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LumCAT:

Luminaire: villa w 12W 27K irc 90

LampCAT: modulo 12W 27K irc 90

Ballast type:

Report No:

Voltage(V): 127.8200

Test No:

Current(A): 0.1030

Number of Lamps: 1

Power (W): 12.2050

Lamp flux(lm): 1200.0

PF: 0.9300

Length(mm): 310

Width(mm): 310

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 609.72, Efficiency(%): 50.81% , Luminous Efficacy(lm/W): 49.96

Central intensity(cd): 241.335, Maximum intensity(cd): 242.055

Angle of maximum intensity: C=0.0 γ =8.0

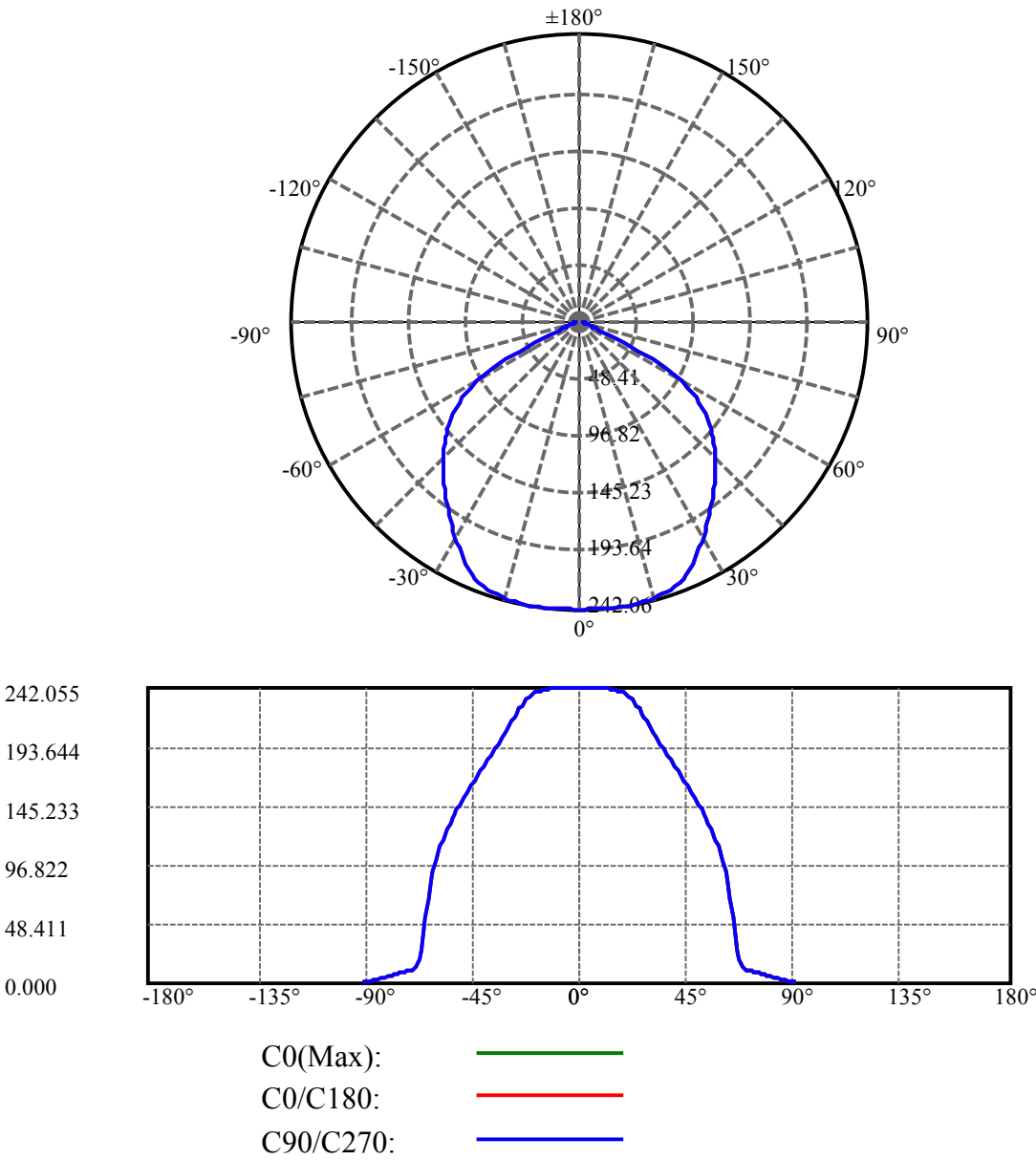
Beam angle of C0 plane : 112.49

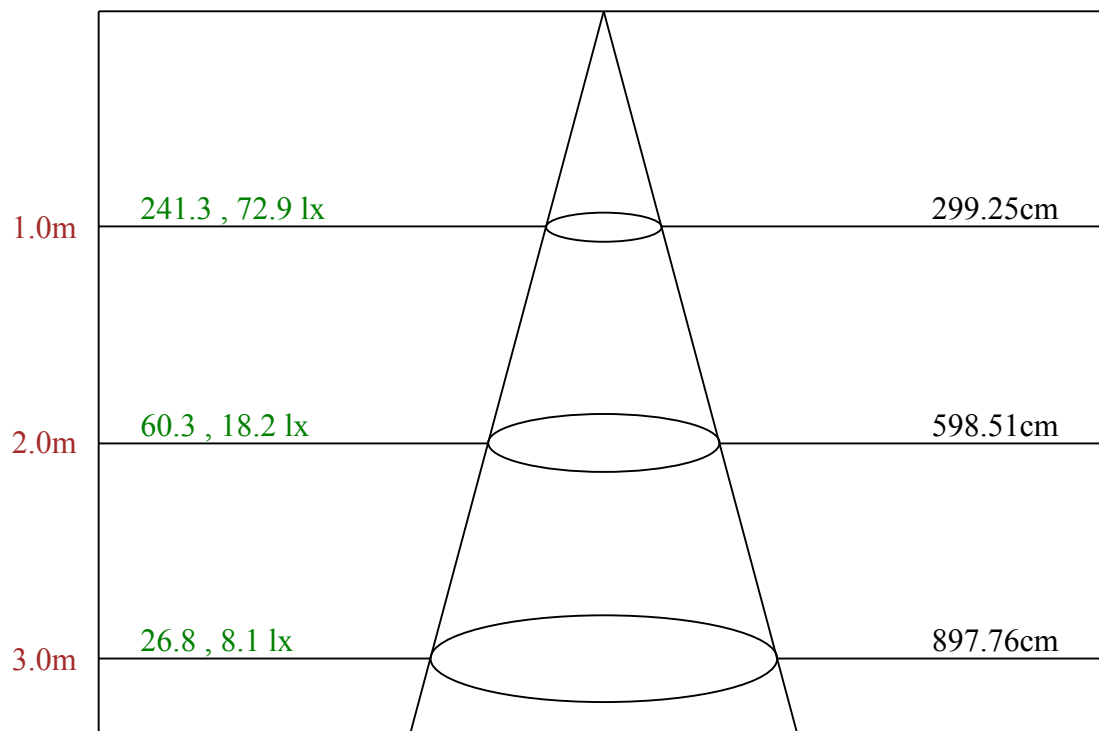
Aveage BeamAngle(IEC 61341):112.49

Equipment: equipamento lumini
Temperature(°C): 25.8

Date: 21/08/2026
Humidity(%): 68.0%

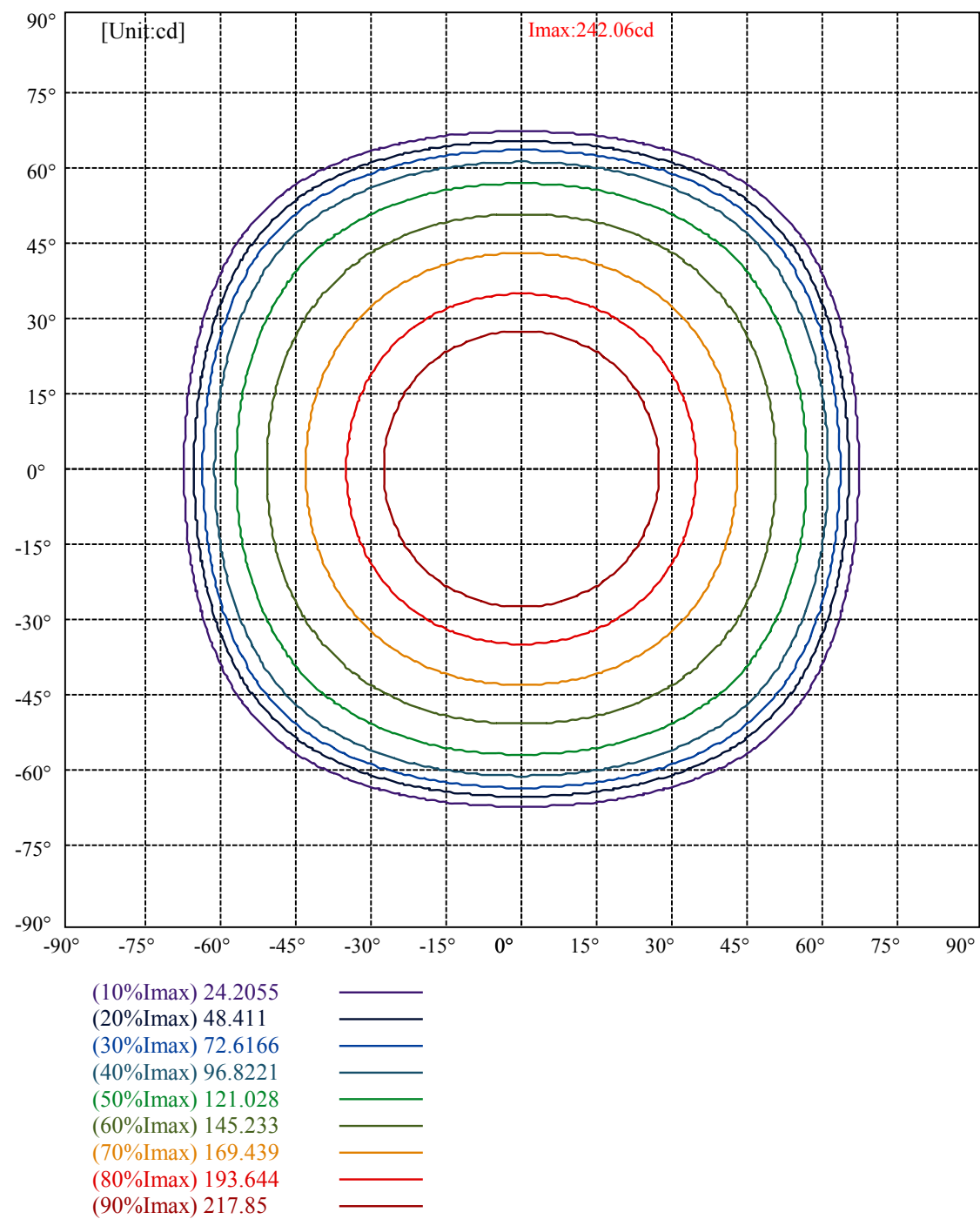
Operator: 01
Distance(m): 6.90





Max , Ave

Beam angle of C0 plane 112.49



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Luminance Limiting Curve(no luminous side)

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Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	2381	2360	2303	2084	993	341	338	323	352
C45	2381	2360	2303	2084	993	341	338	323	352
C90	2381	2360	2303	2084	993	341	338	323	352

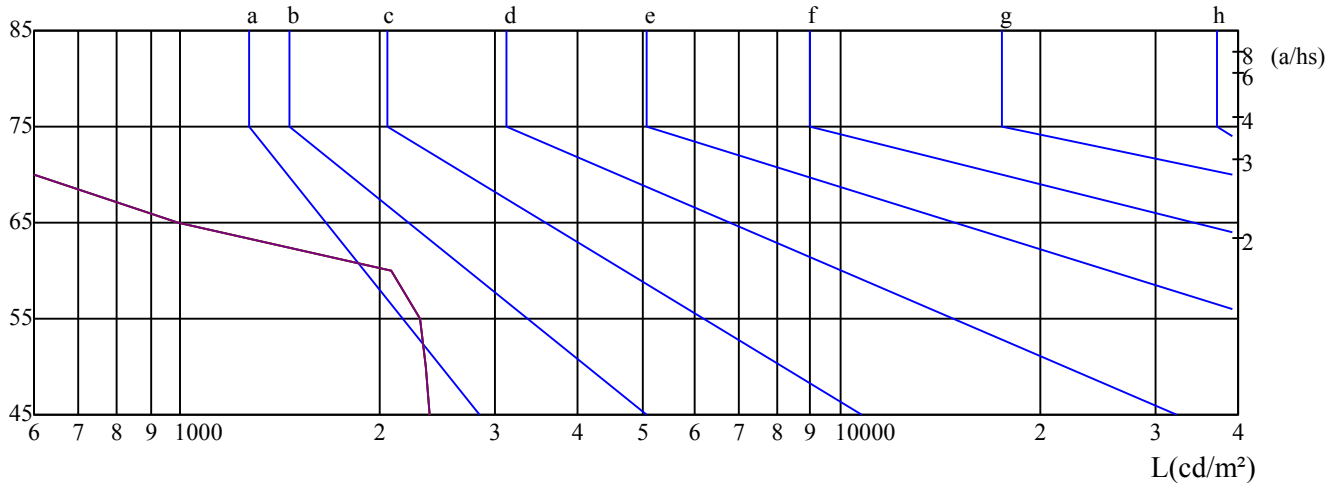
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
993	993	993	338	338	338	352	352	352

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): 25.8

Date: 21/08/2026
Humidity(%): 68.0%

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	15.35	16.88	15.71	17.19	17.51	15.31	16.84	15.67	17.16	17.47
	3H	15.40	16.76	15.78	17.10	17.44	15.36	16.72	15.74	17.06	17.40
	4H	15.38	16.65	15.77	17.00	17.36	15.33	16.61	15.73	16.96	17.32
	6H	15.37	16.55	15.78	16.91	17.31	15.33	16.50	15.73	16.87	17.26
	8H	15.33	16.46	15.74	16.84	17.24	15.28	16.42	15.70	16.79	17.19
	12H	15.29	16.37	15.71	16.76	17.17	15.25	16.33	15.66	16.71	17.12
4H	2H	15.68	16.95	16.07	17.30	17.66	15.64	16.92	16.04	17.27	17.63
	3H	15.72	16.78	16.14	17.17	17.58	15.69	16.75	16.10	17.13	17.54
	4H	15.76	16.69	16.19	17.10	17.54	15.72	16.65	16.15	17.06	17.50
	6H	15.73	16.55	16.19	16.99	17.44	15.69	16.51	16.15	16.95	17.40
	8H	15.72	16.49	16.20	16.93	17.40	15.68	16.44	16.15	16.89	17.36
	12H	15.71	16.42	16.19	16.86	17.37	15.67	16.38	16.15	16.82	17.33
8H	4H	15.66	16.43	16.14	16.87	17.34	15.63	16.39	16.10	16.84	17.30
	6H	15.64	16.28	16.14	16.75	17.25	15.60	16.24	16.09	16.71	17.21
	8H	15.69	16.25	16.21	16.76	17.25	15.65	16.21	16.17	16.72	17.21
	12H	15.69	16.16	16.22	16.67	17.18	15.65	16.12	16.18	16.63	17.14
12H	4H	15.64	16.34	16.12	16.79	17.29	15.60	16.31	16.08	16.75	17.25
	6H	15.66	16.21	16.17	16.72	17.21	15.62	16.17	16.13	16.68	17.17
	8H	15.67	16.14	16.19	16.65	17.16	15.63	16.10	16.15	16.61	17.12
Variation with the observer position at spacings:											
S = 1.0H		0.4/-0.4					0.4/-0.4				
S = 1.5H		1.2/-1.7					1.2/-1.7				
S = 2.0H		3.0/-7.6					3.0/-7.6				
Standard tables:		BK1					BK1				
Uncorrected UGR		-2.1					-2.1				

依据CIE Publ. 117 计算 UGR, S/H = 0.25