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LumCAT:

Luminaire: aereon

LampCAT: modulo led 31.5W 30K irc 90

Ballast type: led driver 700mA

Report No:

Voltage(V): 221.0000

Test No:

Current(A): 0.1590

Number of Lamps: 1

Power (W): 33.7300

Lamp flux(lm): 4430.0

PF: 0.9500

Length(mm): 500

Width(mm): 500

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3045.82, Efficiency(%): 68.75% , Luminous Efficacy(lm/W): 90.30

Central intensity(cd): 1422.333, Maximum intensity(cd): 1422.333

Angle of maximum intensity: C=0.0 γ =0.0

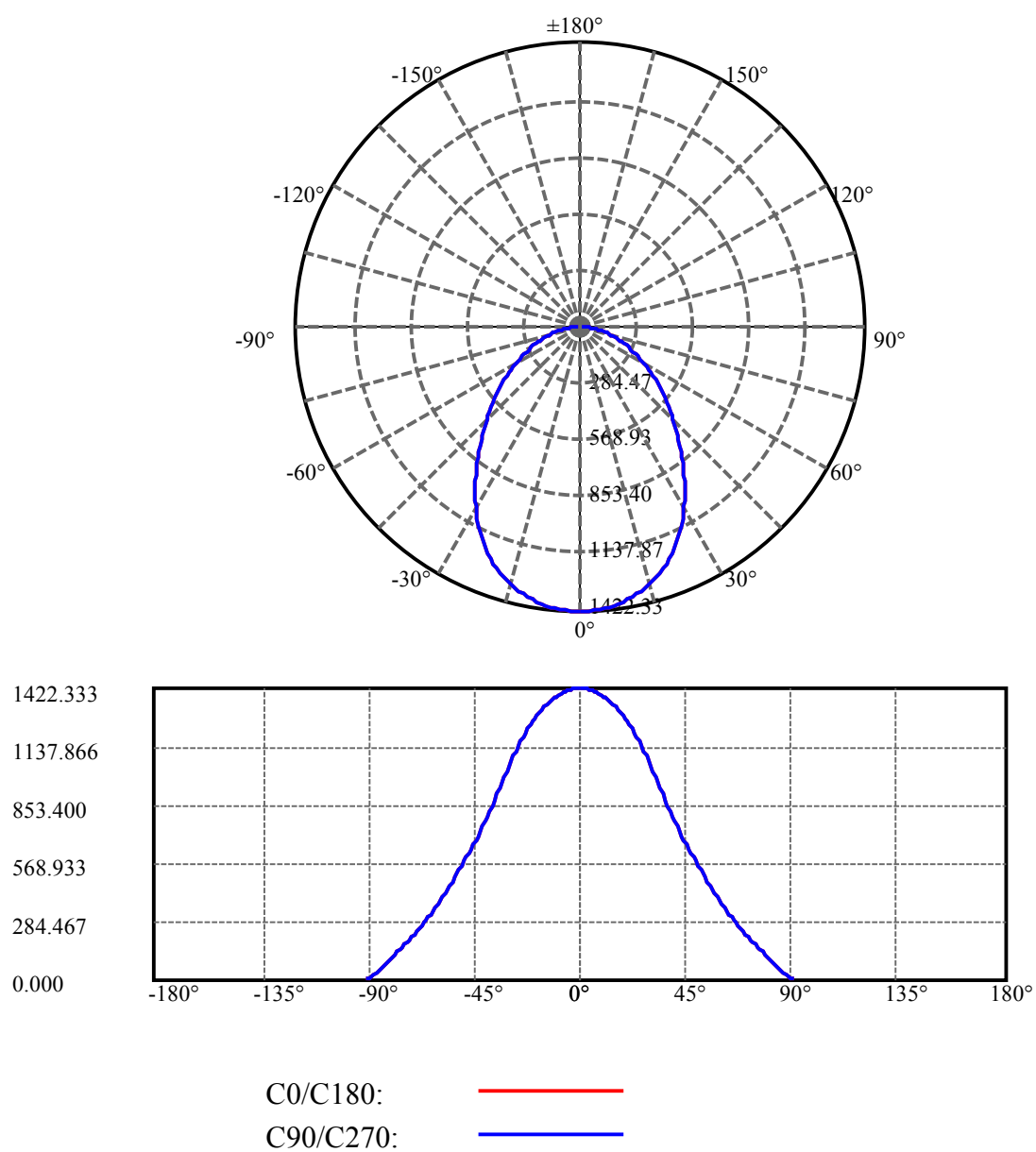
Beam angle of C0 plane : 85.22

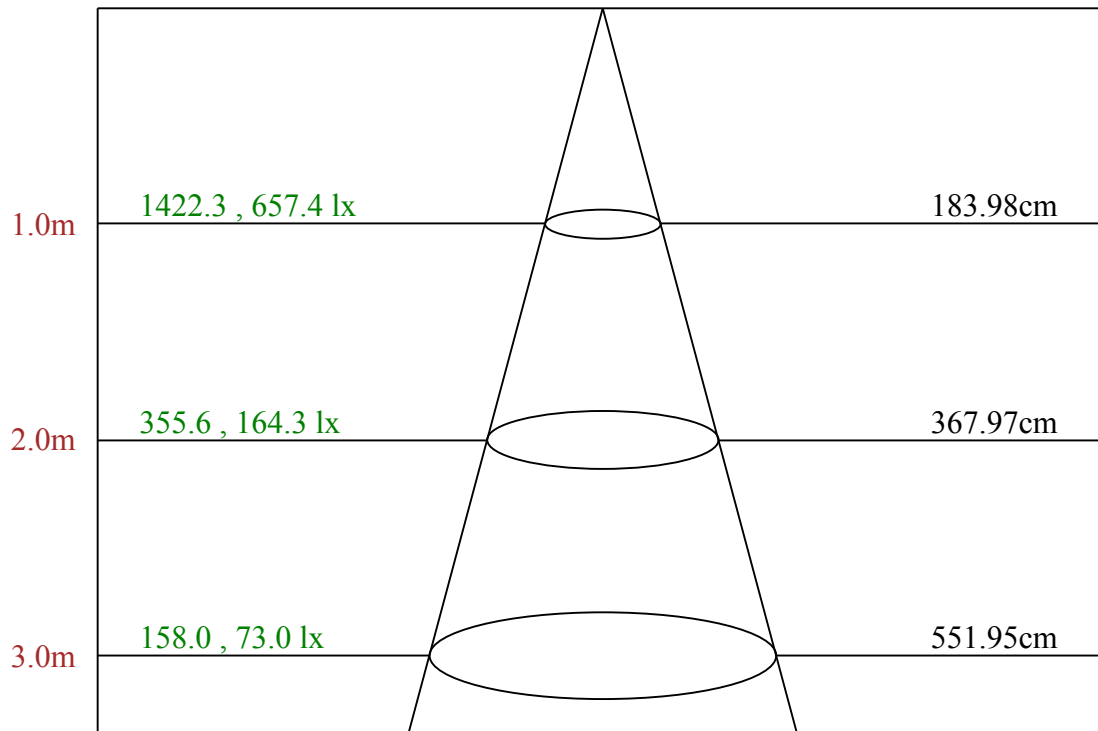
Average BeamAngle(IEC 61341):85.22

Equipment:
Temperature(°C): 25.0

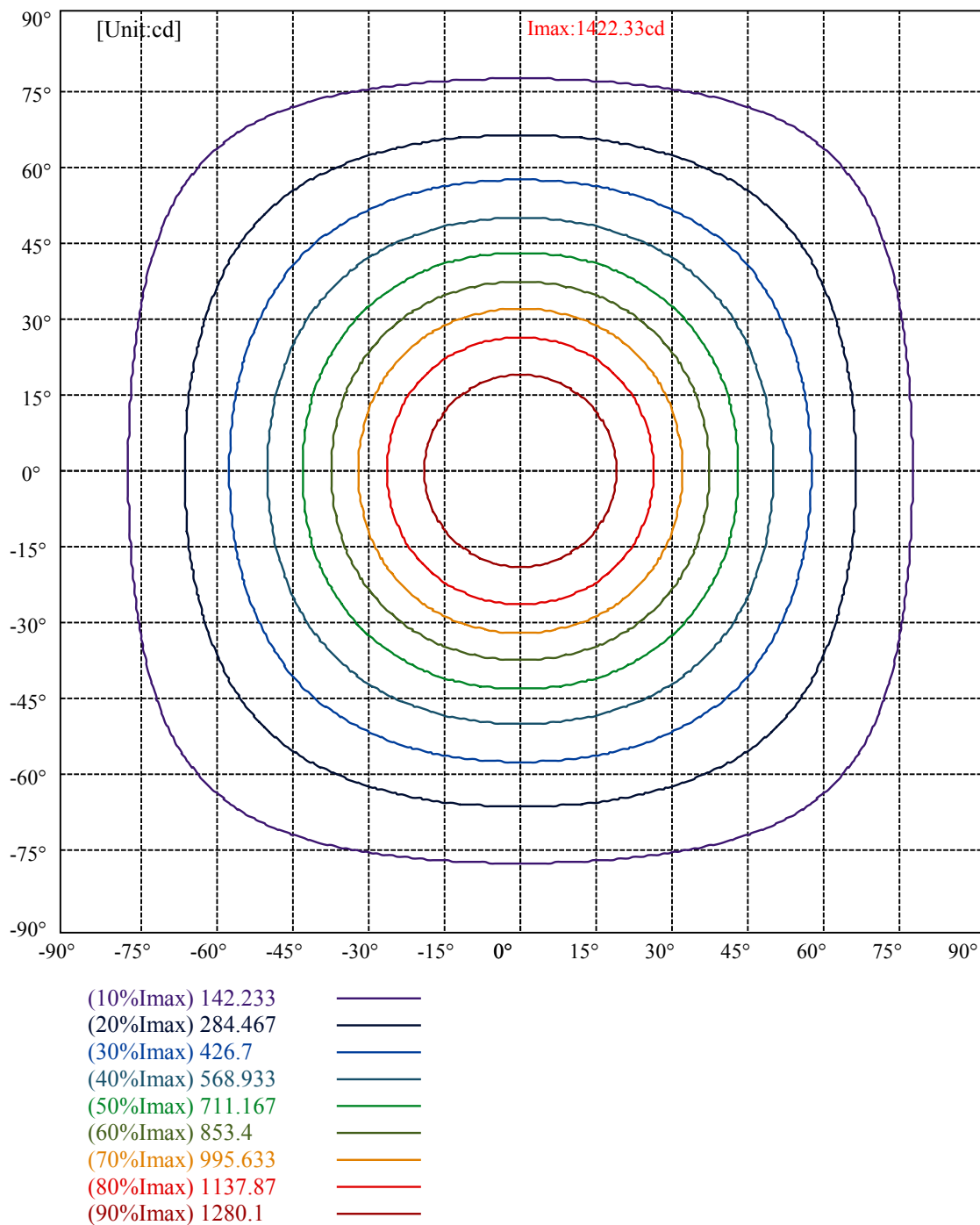
Date: 12/13/2023
Humidity(%): 55.0%

Operator:
Distance(m): 1.00





Max , Ave Beam angle of C0 plane 85.22



Luminance Table

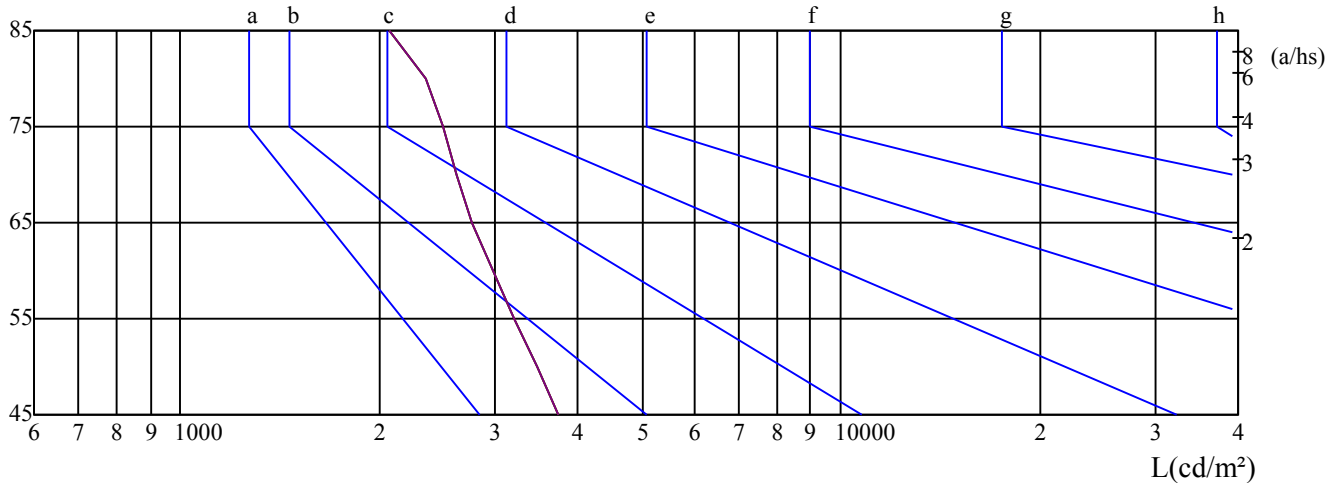
γ	45	50	55	60	65	70	75	80	85
C0	3730	3461	3209	2981	2770	2616	2498	2351	2072
C45	3730	3461	3209	2981	2770	2616	2498	2351	2072
C90	3730	3461	3209	2981	2770	2616	2498	2351	2072

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2770	2770	2770	2498	2498	2498	2072	2072	2072

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	16.31	17.85	16.67	18.16	18.48	16.45	17.99	16.81	18.31	18.62
	3H	17.77	19.17	18.15	19.50	19.84	17.86	19.26	18.25	19.60	19.94
	4H	18.40	19.70	18.79	20.05	20.42	18.44	19.75	18.84	20.10	20.46
	6H	18.96	20.17	19.36	20.54	20.93	18.93	20.15	19.34	20.51	20.91
	8H	19.16	20.33	19.57	20.71	21.11	19.08	20.25	19.49	20.63	21.03
	12H	19.31	20.43	19.72	20.81	21.22	19.16	20.29	19.58	20.67	21.08
4H	2H	16.93	18.24	17.33	18.59	18.95	17.05	18.36	17.45	18.71	19.07
	3H	18.56	19.67	18.98	20.05	20.46	18.67	19.78	19.08	20.16	20.57
	4H	19.36	20.34	19.79	20.76	21.20	19.45	20.43	19.88	20.84	21.28
	6H	20.02	20.89	20.48	21.33	21.77	20.04	20.92	20.50	21.36	21.80
	8H	20.31	21.13	20.78	21.57	22.03	20.28	21.10	20.75	21.54	22.01
	12H	20.53	21.29	21.01	21.73	22.24	20.44	21.20	20.91	21.64	22.14
8H	4H	19.65	20.47	20.12	20.92	21.38	19.73	20.55	20.20	21.00	21.46
	6H	20.45	21.14	20.94	21.60	22.10	20.50	21.19	20.99	21.65	22.15
	8H	20.89	21.48	21.40	21.99	22.48	20.89	21.49	21.41	22.00	22.49
	12H	21.20	21.70	21.72	22.21	22.72	21.14	21.64	21.66	22.15	22.66
12H	4H	19.69	20.46	20.17	20.89	21.40	19.77	20.53	20.24	20.97	21.47
	6H	20.59	21.18	21.10	21.69	22.18	20.63	21.23	21.14	21.74	22.23
	8H	21.02	21.53	21.54	22.03	22.54	21.03	21.54	21.56	22.05	22.56
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.6					0.2/-0.6				
S = 1.5H		0.6/-0.8					0.6/-0.8				
S = 2.0H		0.9/-0.9					0.9/-0.9				
Standard tables:		BK3					BK3				
Uncorrected UGR		1.7					1.7				

依据CIE Publ. 117 计算 UGR, S/H = 0.25