = 1.0H		4.6/-6.7					4.6/-6.7				
S = 1.5H		7.1/-6.8					7.1/-6.8				
S = 2.0H		8.9/-5.9					8.9/-5.9				
Standard tables:		BK1					BK1				
Uncorrected UGR		-2.0					-2.0				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email: laboratorio@lumini.com.br
Tel: +55 11 3437-5555 Fax: +55 11 3437-5555
Address: Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: eye r 12V fm

LampCAT: modulo led 4W 27K 12Vdc irc 90

Ballast type: led line driver 12Vdc

Report No:

Voltage(V): 126.0000

Test No:

Current(A): 0.0530

Number of Lamps: 1

Power (W): 6.6780

Lamp flux(lm): 311.0

PF: 0.0000

Length(mm): 38

Width(mm): 38

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 186.62, Efficiency(%): 60.01% , Luminous Efficacy(lm/W): 27.94

Central intensity(cd): 804.062, Maximum intensity(cd): 804.062

Angle of maximum intensity: C=0.0 γ =0.0

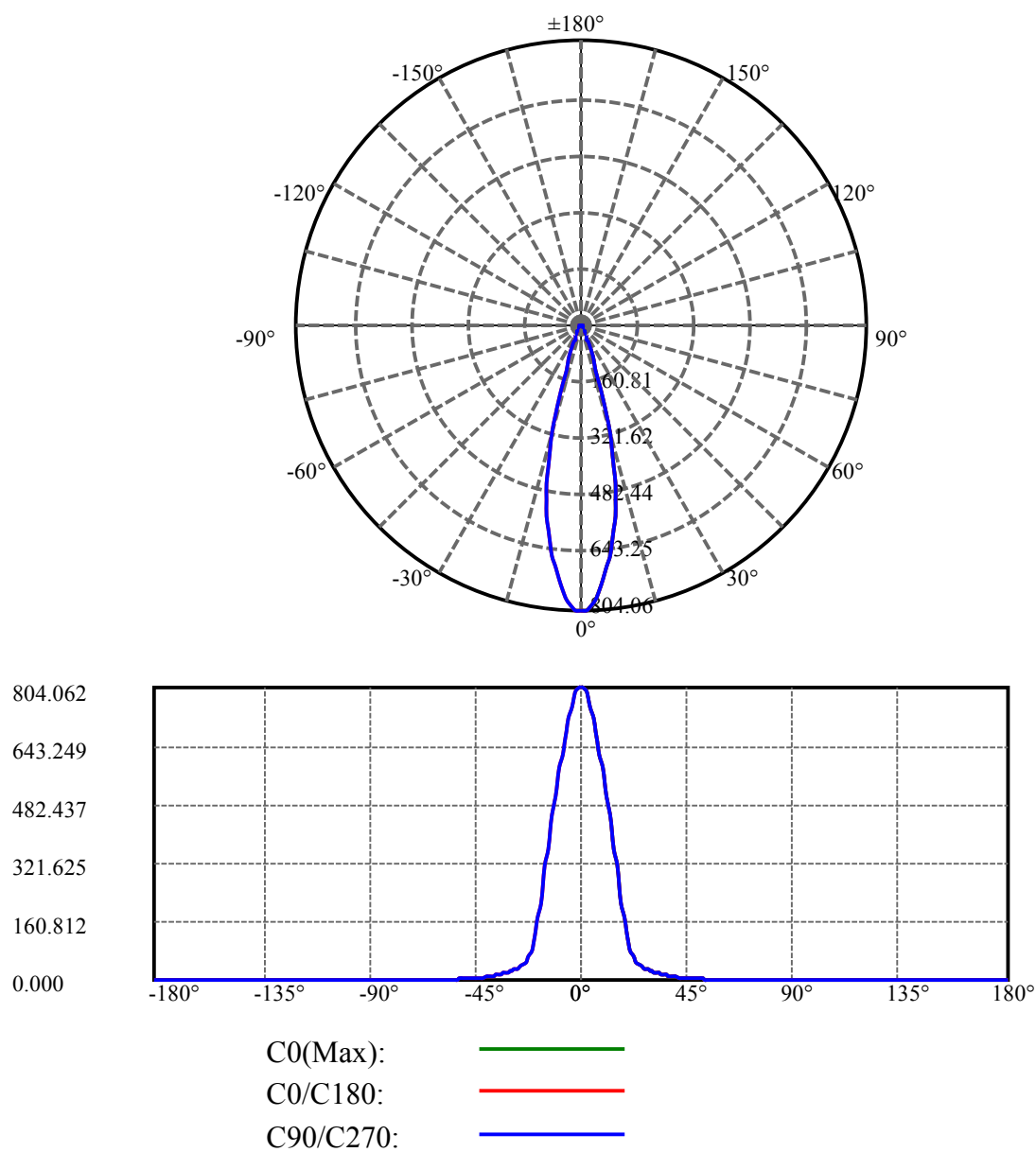
Beam angle of C0 plane : 26.31

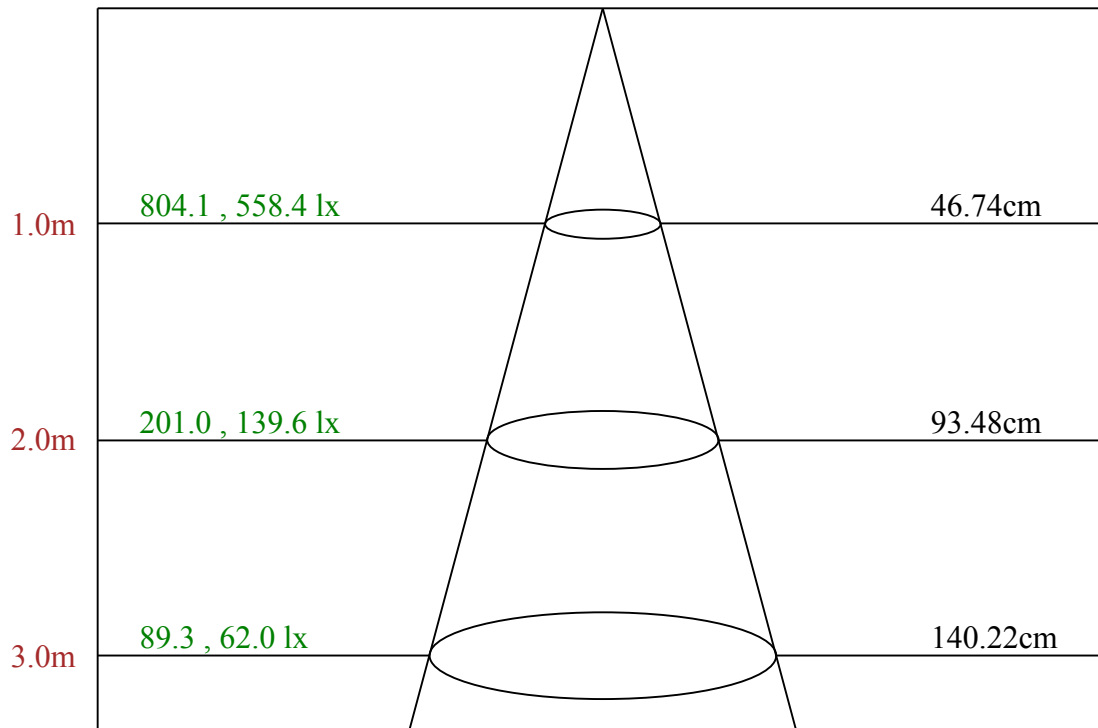
Average BeamAngle(IEC 61341): 26.31

Equipment: equipamento lumini
Temperature(°C): 25.5

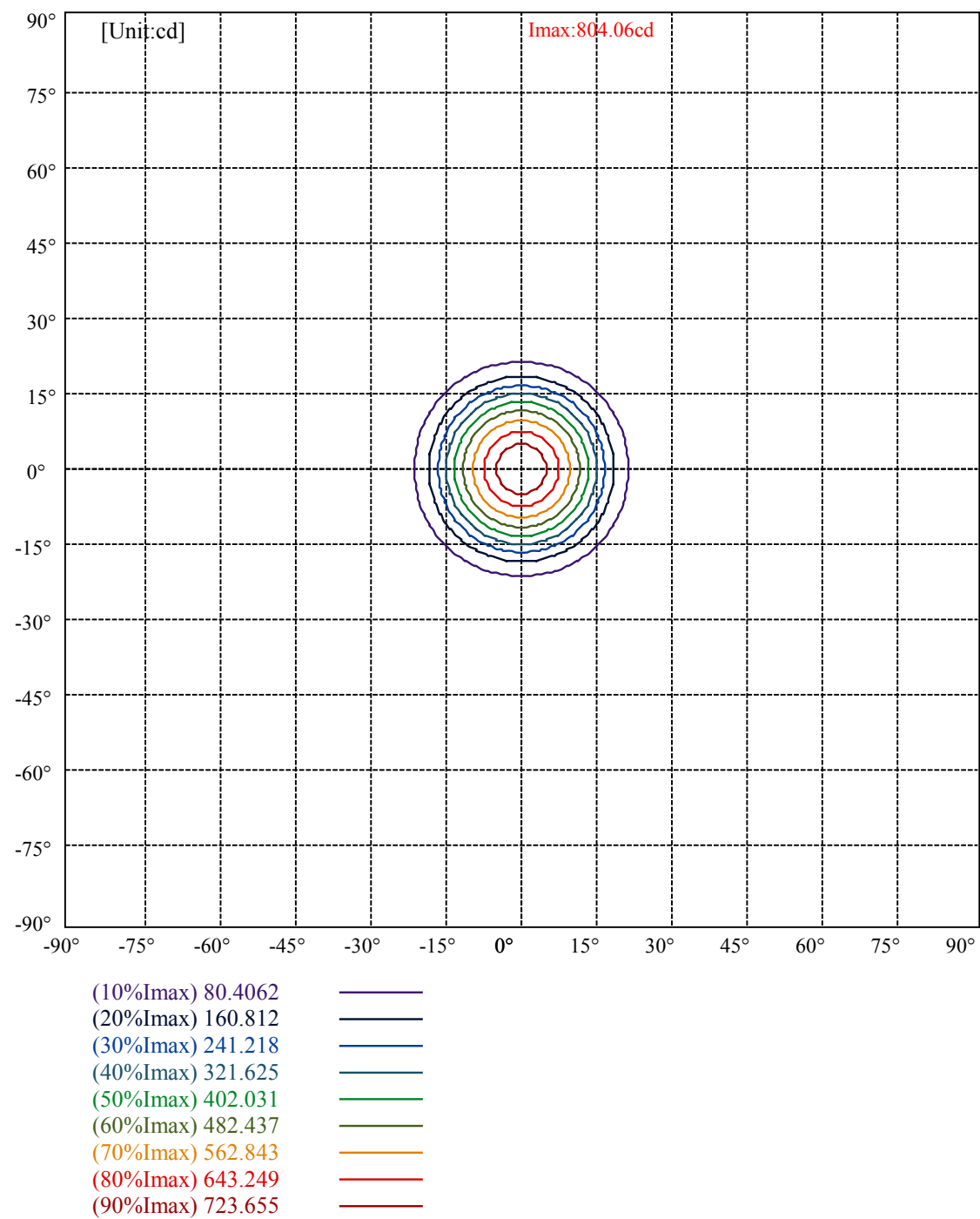
Date: 30/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90





Max , Ave Beam angle of C0 plane 26.31



Luminance Table

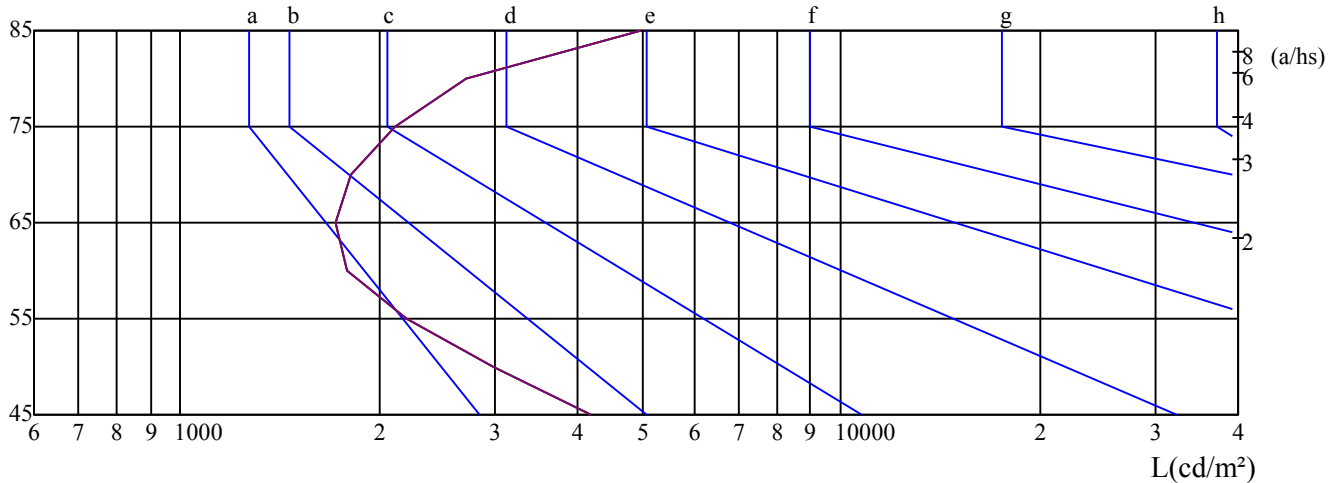
γ	45	50	55	60	65	70	75	80	85
C0	4197	2969	2199	1789	1716	1808	2118	2706	4965
C45	4197	2969	2199	1789	1716	1808	2118	2706	4965
C90	4197	2969	2199	1789	1716	1808	2118	2706	4965

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1716	1716	1716	2118	2118	2118	4965	4965	4965

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	10.80	11.72	11.20	12.08	12.45	10.86	11.78	11.26	12.14	12.51
	3H	11.07	11.89	11.50	12.28	12.68	11.11	11.92	11.53	12.31	12.71
	4H	11.32	12.08	11.76	12.48	12.90	11.35	12.11	11.79	12.51	12.93
	6H	11.72	12.42	12.18	12.84	13.29	11.78	12.47	12.24	12.90	13.35
	8H	11.96	12.62	12.42	13.05	13.51	12.03	12.69	12.49	13.12	13.58
	12H	12.33	12.96	12.80	13.40	13.87	12.40	13.02	12.86	13.46	13.93
4H	2H	10.71	11.46	11.15	11.87	12.29	10.76	11.52	11.21	11.92	12.34
	3H	11.13	11.77	11.60	12.21	12.68	11.16	11.79	11.63	12.23	12.70
	4H	11.59	12.14	12.07	12.61	13.11	11.62	12.17	12.09	12.63	13.13
	6H	12.18	12.67	12.70	13.16	13.67	12.24	12.73	12.76	13.22	13.73
	8H	12.57	13.02	13.10	13.52	14.05	12.65	13.10	13.18	13.60	14.13
	12H	13.16	13.57	13.68	14.06	14.63	13.22	13.63	13.75	14.13	14.70
8H	4H	11.72	12.17	12.25	12.67	13.19	11.74	12.19	12.27	12.69	13.22
	6H	12.54	12.91	13.09	13.43	13.99	12.61	12.97	13.15	13.49	14.05
	8H	13.15	13.46	13.72	14.02	14.57	13.23	13.54	13.80	14.10	14.64
	12H	13.96	14.20	14.54	14.76	15.33	14.03	14.26	14.61	14.82	15.39
12H	4H	11.75	12.17	12.28	12.66	13.23	11.78	12.19	12.30	12.68	13.25
	6H	12.70	13.01	13.27	13.57	14.12	12.76	13.07	13.33	13.63	14.18
	8H	13.37	13.60	13.95	14.16	14.73	13.44	13.67	14.02	14.23	14.80
Variation with the observer position at spacings:											
S = 1.0H		2.5/-2.1					2.5/-2.1				
S = 1.5H		3.7/-1.8					3.7/-1.8				
S = 2.0H		4.6/-1.6					4.6/-1.6				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-3.0					-3.0				

依据CIE Publ. 117 计算 UGR, S/H = 0.25



lumini Solucoes em Iluminacao LTDA
www.lumini.com.br
Email: laboratorio@lumini.com.br
Tel: +55 11 3437-5555 Fax: +55 11 3437-5555
Address: Rua Ferreira Viana, 716 - Socorro - São Paulo/SP

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LumCAT:

Luminaire: eye r 12V difusa

LampCAT: modulo led 4W 27K 12Vdc irc 90

Ballast type: led line driver 12Vdc

Report No:

Voltage(V): 126.0000

Test No:

Current(A): 0.0530

Number of Lamps: 1

Power (W): 6.6780

Lamp flux(lm): 311.0

PF: 0.0000

Length(mm): 38

Width(mm): 38

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 9.98, Efficiency(%): 3.21% , Luminous Efficacy(lm/W): 1.49

Central intensity(cd): 3.749, Maximum intensity(cd): 3.773

Angle of maximum intensity: $C=0.0$ $\gamma=1.0$

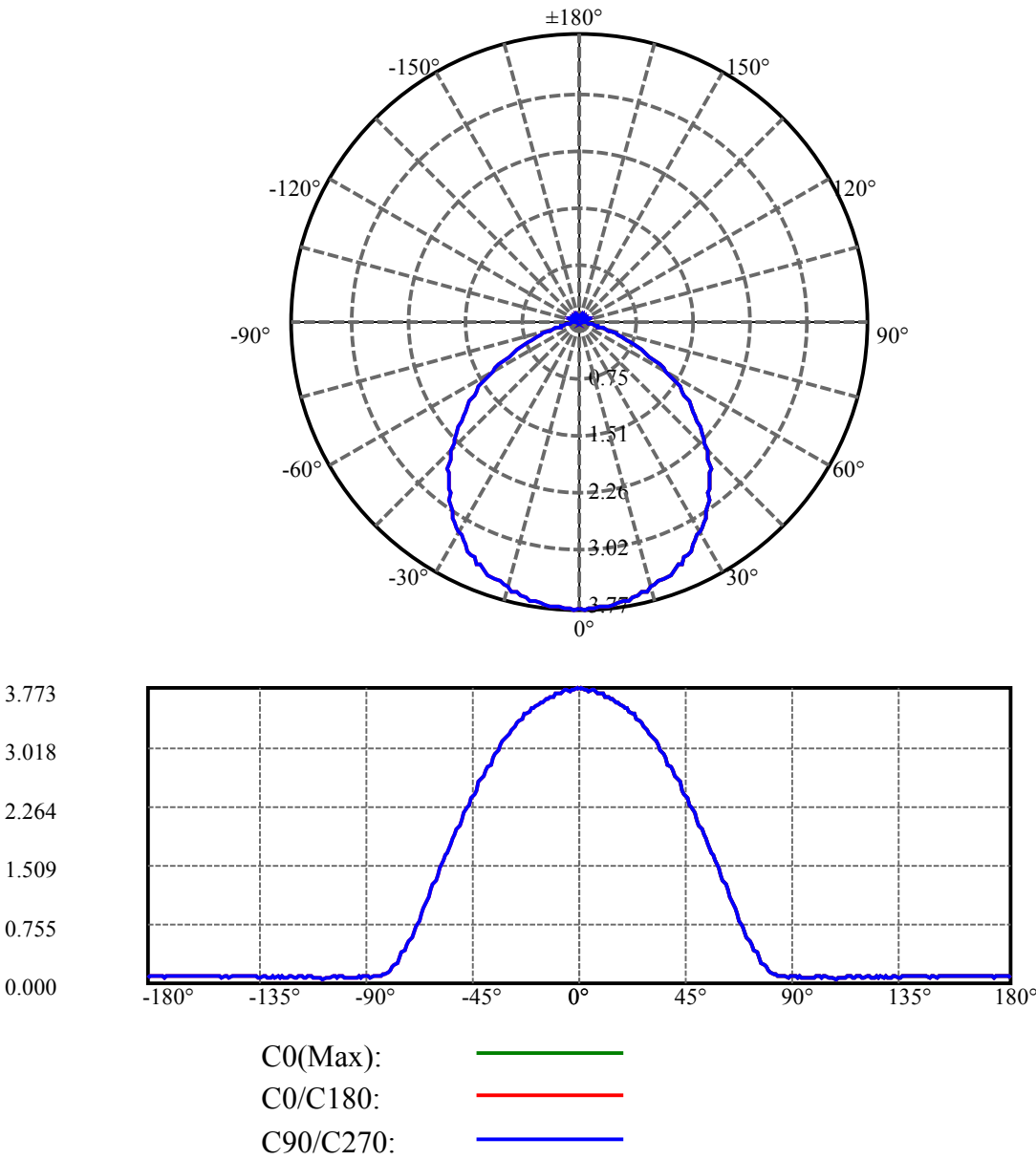
Beam angle of C0 plane : 104.60

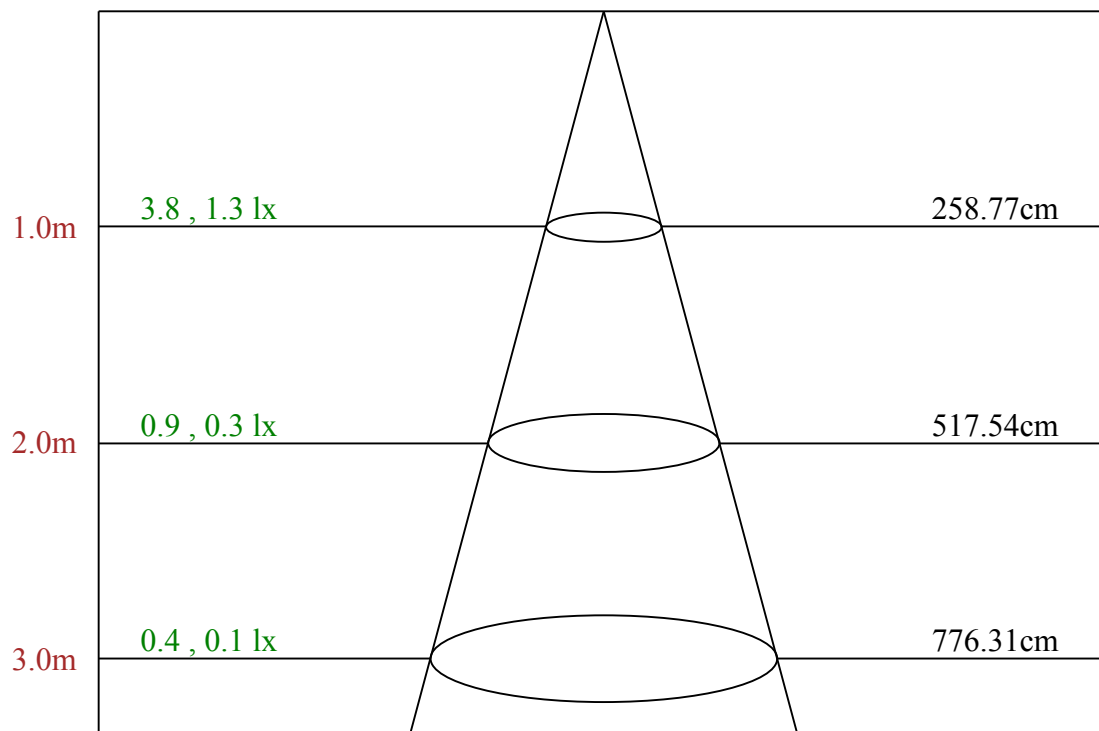
Average BeamAngle(IEC 61341): 104.60

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 30/01/2025
Humidity(%): 55.0%

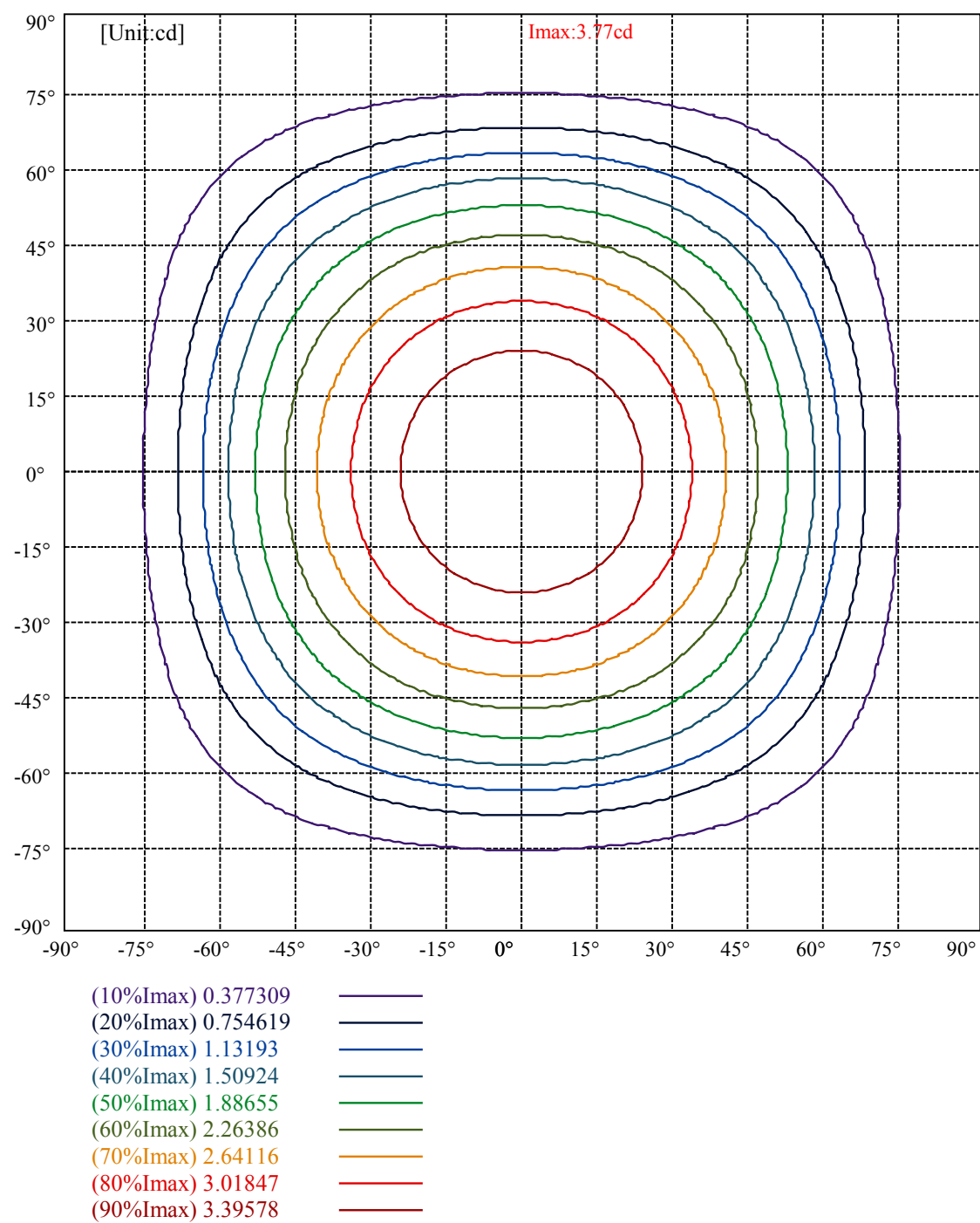
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 104.60



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Luminance Limiting Curve(no luminous side)

Appendix Page: 5 Total:6

Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	2326	2167	2019	1813	1560	1205	860	593	757
C45	2326	2167	2019	1813	1560	1205	860	593	757
C90	2326	2167	2019	1813	1560	1205	860	593	757

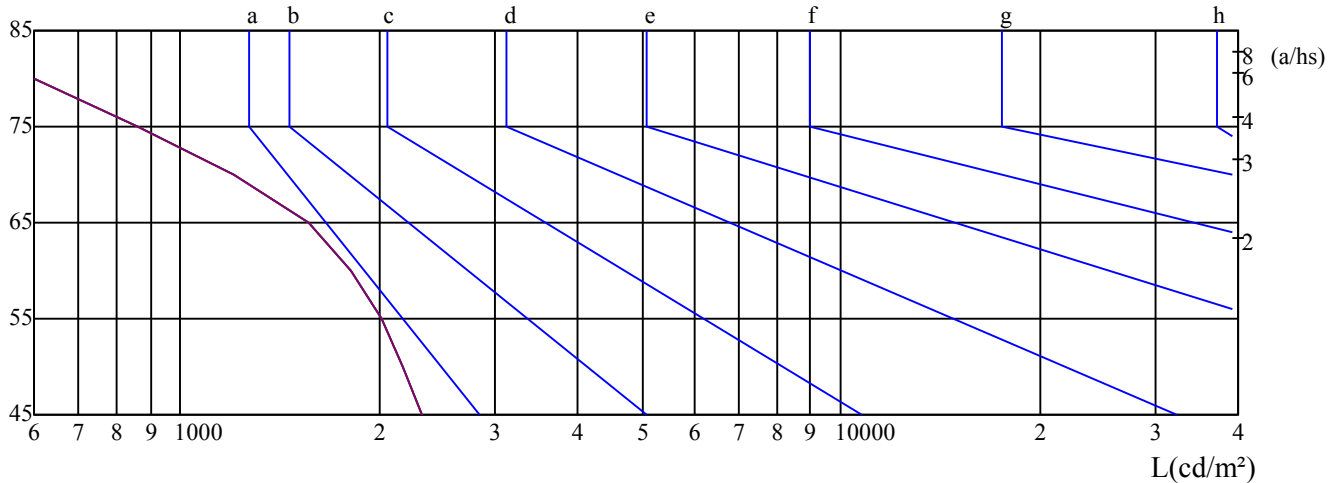
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1560	1560	1560	860	860	860	757	757	757

Glare Table

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

Luminance Limiting Curve

$\gamma(^{\circ})$



C0 ———

C45 ———

C90 ———

Equipment: equipamento lumini
Temperature($^{\circ}\text{C}$): 25.5

Date: 30/01/2025
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

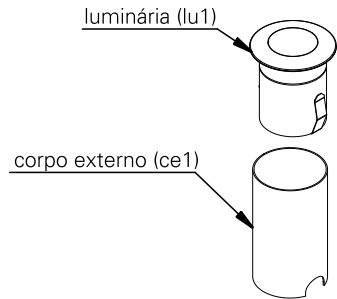
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.52	15.97	14.96	16.39	16.83	14.37	15.82	14.81	16.24	16.68
	3H	15.55	16.86	16.02	17.30	17.76	15.26	16.56	15.72	17.00	17.46
	4H	15.74	16.96	16.21	17.41	17.90	15.44	16.66	15.91	17.11	17.59
	6H	15.83	16.96	16.32	17.43	17.94	15.50	16.63	15.98	17.09	17.61
	8H	15.81	16.90	16.30	17.38	17.90	15.47	16.56	15.96	17.03	17.55
	12H	15.81	16.85	16.30	17.33	17.86	15.47	16.51	15.97	17.00	17.52
4H	2H	15.03	16.25	15.50	16.70	17.18	14.90	16.12	15.37	16.57	17.06
	3H	16.14	17.17	16.63	17.65	18.18	15.88	16.92	16.38	17.40	17.93
	4H	16.43	17.33	16.94	17.84	18.40	16.17	17.08	16.68	17.58	18.14
	6H	16.52	17.33	17.06	17.86	18.42	16.23	17.03	16.77	17.56	18.12
	8H	16.55	17.30	17.10	17.84	18.41	16.24	16.99	16.79	17.53	18.11
	12H	16.59	17.29	17.15	17.82	18.44	16.29	16.99	16.85	17.52	18.13
8H	4H	16.47	17.22	17.02	17.76	18.33	16.23	16.98	16.78	17.51	18.09
	6H	16.60	17.22	17.17	17.78	18.39	16.31	16.94	16.88	17.49	18.10
	8H	16.70	17.25	17.29	17.84	18.44	16.41	16.95	17.00	17.54	18.15
	12H	16.78	17.24	17.38	17.84	18.46	16.49	16.95	17.09	17.55	18.17
12H	4H	16.45	17.15	17.01	17.68	18.29	16.21	16.91	16.77	17.44	18.05
	6H	16.63	17.18	17.22	17.77	18.37	16.35	16.89	16.94	17.49	18.09
	8H	16.70	17.16	17.30	17.76	18.38	16.41	16.87	17.01	17.47	18.09
Variation with the observer position at spacings:											
S = 1.0H		0.5/-0.4					0.5/-0.4				
S = 1.5H		0.7/-1.0					0.7/-1.0				
S = 2.0H		1.7/-1.7					1.7/-1.7				
Standard tables:		BK3					BK3				
Uncorrected UGR		-0.7					-0.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25

manual do usuário

eye

eye r tr
eye r-d tr
eye r h
eye r-d h
eye r 12v h
mini solum way



atenção!

na instalação o profissional deve ser qualificado pela norma nacional nbr-5410 e de prevenção de acidentes nr-10, vigentes para segurança da instalação e garantia do produto.
não abra e nem faça modificações elétricas ou mecânicas no produto, não utilize de materiais selantes como silicone para vedação, tais procedimentos acarretará na perda da garantia e pode trazer riscos aos usuários.
nunca instale a luminária com cabo danificado, e somente a instale para a finalidade que foi projetada.
nunca transporte a luminária tracionando-a pelo cabo de alimentação elétrica.
prever na instalação elétrica disjuntor diferencial residual (dr) de sensibilidade 30ma.
por questões de segurança, as instalações em locais próximos a piscina e em áreas molhadas, é preciso respeitar uma distância mínima de 3,5m entre a luminária de tensão elétrica alternada e a área molhada.
certifique-se de conectar a luminária de tensão alternada (110Vac ou 220Vac) ao sistema de aterramento elétrico. em caso de luminária com driver em ponto remoto, tensão elétrica contínua, o sistema de aterramento não deve ser conectado na luminária.
manter sempre a luminária limpa para obter melhores resultados luminosos e garantir vida útil do produto, limpe com um pano macio e produtos com pH neutro, sem álcool, sem solventes e sem agentes abrasivos para evitar riscos e deformações à luminária.
as luminárias tem pintura protetora para ambientes de pH entre 5 a 8 como padrão, para acidez ou alcalinidade diversos, deverão ser adotadas medidas de proteção diferenciadas, para esses casos entrar em contato com a lumini.

especificações técnicas

fonte de luz
módulo led integrado (incluso)

índice de proteção
IP65 - luminária para uso externo

peso
eye r tr - 0,2 kg
eye r-d tr - 0,2 kg
eye r h - 0,2 kg
eye r-d h - 0,2 kg
eye r 12v h - 0,1 kg
mini solum way - 0,2 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
1 corpo externo

ferramentas necessárias
fita de autofusão

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

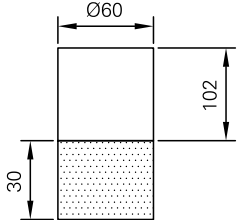
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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

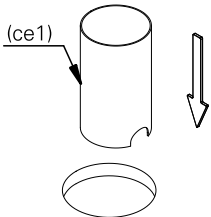
instalação passo a passo

solo / alvenaria

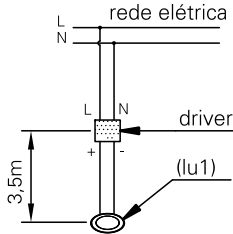
1.1. crie um nicho com as dimensões abaixo.
para instalação em terra preencha o fundo do nicho com 30mm de brita mais areia.
para instalação em alvenaria, desconsidere a brita e crie um sistema de drenagem.



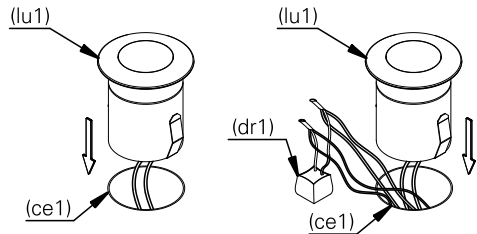
2.1. insira o corpo externo (ce1) no nicho e fixe-o de modo que seu topo fique faceando a superfície do piso acabado.



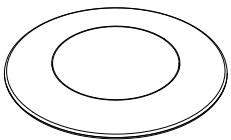
3.1. em caso de driver em ponto remoto, faça a ligação respeitando a distância até 5m entre a luminária (lu1) e o driver, para não acarretar no mal funcionamento.



4.1. encaixe a luminária no corpo externo (ce1).
obs: para eye r difusa dim fr phase tr, aloje o driver (dr1) no corpo externo (ce1).

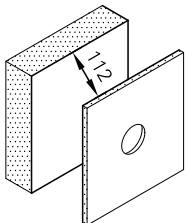


5.5 a luminária após instalada deverá ficar como ilustrado na imagem.
ligue a rede elétrica e teste o seu funcionamento.

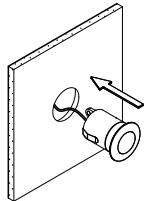


drywall

1.2. faça o nicho com o diâmetro de 60mm com a profundidade de 112mm conforme a imagem abaixo.
obs: mini eye r 12v h = nicho Ø53mm



2.2. faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.
após encaixe a luminária no nicho.
certifique-se que a tensão da luminária é compatível com a rede.



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

