

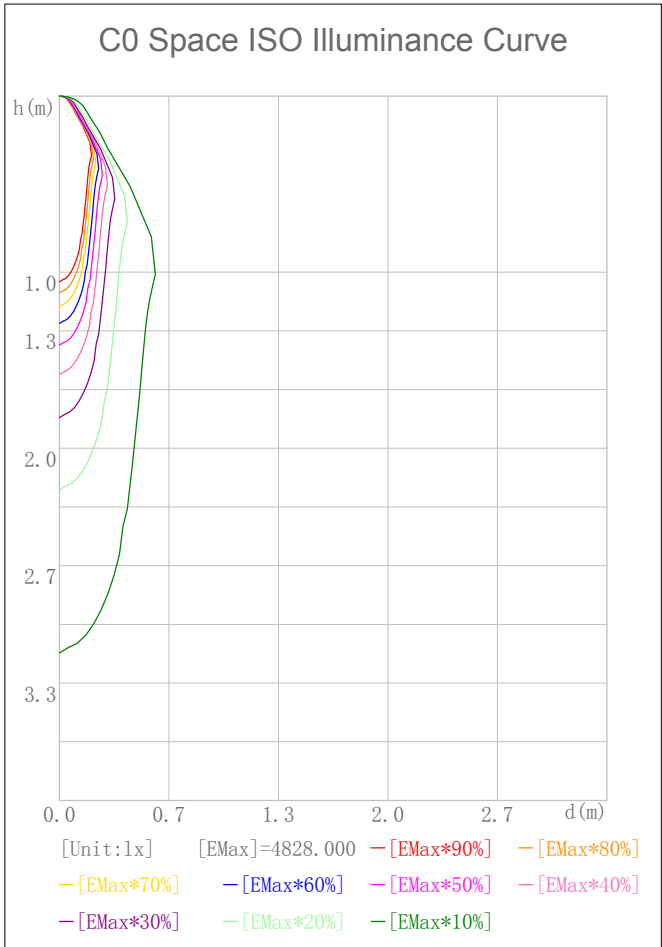
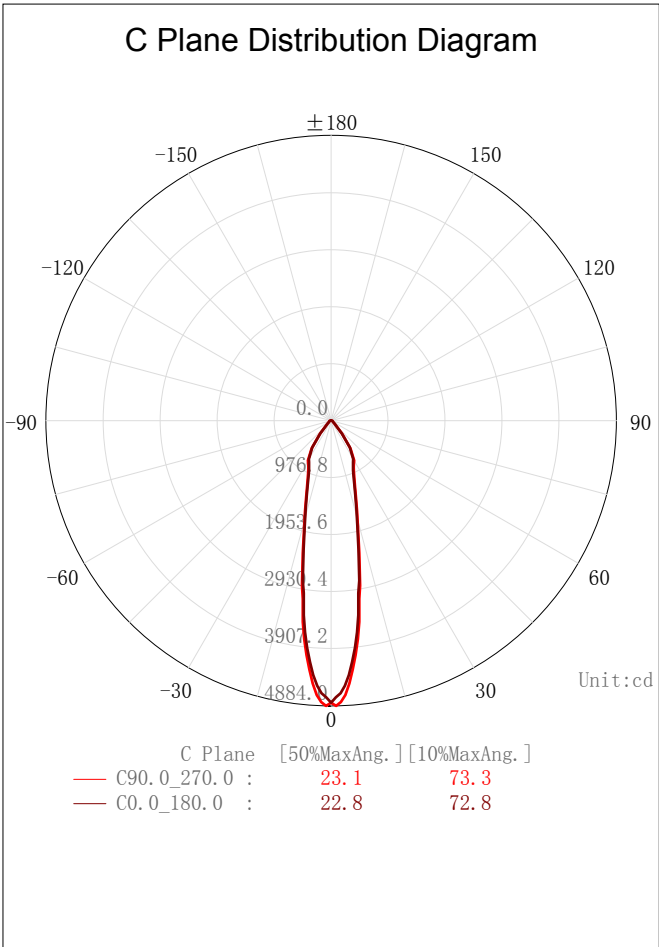
Indoor Luminaire Photometric Data

Description Information

Luminary Name: LED LUMINAIRE		Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)		Lamp Catalog: LED	Test Date: 4/20/2021
Manufacture: Light and Green		Shld.Ang(°):	Test Machine:GON-2000
Test Lab: LIGHT LABORATORY, INC. (www.lightlaboratory.com)		Frequency (Hz):	Lamp CCT (K): Ra:
Lum. Size (W*L*H):0.150m*0.480m*0.000m		Lum. Area (m2):0.072	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=5.0 γ=1.0	Temp. (°C): 25	Humidity(%):

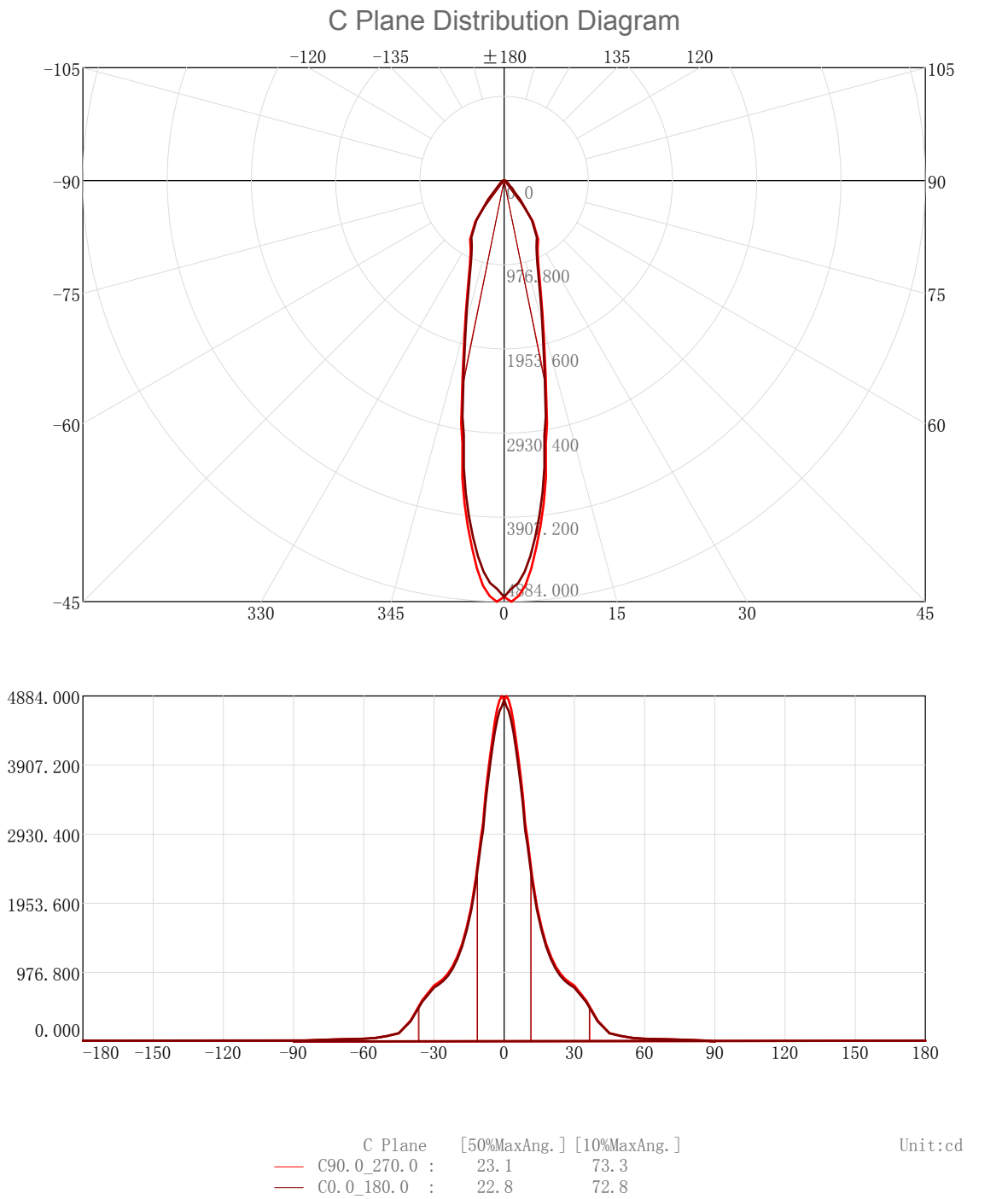
Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 1856.758	Luminary Flux(lm): 1856.758	Field Angle(10%Imax): 73.3(°)	
Rated Power(W):	Luminary Efficiency: 100.00%	Down Lumens&Percent: 1856.758lm 100.00%	
Rated Voltage(V):	Luminary EER(lm/W): 80.240	Up Lumens&Percent: 0.000lm 0.00%	
Tested Power(W): 23.140	Max. Candela(cd): 4884.000	S/MH: C0_a180=0.385 C90_270=0.394	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=1.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):240.1, 0.042	Beam Angle(50%Imax): 23.1(°)	ErP ϕ use(90°): 1693.062lm	
Lamp Size(W*L*H):0.150m*0.480m*0.000m	Left=-11.6°, Right=11.6°	IRF(%): 580.634	



2D Plane Light Intensity Distribution Curve

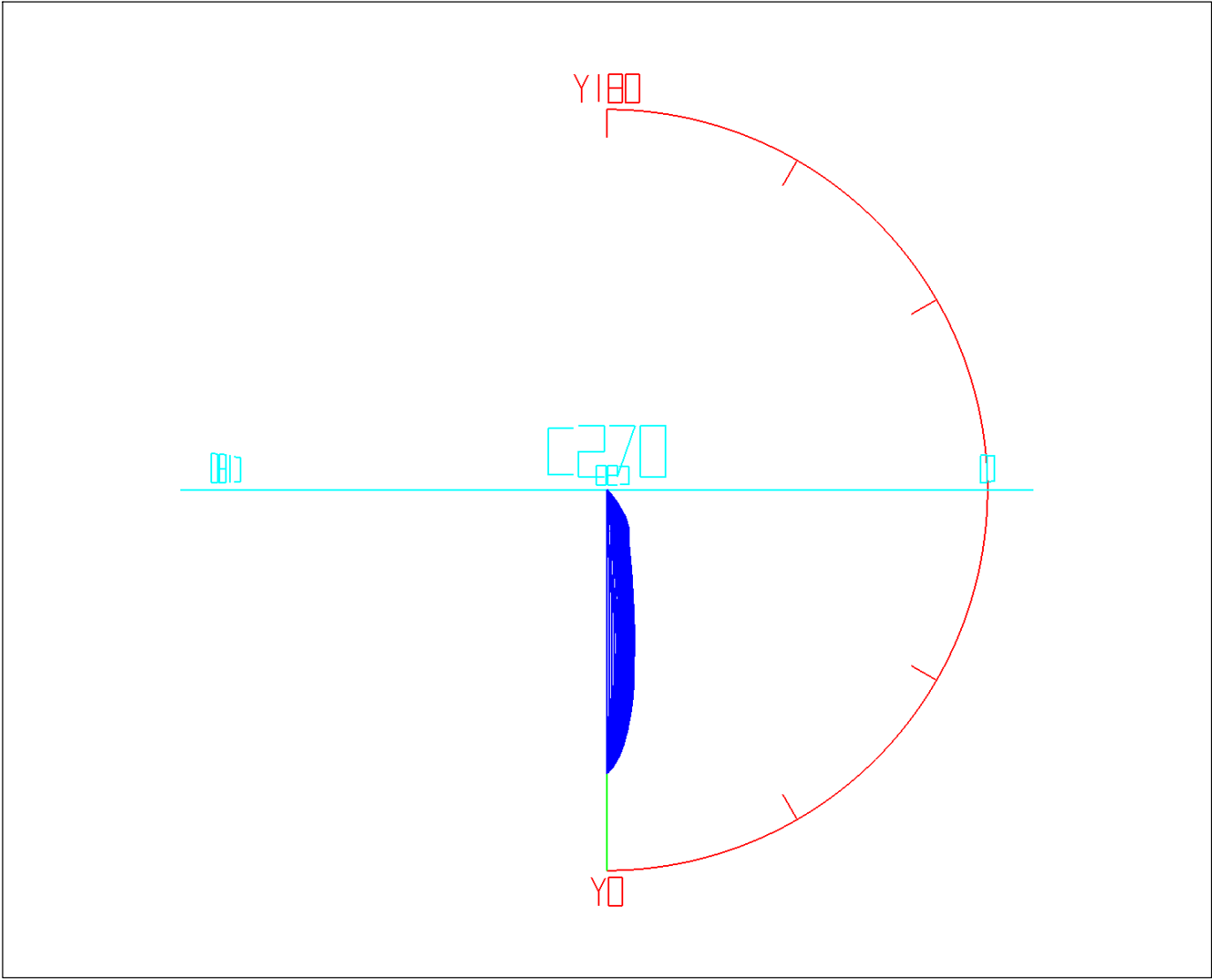
Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021



3D Light Intensity Distribution Modal

Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

3D Light Intensity Distribution Modal



Curves:

View Angles:

3D Model

Orient:0

Fixture

Tilt:0

Vert. HUD

Roll:0

Hori. HUD

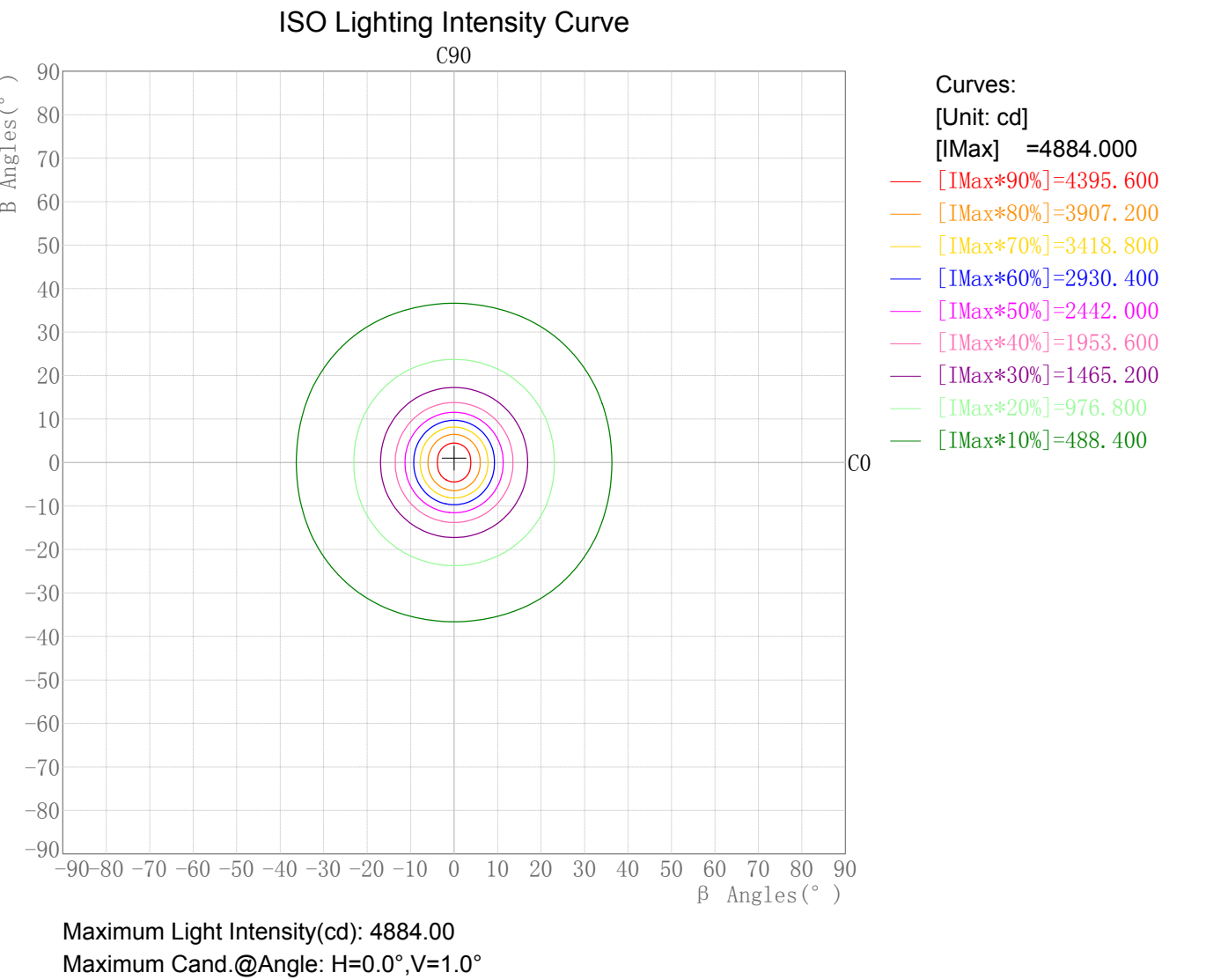
Spin:0

Zonal Flux Tabulation

Zone(γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0. 0-1. 0	4. 61	4. 61	0. 25	0. 25
1. 0-2. 0	13. 72	18. 33	0. 74	0. 99
2. 0-3. 0	22. 42	40. 75	1. 21	2. 19
3. 0-4. 0	30. 36	71. 11	1. 64	3. 83
4. 0-5. 0	37. 25	108. 37	2. 01	5. 84
5. 0-6. 0	43. 03	151. 40	2. 32	8. 15
6. 0-7. 0	47. 69	199. 10	2. 57	10. 72
7. 0-8. 0	51. 06	250. 16	2. 75	13. 47
8. 0-9. 0	52. 40	302. 56	2. 82	16. 29
9. 0-10. 0	53. 12	355. 67	2. 86	19. 16
10. 0-12. 0	107. 06	462. 73	5. 77	24. 92
12. 0-14. 0	103. 05	565. 78	5. 55	30. 47
14. 0-16. 0	98. 82	664. 61	5. 32	35. 79
16. 0-18. 0	94. 64	759. 25	5. 10	40. 89
18. 0-20. 0	90. 63	849. 88	4. 88	45. 77
20. 0-22. 0	87. 52	937. 40	4. 71	50. 49
22. 0-24. 0	85. 46	1022. 86	4. 60	55. 09
24. 0-26. 0	84. 42	1107. 28	4. 55	59. 64
26. 0-28. 0	84. 38	1191. 66	4. 54	64. 18
28. 0-30. 0	84. 96	1276. 62	4. 58	68. 76
30. 0-35. 0	198. 63	1475. 24	10. 70	79. 45
35. 0-40. 0	143. 14	1618. 38	7. 71	87. 16
40. 0-45. 0	74. 68	1693. 06	4. 02	91. 18
45. 0-50. 0	39. 19	1732. 26	2. 11	93. 29
50. 0-55. 0	27. 61	1759. 87	1. 49	94. 78
55. 0-60. 0	20. 57	1780. 44	1. 11	95. 89
60. 0-65. 0	17. 83	1798. 28	0. 96	96. 85
65. 0-70. 0	16. 64	1814. 92	0. 90	97. 75
70. 0-75. 0	15. 09	1830. 01	0. 81	98. 56
75. 0-80. 0	12. 94	1842. 95	0. 70	99. 26
80. 0-85. 0	9. 88	1852. 83	0. 53	99. 79
85. 0-90. 0	3. 93	1856. 76	0. 21	100. 00

Rectangle ISO Lighting Intensity Diagram

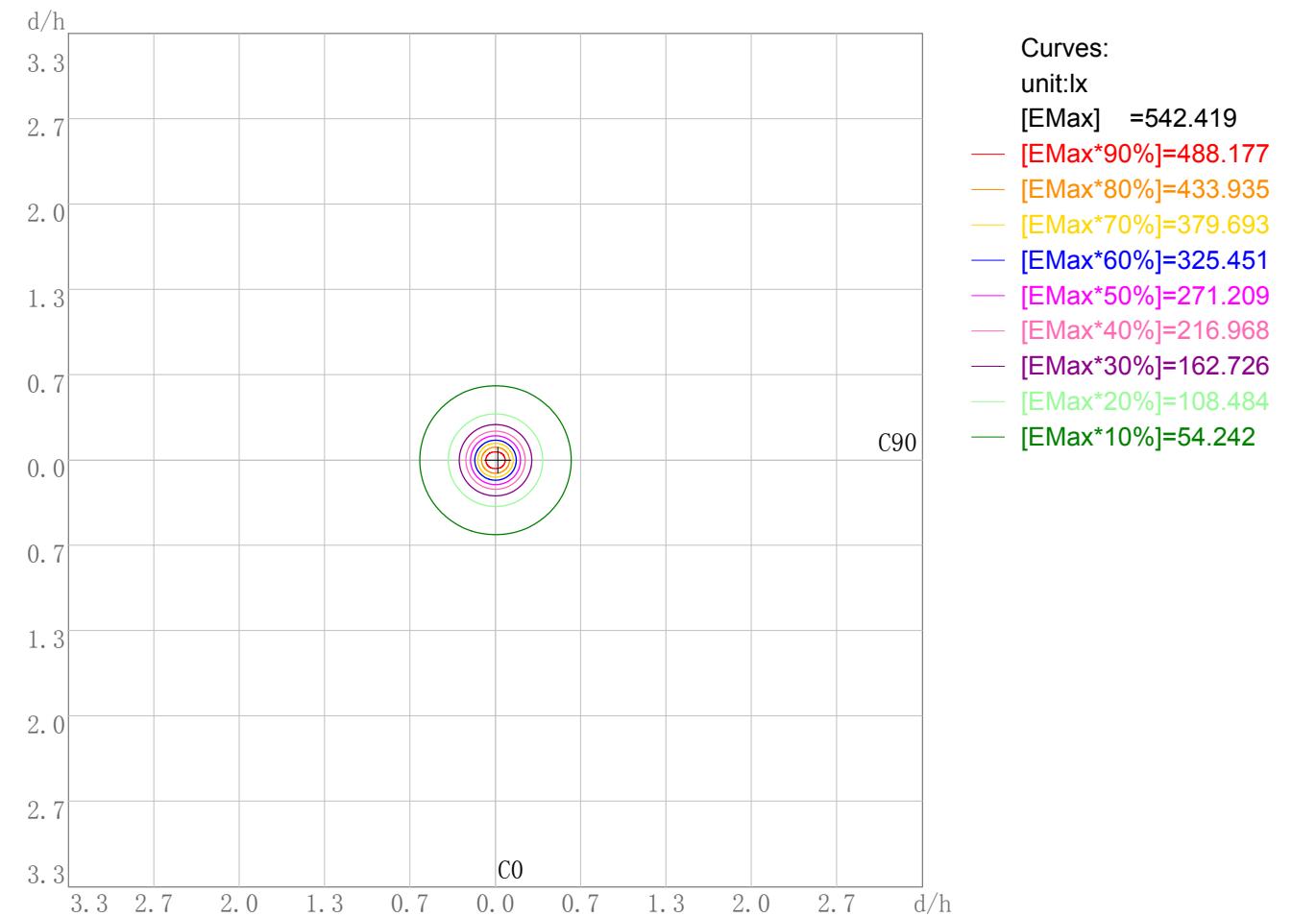
Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lightlab.com)
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021



Plane ISO-Illuminance Diagram

Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lightlab.com)
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

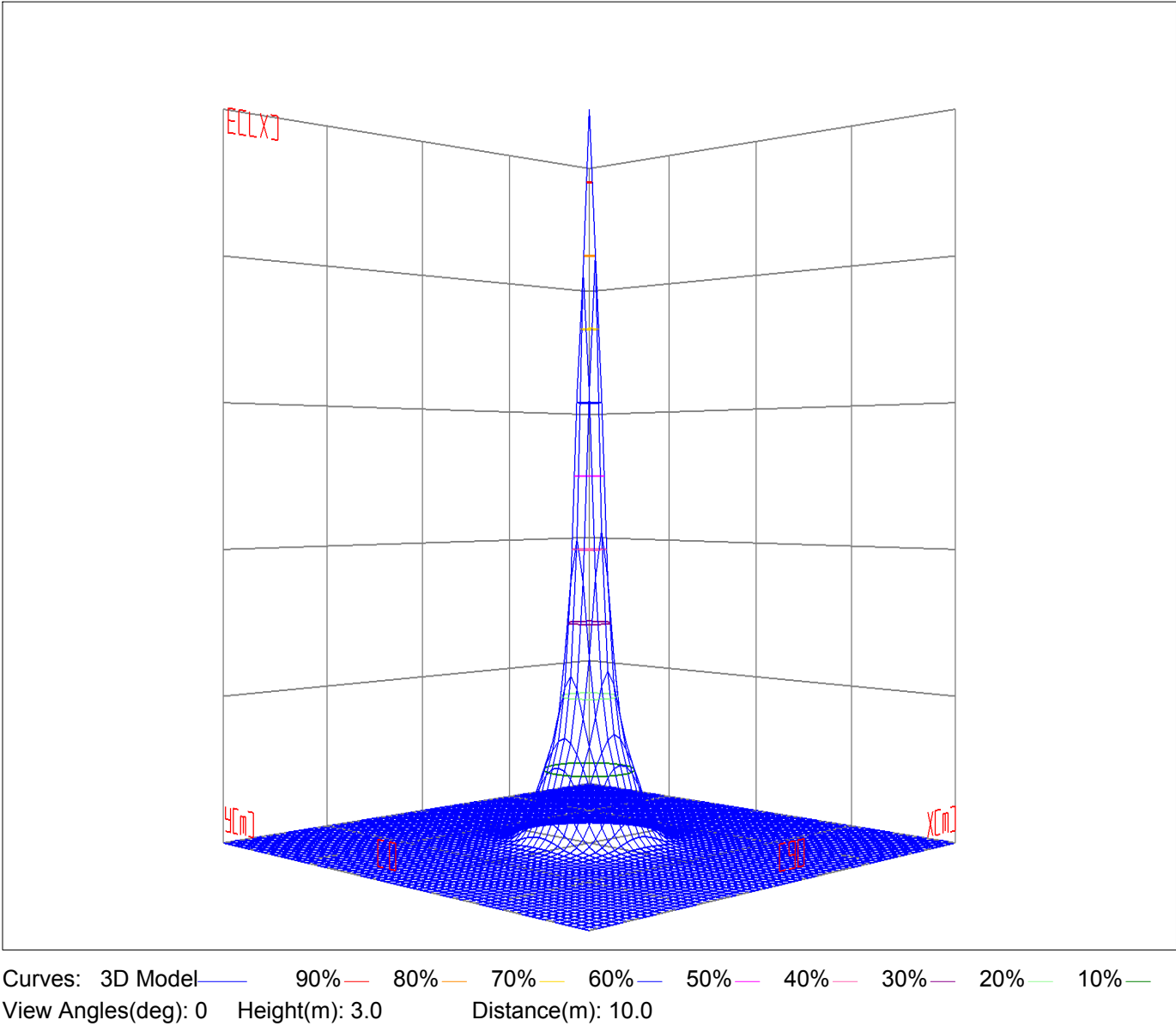
Plane ISO-Illuminance Curve



3D Plane ISO Illuminance Diagram

Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

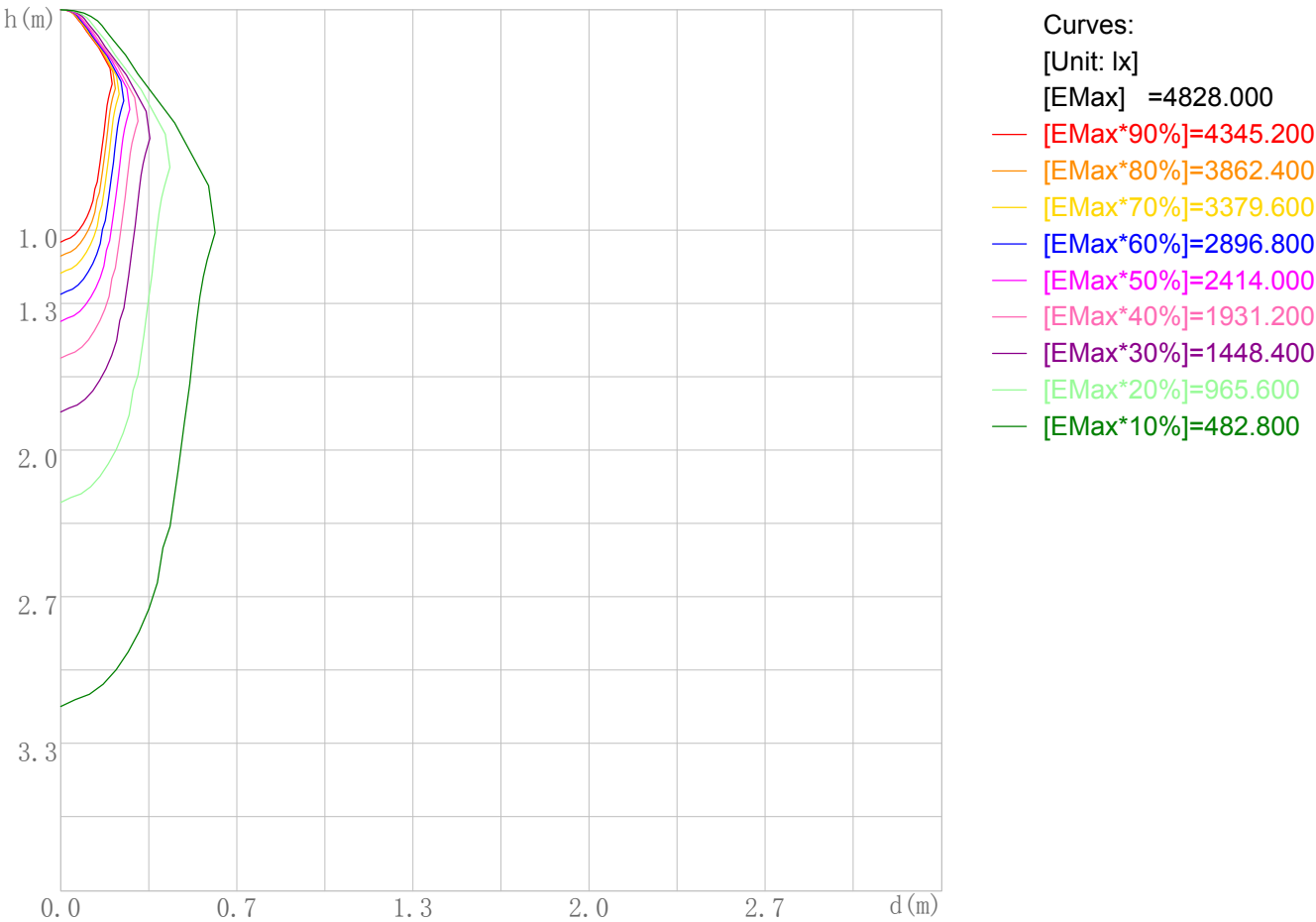
3D Plane Illuminance Modal



Space ISO Illuminance Diagram

Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lightlab.com)
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

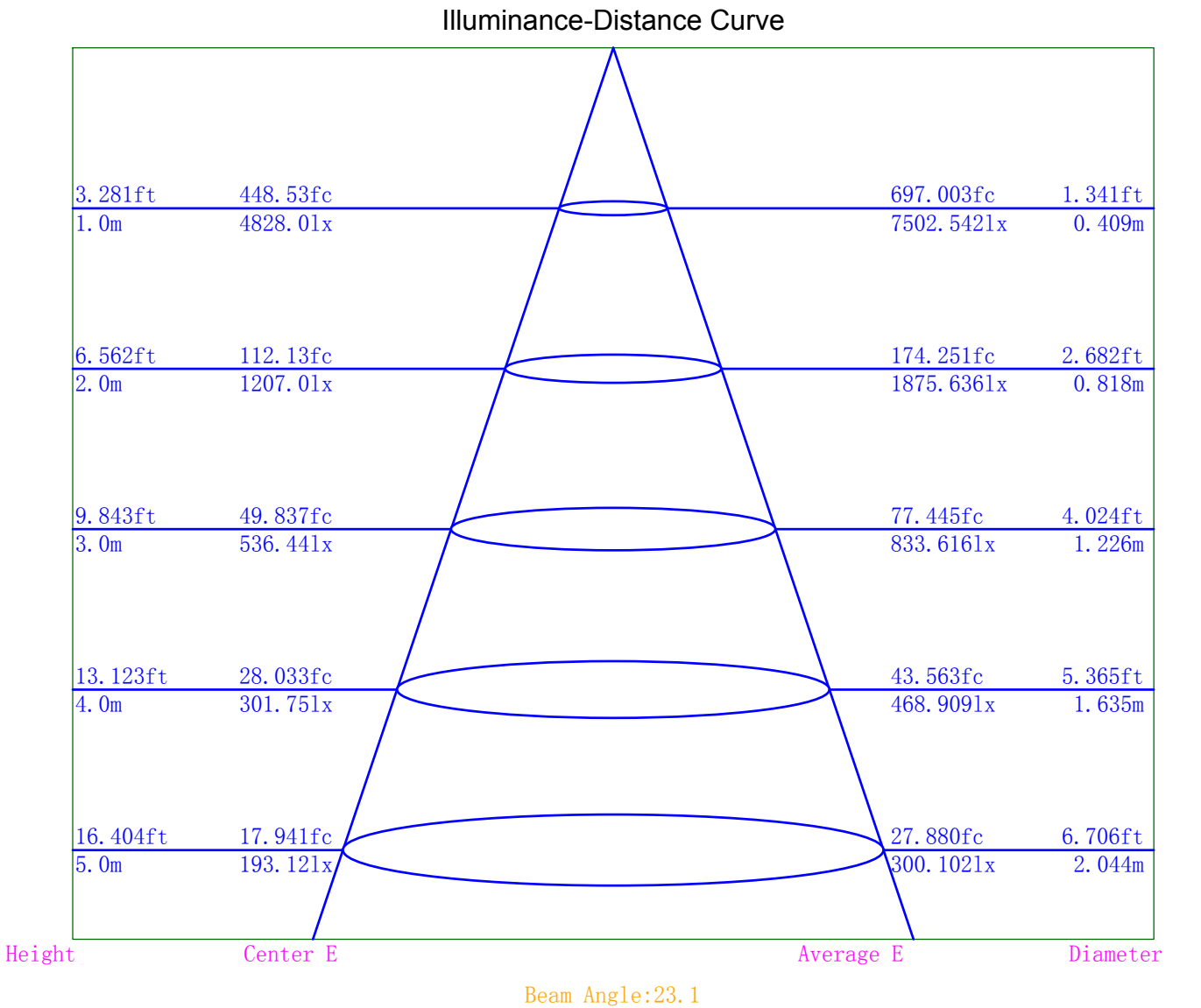
Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:4828.00lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:4828.000cd,0deg

Illuminance-Distance Diagram

Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021



Indoor Luminance Limiting Curves

Lum. Name: LED LUMINAIRE	Lum. Catalog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catalog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lightlab.com)
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

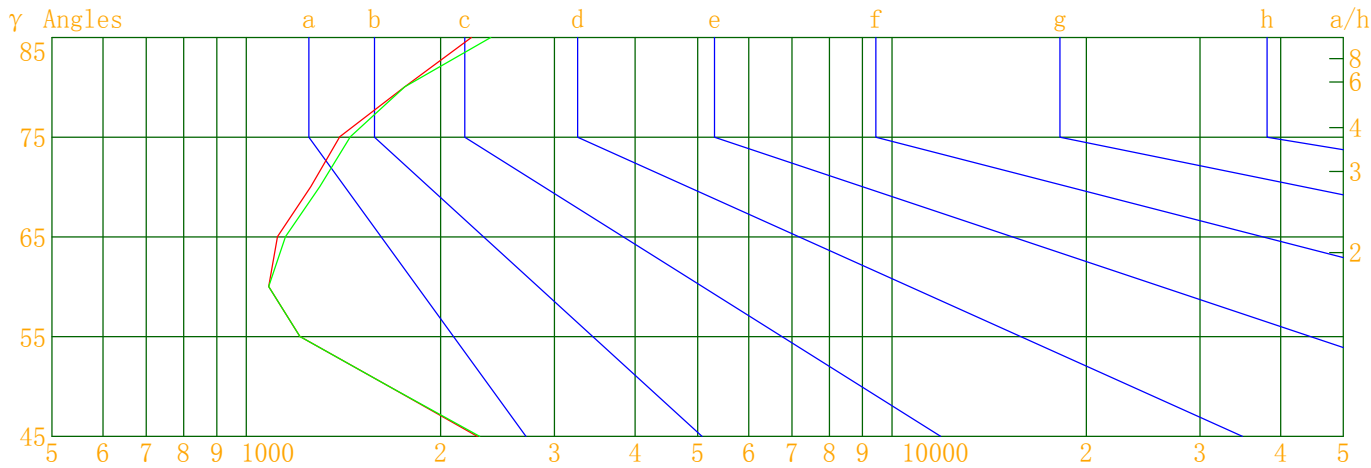
Glare Grade Table

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	2278	1664	1211	1083	1117	1259	1395	1760	2231
C90	2298	1664	1211	1083	1150	1299	1449	1760	2390

Luminance Limiting Curve



Luminous Size:

Length(m)=0.480

Width(m)=0.150

Height(m)=0.000

Area(m^2)=0.072000

Luminous Type:

Without Luminous Side

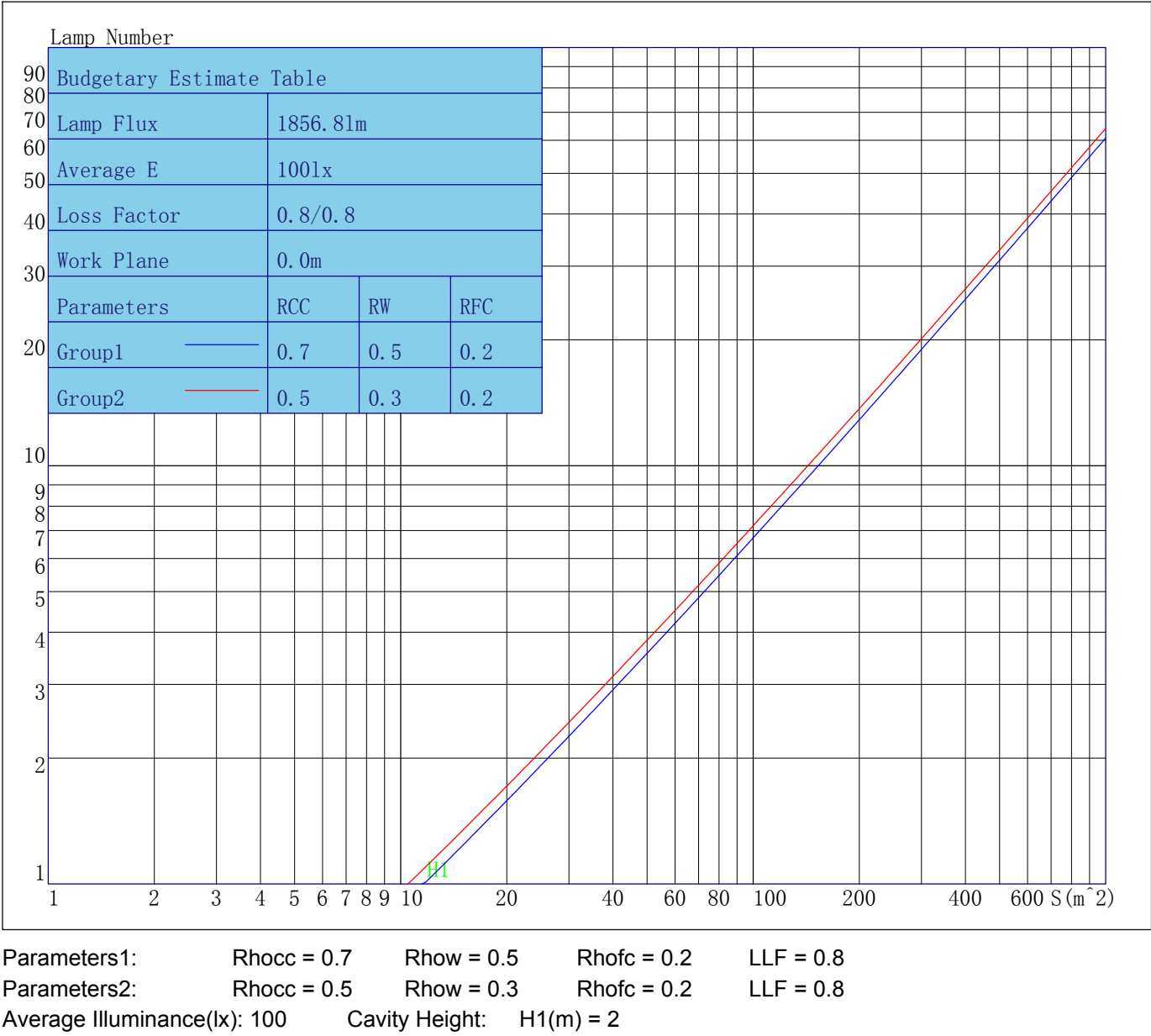
Luminous Curves:

C0-C180 Color: —

C90-C270 Color: —

Indoor Budgetary Estimate Table

Lum. Name: LED LUMINAIRE	Lum. Catelog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catelog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021



Indoor Coefficient of Utilization Table

Lum. Name: LED LUMINAIRE	Lum. Catelog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catelog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	86	83	87	84	81	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	76	73	80	75	72	78	74	72	70
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54

Unified Glare Rating Table

Lum. Name: LED LUMINAIRE	Lum. Catelog: 9022 - 24 deg	Test ID: IESNA:LM-79-08
Lamp Name: 2835(*84)	Lamp Catelog: LED	Test Lab: LIGHT LABORATORY, INC. (www.lig
Manufacture: Light and Green	Test Machine:GON-2000	Test Date: 4/20/2021

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	12.0	13.1	12.4	13.4	13.7	12.2	13.2	12.5	13.6	13.9
	12.5	13.4	12.9	13.7	14.1	12.6	13.6	13.0	13.9	14.3
	12.8	13.7	13.2	14.1	14.5	13.0	13.9	13.4	14.2	14.6
	13.3	14.1	13.8	14.5	14.9	13.5	14.3	13.9	14.7	15.1
	13.6	14.4	14.0	14.8	15.2	13.8	14.5	14.2	14.9	15.3
	13.9	14.6	14.3	15.0	15.4	14.0	14.8	14.5	15.1	15.6
X=4H Y=2H	12.0	12.9	12.4	13.2	13.6	12.1	13.0	12.5	13.4	13.8
	12.7	13.4	13.1	13.8	14.2	12.8	13.5	13.2	14.0	14.4
	13.2	13.9	13.7	14.3	14.7	13.4	14.0	13.8	14.5	14.9
	14.0	14.5	14.4	15.0	15.5	14.1	14.7	14.6	15.1	15.6
	14.4	14.9	14.8	15.3	15.8	14.5	15.0	15.0	15.5	15.9
	14.7	15.2	15.2	15.7	16.2	14.9	15.4	15.4	15.8	16.3
X=8H Y=4H	13.4	14.0	13.9	14.4	14.9	13.6	14.1	14.1	14.5	15.0
	14.4	14.8	14.9	15.3	15.9	14.5	14.9	15.0	15.4	16.0
	14.9	15.3	15.5	15.8	16.3	15.1	15.4	15.6	16.0	16.4
	15.5	15.8	16.0	16.3	16.9	15.7	16.0	16.2	16.5	17.0
X=12H Y=4H	13.5	13.9	14.0	14.4	14.9	13.6	14.1	14.1	14.5	15.0
	14.5	14.9	15.0	15.4	15.9	14.6	15.0	15.2	15.5	16.0
	15.1	15.4	15.6	15.9	16.5	15.2	15.6	15.8	16.1	16.6
Variations with the objerver position at spacings										
S=1.0H	0.2/-0.2					0.2/-0.2				
S=1.5H	0.3/-0.3					0.3/-0.3				
S=2.0H	0.2/-0.4					0.2/-0.3				
Reduced UGR Table:										
Nordic Standard Table:	BK0					BK0				
Correction Value	2.4					2.4				

o the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

IES Indoor Report

Photometric Filename:LG-9022 24° 9W.IES

Candela Tabulation

V/H	C0.0	C5.0	C10.0	C15.0	C20.0	C25.0	C30.0	C35.0	C40.0	C45.0	C50.0	C55.0
γ 0.0	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00
γ 1.0	4736.00	4739.00	4744.00	4749.00	4761.00	4770.00	4780.00	4791.00	4803.00	4813.00	4824.00	4836.00
γ 2.0	4670.00	4672.00	4678.00	4684.00	4695.00	4705.00	4714.00	4726.00	4738.00	4749.00	4760.00	4774.00
γ 3.0	4543.00	4546.00	4552.00	4558.00	4571.00	4581.00	4591.00	4605.00	4616.00	4628.00	4641.00	4653.00
γ 4.0	4365.00	4369.00	4374.00	4381.00	4395.00	4405.00	4414.00	4429.00	4439.00	4450.00	4461.00	4470.00
γ 5.0	4148.00	4152.00	4157.00	4162.00	4173.00	4181.00	4188.00	4199.00	4209.00	4218.00	4228.00	4238.00
γ 6.0	3910.00	3914.00	3918.00	3923.00	3933.00	3940.00	3946.00	3956.00	3965.00	3973.00	3983.00	3992.00
γ 7.0	3649.00	3654.00	3658.00	3662.00	3670.00	3678.00	3685.00	3696.00	3704.00	3713.00	3719.00	3727.00
γ 8.0	3363.00	3367.00	3372.00	3376.00	3383.00	3392.00	3399.00	3408.00	3418.00	3425.00	3433.00	3440.00
γ 9.0	2988.00	2992.00	2998.00	3002.00	3010.00	3016.00	3022.00	3030.00	3037.00	3045.00	3052.00	3059.00
γ 10.0	2779.00	2783.00	2788.00	2791.00	2800.00	2805.00	2810.00	2817.00	2824.00	2830.00	2837.00	2844.00
γ 12.0	2255.00	2260.00	2262.00	2262.00	2267.00	2271.00	2274.00	2278.00	2286.00	2290.00	2293.00	2299.00
γ 14.0	1860.00	1864.00	1867.00	1868.00	1874.00	1877.00	1878.00	1882.00	1886.00	1890.00	1891.00	1898.00
γ 16.0	1572.00	1573.00	1576.00	1576.00	1581.00	1583.00	1583.00	1585.00	1590.00	1593.00	1596.00	1601.00
γ 18.0	1339.00	1341.00	1343.00	1344.00	1347.00	1350.00	1350.00	1352.00	1355.00	1357.00	1360.00	1364.00
γ 20.0	1162.00	1163.00	1165.00	1166.00	1169.00	1172.00	1172.00	1173.00	1176.00	1178.00	1180.00	1185.00
γ 22.0	1028.00	1030.00	1033.00	1034.00	1038.00	1040.00	1040.00	1041.00	1044.00	1046.00	1048.00	1053.00
γ 24.0	929.00	931.00	933.00	934.00	938.00	941.00	941.00	943.00	945.00	947.00	949.00	953.00
γ 26.0	858.00	859.00	859.00	861.00	865.00	868.00	868.00	869.00	871.00	873.00	877.00	880.00
γ 28.0	804.00	805.00	806.00	808.00	812.00	815.00	815.00	816.00	818.00	820.00	824.00	827.00
γ 30.0	761.00	762.00	764.00	766.00	769.00	772.00	772.00	773.00	775.00	777.00	780.00	783.00
γ 35.0	560.00	559.00	562.00	563.00	565.00	567.00	567.00	568.00	569.00	572.00	574.00	576.00
γ 40.0	283.00	282.00	283.00	283.00	282.00	284.00	281.00	282.00	282.00	283.00	286.00	287.00
γ 45.0	116.00	117.00	117.00	117.00	117.00	117.00	117.00	117.00	117.00	117.00	117.00	117.00
γ 50.0	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00	77.00
γ 55.0	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
γ 60.0	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
γ 65.0	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00	34.00
γ 70.0	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00
γ 75.0	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
γ 80.0	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00
γ 85.0	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
γ 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V/H	C60.0	C65.0	C70.0	C75.0	C80.0	C85.0	C90.0					
γ 0.0	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00	4828.00					
γ 1.0	4847.00	4856.00	4865.00	4872.00	4878.00	4883.00	4884.00					
γ 2.0	4783.00	4792.00	4801.00	4809.00	4814.00	4819.00	4820.00					
γ 3.0	4664.00	4673.00	4682.00	4690.00	4696.00	4701.00	4703.00					
γ 4.0	4479.00	4486.00	4493.00	4499.00	4504.00	4508.00	4509.00					
γ 5.0	4246.00	4254.00	4260.00	4266.00	4270.00	4272.00	4273.00					
γ 6.0	3999.00	4009.00	4017.00	4022.00	4026.00	4029.00	4030.00					
γ 7.0	3735.00	3744.00	3752.00	3759.00	3764.00	3768.00	3769.00					
γ 8.0	3446.00	3454.00	3463.00	3470.00	3475.00	3478.00	3479.00					
γ 9.0	3064.00	3070.00	3076.00	3079.00	3083.00	3087.00	3087.00					
γ 10.0	2849.00	2853.00	2857.00	2860.00	2863.00	2864.00	2865.00					
γ 12.0	2302.00	2305.00	2311.00	2314.00	2318.00	2321.00	2320.00					
γ 14.0	1901.00	1904.00	1906.00	1907.00	1910.00	1911.00	1909.00					

Candela Tabulation - (Cont.)

V/H	C60. 0	C65. 0	C70. 0	C75. 0	C80. 0	C85. 0	C90. 0
γ 16. 0	1603. 00	1605. 00	1606. 00	1609. 00	1612. 00	1613. 00	1613. 00
γ 18. 0	1367. 00	1369. 00	1372. 00	1374. 00	1376. 00	1377. 00	1377. 00
γ 20. 0	1190. 00	1191. 00	1193. 00	1194. 00	1197. 00	1197. 00	1198. 00
γ 22. 0	1055. 00	1057. 00	1059. 00	1060. 00	1062. 00	1062. 00	1062. 00
γ 24. 0	956. 00	957. 00	958. 00	960. 00	962. 00	962. 00	962. 00
γ 26. 0	883. 00	884. 00	884. 00	886. 00	887. 00	888. 00	887. 00
γ 28. 0	829. 00	830. 00	831. 00	833. 00	833. 00	834. 00	833. 00
γ 30. 0	785. 00	786. 00	786. 00	788. 00	789. 00	789. 00	789. 00
γ 35. 0	578. 00	578. 00	579. 00	579. 00	580. 00	581. 00	582. 00
γ 40. 0	290. 00	290. 00	290. 00	292. 00	293. 00	295. 00	296. 00
γ 45. 0	117. 00	117. 00	117. 00	117. 00	117. 00	117. 00	117. 00
γ 50. 0	77. 00	77. 00	77. 00	77. 00	77. 00	77. 00	77. 00
γ 55. 0	50. 00	50. 00	50. 00	50. 00	50. 00	50. 00	50. 00
γ 60. 0	39. 00	39. 00	39. 00	39. 00	39. 00	39. 00	39. 00
γ 65. 0	35. 00	35. 00	35. 00	35. 00	35. 00	35. 00	35. 00
γ 70. 0	32. 00	32. 00	32. 00	32. 00	32. 00	32. 00	32. 00
γ 75. 0	27. 00	27. 00	27. 00	27. 00	27. 00	27. 00	27. 00
γ 80. 0	22. 00	22. 00	22. 00	22. 00	22. 00	22. 00	22. 00
γ 85. 0	15. 00	15. 00	15. 00	15. 00	15. 00	15. 00	15. 00
γ 90. 0	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00	0. 00