wing darklight

design fernando prado

projetor orientável em alumínio para fixação em trilho. possui forma e orientação inspirados no flap da asa de um avião, além de aletas incorporadas ao desenho que atuam como dissipador de calor. moldura fixada por ímãs, sistema óptico com diferentes aberturas de lentes. essa luminária de dimensões reduzidas causa pouca interferência na arquitetura, o que a torna ideal para lojas e residências, além de museus e galerias.

informações técnicas

fonte de luz
LED integrado

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

vida útil
50.000h

facho

concentrado (10 a 20°)
médio (21 a 45°)
aberto (> 46°)
difuso

potência	facho	temperatura de…	fluxo luminoso…	fluxo luminoso útil	dimensões
20	concentrado	2700			201x126x40
20	médio	2700			201x126x40
20	aberto	2700			201x126x40
20	concentrado	3000	2100	1624	201x126x40
20	médio	3000	2100	1661	201x126x40
20	aberto	3000	2100	1422	201x126x40
20	concentrado	4000			201x126x40
20	médio	4000			201x126x40
20	aberto	4000			201x126x40

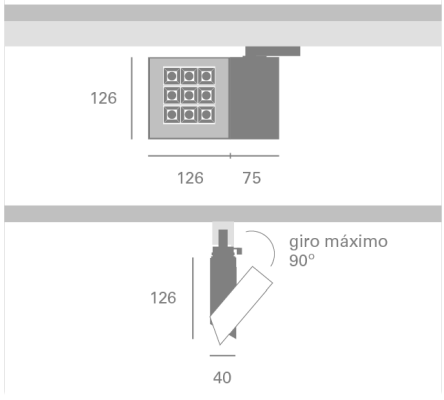
equipamentos
LED driver 700mA (dentro do produto)

controle
on/off

instalação
trilho

IP
20

dimensões

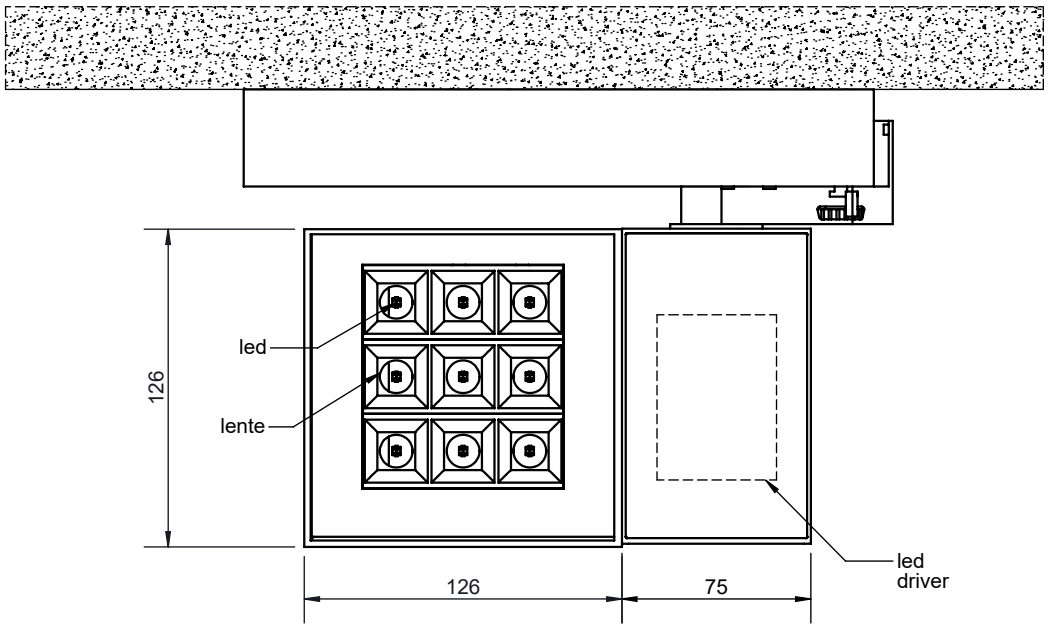


acabamentos e cores

cores

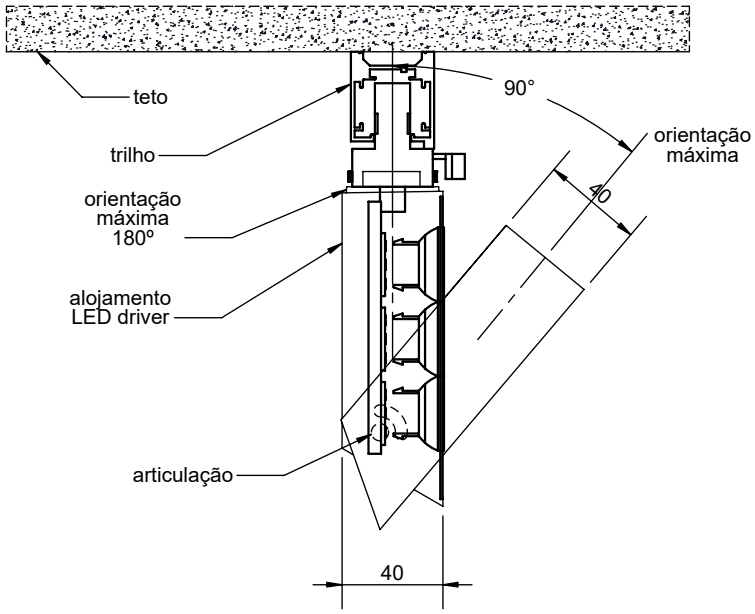
vista frontal

dimensões em milímetros



vista lateral

dimensões em milímetros



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wing darklight t3

folha 1/1

escala 1:3

data 10/11/2025

desenhista rafael

aprovação edmilson

revisões

10/11/2025

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

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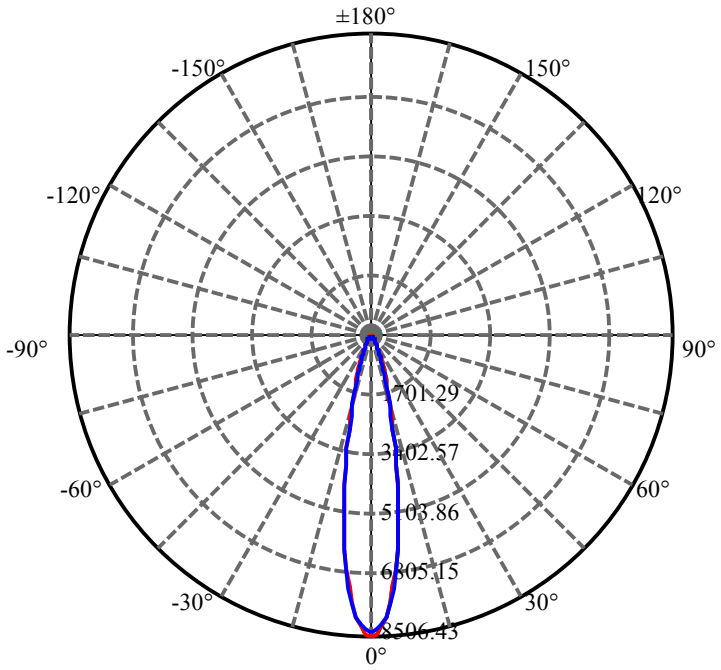
LumCAT:
Luminaire: wing darklight t3 fc
LampCAT: modulo led 19.8W 30K irc 90
Ballast type: led driver 700mA

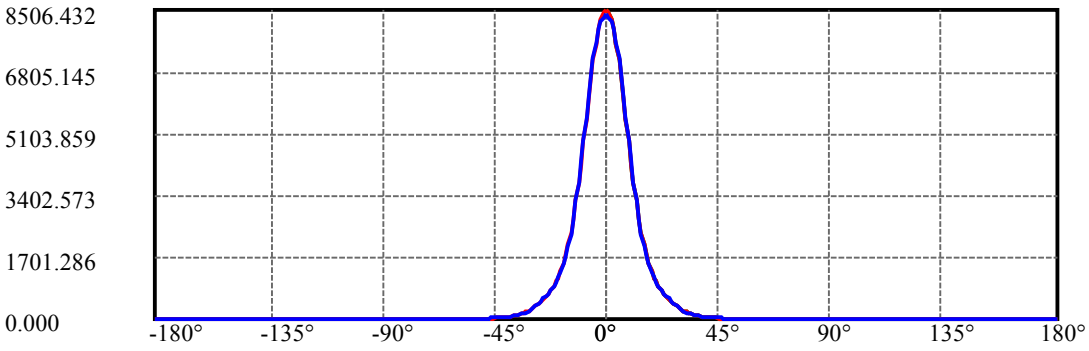
Report No:	Voltage(V): 127.7400
Test No:	Current(A): 0.1690
Number of Lamps: 1	Power (W): 21.3550
Lamp flux(lm): 2100.0	PF: 0.9920
Length(mm): 79	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1624.48, Efficiency(%): 77.36% , Luminous Efficacy(lm/W): 76.07
Central intensity(cd): 8506.432, Maximum intensity(cd): 8506.432
Angle of maximum intensity: C=0.0 γ=0.0
Beam angle of C0 plane : 19.98
Aveage BeamAngle(IEC 61341):20.52

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

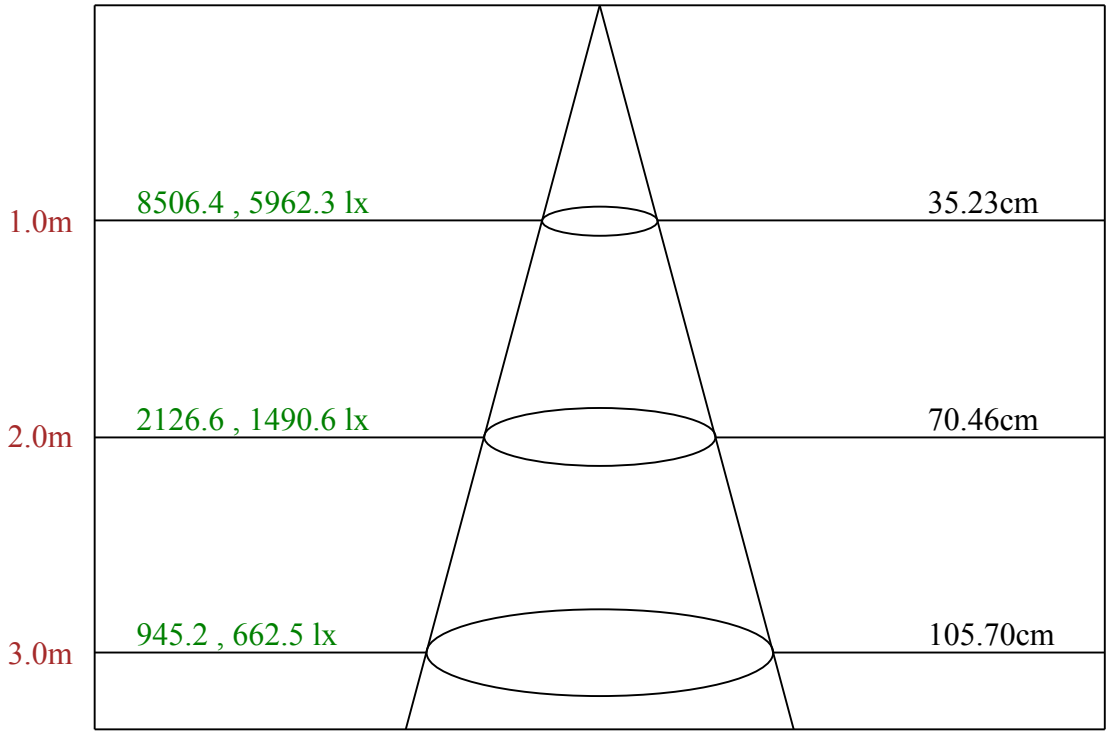
C90/C270:

Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/11/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

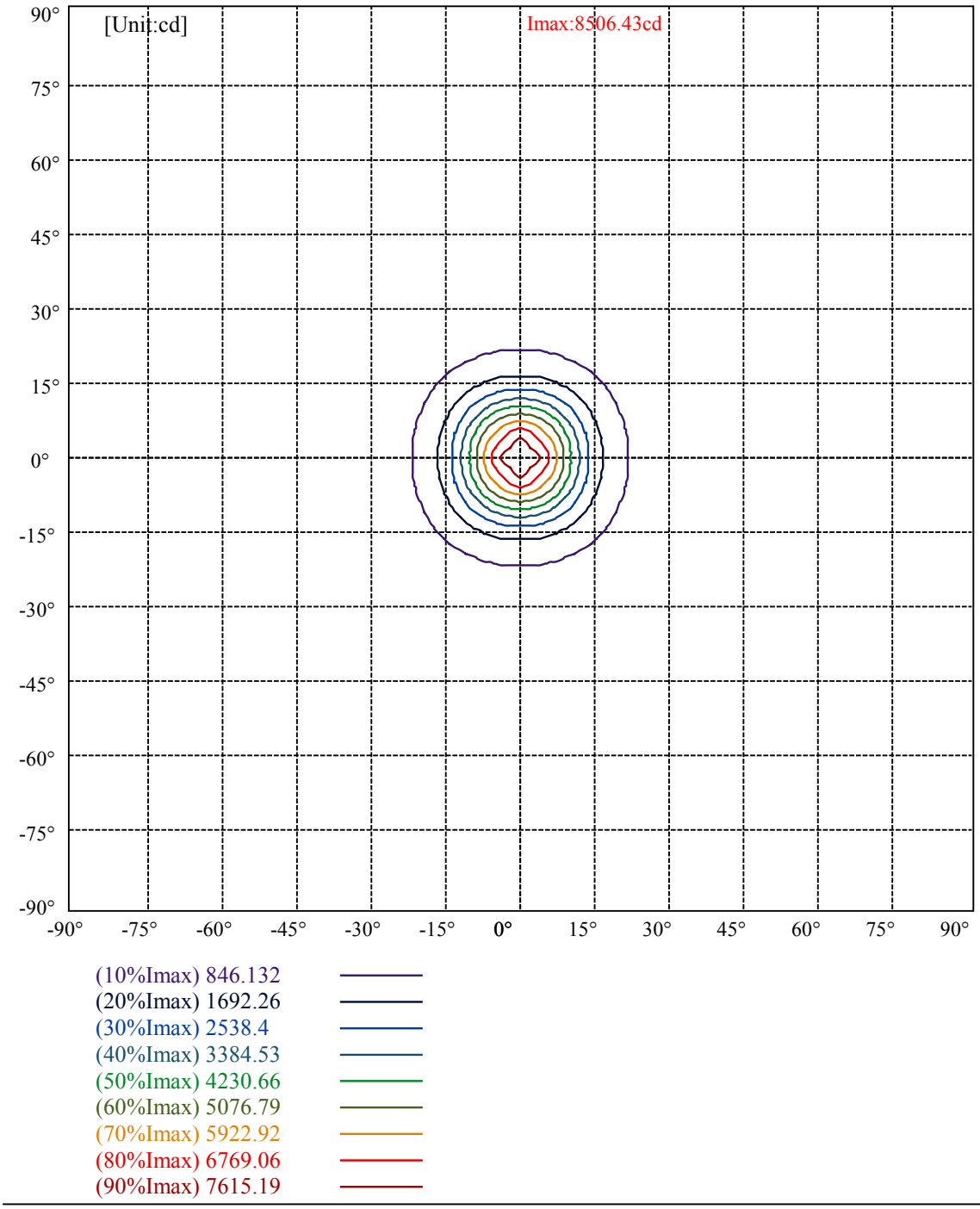
Lux distance Curve



Max , Ave

Beam angle of C0 plane 19.98

ISO-Intensity(V-H)



Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/11/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

Luminance Limitting Curve(no luminous side)

Luminance Table

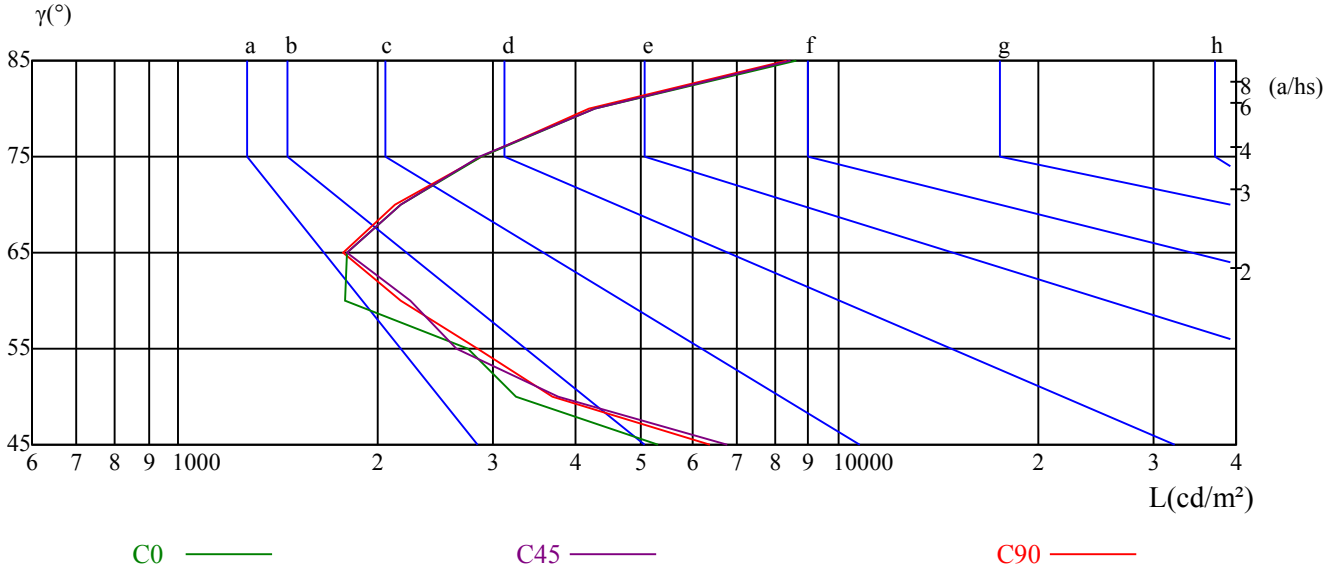
γ	45	50	55	60	65	70	75	80	85
C0	5327	3238	2737	1787	1799	2172	2870	4278	8603
C45	6779	3769	2645	2239	1795	2172	2856	4258	8442
C90	6387	3685	2834	2165	1774	2131	2870	4197	8362

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1799	1774	1795	2870	2870	2856	8603	8362	8442

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	13.27	14.18	13.68	14.53	14.91	13.21	14.11	13.61	14.47	14.84
	3H	13.21	14.02	13.64	14.40	14.80	13.15	13.95	13.57	14.33	14.73
	4H	13.28	14.02	13.72	14.42	14.84	13.21	13.95	13.65	14.35	14.77
	6H	13.51	14.19	13.97	14.61	15.06	13.44	14.12	13.90	14.54	14.99
	8H	13.70	14.35	14.17	14.78	15.24	13.63	14.28	14.09	14.71	15.17
	12H	14.04	14.66	14.51	15.09	15.56	13.96	14.58	14.43	15.01	15.48
4H	2H	13.03	13.78	13.47	14.18	14.60	12.97	13.71	13.41	14.11	14.53
	3H	13.02	13.64	13.48	14.08	14.55	12.95	13.58	13.42	14.01	14.48
	4H	13.22	13.76	13.69	14.22	14.72	13.15	13.69	13.63	14.16	14.66
	6H	13.60	14.08	14.11	14.57	15.07	13.53	14.01	14.04	14.50	15.00
	8H	13.98	14.42	14.50	14.92	15.44	13.90	14.34	14.43	14.84	15.36
	12H	14.56	14.96	15.09	15.46	16.03	14.48	14.88	15.01	15.38	15.95
8H	4H	13.19	13.63	13.71	14.13	14.65	13.13	13.57	13.65	14.07	14.59
	6H	13.78	14.14	14.32	14.65	15.21	13.71	14.07	14.25	14.59	15.15
	8H	14.39	14.69	14.96	15.24	15.79	14.32	14.62	14.89	15.18	15.72
	12H	15.24	15.47	15.82	16.02	16.59	15.16	15.39	15.74	15.94	16.52
12H	4H	13.20	13.60	13.73	14.09	14.66	13.14	13.54	13.67	14.04	14.60
	6H	13.91	14.21	14.48	14.77	15.31	13.84	14.14	14.42	14.70	15.25
	8H	14.57	14.80	15.15	15.36	15.93	14.51	14.74	15.09	15.29	15.86

Variation with the observer position at spacings:		
S = 1.0H	3.8/-3.2	4.0/-3.3
S = 1.5H	5.2/-2.5	5.4/-2.7
S = 2.0H	6.0/-2.1	6.2/-2.2
Standard tables:	BK4	BK4
Uncorrected UGR	-4.9	-4.8

依据CIE Publ. 117 计算 UGR，S/H = 0.25

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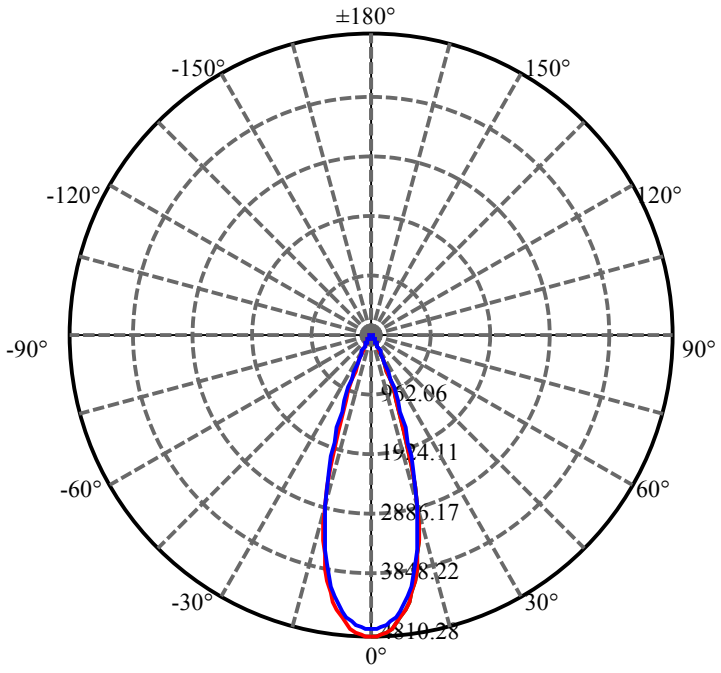
LumCAT:
Luminaire: wing darklight t3 fm
LampCAT: modulo led 19.8W 30K irc 90
Ballast type: led driver 700mA

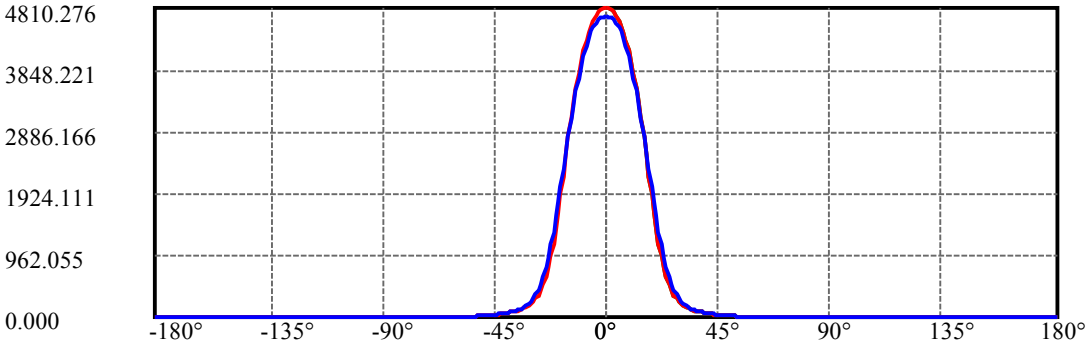
Report No:	Voltage(V): 127.7500
Test No:	Current(A): 0.1680
Number of Lamps: 1	Power (W): 21.3340
Lamp flux(lm): 2100.0	PF: 0.9920
Length(mm): 79	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1661.31, Efficiency(%): 79.11% , Luminous Efficacy(lm/W): 77.87
Central intensity(cd): 4810.276, Maximum intensity(cd): 4810.276
Angle of maximum intensity: C=0.0 γ=0.0
Beam angle of C0 plane : 32.76
Aveage BeamAngle(IEC 61341):33.61

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

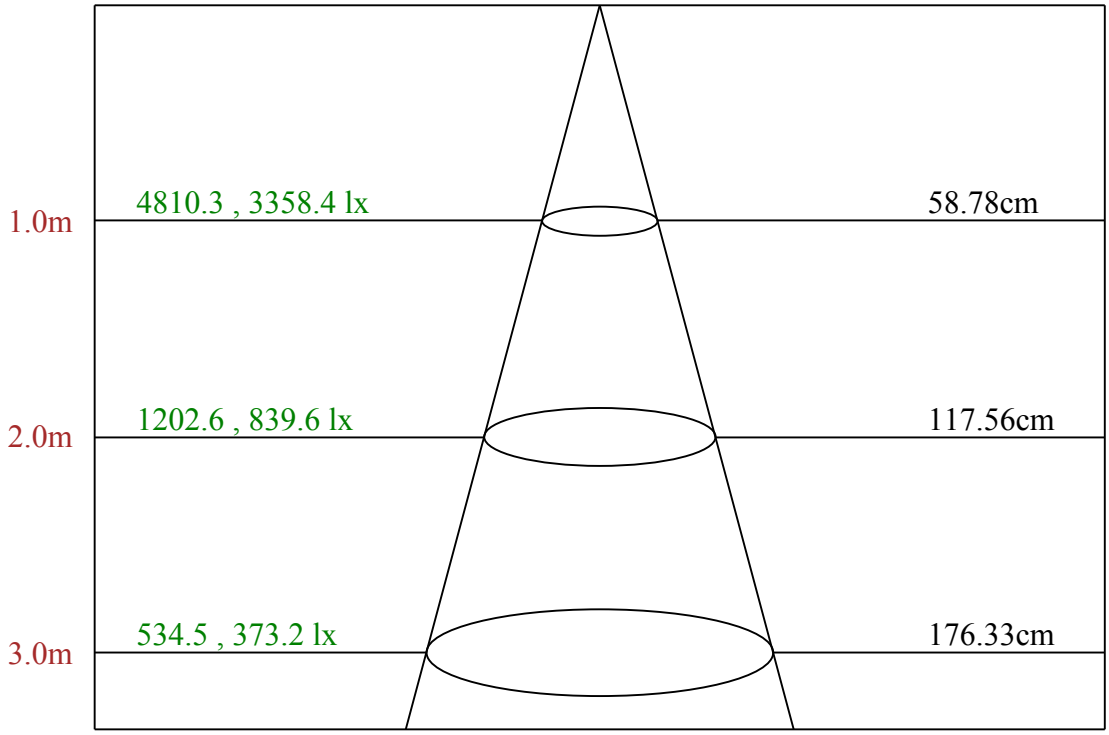
C90/C270:

Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/11/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

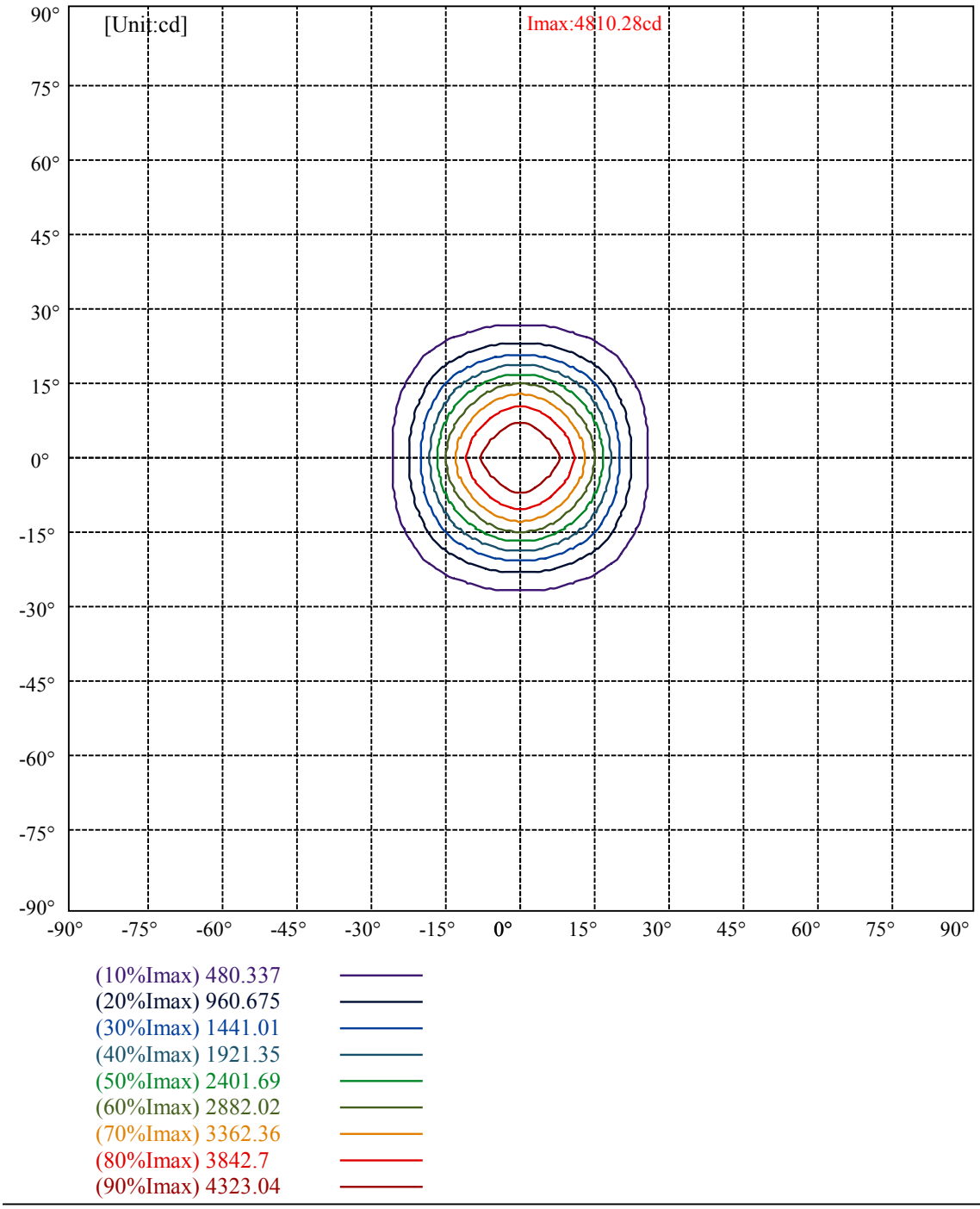
Lux distance Curve



Max , Ave

Beam angle of C0 plane 32.76

ISO-Intensity(V-H)



Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/11/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

Luminance Limitting Curve(no luminous side)

Luminance Table

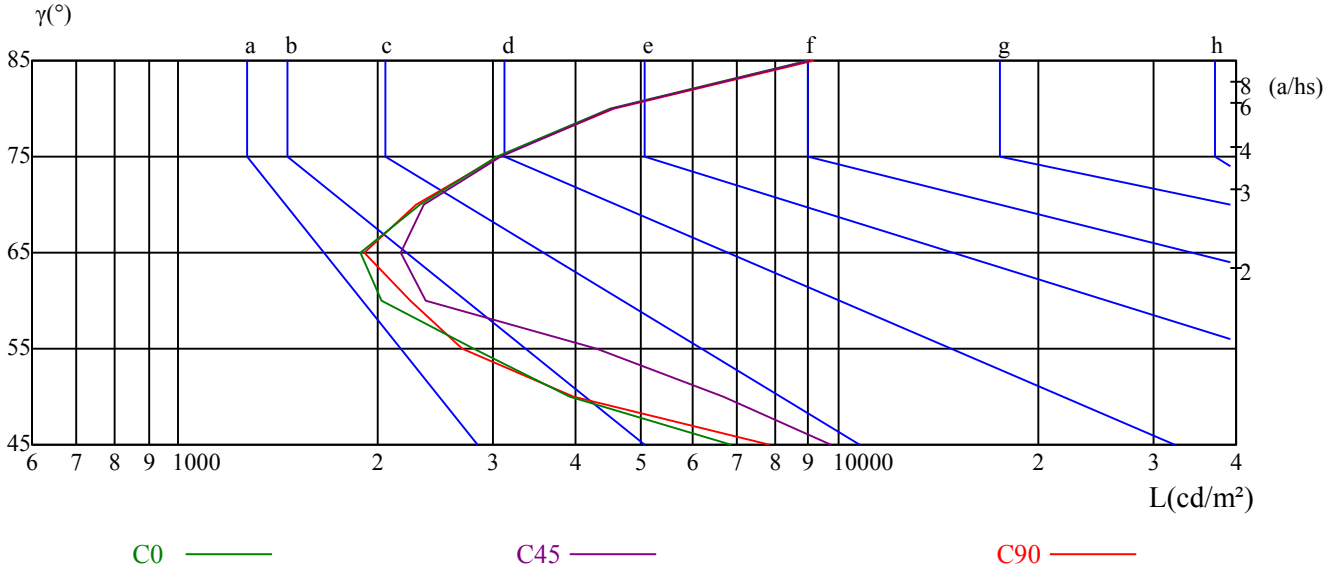
γ	45	50	55	60	65	70	75	80	85
C0	6863	3914	2792	2025	1890	2315	3032	4520	9005
C45	9725	6702	4307	2362	2168	2346	3073	4540	9025
C90	7859	3963	2688	2249	1907	2295	3060	4560	9166

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1890	1907	2168	3032	3060	3073	9005	9166	9025

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	12.96	13.87	13.36	14.23	14.60	13.69	14.61	14.10	14.97	15.34
	3H	12.93	13.74	13.36	14.13	14.53	13.63	14.45	14.06	14.83	15.23
	4H	13.03	13.78	13.47	14.18	14.60	13.69	14.44	14.14	14.84	15.27
	6H	13.32	14.00	13.78	14.43	14.88	13.92	14.60	14.38	15.03	15.48
	8H	13.56	14.21	14.02	14.64	15.10	14.11	14.77	14.57	15.20	15.66
	12H	13.94	14.56	14.41	15.00	15.47	14.44	15.06	14.91	15.50	15.97
4H	2H	12.78	13.53	13.22	13.93	14.35	13.49	14.24	13.93	14.64	15.06
	3H	12.81	13.44	13.28	13.88	14.35	13.47	14.10	13.94	14.54	15.01
	4H	13.06	13.61	13.54	14.07	14.57	13.66	14.21	14.14	14.67	15.17
	6H	13.52	14.00	14.04	14.50	15.00	14.03	14.51	14.54	15.01	15.51
	8H	13.95	14.39	14.48	14.89	15.42	14.40	14.85	14.93	15.35	15.87
	12H	14.59	14.99	15.11	15.49	16.06	14.97	15.38	15.49	15.87	16.44
8H	4H	13.07	13.51	13.59	14.01	14.54	13.63	14.08	14.16	14.58	15.10
	6H	13.76	14.12	14.30	14.64	15.20	14.20	14.57	14.75	15.09	15.65
	8H	14.43	14.73	15.00	15.29	15.84	14.81	15.11	15.38	15.67	16.22
	12H	15.34	15.58	15.92	16.13	16.70	15.64	15.87	16.22	16.43	17.00
12H	4H	13.09	13.50	13.62	13.99	14.56	13.64	14.05	14.17	14.55	15.12
	6H	13.91	14.21	14.48	14.77	15.32	14.34	14.64	14.91	15.20	15.75
	8H	14.65	14.88	15.23	15.44	16.01	15.00	15.23	15.58	15.79	16.36

Variation with the observer position at spacings:		
S = 1.0H	3.1/-3.5	2.9/-3.2
S = 1.5H	4.5/-2.7	4.1/-2.6
S = 2.0H	5.3/-2.3	4.9/-2.2
Standard tables:	BK4	BK4
Uncorrected UGR	-4.3	-4.5

依据CIE Publ. 117 计算 UGR，S/H = 0.25

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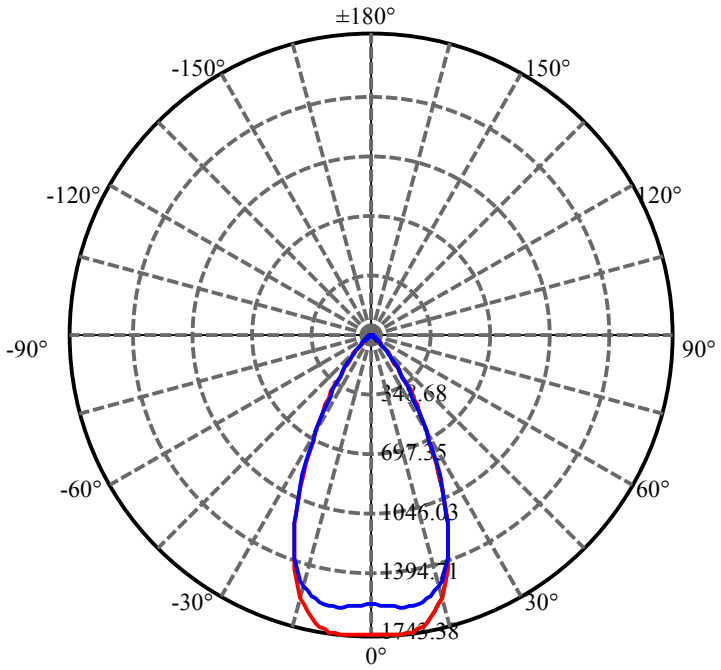
LumCAT:
Luminaire: wing darklight t3 fa
LampCAT: modulo led 19.8W 30K irc 90
Ballast type: led driver 700mA

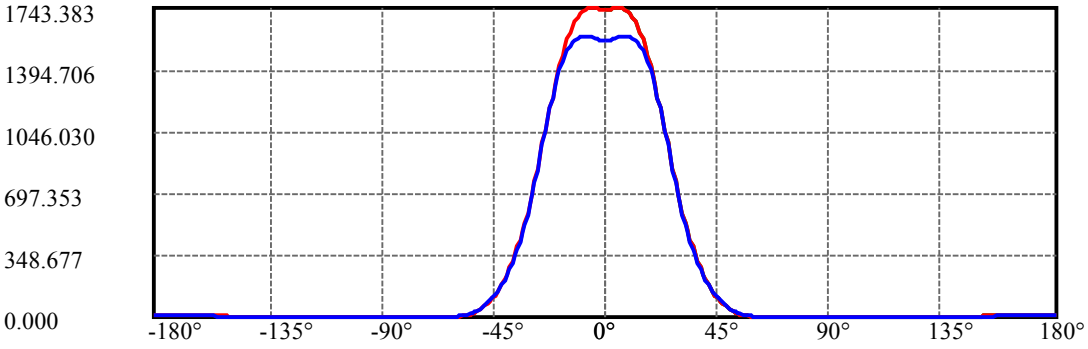
Report No:	Voltage(V): 127.7300
Test No:	Current(A): 0.1680
Number of Lamps: 1	Power (W): 21.3400
Lamp flux(lm): 2100.0	PF: 0.9920
Length(mm): 79	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1421.97, Efficiency(%): 67.71% , Luminous Efficacy(lm/W): 66.63
Central intensity(cd): 1734.623, Maximum intensity(cd): 1743.383
Angle of maximum intensity: C=0.0 γ=5.0
Beam angle of C0 plane : 52.93
Aveage BeamAngle(IEC 61341):55.35

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

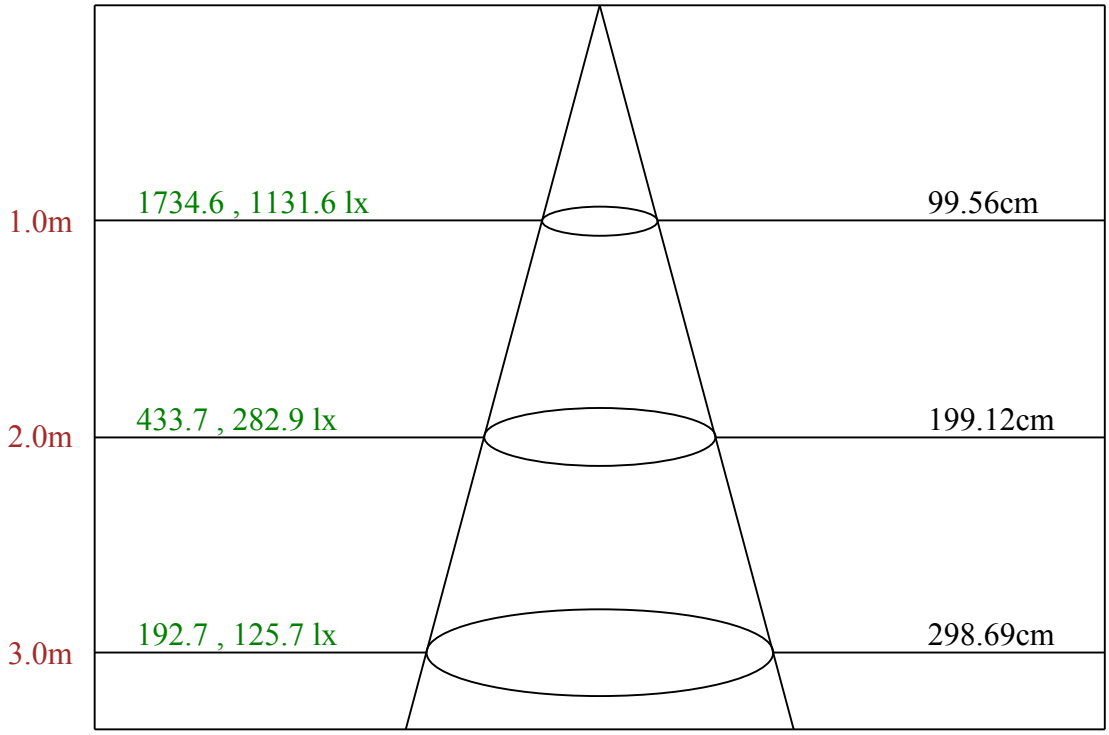
C90/C270:

Equipment: equipamento lumini
Temperature(°C): 25.0

Date: 25/11/2025
Humidity(%): 58.0%

Operator: 01
Distance(m): 6.90

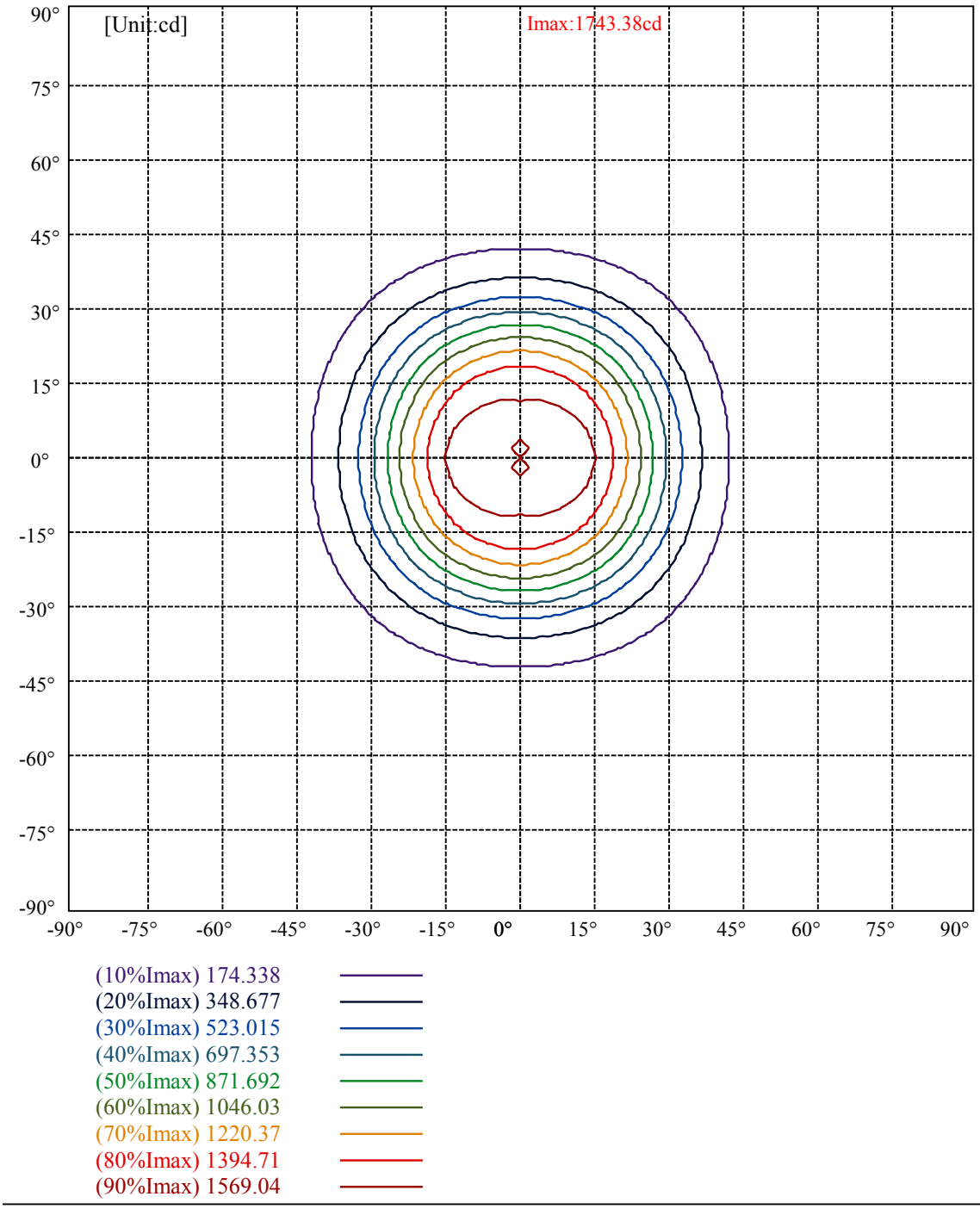
Lux distance Curve



Max , Ave

Beam angle of C0 plane 52.93

ISO-Intensity(V-H)



(10%Imax) 174.338
(20%Imax) 348.677
(30%Imax) 523.015
(40%Imax) 697.353
(50%Imax) 871.692
(60%Imax) 1046.03
(70%Imax) 1220.37
(80%Imax) 1394.71
(90%Imax) 1569.04

Equipment: equipamento lumini
Temperature(°C): 25.0
Date: 25/11/2025
Humidity(%): 58.0%
Operator: 01
Distance(m): 6.90

Luminance Limitting Curve(no luminous side)

Luminance Table

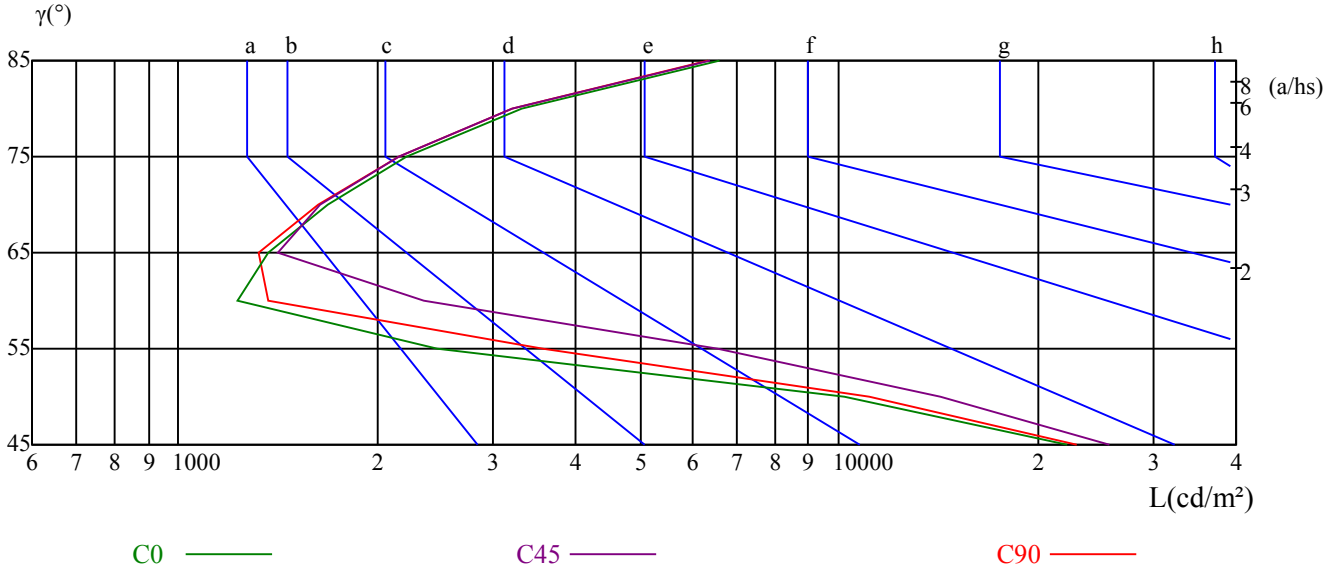
γ	45	50	55	60	65	70	75	80	85
C0	22130	10204	2462	1226	1368	1680	2220	3309	6593
C45	25660	14260	6552	2351	1418	1634	2153	3208	6372
C90	22947	11120	3568	1366	1327	1629	2153	3208	6352

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1368	1327	1418	2220	2153	2153	6593	6352	6372

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



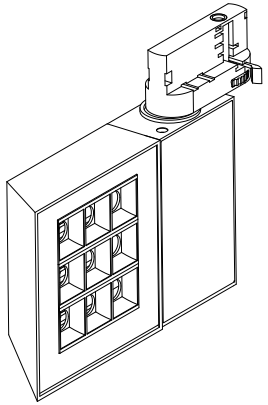
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	19.81	20.79	20.21	21.14	21.51	19.98	20.96	20.38	21.32	21.68
	3H	19.62	20.49	20.04	20.87	21.26	19.79	20.66	20.21	21.04	21.43
	4H	19.53	20.34	19.97	20.73	21.15	19.70	20.51	20.14	20.90	21.32
	6H	19.48	20.21	19.93	20.63	21.08	19.65	20.38	20.10	20.80	21.25
	8H	19.44	20.14	19.90	20.56	21.02	19.60	20.30	20.06	20.73	21.18
	12H	19.42	20.09	19.88	20.52	20.98	19.58	20.25	20.04	20.68	21.14
4H	2H	19.52	20.33	19.96	20.72	21.14	19.70	20.50	20.13	20.90	21.31
	3H	19.31	19.98	19.77	20.41	20.87	19.48	20.15	19.94	20.58	21.04
	4H	19.26	19.84	19.74	20.30	20.80	19.43	20.01	19.90	20.47	20.96
	6H	19.18	19.70	19.69	20.18	20.68	19.35	19.86	19.85	20.35	20.84
	8H	19.19	19.66	19.71	20.15	20.67	19.34	19.81	19.86	20.31	20.83
	12H	19.24	19.67	19.76	20.16	20.72	19.38	19.82	19.90	20.30	20.87
8H	4H	19.08	19.55	19.60	20.05	20.56	19.25	19.72	19.76	20.21	20.73
	6H	19.02	19.41	19.56	19.92	20.48	19.18	19.57	19.72	20.08	20.64
	8H	19.10	19.43	19.67	19.99	20.53	19.25	19.58	19.82	20.13	20.68
	12H	19.22	19.47	19.79	20.02	20.59	19.35	19.61	19.92	20.16	20.72
12H	4H	19.03	19.47	19.56	19.96	20.52	19.20	19.64	19.72	20.12	20.69
	6H	19.02	19.35	19.59	19.91	20.45	19.18	19.51	19.75	20.06	20.60
	8H	19.09	19.34	19.66	19.89	20.46	19.23	19.49	19.81	20.04	20.60

Variation with the observer position at spacings:		
S = 1.0H	4.0/-9.7	4.1/-10.4
S = 1.5H	6.5/-10.1	6.6/-10.0
S = 2.0H	8.4/-8.6	8.5/-8.5
Standard tables:	BK0	BK0
Uncorrected UGR	0.0	0.0

依据CIE Publ. 117 计算 UGR，S/H = 0.25

manual do usuário

wing
wing darklight t3



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
wing darklight t3 - 1,2kg

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.

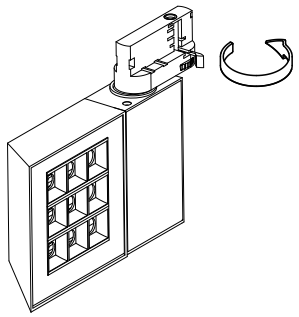
informações importantes
para a instalação, lave as mãos e seque as mãos, use luvas descartáveis.

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

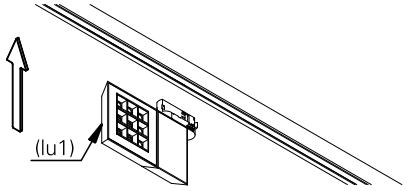
retire a luminária da embalagem com cuidado e apoie-o em uma superfície limpa e seca.

instalação passo a passo

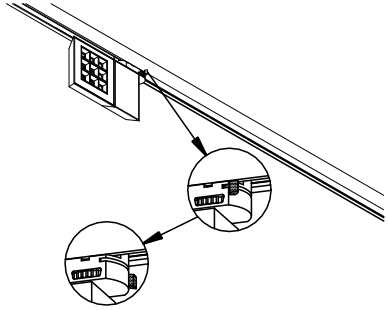
1. regule o circuito conforme o projeto.



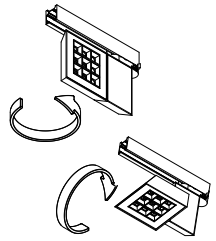
2. encaixe a luminária (lu1) no perfil.



3. trave a luminária no perfil conforme a figura abaixo.



4. ajuste o facho de luz girando a luminária conforme a figura abaixo.



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