

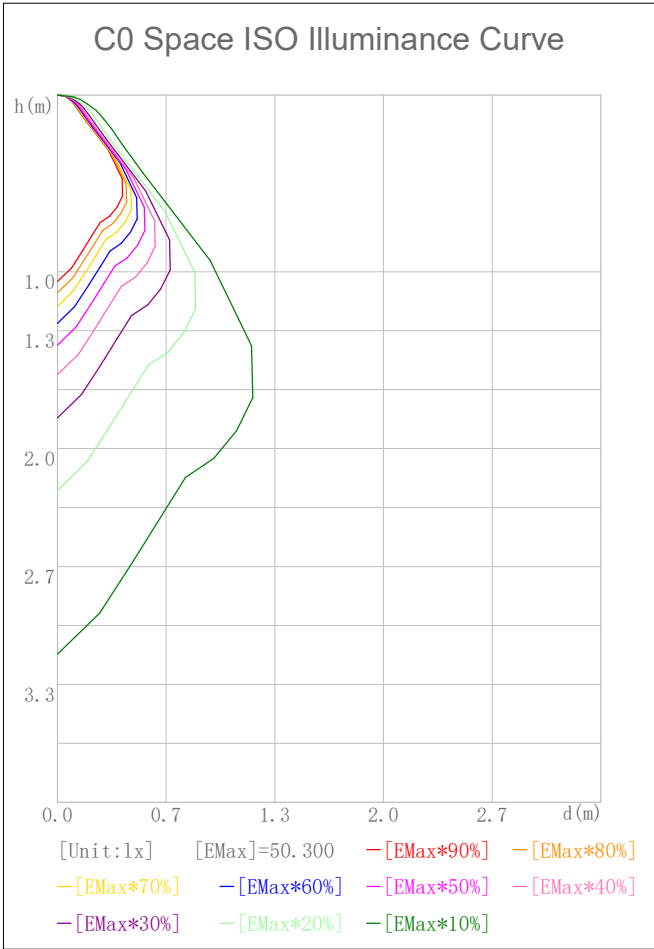
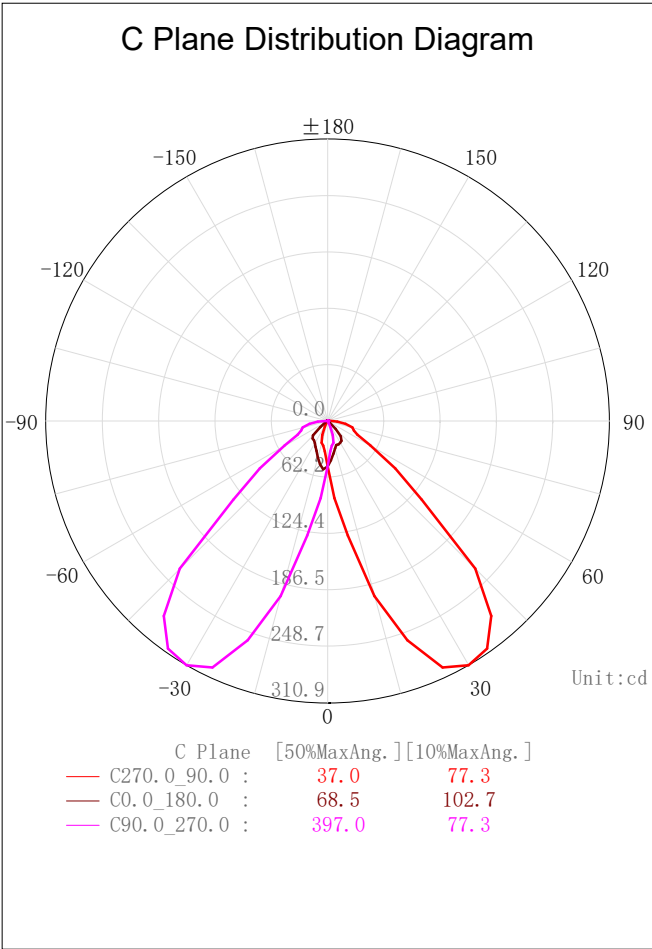
Indoor Luminaire Photometric Data

Description Information

Luminary Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Date: 2026/04/16
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H): 0.600m*0.025m*0.130m	Lum. Area (m2): 0.018	Lum. W (kg):
Test System: C, γ	Test Step: C=45.0 γ=5.0	Temp. (°C):
		Humidity(%):

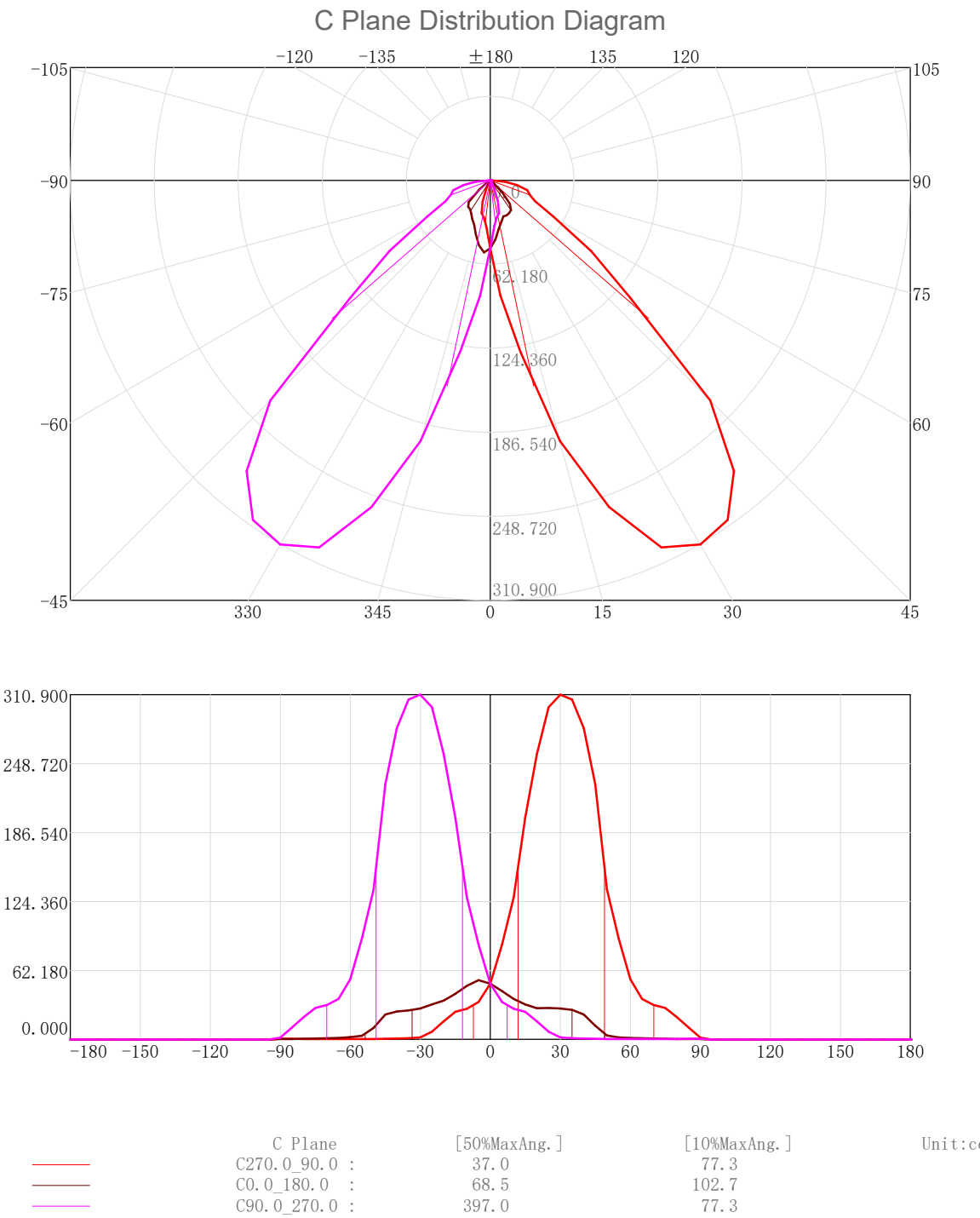
Character Parameter

Lamp Speciality Parameter	Luminaire Speciality Parameter	
Rated Flux(lm): 172.250	Luminary Flux(lm): 172.245	Field Angle(10%Imax): 77.3(°)
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 172.007lm 99.86%
Rated Voltage(V): 12	Luminary EER(lm/W): 55.563	Up Lumens&Percent: 0.238lm 0.14%
Tested Power(W): 3.100	Max. Candela(cd): 310.900	S/MH: C0_a180=0.767 C90_270=1.529
Lamps' Inside: 1	Max Cand@Ang. (°): C=270.0 γ=30.0	CIE Type: Semi-Direct
Tested Electrics(V, A, pf): 11.9, 0.259, 1.000	Beam Angle(50%Imax): 37.0(°)	ErP Φuse(90°): 121.410lm
Lamp Size(W*L*H): 0.600m*0.025m*0.130m	Left=11.9°, Right=48.9°	IRF(%): 378.867



2D Plane Light Intensity Distribution Curve

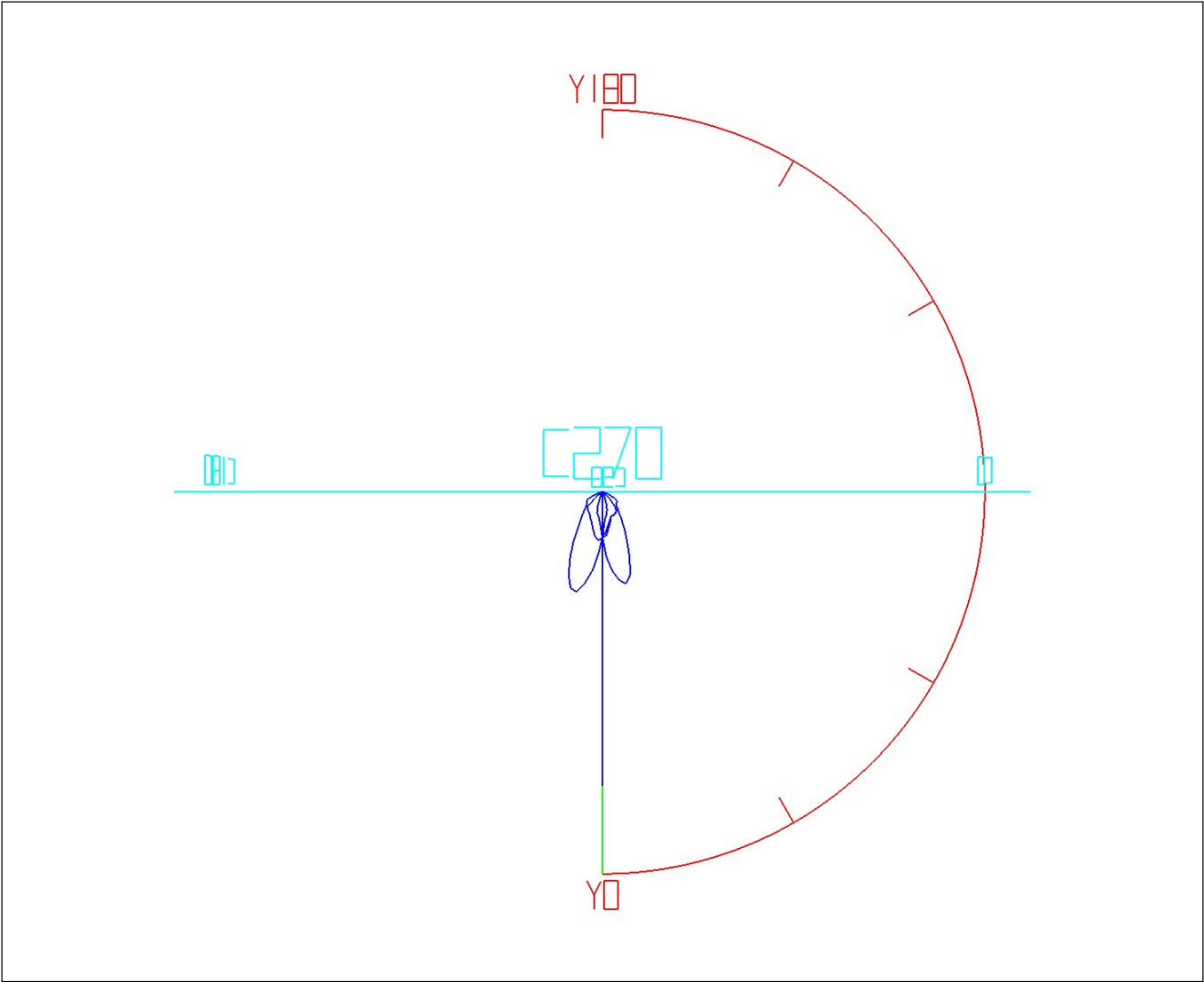
Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16



3D Light Intensity Distribution Modal

Lum. Name: PLB21	Lum. Catelog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16

3D Light Intensity Distribution Modal



Curves:
View Angles:

3D Model
Orient:0

Fixture
Tilt:0

Vert. HUD
Roll:0

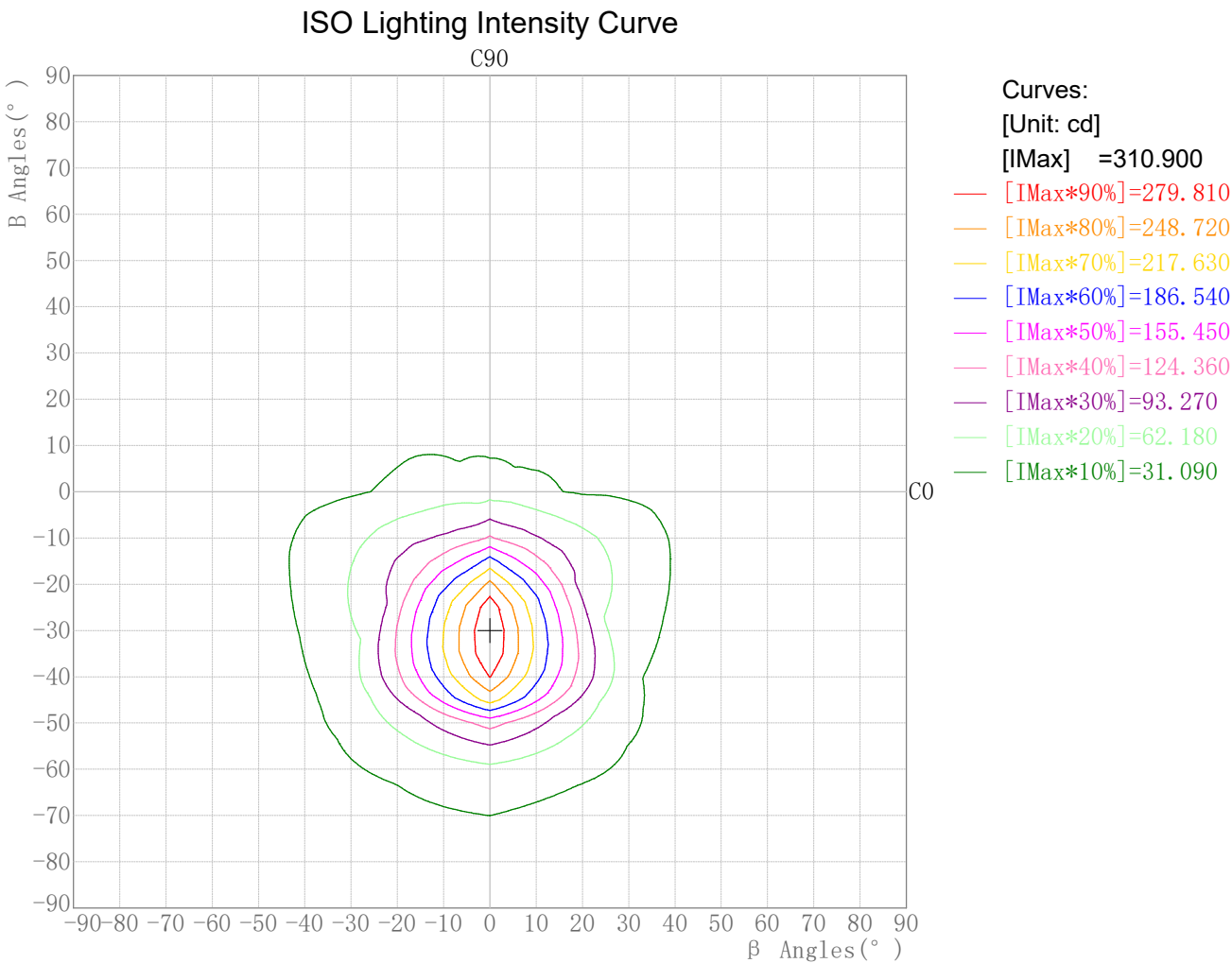
Hori. HUD
Spin:0

Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-5. 0	1. 24	1. 24	0. 72	0. 72
5. 0-10. 0	4. 02	5. 26	2. 33	3. 05
10. 0-15. 0	7. 58	12. 84	4. 40	7. 45
15. 0-20. 0	11. 85	24. 68	6. 88	14. 33
20. 0-25. 0	15. 85	40. 53	9. 20	23. 53
25. 0-30. 0	18. 58	59. 11	10. 79	34. 31
30. 0-35. 0	19. 88	78. 99	11. 54	45. 86
35. 0-40. 0	20. 12	99. 11	11. 68	57. 54
40. 0-45. 0	18. 74	117. 85	10. 88	68. 42
45. 0-50. 0	14. 72	132. 57	8. 54	76. 96
50. 0-55. 0	10. 40	142. 96	6. 04	83. 00
55. 0-60. 0	7. 80	150. 77	4. 53	87. 53
60. 0-65. 0	6. 16	156. 93	3. 58	91. 10
65. 0-70. 0	5. 42	162. 35	3. 15	94. 25
70. 0-75. 0	4. 39	166. 74	2. 55	96. 80
75. 0-80. 0	2. 82	169. 55	1. 64	98. 43
80. 0-85. 0	1. 62	171. 17	0. 94	99. 37
85. 0-90. 0	0. 84	172. 01	0. 49	99. 86
90. 0-95. 0	0. 24	172. 25	0. 14	100. 00
95. 0-100. 0	0. 00	172. 25	0. 00	100. 00
100. 0-105. 0	0. 00	172. 25	0. 00	100. 00
105. 0-110. 0	0. 00	172. 25	0. 00	100. 00
110. 0-115. 0	0. 00	172. 25	0. 00	100. 00
115. 0-120. 0	0. 00	172. 25	0. 00	100. 00
120. 0-125. 0	0. 00	172. 25	0. 00	100. 00
125. 0-130. 0	0. 00	172. 25	0. 00	100. 00
130. 0-135. 0	0. 00	172. 25	0. 00	100. 00
135. 0-140. 0	0. 00	172. 25	0. 00	100. 00
140. 0-145. 0	0. 00	172. 25	0. 00	100. 00
145. 0-150. 0	0. 00	172. 25	0. 00	100. 00
150. 0-155. 0	0. 00	172. 25	0. 00	100. 00
155. 0-160. 0	0. 00	172. 25	0. 00	100. 00
160. 0-165. 0	0. 00	172. 25	0. 00	100. 00
165. 0-170. 0	0. 00	172. 25	0. 00	100. 00
170. 0-175. 0	0. 00	172. 25	0. 00	100. 00
175. 0-180. 0	0. 00	172. 25	0. 00	100. 00

Rectangle ISO Lighting Intensity Diagram

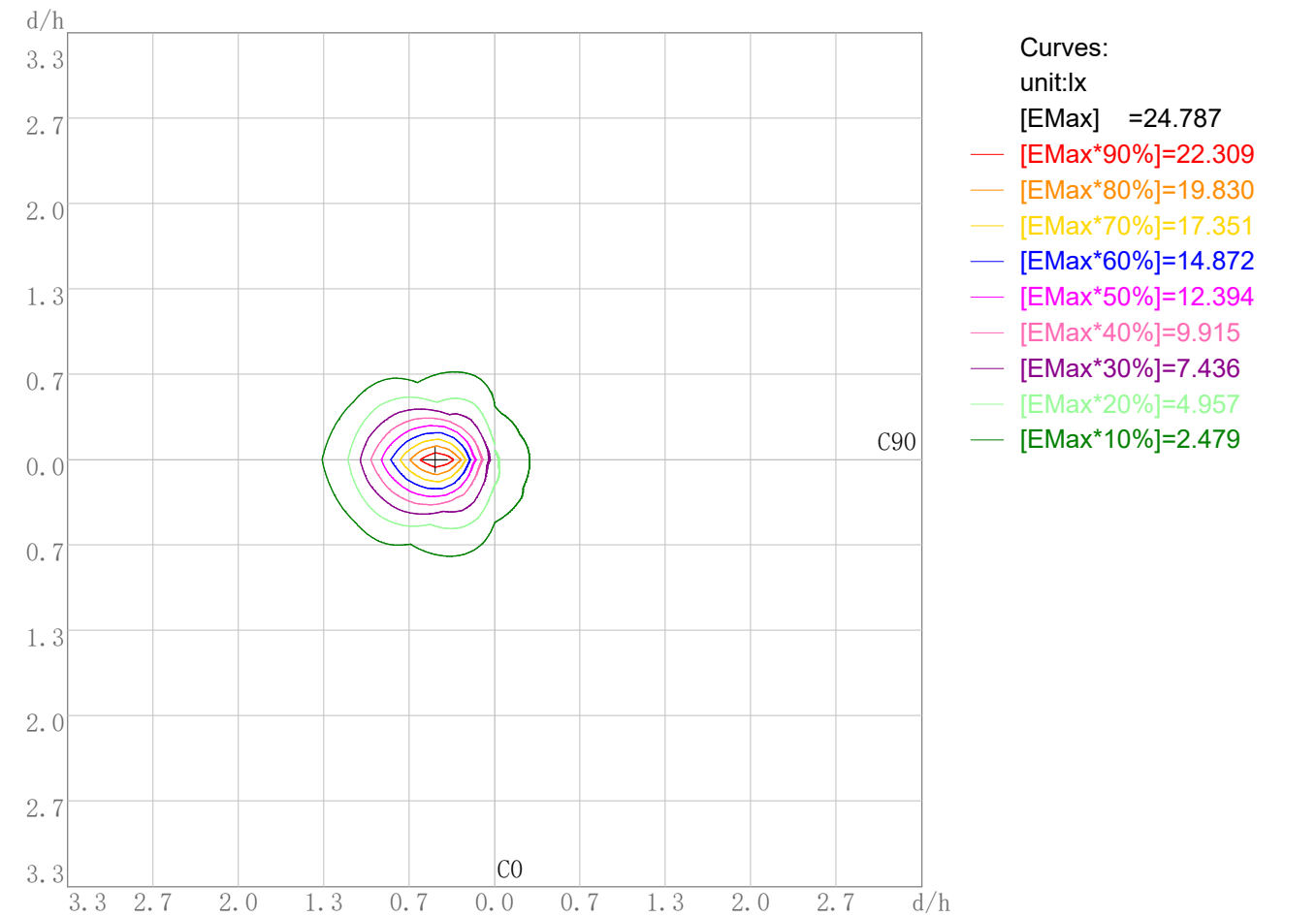
Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16



Plane ISO-Illuminance Diagram

Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16

Plane ISO-Illuminance Curve

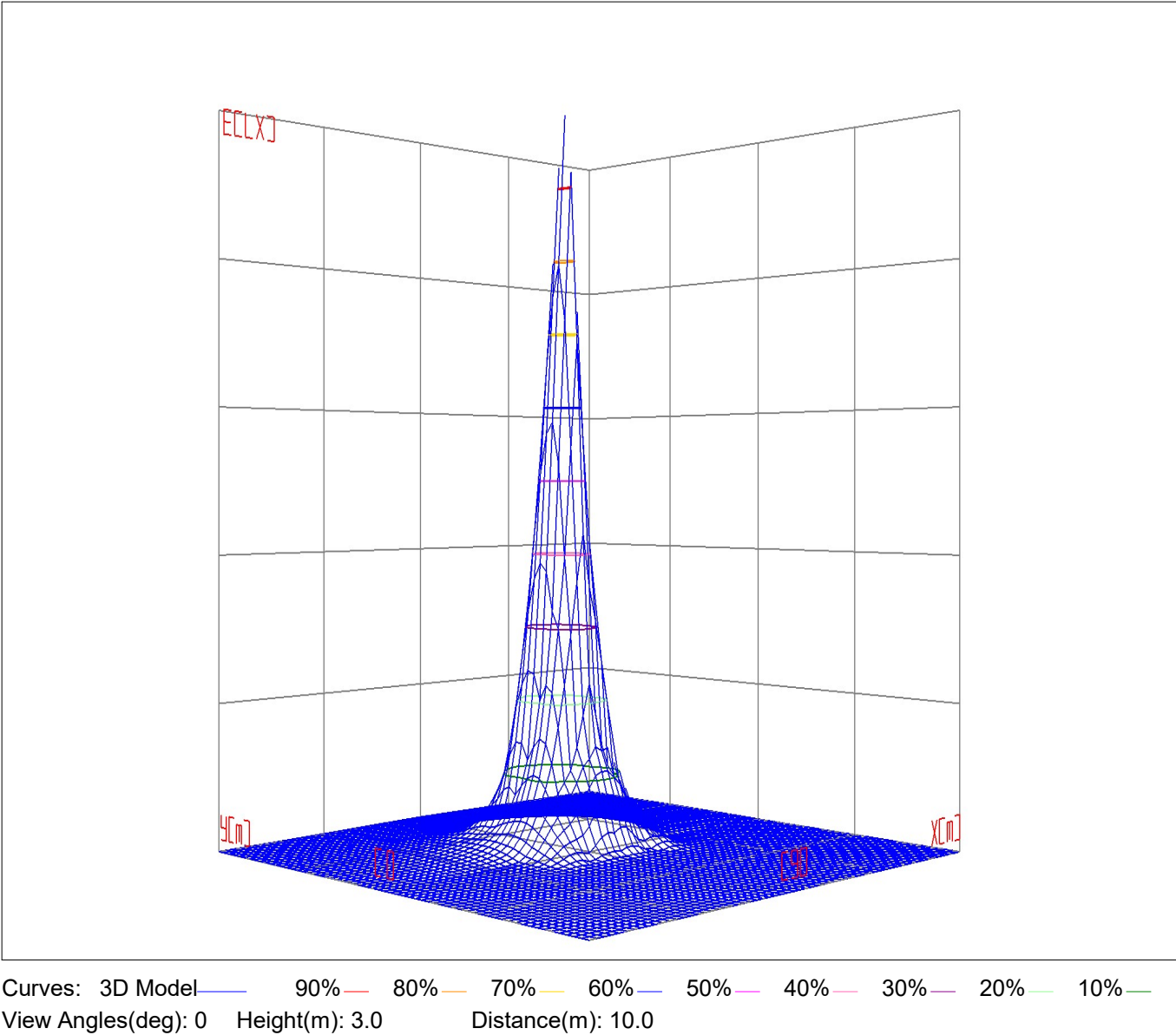


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 24.79
Working Plane Maximum Illuminance Position(d/h):H-0.5 V-0.0

3D Plane ISO Illuminance Diagram

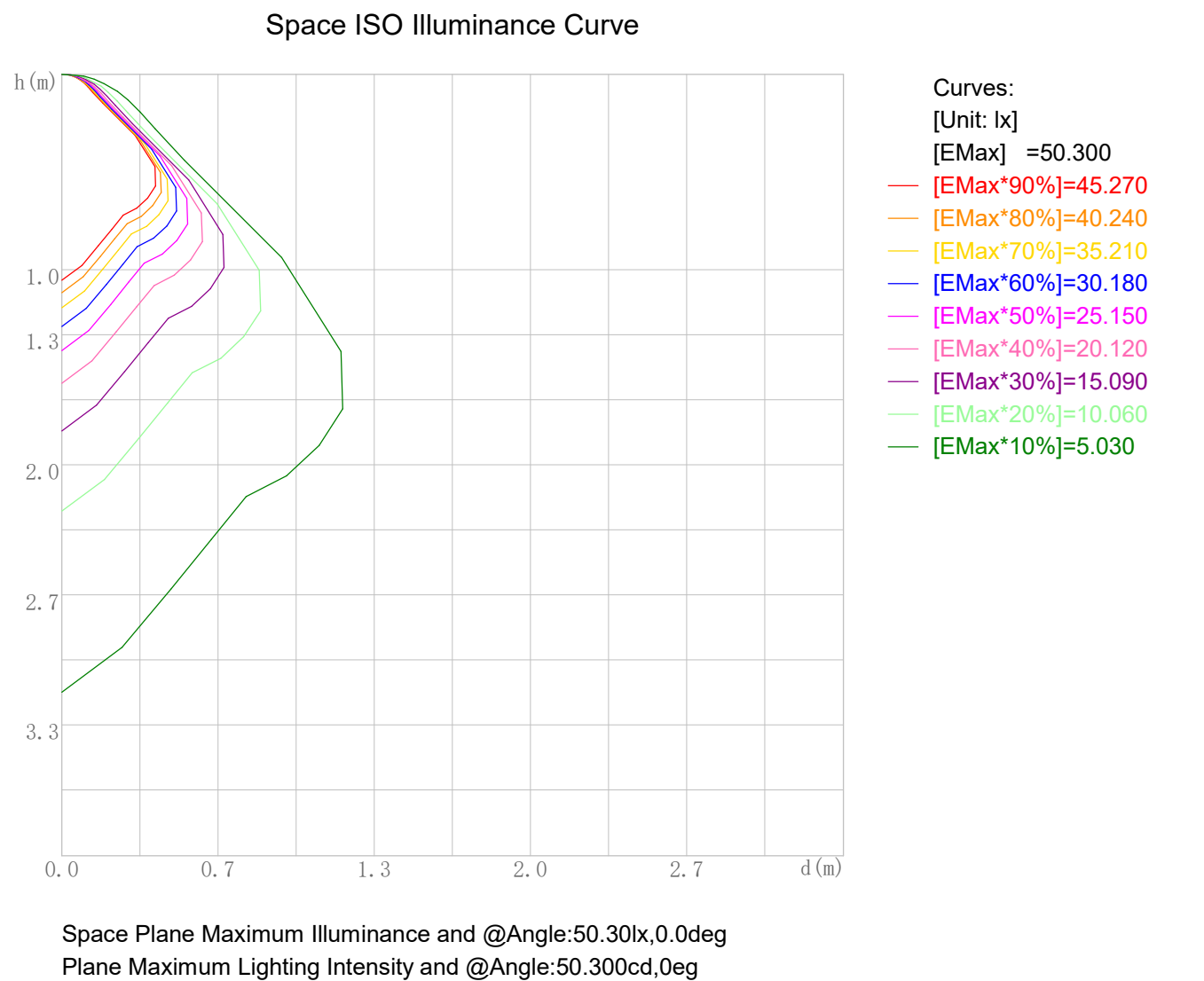
Lum. Name: PLB21	Lum. Catelog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16

3D Plane Illuminance Modal



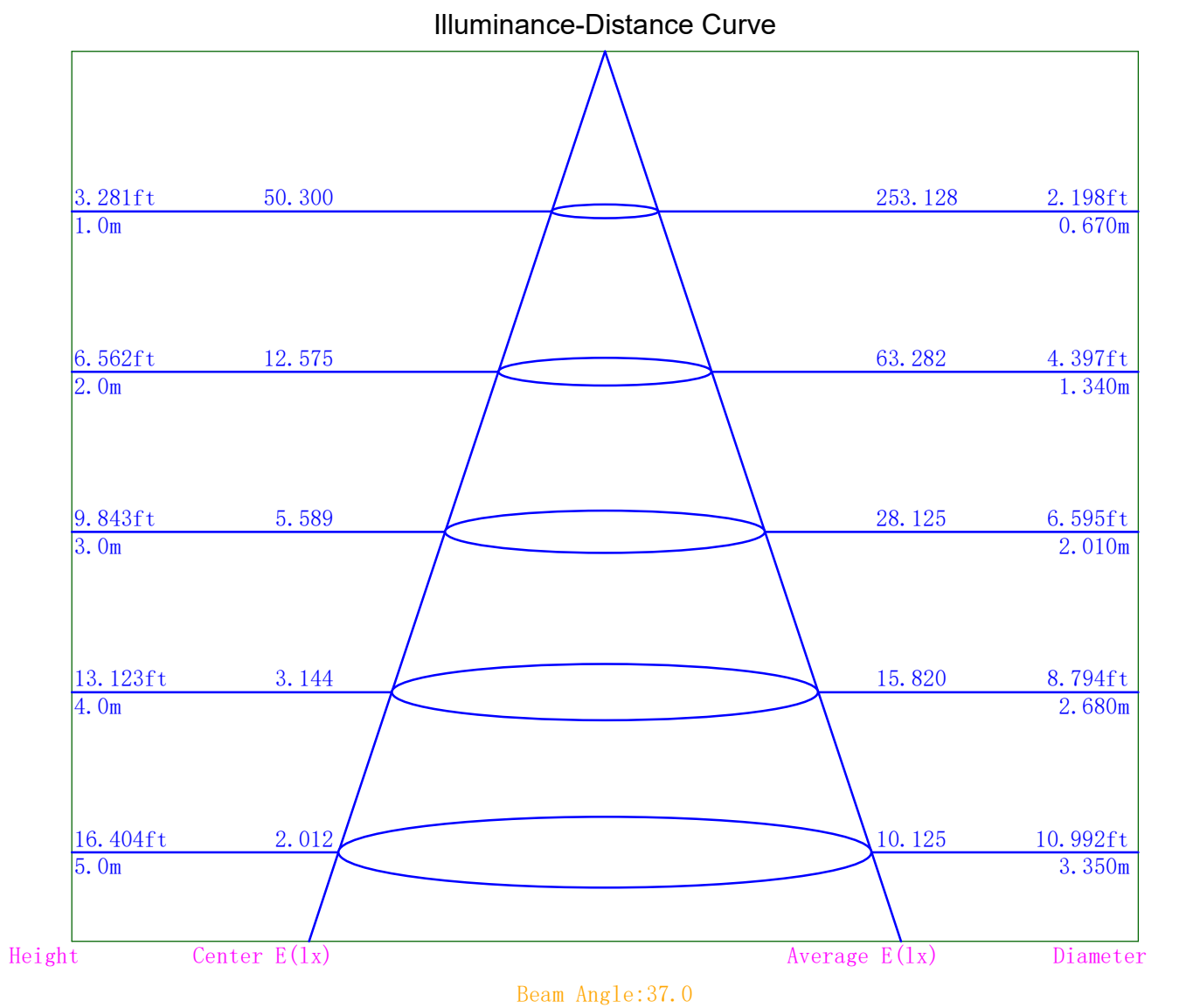
Space ISO Illuminance Diagram

Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16



Illuminance-Distance Diagram

Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16



Indoor Luminance Limiting Curves

Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16

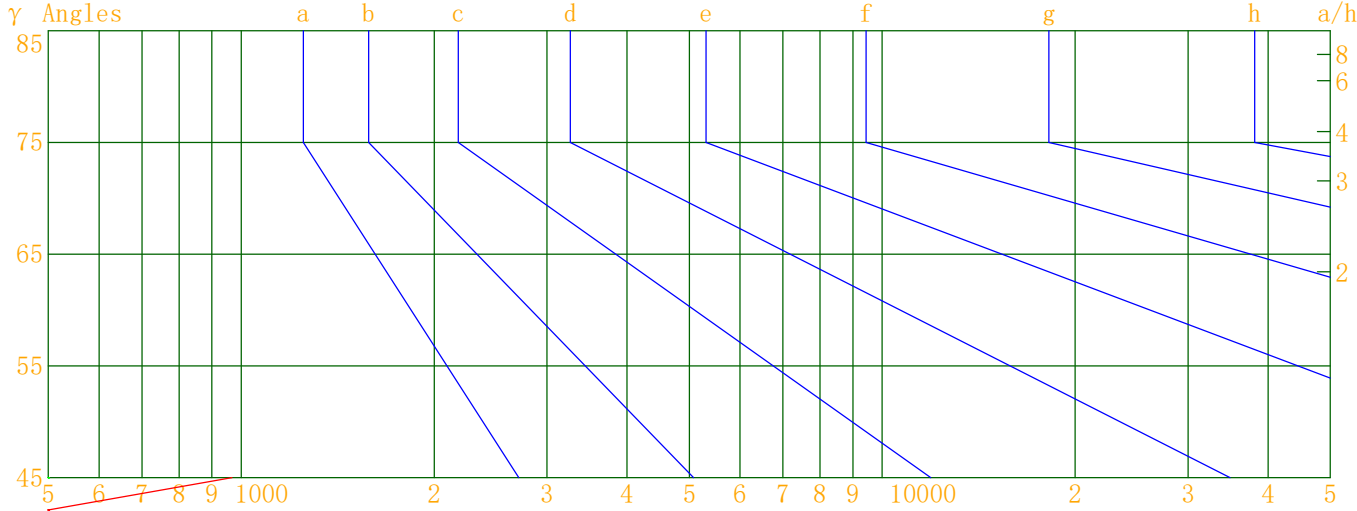
Glare Grade Table

GI	Quality	Using Illuminance							
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	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	968	310	197	164	149	151	143	180	321
C90	56	46	49	63	65	83	122	176	460

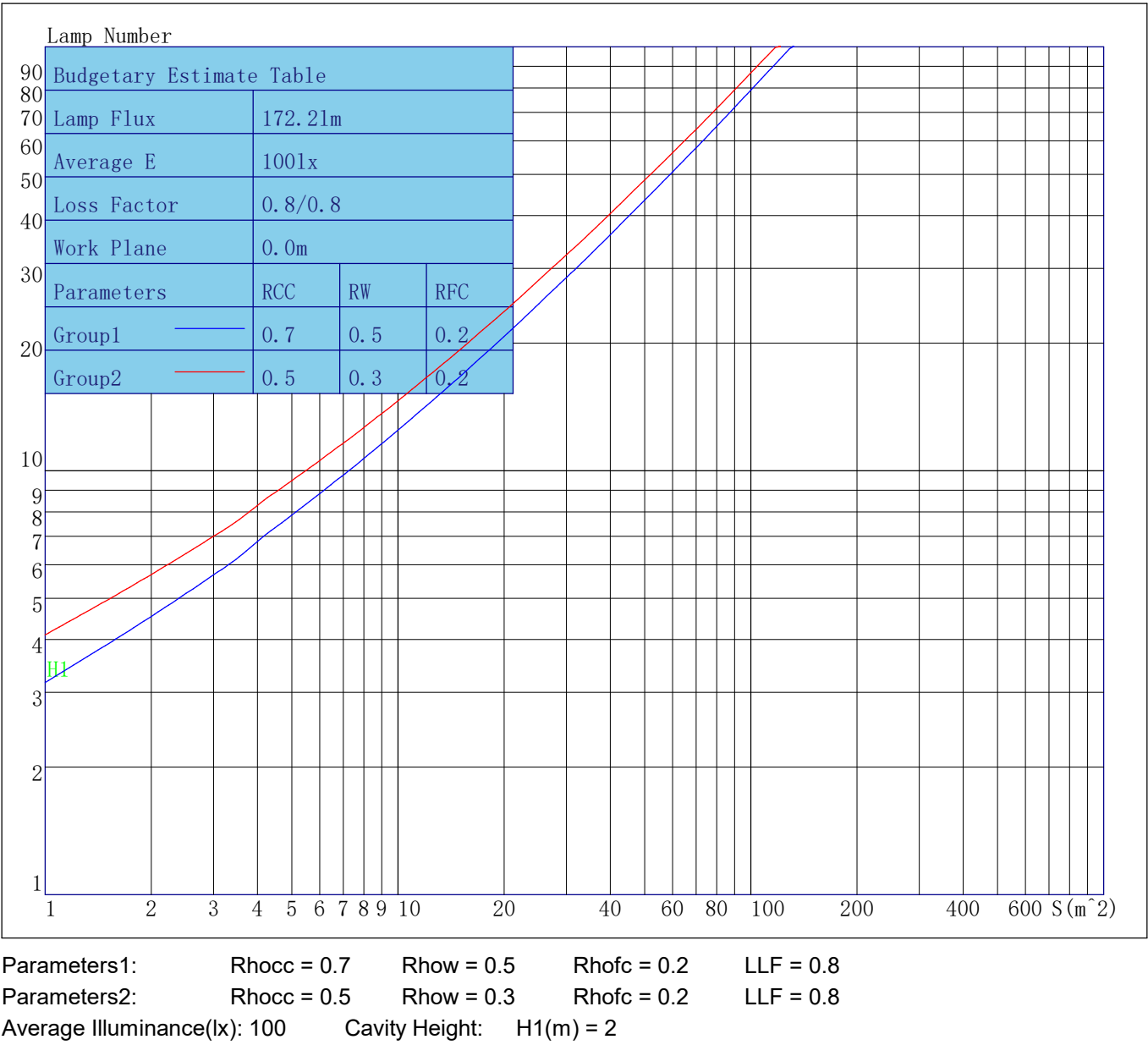
Luminance Limiting Curve



Luminous Size: Length(m)=0.025 Width(m)=0.600 Height(m)=0.130 Area(m^2)=0.018250
Luminous Type: Without Luminous Side
Luminous Curves: C0-C180 Color: C90-C270 Color:

Indoor Budgetary Estimate Table

Lum. Name: PLB21	Lum. Catelog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16



Indoor Coefficient of Utilization Table

Lum. Name: PLB21	Lum. Catelog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catelog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization(%)																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

Unified Glare Rating Table

Lum. Name: PLB21	Lum. Catalog:	Test ID: ALDG20260416008
Lamp Name: LED	Lamp Catalog: LED	Test Lab:
Manufacture:	Test Machine:GON-2000	Test Date: 2026/04/16

Unified Glare Rating Table

Ceiling RCC		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size		Vewed crosswise					Vewed endwise				
X=2H	Y=2H	22.5	23.8	21.5	22.7	22.9	-0.1	1.2	-1.1	0.1	0.3
	Y=3H	23.4	24.6	22.5	23.6	23.9	1.5	2.7	0.7	1.8	2.0
	Y=4H	23.4	24.6	22.7	23.7	24.0	3.1	4.2	2.3	3.3	3.6
	Y=6H	23.3	24.4	22.7	23.7	24.0	5.1	6.1	4.4	5.4	5.7
	Y=8H	23.3	24.3	22.7	23.6	23.9	6.5	7.5	5.9	6.8	7.2
	Y=12H	23.2	24.2	22.7	23.6	23.9	8.5	9.5	8.0	8.8	9.2
X=4H	Y=2H	22.9	24.0	22.1	23.1	23.4	-0.0	1.1	-0.7	0.3	0.6
	Y=3H	23.8	24.8	23.3	24.2	24.5	1.7	2.7	1.2	2.0	2.4
	Y=4H	24.0	24.8	23.5	24.3	24.7	3.3	4.1	2.9	3.6	4.0
	Y=6H	23.9	24.7	23.6	24.3	24.7	5.5	6.3	5.2	5.9	6.3
	Y=8H	23.9	24.5	23.6	24.3	24.7	7.2	7.9	7.0	7.6	8.0
	Y=12H	23.8	24.4	23.6	24.2	24.7	9.5	10.1	9.3	9.9	10.3
X=8H	Y=4H	24.0	24.7	23.7	24.4	24.8	5.3	6.0	5.1	5.7	6.1
	Y=6H	23.9	24.5	23.9	24.4	24.8	7.5	8.1	7.5	8.0	8.4
	Y=8H	23.9	24.4	23.9	24.3	24.8	9.2	9.6	9.2	9.6	10.1
	Y=12H	23.9	24.3	24.0	24.3	24.8	11.4	11.8	11.5	11.8	12.3
X=12H	Y=4H	23.9	24.5	23.7	24.3	24.7	5.8	6.4	5.7	6.2	6.7
	Y=6H	23.8	24.3	23.8	24.3	24.8	8.2	8.7	8.3	8.7	9.2
	Y=8H	23.8	24.2	23.9	24.3	24.8	10.0	10.4	10.0	10.4	10.9
Variations with the objerver position at spacings											
S=1.0H		0.9/-0.9					0.5/-0.5				
S=1.5H		2.2/-2.0					0.8/-1.0				
S=2.0H		3.6/-4.1					0.7/-1.1				
Reduced UGR Table:											
Nordic Standard Table:		BKO					BKO				
Correction Value		1.5					7.0				

le is calculated according to the document STD.CIE 117-1995

Candela Tabulation

V/H	C0. 0	C45. 0	C90. 0	C135. 0	C180. 0	C225. 0	C270. 0	C315. 0
γ 0. 0	50. 30	50. 30	50. 30	50. 30	50. 30	50. 30	50. 30	50. 30
γ 5. 0	43. 75	34. 24	33. 87	36. 89	53. 56	67. 11	85. 46	71. 76
γ 10. 0	36. 56	27. 91	27. 74	29. 92	48. 49	86. 25	128. 36	87. 18
γ 15. 0	31. 62	25. 37	25. 08	26. 77	41. 39	101. 08	199. 76	98. 38
γ 20. 0	28. 32	21. 01	16. 54	24. 41	35. 07	113. 46	257. 25	104. 36
γ 25. 0	28. 56	13. 35	7. 19	17. 52	31. 62	112. 53	299. 67	97. 93
γ 30. 0	27. 96	5. 68	1. 95	8. 35	28. 11	100. 94	310. 90	82. 18
γ 35. 0	26. 81	1. 88	1. 26	2. 41	26. 19	83. 94	306. 52	65. 01
γ 40. 0	22. 52	1. 27	0. 93	1. 59	25. 43	66. 89	280. 66	51. 65
γ 45. 0	12. 49	1. 02	0. 72	1. 26	22. 64	50. 08	230. 26	40. 17
γ 50. 0	3. 64	0. 94	0. 54	1. 02	10. 46	40. 50	135. 38	31. 49
γ 55. 0	2. 06	0. 75	0. 51	0. 87	3. 43	33. 13	91. 24	26. 55
γ 60. 0	1. 50	0. 59	0. 57	0. 59	2. 11	27. 54	54. 20	24. 41
γ 65. 0	1. 15	0. 60	0. 50	0. 45	1. 50	25. 64	36. 52	24. 88
γ 70. 0	0. 94	0. 46	0. 51	0. 41	1. 16	25. 50	31. 11	20. 04
γ 75. 0	0. 68	0. 52	0. 58	0. 38	0. 92	13. 90	28. 44	8. 65
γ 80. 0	0. 57	0. 57	0. 56	0. 36	0. 77	4. 52	20. 08	2. 72
γ 85. 0	0. 51	0. 48	0. 73	0. 56	0. 57	2. 09	10. 92	1. 59
γ 90. 0	0. 41	0. 62	0. 62	0. 55	0. 47	1. 29	1. 66	1. 35
γ 95. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 100. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 105. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 110. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 115. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 120. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 125. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 130. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 135. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 140. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 145. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 150. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 155. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 160. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 165. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 170. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 175. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00
γ 180. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00