



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

lumini

LumCAT:

Luminaire: downled xsm r difusa c

LampCAT: modulo led tr 5W 2700K irc 90

Ballast type:

Report No:

Voltage(V): 127.0000

Test No:

Current(A): 0.0360

Number of Lamps: 1

Power (W): 4.8500

Lamp flux(lm): 290.0

PF: 0.9300

Length(mm): 70

Width(mm): 70

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 160.56, Efficiency(%): 55.36% , Luminous Efficacy(lm/W): 33.10

Central intensity(cd): 92.173, Maximum intensity(cd): 92.173

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

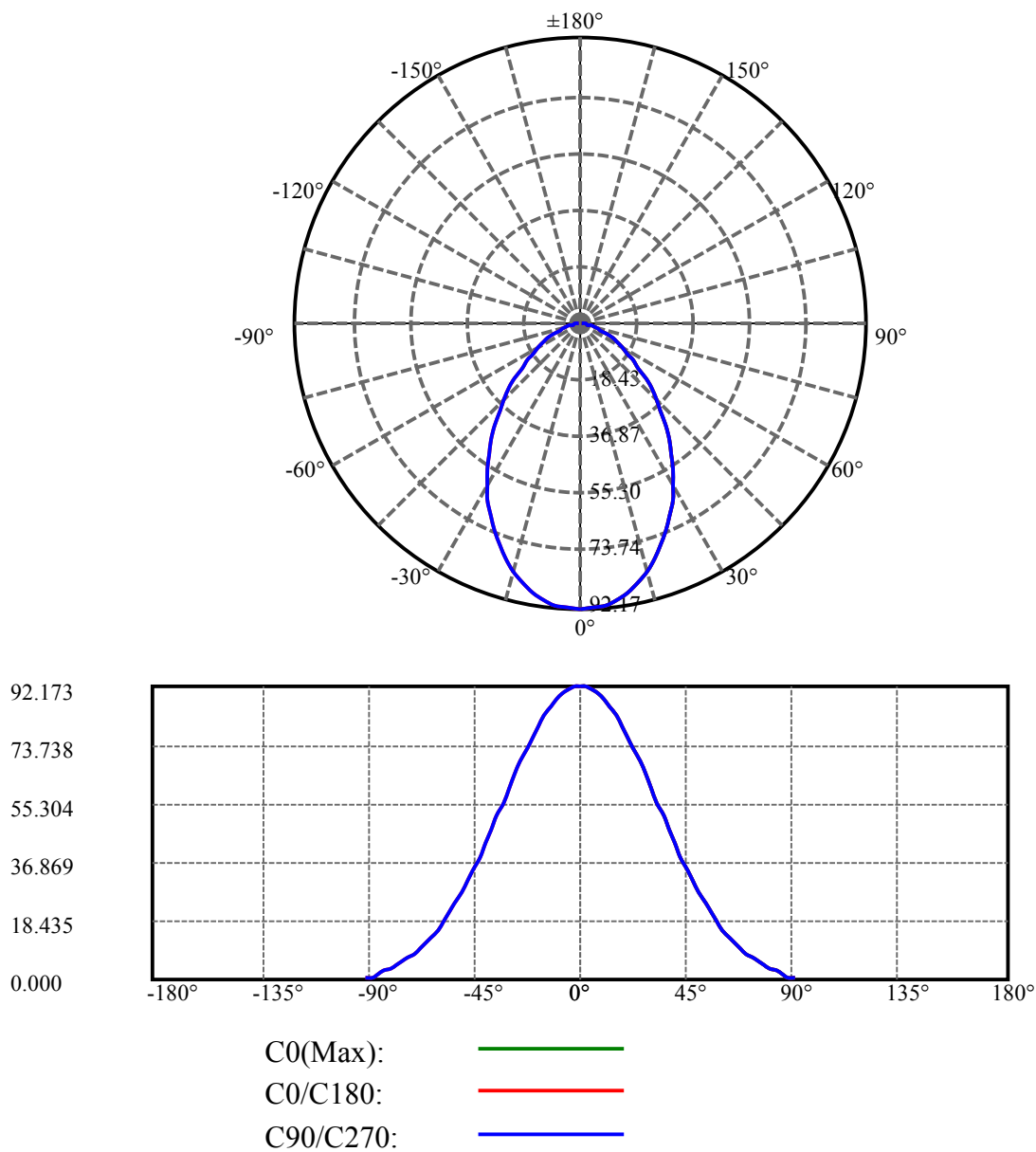
Beam angle of C0 plane : 76.53

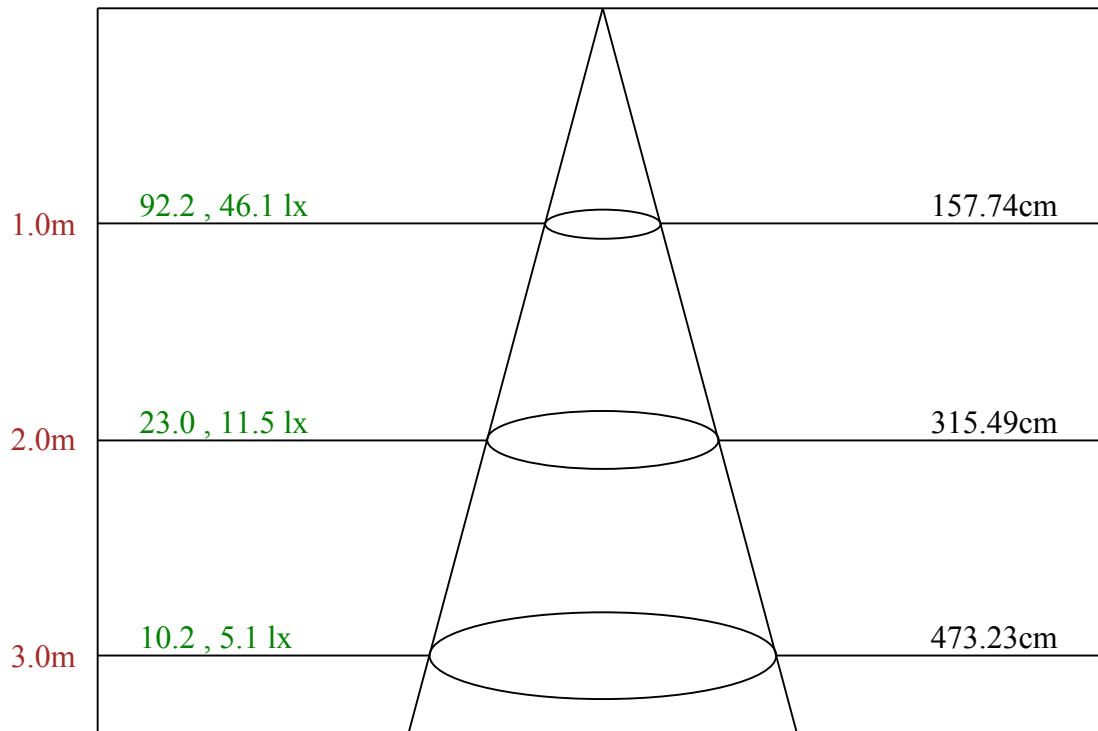
Average BeamAngle(IEC 61341): 76.53

Equipment:
Temperature(°C): 25.5

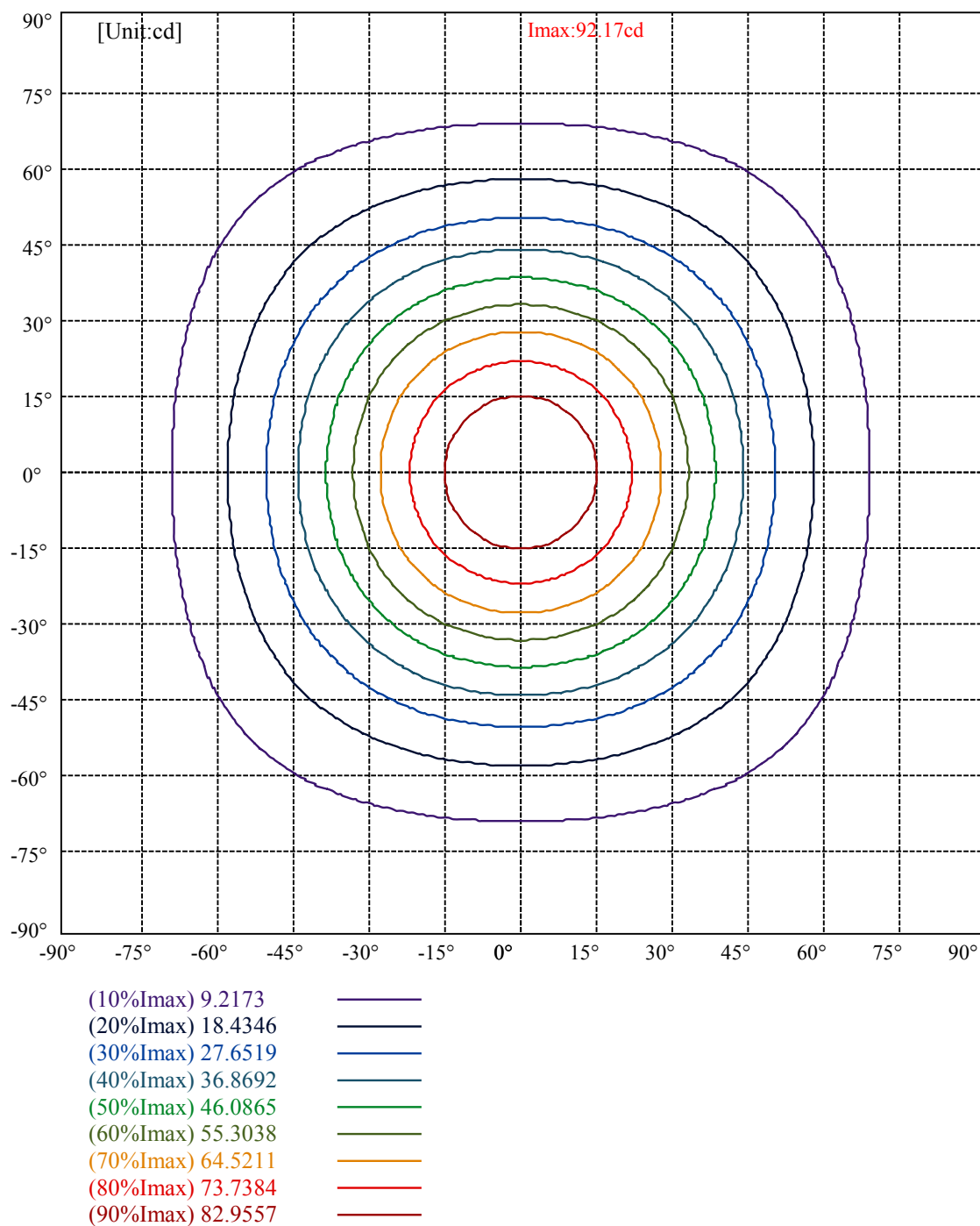
Date: 7/15/2024
Humidity(%): 55.0%

Operator:
Distance(m): 1.00





Max , Ave Beam angle of C0 plane 76.53



Luminance Table

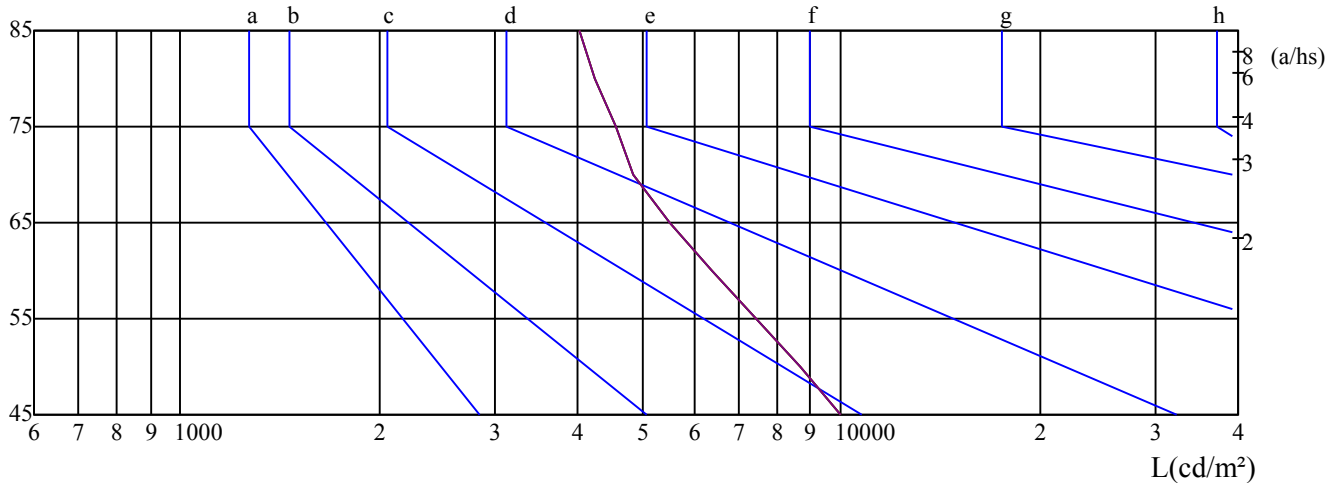
γ	45	50	55	60	65	70	75	80	85
C0	9976	8676	7437	6393	5495	4858	4580	4252	4013
C45	9976	8676	7437	6393	5495	4858	4580	4252	4013
C90	9976	8676	7437	6393	5495	4858	4580	4252	4013

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5495	5495	5495	4580	4580	4580	4013	4013	4013

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	18.84	20.28	19.20	20.60	20.91	18.84	20.28	19.20	20.60	20.91
	3H	19.78	21.08	20.16	21.42	21.76	19.78	21.08	20.16	21.42	21.76
	4H	20.17	21.38	20.56	21.73	22.10	20.17	21.38	20.56	21.73	22.10
	6H	20.49	21.62	20.90	21.99	22.38	20.49	21.62	20.90	21.99	22.38
	8H	20.58	21.67	21.00	22.05	22.45	20.58	21.67	21.00	22.05	22.45
	12H	20.64	21.68	21.06	22.07	22.48	20.64	21.68	21.06	22.07	22.48
4H	2H	19.24	20.46	19.63	20.81	21.17	19.24	20.46	19.63	20.81	21.17
	3H	20.34	21.37	20.76	21.76	22.17	20.34	21.37	20.76	21.76	22.17
	4H	20.90	21.80	21.33	22.22	22.66	20.90	21.80	21.33	22.22	22.66
	6H	21.30	22.10	21.77	22.55	22.99	21.30	22.10	21.77	22.55	22.99
	8H	21.47	22.22	21.94	22.67	23.13	21.47	22.22	21.94	22.67	23.13
	12H	21.60	22.29	22.08	22.73	23.24	21.60	22.29	22.08	22.73	23.24
8H	4H	21.06	21.80	21.53	22.25	22.72	21.06	21.80	21.53	22.25	22.72
	6H	21.58	22.20	22.07	22.67	23.17	21.58	22.20	22.07	22.67	23.17
	8H	21.86	22.41	22.38	22.92	23.41	21.86	22.41	22.38	22.92	23.41
	12H	22.06	22.51	22.59	23.02	23.54	22.06	22.51	22.59	23.02	23.54
12H	4H	21.07	21.76	21.54	22.20	22.71	21.07	21.76	21.54	22.20	22.71
	6H	21.66	22.20	22.18	22.72	23.20	21.66	22.20	22.18	22.72	23.20
	8H	21.94	22.40	22.47	22.91	23.42	21.94	22.40	22.47	22.91	23.42
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.6					0.3/-0.6				
S = 1.5H		0.7/-1.1					0.7/-1.1				
S = 2.0H		1.7/-1.4					1.7/-1.4				
Standard tables:		BK3					BK3				
Uncorrected UGR		3.5					3.5				

依据CIE Publ. 117 计算 UGR, S/H = 0.25