focus sm a bath e

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

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
6	c	2700		
6	m	2700		
6	a	2700		
6	c	3000	900	751
6	m	3000	900	764
6	a	3000	900	772

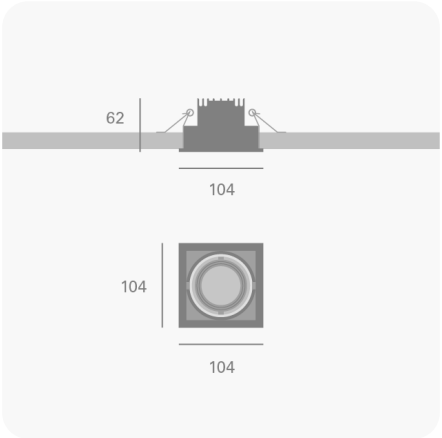
equipamentos
LED driver 180mA (incluso, ponto remoto)

controle
on/off
dim fphase
dim dali
dim 1-10V

instalação
forro de gesso
forro modular
marcenaria

IP
54

dimensões



acabamentos e cores

cores

grafite txt
corten


branco txt


cinza médio

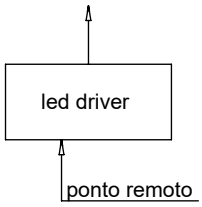

cinza areia


preto txt

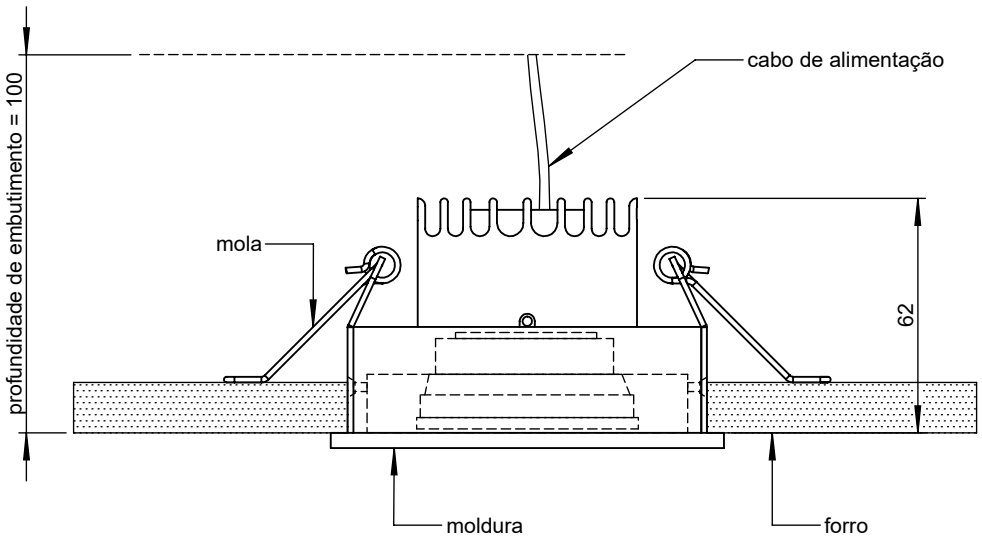

titânio

vista lateral

dimensões em milímetros

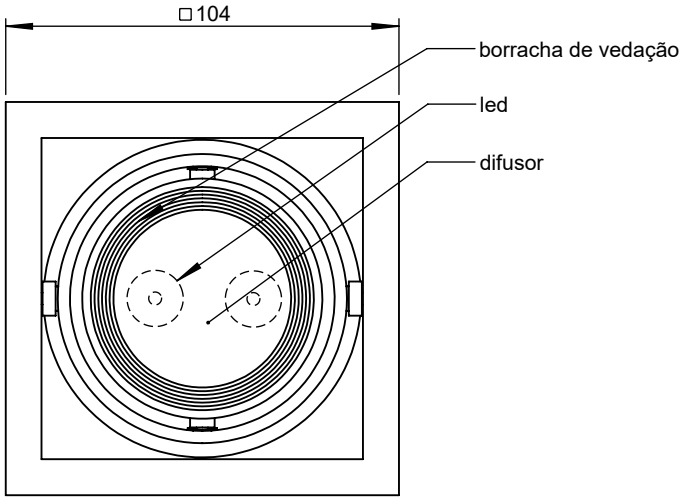


nicho= 96x96 mm



vista inferior

dimensões em milímetros



focus sm a bath e serie 3

folha
1/1

escala
1:2

data
18/02/2025

desenhista
joão v.

aprovação
severino

revisões

18/02/2025

para maiores informações,
consulte a área técnica
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lumini

LumCAT:
Luminaire: focus sm a bath serie 3 e fa
LampCAT: modulo led 6W 30K irc 90
Ballast type: led driver 180mA

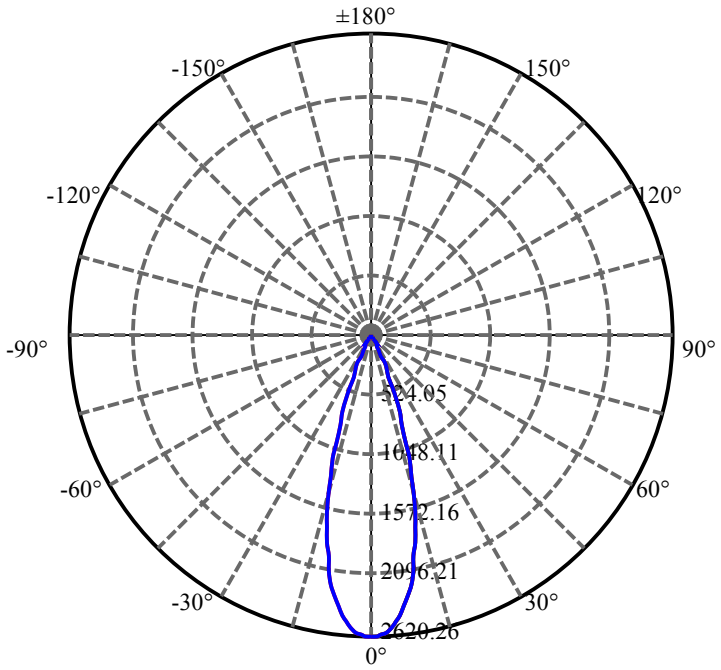
Report No:	Voltage(V): 127.0000
Test No:	Current(A): 0.0560
Number of Lamps: 1	Power (W): 7.0700
Lamp flux(lm): 900.0	PF: 0.9700
Length(mm): 55	Width(mm): 55
Phm Type: C	Height(mm): 0

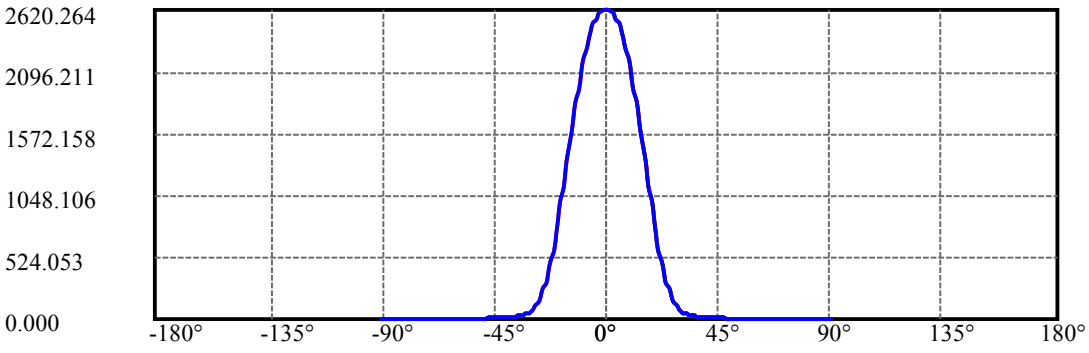
Photometric Results

Lumens(lm): 771.67, Efficiency(%): 85.74% , Luminous Efficacy(lm/W): 109.15
Central intensity(cd): 2620.264, Maximum intensity(cd): 2620.264
Angle of maximum intensity: C=0.0 γ=0.0
Beam angle of C0 plane : 31.52
Aveage BeamAngle(IEC 61341):31.52

Equipment: equipamento lumini	Date: 20/09/2024	Operator: 01
Temperature(°C): 25.5	Humidity(%): 55.0%	Distance(m): 6.90

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

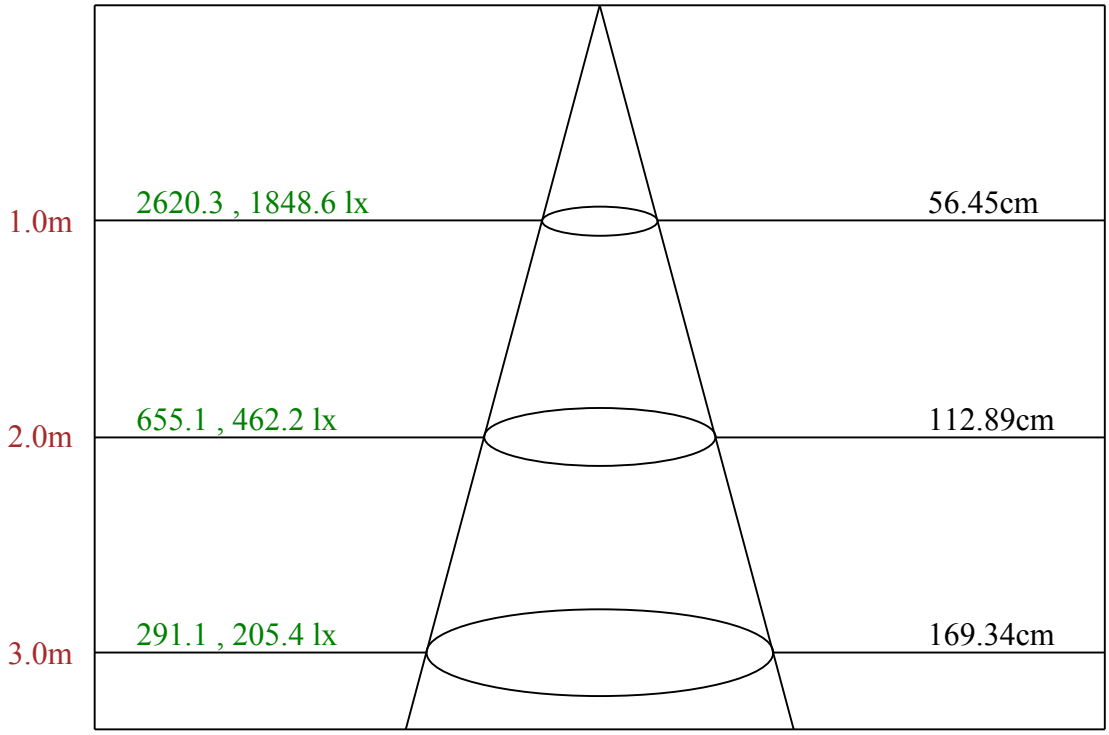
C90/C270:

Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

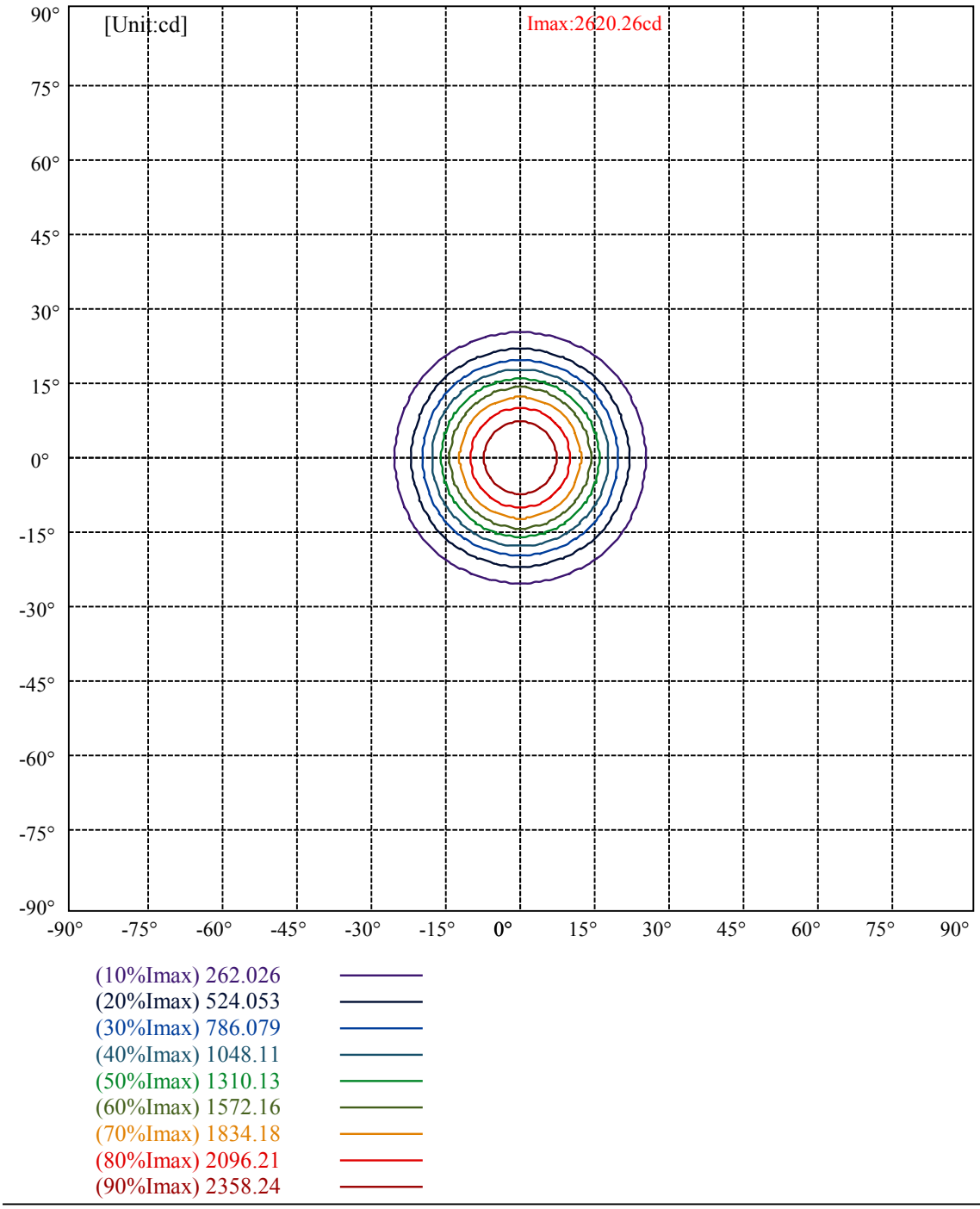
Lux distance Curve



Max , Ave

Beam angle of C0 plane 31.52

ISO-Intensity(V-H)



(10%Imax) 262.026
(20%Imax) 524.053
(30%Imax) 786.079
(40%Imax) 1048.11
(50%Imax) 1310.13
(60%Imax) 1572.16
(70%Imax) 1834.18
(80%Imax) 2096.21
(90%Imax) 2358.24

Equipment: equipamento lumini
Date: 20/09/2024
Operator: 01
Temperature(°C): 25.5
Humidity(%): 55.0%
Distance(m): 6.90

Luminance Limitting Curve(no luminous side)

Luminance Table

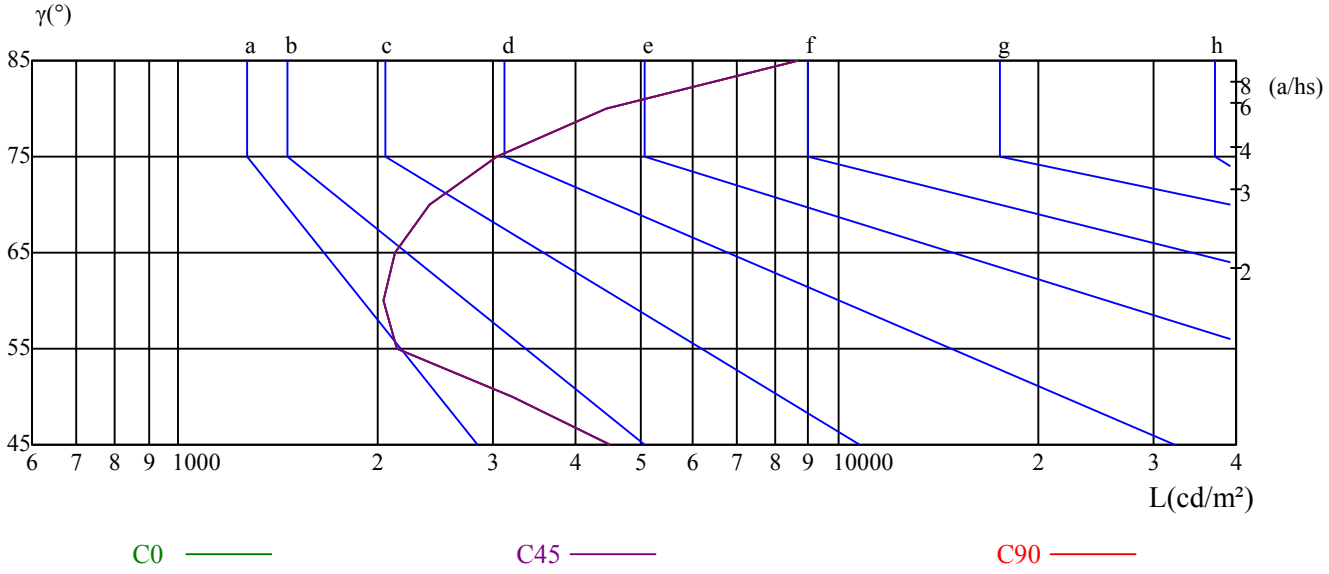
γ	45	50	55	60	65	70	75	80	85
C0	4496	3208	2140	2046	2123	2393	3041	4441	8668
C45	4496	3208	2140	2046	2123	2393	3041	4441	8668
C90	4496	3208	2140	2046	2123	2393	3041	4441	8668

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2123	2123	2123	3041	3041	3041	8668	8668	8668

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 Limitting 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	7.06	7.97	7.42	8.28	8.60	7.06	7.97	7.42	8.28	8.60
	3H	7.84	8.65	8.23	8.99	9.34	7.84	8.65	8.23	8.99	9.34
	4H	8.54	9.29	8.94	9.65	10.02	8.54	9.29	8.94	9.65	10.02
	6H	9.64	10.33	10.06	10.70	11.10	9.64	10.33	10.06	10.70	11.10
	8H	10.37	11.03	10.80	11.41	11.82	10.37	11.03	10.80	11.41	11.82
	12H	11.29	11.91	11.71	12.30	12.72	11.29	11.91	11.71	12.30	12.72
4H	2H	7.12	7.87	7.52	8.22	8.59	7.12	7.87	7.52	8.22	8.59
	3H	8.20	8.83	8.63	9.23	9.64	8.20	8.83	8.63	9.23	9.64
	4H	9.22	9.76	9.66	10.19	10.64	9.22	9.76	9.66	10.19	10.64
	6H	10.61	11.09	11.08	11.54	11.99	10.61	11.09	11.08	11.54	11.99
	8H	11.54	11.99	12.03	12.45	12.92	11.54	11.99	12.03	12.45	12.92
	12H	12.67	13.08	13.16	13.53	14.06	12.67	13.08	13.16	13.53	14.06
8H	4H	9.61	10.06	10.10	10.52	10.99	9.61	10.06	10.10	10.52	10.99
	6H	11.33	11.69	11.83	12.17	12.68	11.33	11.69	11.83	12.17	12.68
	8H	12.53	12.83	13.07	13.36	13.85	12.53	12.83	13.07	13.36	13.85
	12H	13.91	14.14	14.46	14.66	15.18	13.91	14.14	14.46	14.66	15.18
12H	4H	9.74	10.15	10.23	10.60	11.13	9.74	10.15	10.23	10.60	11.13
	6H	11.62	11.93	12.16	12.45	12.95	11.62	11.93	12.16	12.45	12.95
	8H	12.91	13.14	13.46	13.66	14.18	12.91	13.14	13.46	13.66	14.18
Variation with the observer position at spacings:											
S = 1.0H		2.1/-1.6					2.1/-1.6				
S = 1.5H		2.5/-1.5					2.5/-1.5				
S = 2.0H		2.9/-1.3					2.9/-1.3				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.0					-4.0				

依据CIE Publ. 117 计算 UGR，S/H = 0.25

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lumini

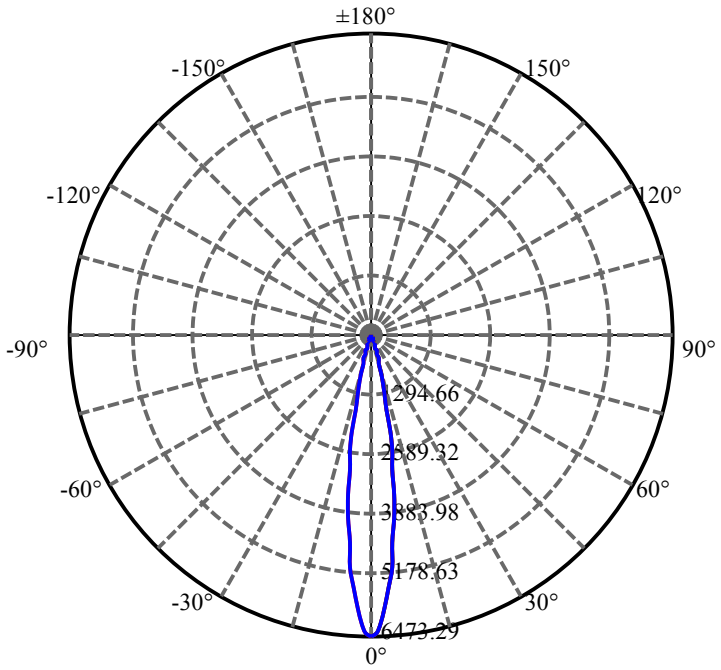
LumCAT:
Luminaire: focus sm a bath serie 3 e 6W 30K fc
LampCAT: modulo led 6W 30K irc 90
Ballast type: led driver 180mA

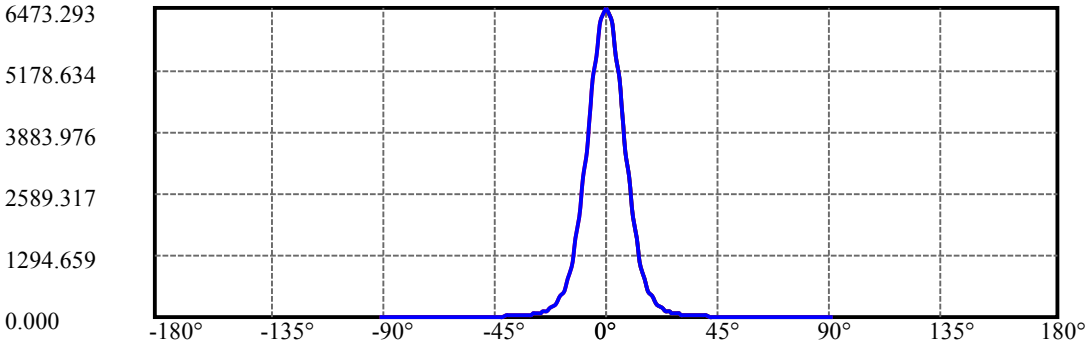
Report No:	Voltage(V): 127.0000
Test No:	Current(A): 0.0560
Number of Lamps: 1	Power (W): 7.0700
Lamp flux(lm): 900.0	PF: 0.9700
Length(mm): 55	Width(mm): 55
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 750.53, Efficiency(%): 83.39% , Luminous Efficacy(lm/W): 106.16
Central intensity(cd): 6473.293, Maximum intensity(cd): 6473.293
Angle of maximum intensity: C=0.0 γ=0.0
Beam angle of C0 plane : 16.81
Aveage BeamAngle(IEC 61341):16.81

Light Distribution Curve [Unit:cd]



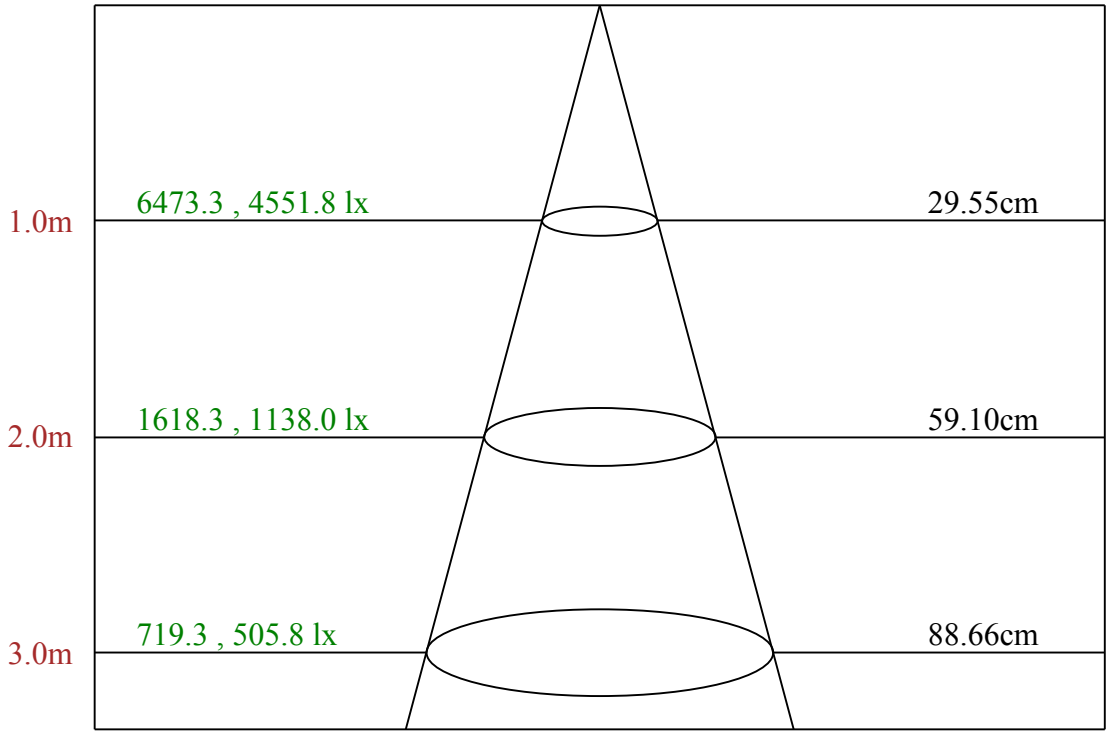


C0(Max):

C0/C180:

C90/C270:

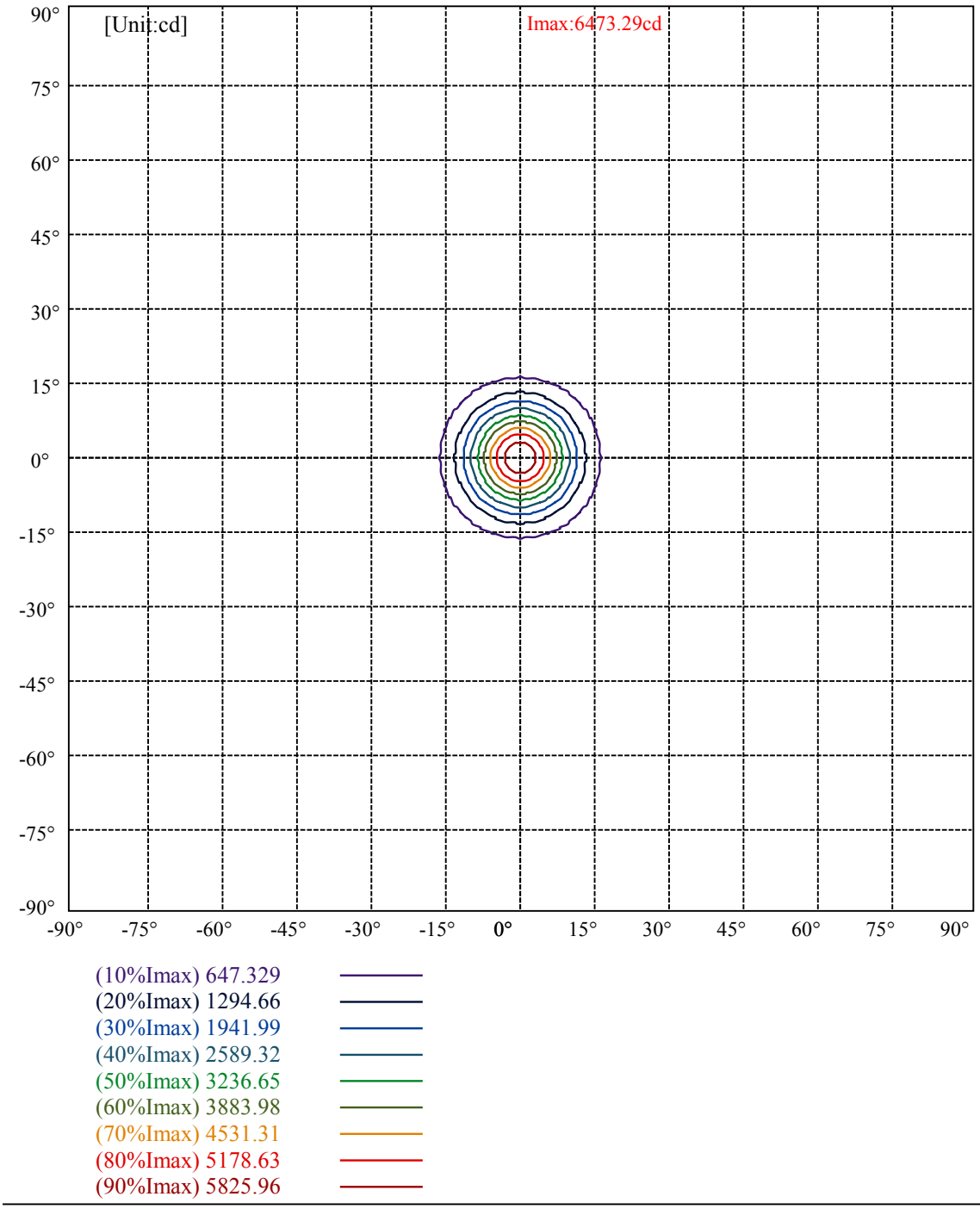
Lux distance Curve



Max , Ave

Beam angle of C0 plane 16.81

ISO-Intensity(V-H)



Equipment: equipamento lumini
Temperature(°C): 25.5

Date: 20/09/2024
Humidity(%): 55.0%

Operator: 01
Distance(m): 6.90

Luminance Limitting Curve(no luminous side)

Luminance Table

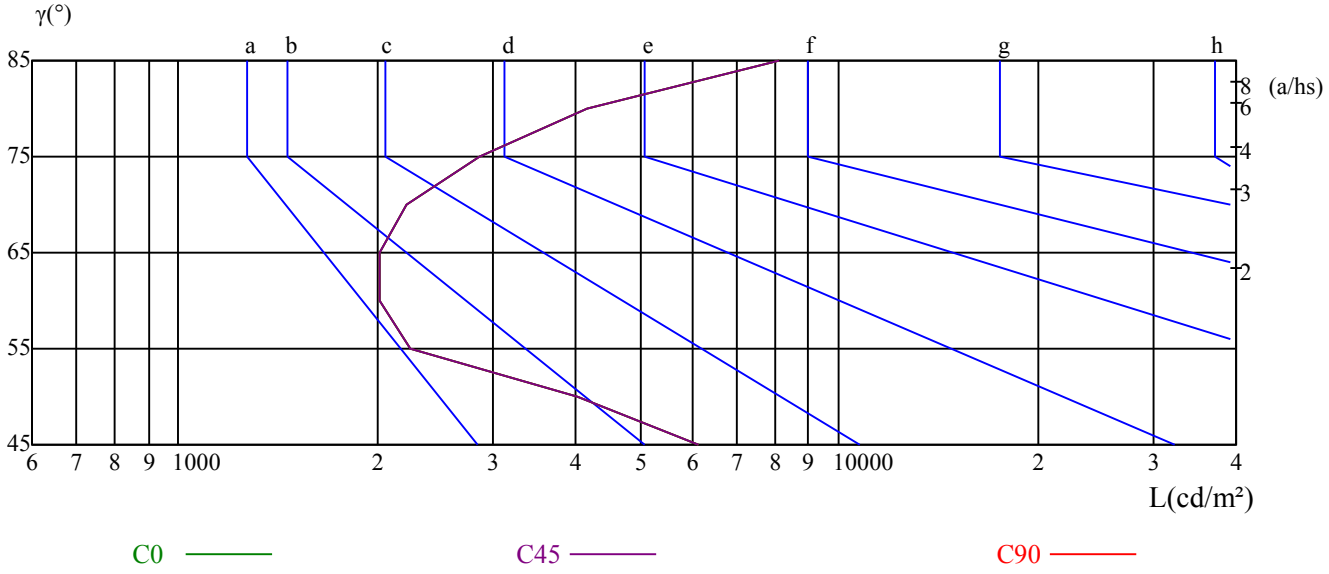
γ	45	50	55	60	65	70	75	80	85
C0	6143	4016	2250	2015	2011	2209	2858	4169	8126
C45	6143	4016	2250	2015	2011	2209	2858	4169	8126
C90	6143	4016	2250	2015	2011	2209	2858	4169	8126

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2011	2011	2011	2858	2858	2858	8126	8126	8126

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 Limitting 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	8.17	9.09	8.53	9.40	9.72	8.17	9.09	8.53	9.40	9.72
	3H	8.63	9.45	9.02	9.79	10.13	8.63	9.45	9.02	9.79	10.13
	4H	9.12	9.88	9.52	10.23	10.60	9.12	9.88	9.52	10.23	10.60
	6H	9.98	10.67	10.40	11.04	11.44	9.98	10.67	10.40	11.04	11.44
	8H	10.57	11.22	10.99	11.61	12.02	10.57	11.22	10.99	11.61	12.02
	12H	11.35	11.97	11.78	12.37	12.79	11.35	11.97	11.78	12.37	12.79
4H	2H	8.12	8.88	8.52	9.23	9.60	8.12	8.88	8.52	9.23	9.60
	3H	8.81	9.44	9.24	9.84	10.26	8.81	9.44	9.24	9.84	10.26
	4H	9.59	10.14	10.03	10.56	11.01	9.59	10.14	10.03	10.56	11.01
	6H	10.74	11.22	11.21	11.67	12.13	10.74	11.22	11.21	11.67	12.13
	8H	11.55	11.99	12.04	12.45	12.93	11.55	11.99	12.04	12.45	12.93
	12H	12.58	12.99	13.07	13.44	13.96	12.58	12.99	13.07	13.44	13.96
8H	4H	9.88	10.32	10.36	10.78	11.26	9.88	10.32	10.36	10.78	11.26
	6H	11.35	11.71	11.85	12.19	12.71	11.35	11.71	11.85	12.19	12.71
	8H	12.43	12.73	12.97	13.26	13.76	12.43	12.73	12.97	13.26	13.76
	12H	13.73	13.96	14.27	14.48	15.00	13.73	13.96	14.27	14.48	15.00
12H	4H	9.98	10.39	10.47	10.84	11.36	9.98	10.39	10.47	10.84	11.36
	6H	11.61	11.91	12.15	12.44	12.94	11.61	11.91	12.15	12.44	12.94
	8H	12.78	13.01	13.32	13.53	14.05	12.78	13.01	13.32	13.53	14.05

Variation with the observer position at spacings:		
S = 1.0H	1.8/-2.1	1.8/-2.1
S = 1.5H	2.5/-1.7	2.5/-1.7
S = 2.0H	3.0/-1.5	3.0/-1.5
Standard tables:	BKBF	BKBF
Uncorrected UGR	-3.7	-3.7

依据CIE Publ. 117 计算 UGR，S/H = 0.25

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lumini

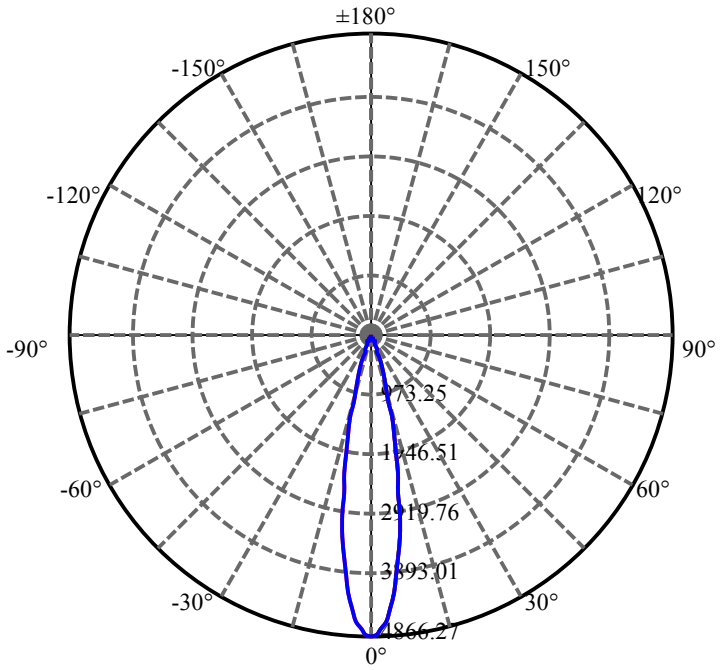
LumCAT:
Luminaire: focus sm a bath serie 3 e fm
LampCAT: modulo led 6W 30K irc 90
Ballast type: led driver 180mA

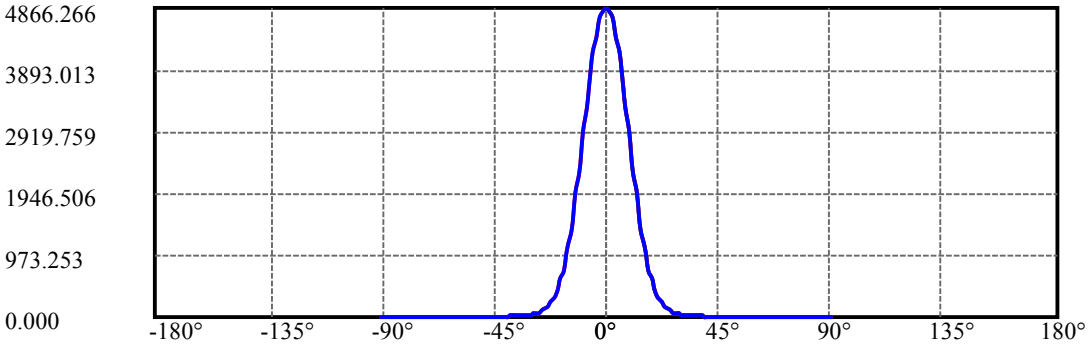
Report No:	Voltage(V): 127.0000
Test No:	Current(A): 0.0560
Number of Lamps: 1	Power (W): 7.0700
Lamp flux(lm): 900.0	PF: 0.9700
Length(mm): 55	Width(mm): 55
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 764.41, Efficiency(%): 84.93% , Luminous Efficacy(lm/W): 108.12
Central intensity(cd): 4866.266, Maximum intensity(cd): 4866.266
Angle of maximum intensity: C=0.0 γ=0.0
Beam angle of C0 plane : 20.91
Aveage BeamAngle(IEC 61341):20.91

Light Distribution Curve [Unit:cd]



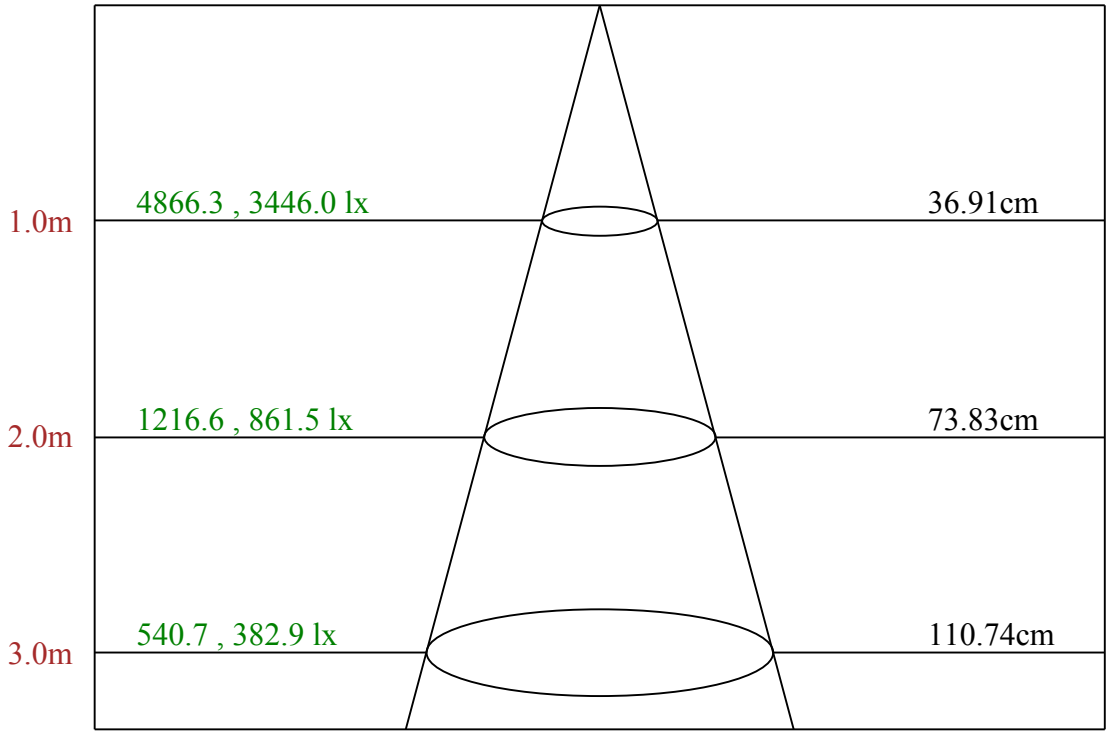


C0(Max):

C0/C180:

C90/C270:

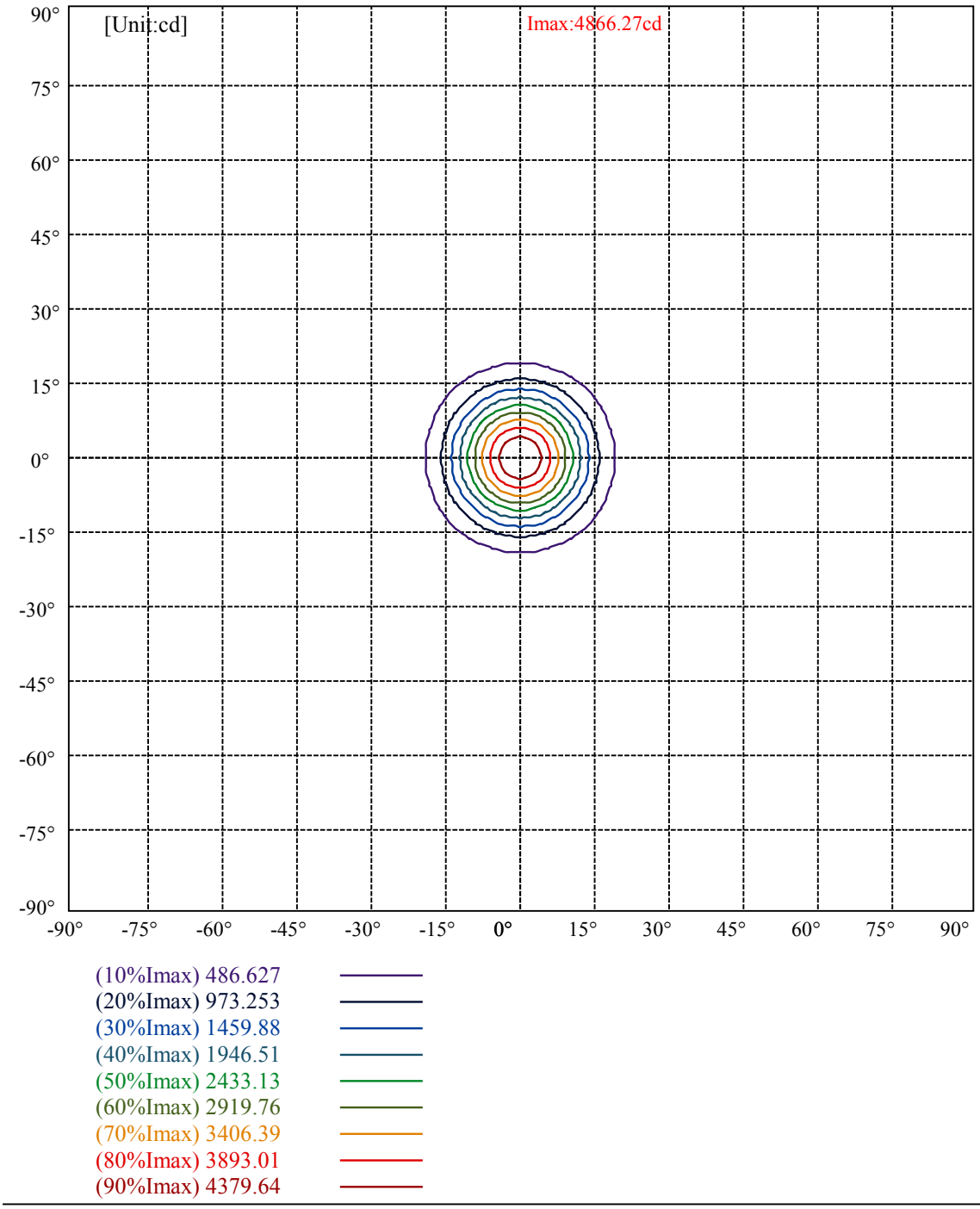
Lux distance Curve



Max , Ave

Beam angle of C0 plane 20.91

ISO-Intensity(V-H)



(10%Imax) 486.627
(20%Imax) 973.253
(30%Imax) 1459.88
(40%Imax) 1946.51
(50%Imax) 2433.13
(60%Imax) 2919.76
(70%Imax) 3406.39
(80%Imax) 3893.01
(90%Imax) 4379.64

Equipment: equipamento lumini
Temperature(°C): 25.5
Date: 20/09/2024
Humidity(%): 55.0%
Operator: 01
Distance(m): 6.90

Luminance Limitting Curve(no luminous side)

Luminance Table

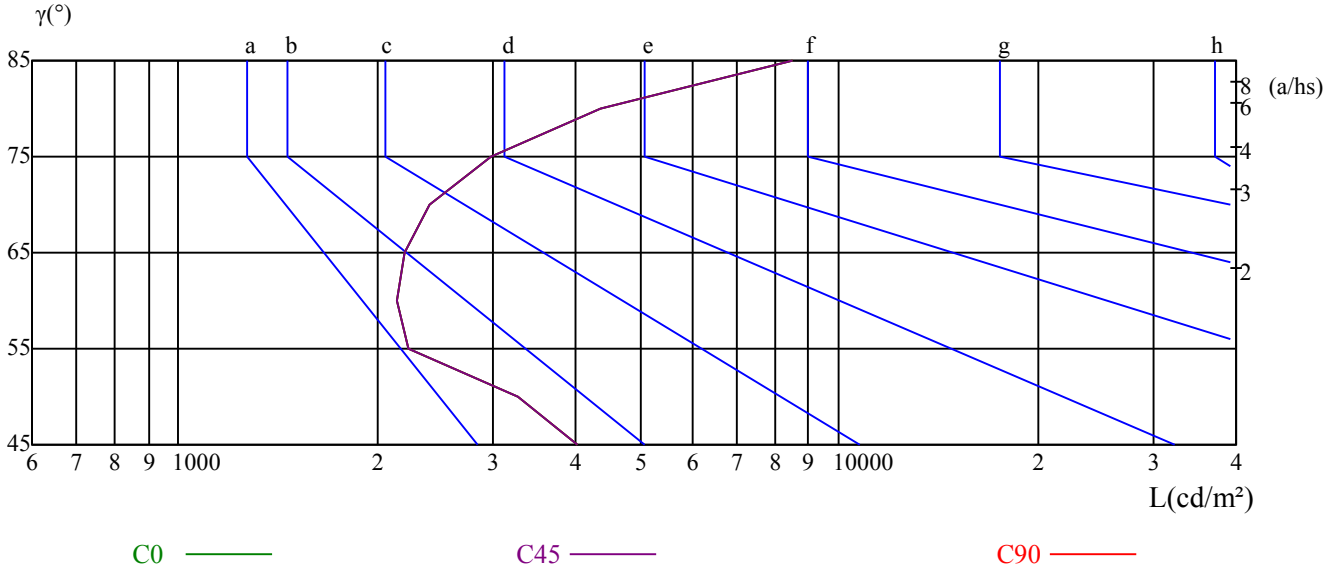
γ	45	50	55	60	65	70	75	80	85
C0	4029	3257	2223	2140	2197	2393	2980	4351	8487
C45	4029	3257	2223	2140	2197	2393	2980	4351	8487
C90	4029	3257	2223	2140	2197	2393	2980	4351	8487

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2197	2197	2197	2980	2980	2980	8487	8487	8487

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 Limitting Curve



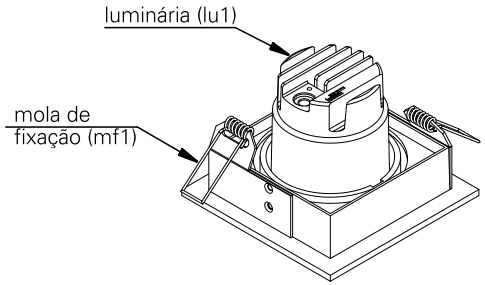
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	6.36	7.27	6.72	7.58	7.90	6.36	7.27	6.72	7.58	7.90
	3H	7.38	8.19	7.77	8.53	8.88	7.38	8.19	7.77	8.53	8.88
	4H	8.15	8.91	8.56	9.26	9.63	8.15	8.91	8.56	9.26	9.63
	6H	9.33	10.01	9.75	10.39	10.79	9.33	10.01	9.75	10.39	10.79
	8H	10.10	10.75	10.52	11.14	11.55	10.10	10.75	10.52	11.14	11.55
	12H	11.04	11.66	11.47	12.06	12.48	11.04	11.66	11.47	12.06	12.48
4H	2H	6.55	7.30	6.95	7.66	8.02	6.55	7.30	6.95	7.66	8.02
	3H	7.86	8.49	8.29	8.89	9.30	7.86	8.49	8.29	8.89	9.30
	4H	8.94	9.48	9.38	9.91	10.36	8.94	9.48	9.38	9.91	10.36
	6H	10.38	10.86	10.85	11.31	11.76	10.38	10.86	10.85	11.31	11.76
	8H	11.34	11.78	11.82	12.24	12.72	11.34	11.78	11.82	12.24	12.72
	12H	12.48	12.89	12.98	13.35	13.87	12.48	12.89	12.98	13.35	13.87
8H	4H	9.36	9.80	9.84	10.26	10.73	9.36	9.80	9.84	10.26	10.73
	6H	11.12	11.48	11.63	11.96	12.48	11.12	11.48	11.63	11.96	12.48
	8H	12.34	12.64	12.88	13.17	13.66	12.34	12.64	12.88	13.17	13.66
	12H	13.74	13.97	14.29	14.49	15.01	13.74	13.97	14.29	14.49	15.01
12H	4H	9.49	9.90	9.98	10.35	10.88	9.49	9.90	9.98	10.35	10.88
	6H	11.43	11.73	11.96	12.25	12.75	11.43	11.73	11.96	12.25	12.75
	8H	12.73	12.95	13.27	13.47	14.00	12.73	12.95	13.27	13.47	14.00
Variation with the observer position at spacings:											
S = 1.0H		1.4/-1.2					1.4/-1.2				
S = 1.5H		1.6/-1.3					1.6/-1.3				
S = 2.0H		1.9/-1.2					1.9/-1.2				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		-4.4					-4.4				

依据CIE Publ. 117 计算 UGR，S/H = 0.25

manual do usuário

focus

	nicho
focus sm a cob série 2 e	96x96mm
focus sm b cob série 2 e	96x183mm
focus sm a série 3 e	96x96mm
focus sm b bath série 3 e	96x183mm
focus sm b série 3 e	96x183mm
focus sm b difusa série 2 e	96x183mm
focus sm a bath série 3 e	96x96mm
focus sm a difusa série 2 e	96x96mm
focus xsm a e	62x62mm
focus sm a dtw e	96x96mm
focus sm a e tr	96x96mm
focus sm b dtw e	96x183mm
focus sm b e tr	96x183mm



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.

lumini.com.br

especificações técnicas

fonte de luz
módulo led integrado (incluso)

índice de proteção
IP20 - luminária para uso interno

peso
focus sm a cob série 2 e - 0,6 kg
focus sm b cob série 2 e - 1,1 kg
focus sm a série 3 e - 0,5 kg
focus sm b bath série 3 e - 0,4 kg
focus sm b série 3 e - 0,8 kg
focus sm b difusa série 2 e - 0,8 kg
focus sm a bath série 3 e - 0,4 kg
focus sm a difusa série 2 e - 0,5 kg
focus xsm a e - 0,3 kg
focus sm a dtw e - 0,5 kg
focus sm a e tr - 0,5 kg
focus sm b dtw e - 0,8 kg
focus sm b e tr - 0,8 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.

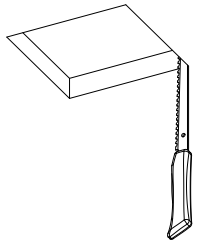
antes de iniciar a instalação, certifique-se que a energia elétrica esteja desligada.

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

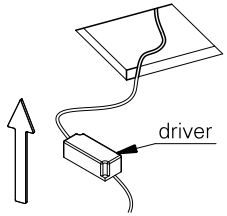
instalação passo a passo

lumini

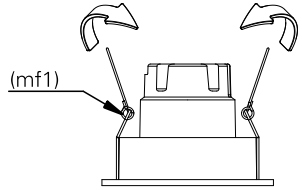
1. faça um nicho no forro conforme o modelo do produto na tabela.



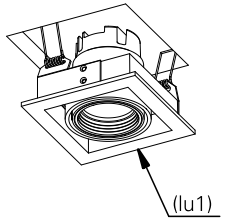
2. aloje o driver sobre o forro.
faça a ligação elétrica. isole os fios separadamente com fita isolante. repita a operação envolvendo o conjunto dos fios, vedando completamente a emenda.
obs: drivers não se aplicam para versões tr



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.