

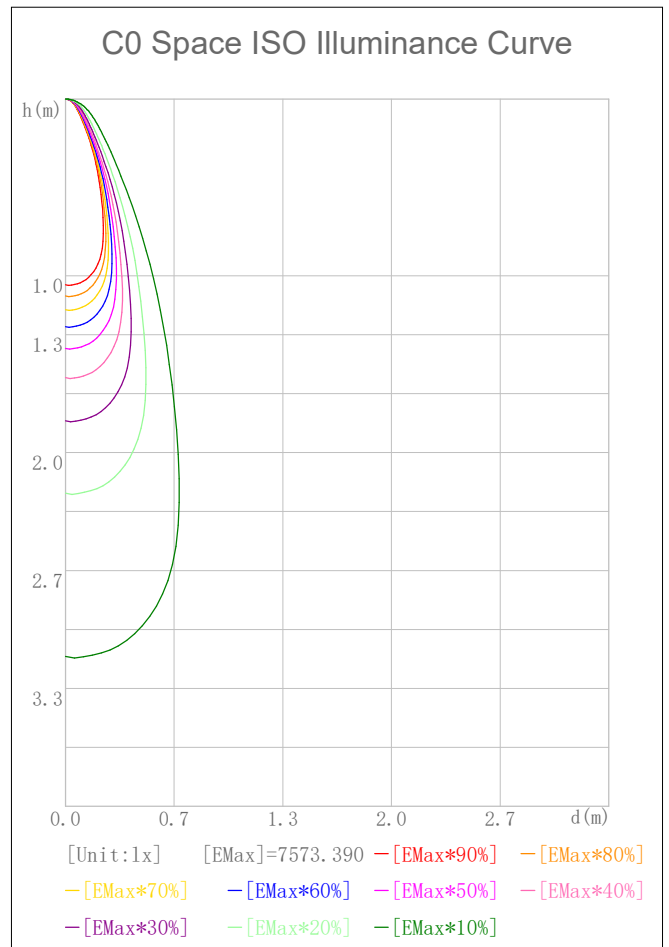
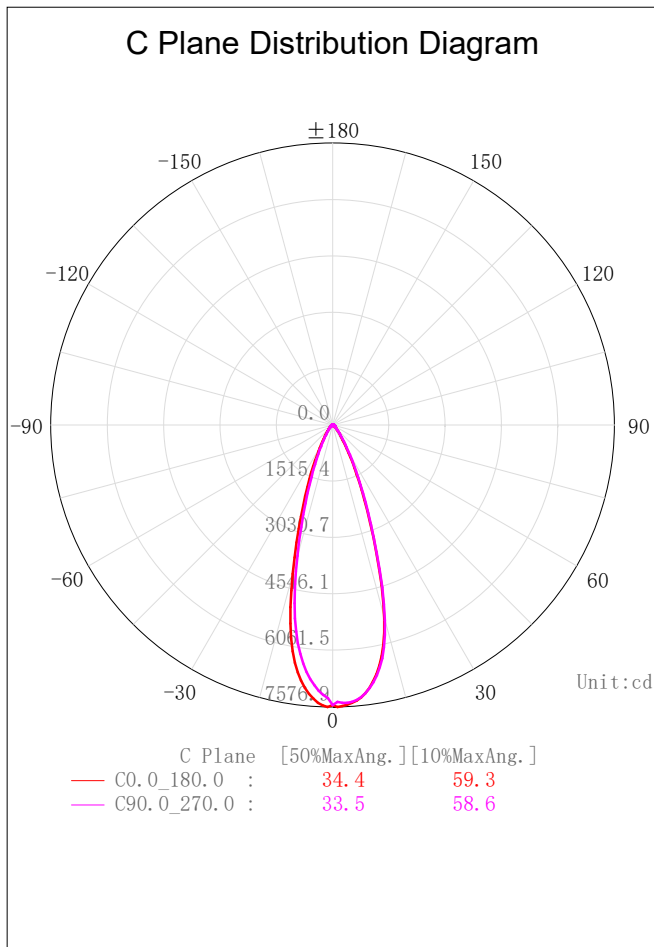
**Indoor Luminaire Photometric Data**

**Description Information**

Luminaire Name: 1177	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Date: 2025/05/16
Manufacture:	Shld. Ang(°):	Test Machine:GON-2000
Test Lab: volnic	Frequency(Hz):	Lamp CCT(K): Ra:
Lum. Size(W*L*H):0.187m*0.187m*0.030m	Lum. Area(m2):0.041	Lum. W(kg): 1.000
Test System: C, $\gamma$	Test Step: C=90.0 $\gamma$ =1.0	Temp. (°C): 25
		Humidity(%): 60.0

**Character Parameter**

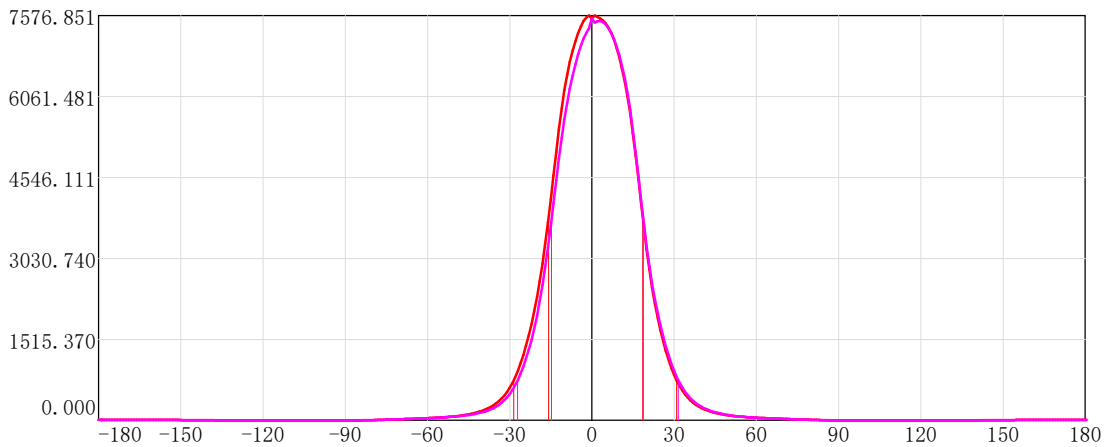
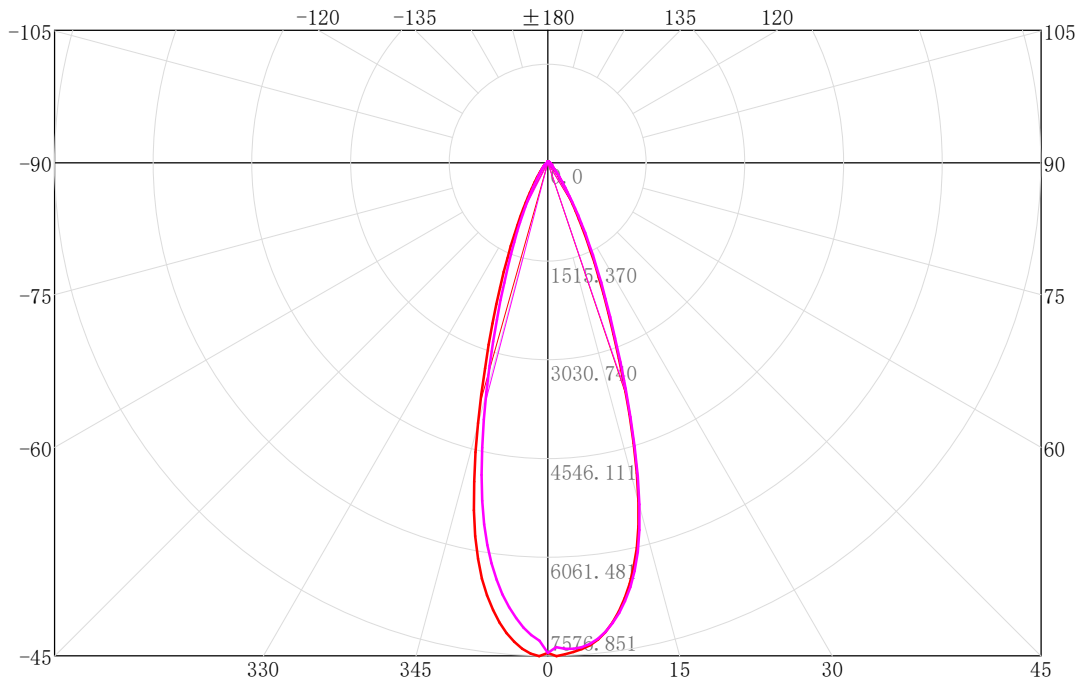
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 2800.000	Luminaire Flux(lm): 3066.157	Field Angle(10%Imax): 59.3(°)	
Rated Power(W):	Luminaire Efficiency: 109.51%	Down Lumens&Percent: 3051.736lm 99.53%	
Rated Voltage(V):	Luminaire EER(lm/W): 107.246	Up Lumens&Percent: 14.422lm 0.47%	
Tested Power(W): 28.590	Max. Candela(cd): 7576.851	S/MH: C0_a180=0.580 C90_270=0.562	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 $\gamma$ =1.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf):219.8, 0.139, 0.934	Beam Angle(50%Imax): 34.4(°)	ErP $\Phi$ use(90°): 2923.910lm	
Lamp Size(W*L*H):0.187m*0.187m*0.030m	Left=-15.8°, Right=18.6°	IRF(%): 506.392	



**2D Plane Light Intensity Distribution Curve**

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

**C Plane Distribution Diagram**



	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C0.0_180.0 :	34.4	59.3	
—	C90.0_270.0 :	33.5	58.6	

### 3D Light Intensity Distribution Modal

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

### 3D Light Intensity Distribution Modal



Curves:            3D Model —    Fixture —    Vert. HUD —    Hori. HUD —  
View Angles:       Orient:0       Tilt:0       Roll:0       Spin:0

**IES Indoor Report**  
**Photometric Filename:PAR30 30W-1.IES**

**Zonal Flux Tabulation**

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-1.0	7.18	7.18	0.26	0.26	47.0-48.0	8.52	2917.33	0.30	104.19
1.0-2.0	21.44	28.62	0.77	1.02	48.0-49.0	8.02	2925.35	0.29	104.48
2.0-3.0	35.54	64.16	1.27	2.29	49.0-50.0	7.56	2932.91	0.27	104.75
3.0-4.0	49.33	113.49	1.76	4.05	50.0-51.0	7.14	2940.06	0.26	105.00
4.0-5.0	62.68	176.17	2.24	6.29	51.0-52.0	6.76	2946.82	0.24	105.24
5.0-6.0	75.45	251.62	2.69	8.99	52.0-53.0	6.42	2953.24	0.23	105.47
6.0-7.0	87.47	339.09	3.12	12.11	53.0-54.0	6.11	2959.36	0.22	105.69
7.0-8.0	98.56	437.65	3.52	15.63	54.0-55.0	5.83	2965.18	0.21	105.90
8.0-9.0	108.55	546.20	3.88	19.51	55.0-56.0	5.56	2970.75	0.20	106.10
9.0-10.0	117.25	663.45	4.19	23.69	56.0-57.0	5.32	2976.07	0.19	106.29
10.0-11.0	124.38	787.83	4.44	28.14	57.0-58.0	5.09	2981.15	0.18	106.47
11.0-12.0	129.70	917.54	4.63	32.77	58.0-59.0	4.87	2986.02	0.17	106.64
12.0-13.0	133.02	1050.55	4.75	37.52	59.0-60.0	4.66	2990.69	0.17	106.81
13.0-14.0	134.19	1184.74	4.79	42.31	60.0-61.0	4.47	2995.16	0.16	106.97
14.0-15.0	133.17	1317.91	4.76	47.07	61.0-62.0	4.28	2999.44	0.15	107.12
15.0-16.0	130.05	1447.97	4.64	51.71	62.0-63.0	4.10	3003.54	0.15	107.27
16.0-17.0	125.15	1573.12	4.47	56.18	63.0-64.0	3.92	3007.46	0.14	107.41
17.0-18.0	119.01	1692.13	4.25	60.43	64.0-65.0	3.74	3011.20	0.13	107.54
18.0-19.0	112.04	1804.17	4.00	64.43	65.0-66.0	3.57	3014.77	0.13	107.67
19.0-20.0	104.56	1908.72	3.73	68.17	66.0-67.0	3.40	3018.17	0.12	107.79
20.0-21.0	96.96	2005.69	3.46	71.63	67.0-68.0	3.23	3021.40	0.12	107.91
21.0-22.0	89.59	2095.28	3.20	74.83	68.0-69.0	3.06	3024.47	0.11	108.02
22.0-23.0	82.54	2177.81	2.95	77.78	69.0-70.0	2.90	3027.36	0.10	108.12
23.0-24.0	75.79	2253.60	2.71	80.49	70.0-71.0	2.73	3030.09	0.10	108.22
24.0-25.0	69.38	2322.98	2.48	82.96	71.0-72.0	2.56	3032.66	0.09	108.31
25.0-26.0	63.23	2386.21	2.26	85.22	72.0-73.0	2.40	3035.05	0.09	108.39
26.0-27.0	57.38	2443.59	2.05	87.27	73.0-74.0	2.23	3037.28	0.08	108.47
27.0-28.0	51.86	2495.45	1.85	89.12	74.0-75.0	2.06	3039.35	0.07	108.55
28.0-29.0	46.72	2542.17	1.67	90.79	75.0-76.0	1.90	3041.24	0.07	108.62
29.0-30.0	41.98	2584.15	1.50	92.29	76.0-77.0	1.73	3042.97	0.06	108.68
30.0-31.0	37.66	2621.81	1.35	93.64	77.0-78.0	1.57	3044.54	0.06	108.73
31.0-32.0	33.75	2655.56	1.21	94.84	78.0-79.0	1.40	3045.94	0.05	108.78
32.0-33.0	30.25	2685.81	1.08	95.92	79.0-80.0	1.24	3047.18	0.04	108.83
33.0-34.0	27.16	2712.97	0.97	96.89	80.0-81.0	1.08	3048.26	0.04	108.87
34.0-35.0	24.45	2737.43	0.87	97.77	81.0-82.0	0.92	3049.18	0.03	108.90
35.0-36.0	22.09	2759.52	0.79	98.55	82.0-83.0	0.77	3049.95	0.03	108.93
36.0-37.0	20.03	2779.55	0.72	99.27	83.0-84.0	0.61	3050.56	0.02	108.95
37.0-38.0	18.22	2797.76	0.65	99.92	84.0-85.0	0.45	3051.01	0.02	108.96
38.0-39.0	16.63	2814.39	0.59	100.51	85.0-86.0	0.31	3051.33	0.01	108.98
39.0-40.0	15.23	2829.63	0.54	101.06	86.0-87.0	0.21	3051.54	0.01	108.98
40.0-41.0	14.01	2843.63	0.50	101.56	87.0-88.0	0.13	3051.67	0.00	108.99
41.0-42.0	12.93	2856.56	0.46	102.02	88.0-89.0	0.06	3051.72	0.00	108.99
42.0-43.0	11.98	2868.54	0.43	102.45	89.0-90.0	0.01	3051.74	0.00	108.99
43.0-44.0	11.13	2879.67	0.40	102.85	90.0-91.0	0.00	3051.74	0.00	108.99
44.0-45.0	10.37	2890.04	0.37	103.22	91.0-92.0	0.00	3051.74	0.00	108.99
45.0-46.0	9.69	2899.73	0.35	103.56	92.0-93.0	0.00	3051.74	0.00	108.99
46.0-47.0	9.08	2908.81	0.32	103.89	93.0-94.0	0.00	3051.74	0.00	108.99

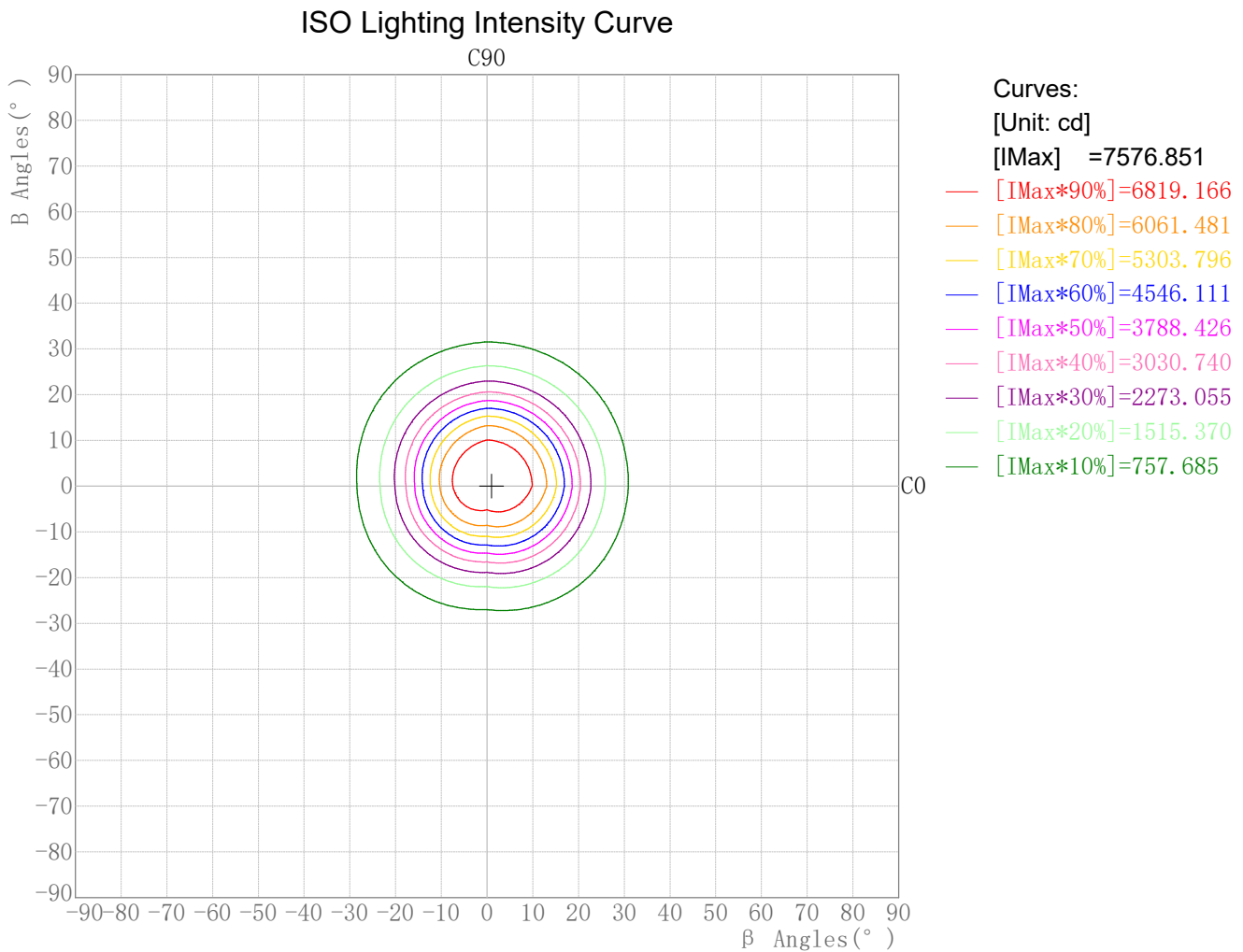
**IES Indoor Report**  
**Photometric Filename:PAR30 30W-1.IES**

**Zonal Flux Tabulation - (Cont.)**

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp	Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
94.0-95.0	0.00	3051.74	0.00	108.99	141.0-142.0	0.27	3053.49	0.01	109.05
95.0-96.0	0.00	3051.74	0.00	108.99	142.0-143.0	0.29	3053.78	0.01	109.06
96.0-97.0	0.00	3051.74	0.00	108.99	143.0-144.0	0.32	3054.10	0.01	109.07
97.0-98.0	0.00	3051.74	0.00	108.99	144.0-145.0	0.34	3054.43	0.01	109.09
98.0-99.0	0.00	3051.74	0.00	108.99	145.0-146.0	0.36	3054.79	0.01	109.10
99.0-100.0	0.00	3051.74	0.00	108.99	146.0-147.0	0.38	3055.17	0.01	109.11
100.0-101.0	0.00	3051.74	0.00	108.99	147.0-148.0	0.40	3055.56	0.01	109.13
101.0-102.0	0.00	3051.74	0.00	108.99	148.0-149.0	0.41	3055.98	0.01	109.14
102.0-103.0	0.00	3051.74	0.00	108.99	149.0-150.0	0.43	3056.40	0.02	109.16
103.0-104.0	0.00	3051.74	0.00	108.99	150.0-151.0	0.44	3056.85	0.02	109.17
104.0-105.0	0.00	3051.74	0.00	108.99	151.0-152.0	0.45	3057.30	0.02	109.19
105.0-106.0	0.00	3051.74	0.00	108.99	152.0-153.0	0.46	3057.76	0.02	109.21
106.0-107.0	0.00	3051.74	0.00	108.99	153.0-154.0	0.47	3058.23	0.02	109.22
107.0-108.0	0.00	3051.74	0.00	108.99	154.0-155.0	0.47	3058.71	0.02	109.24
108.0-109.0	0.00	3051.74	0.00	108.99	155.0-156.0	0.48	3059.18	0.02	109.26
109.0-110.0	0.00	3051.74	0.00	108.99	156.0-157.0	0.48	3059.66	0.02	109.27
110.0-111.0	0.00	3051.74	0.00	108.99	157.0-158.0	0.47	3060.13	0.02	109.29
111.0-112.0	0.00	3051.74	0.00	108.99	158.0-159.0	0.47	3060.60	0.02	109.31
112.0-113.0	0.00	3051.74	0.00	108.99	159.0-160.0	0.46	3061.07	0.02	109.32
113.0-114.0	0.00	3051.74	0.00	108.99	160.0-161.0	0.45	3061.52	0.02	109.34
114.0-115.0	0.00	3051.74	0.00	108.99	161.0-162.0	0.44	3061.96	0.02	109.36
115.0-116.0	0.00	3051.74	0.00	108.99	162.0-163.0	0.43	3062.38	0.02	109.37
116.0-117.0	0.00	3051.74	0.00	108.99	163.0-164.0	0.41	3062.79	0.01	109.39
117.0-118.0	0.00	3051.74	0.00	108.99	164.0-165.0	0.39	3063.18	0.01	109.40
118.0-119.0	0.00	3051.74	0.00	108.99	165.0-166.0	0.37	3063.55	0.01	109.41
119.0-120.0	0.00	3051.74	0.00	108.99	166.0-167.0	0.35	3063.90	0.01	109.43
120.0-121.0	0.00	3051.74	0.00	108.99	167.0-168.0	0.33	3064.23	0.01	109.44
121.0-122.0	0.00	3051.74	0.00	108.99	168.0-169.0	0.30	3064.53	0.01	109.45
122.0-123.0	0.00	3051.74	0.00	108.99	169.0-170.0	0.28	3064.81	0.01	109.46
123.0-124.0	0.00	3051.74	0.00	108.99	170.0-171.0	0.25	3065.06	0.01	109.47
124.0-125.0	0.00	3051.74	0.00	108.99	171.0-172.0	0.23	3065.29	0.01	109.47
125.0-126.0	0.00	3051.74	0.00	108.99	172.0-173.0	0.20	3065.49	0.01	109.48
126.0-127.0	0.00	3051.74	0.00	108.99	173.0-174.0	0.18	3065.67	0.01	109.49
127.0-128.0	0.01	3051.75	0.00	108.99	174.0-175.0	0.15	3065.81	0.01	109.49
128.0-129.0	0.01	3051.76	0.00	108.99	175.0-176.0	0.12	3065.94	0.00	109.50
129.0-130.0	0.02	3051.78	0.00	108.99	176.0-177.0	0.10	3066.03	0.00	109.50
130.0-131.0	0.03	3051.82	0.00	108.99	177.0-178.0	0.07	3066.10	0.00	109.50
131.0-132.0	0.05	3051.87	0.00	109.00	178.0-179.0	0.04	3066.14	0.00	109.51
132.0-133.0	0.06	3051.93	0.00	109.00	179.0-180.0	0.01	3066.16	0.00	109.51
133.0-134.0	0.08	3052.01	0.00	109.00					
134.0-135.0	0.10	3052.11	0.00	109.00					
135.0-136.0	0.13	3052.24	0.00	109.01					
136.0-137.0	0.15	3052.39	0.01	109.01					
137.0-138.0	0.17	3052.56	0.01	109.02					
138.0-139.0	0.20	3052.76	0.01	109.03					
139.0-140.0	0.22	3052.98	0.01	109.03					
140.0-141.0	0.24	3053.22	0.01	109.04					

### Rectangle ISO Lighting Intensity Diagram

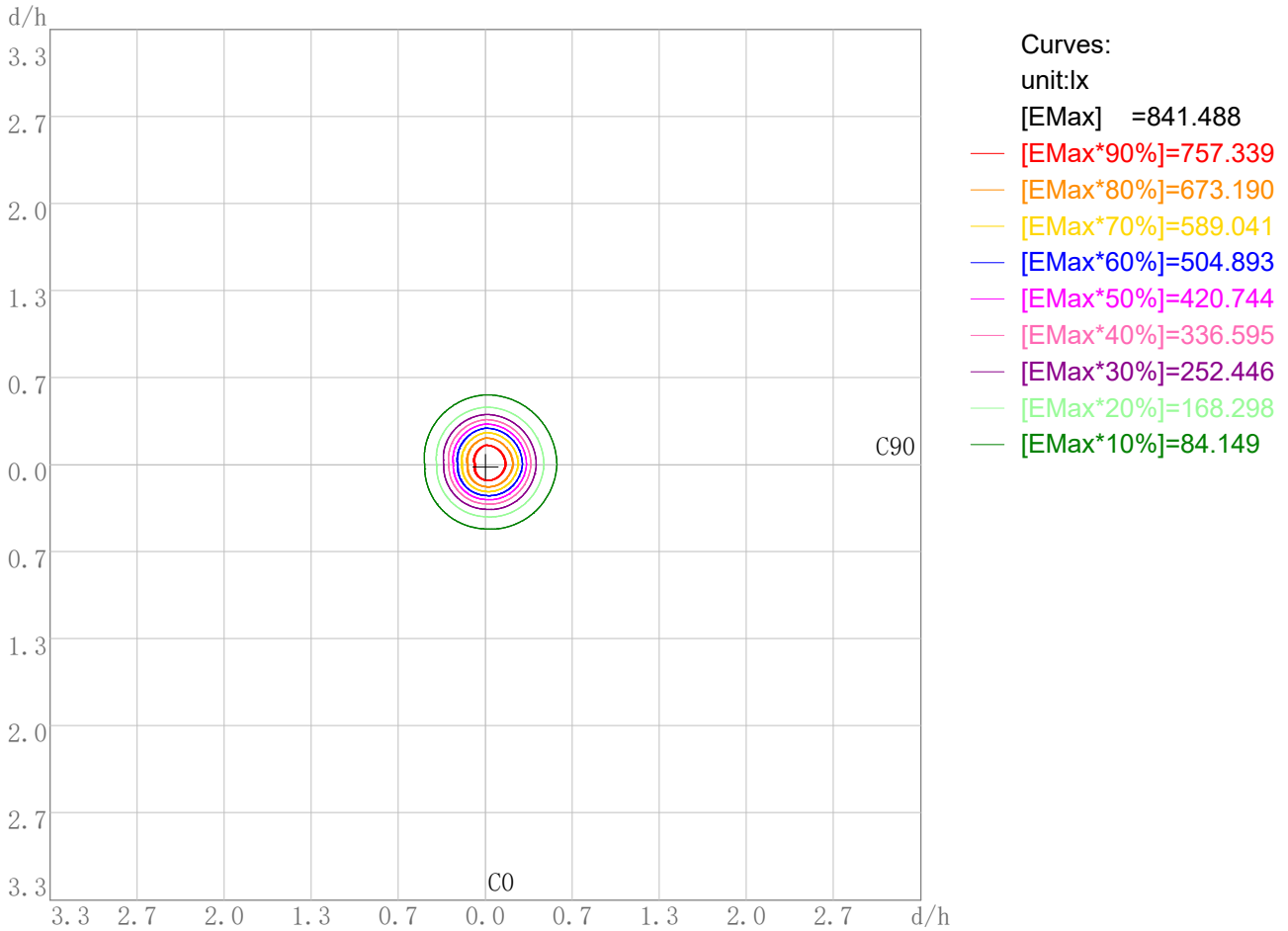
Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16



**Plane ISO-Illuminance Diagram**

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

Plane ISO-Illuminance Curve

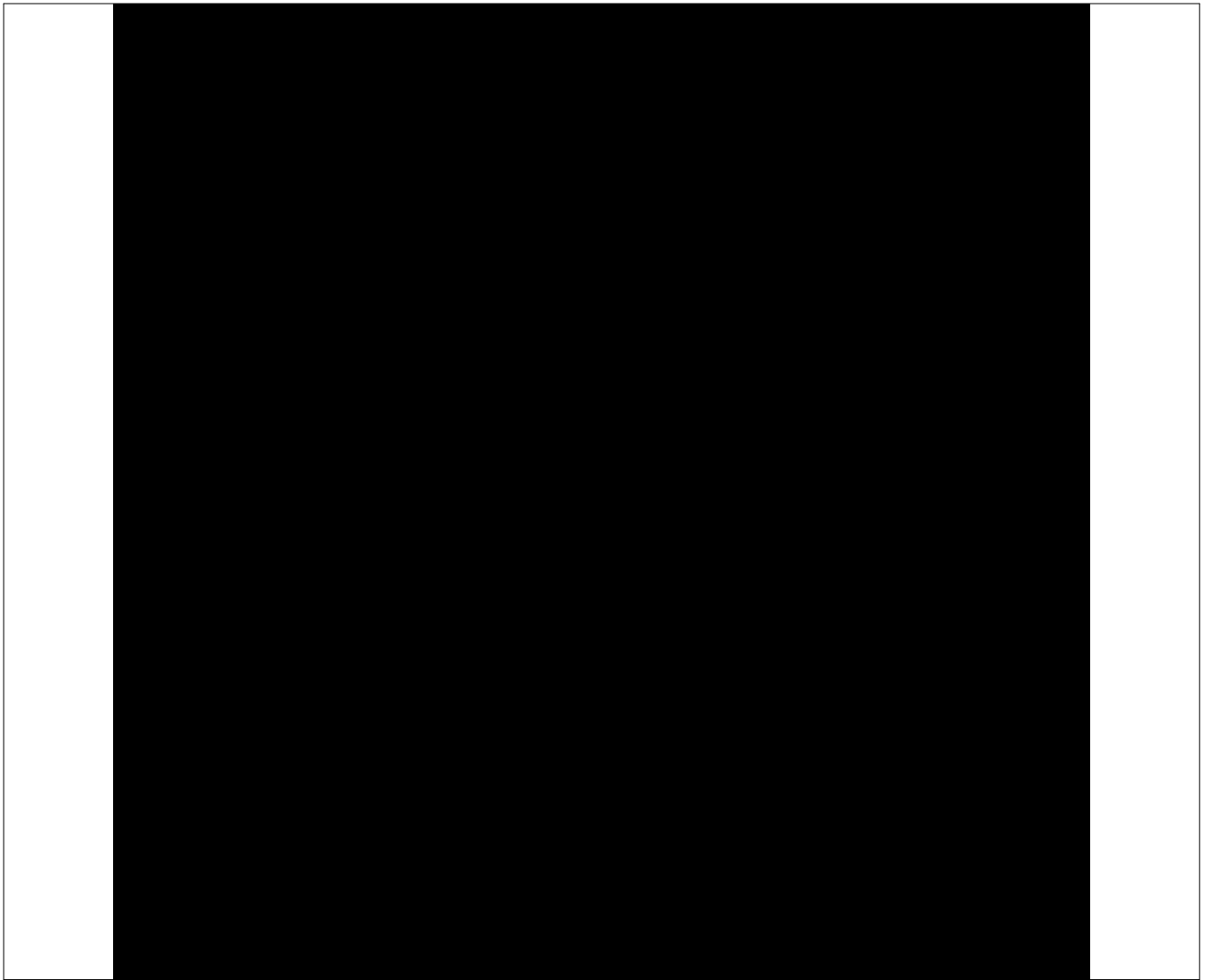


Working Plane Luminaire Mounting Height(m): 3.00  
Working Plane Maximum Illuminance(lx): 841.49  
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

### 3D Plane ISO Illuminance Diagram

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

### 3D Plane Illuminance Modal

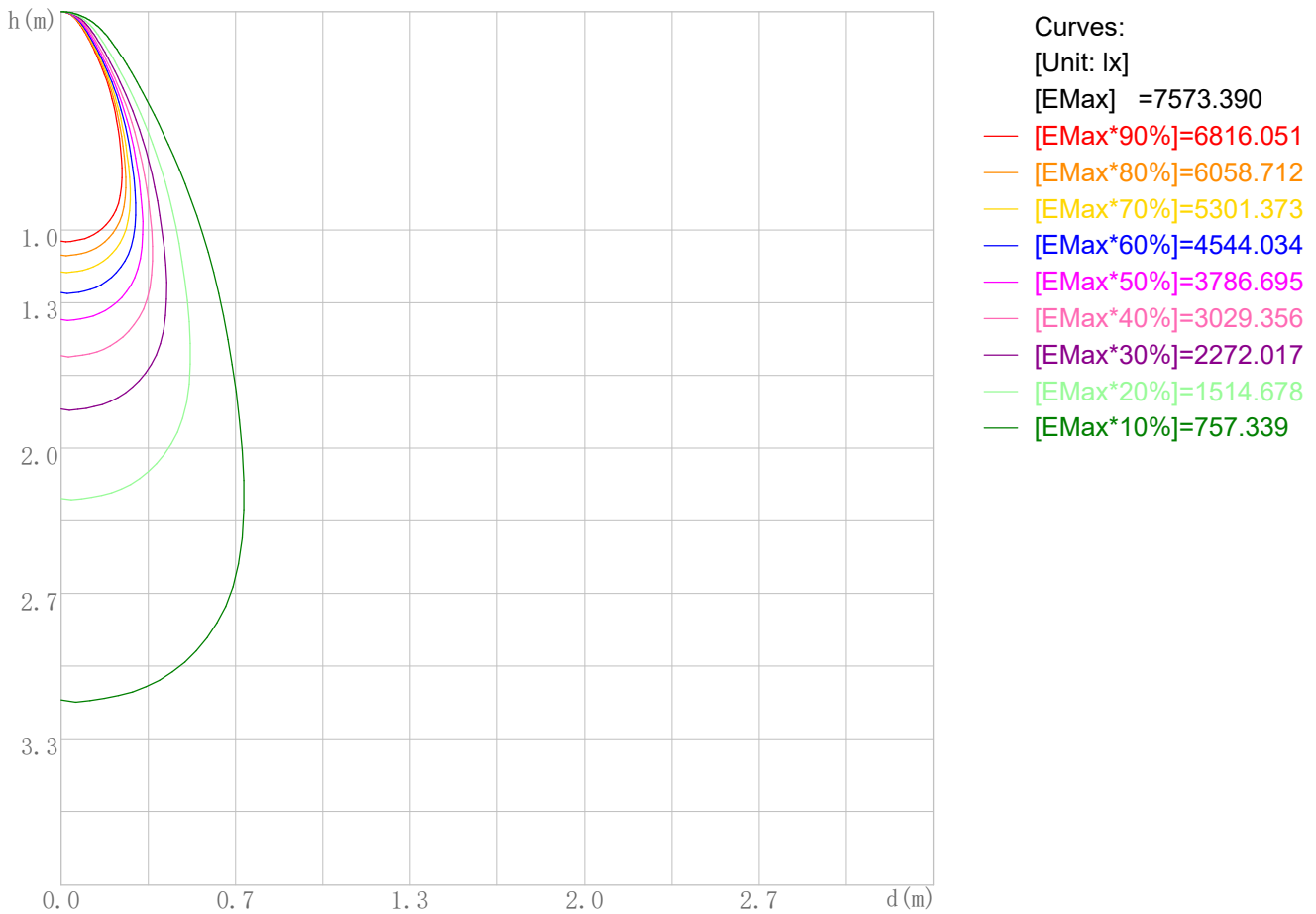


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —  
View Angles(deg): 0    Height(m): 3.0    Distance(m): 10.0

### Space ISO Illuminance Diagram

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

Space ISO Illuminance Curve

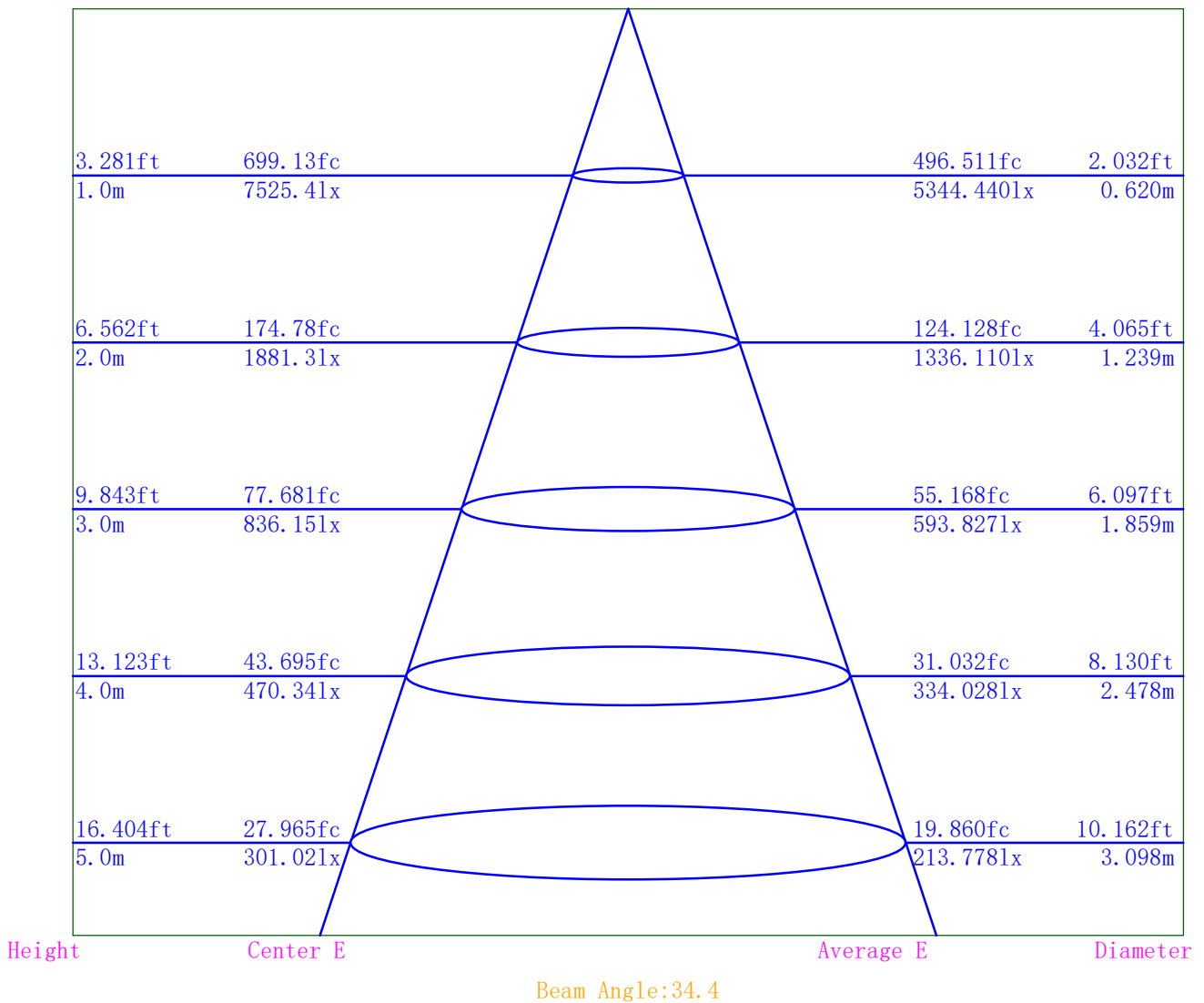


Space Plane Maximum Illuminance and @Angle:7573.39lx,1.0deg  
Plane Maximum Lighting Intensity and @Angle:7576.851cd,0deg

**Illuminance-Distance Diagram**

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

Illuminance-Distance Curve



### Indoor Luminance Limiting Curves

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine: GON-2000	Test Date: 2025/05/16

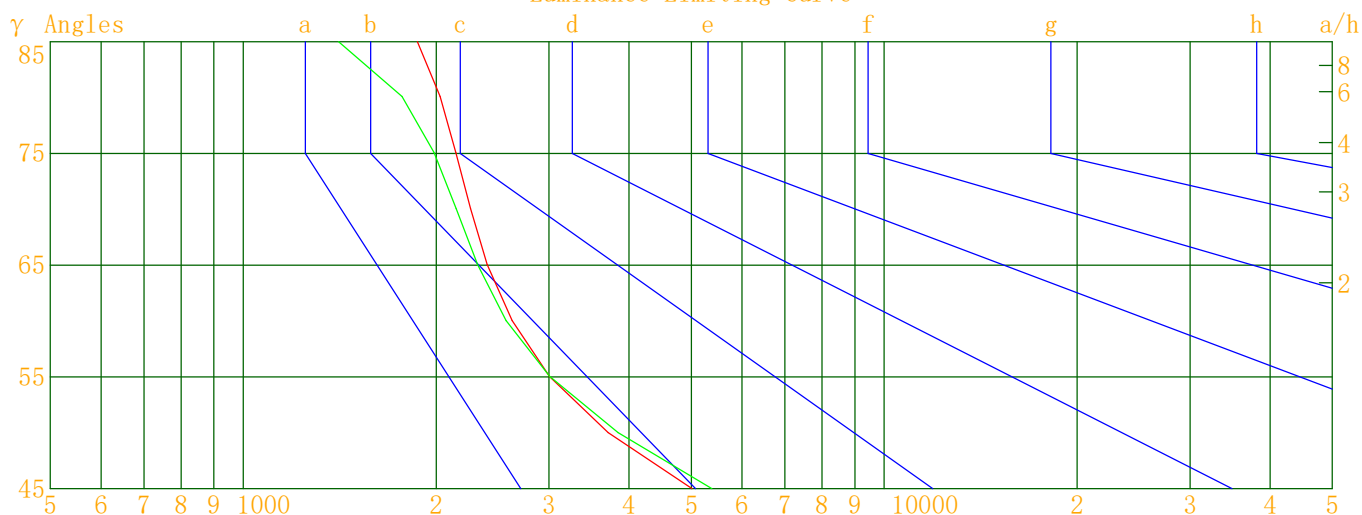
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
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	5012	3712	3006	2628	2402	2263	2147	2029	1869
C90	5387	3844	3009	2572	2321	2148	1985	1770	1409

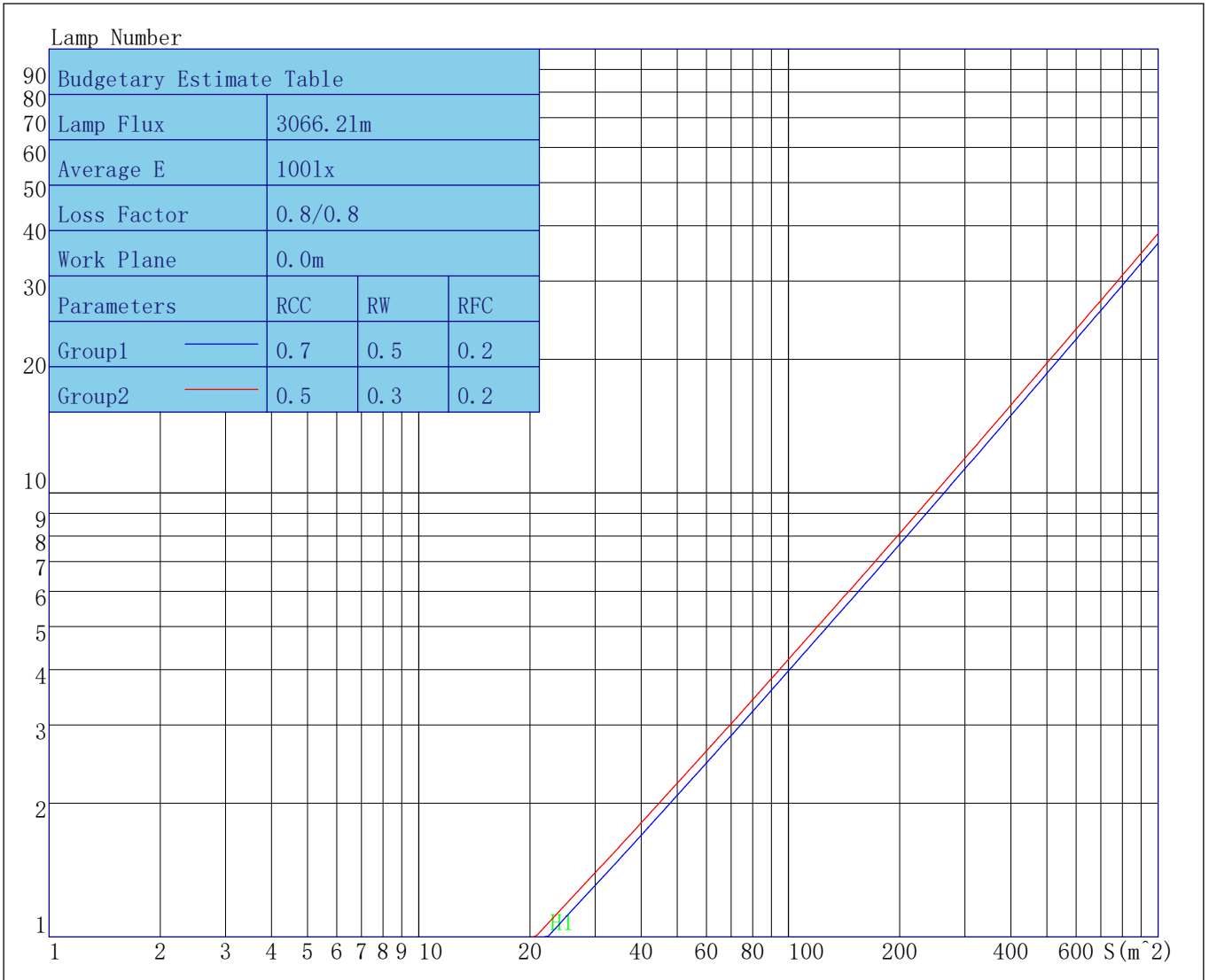
Luminance Limiting Curve



Luminous Size: Length(m)=0.187 Width(m)=0.187 Height(m)=0.030 Area(m<sup>2</sup>)=0.040579  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

**Indoor Budgetary Estimate Table**

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8  
Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8  
Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

**Indoor Coefficient of Utilization Table**

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

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	50	30	10	0
RCR	Coefficient of Utilization (%)																				
0	130	130	130	130	127	127	127	127	121	121	121	116	116	116	111	111	111	109			
1	125	122	119	117	122	120	117	115	115	113	112	111	110	108	107	106	105	103			
2	119	115	111	107	117	113	109	106	109	106	104	106	103	101	103	101	99	97			
3	114	108	103	99	112	107	102	99	104	100	97	101	98	95	99	96	94	92			
4	110	102	97	93	108	101	96	93	99	95	91	97	93	90	95	92	89	88			
5	105	97	92	88	104	96	91	87	95	90	87	93	89	86	91	88	85	84			
6	101	93	87	83	100	92	87	83	90	86	82	89	85	82	88	84	81	80			
7	97	89	83	79	96	88	83	79	87	82	79	85	81	78	84	81	78	76			
8	94	85	80	76	93	84	79	76	83	79	75	82	78	75	81	77	75	73			
9	91	82	76	72	90	81	76	72	80	75	72	79	75	72	78	74	72	70			
10	87	79	73	70	86	78	73	69	77	73	69	76	72	69	76	72	69	68			

**Unified Glare Rating Table**

Lum. Name: PAR30	Lum. Catalog:	Test ID: t001
Lamp Name: led	Lamp Catalog: led	Test Lab: volnic
Manufacture:	Test Machine:GON-2000	Test Date: 2025/05/16

**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	11.7	12.8	12.0	13.1	13.4	12.0	13.1	12.4	13.4	13.8
Y=3H	12.2	13.2	12.6	13.5	13.9	12.4	13.4	12.8	13.8	14.1
Y=4H	12.5	13.4	12.9	13.8	14.2	12.6	13.6	13.0	13.9	14.3
Y=6H	12.7	13.6	13.1	13.9	14.4	12.8	13.6	13.2	14.0	14.4
Y=8H	12.8	13.6	13.2	14.0	14.4	12.8	13.6	13.3	14.0	14.5
Y=12H	12.8	13.6	13.3	14.0	14.4	12.8	13.6	13.3	14.0	14.5
X=4H Y=2H	11.7	12.7	12.1	13.0	13.4	12.0	13.0	12.4	13.3	13.7
Y=3H	12.4	13.2	12.9	13.7	14.1	12.6	13.4	13.0	13.8	14.2
Y=4H	12.8	13.6	13.3	14.0	14.4	12.9	13.6	13.4	14.1	14.5
Y=6H	13.2	13.8	13.6	14.3	14.8	13.2	13.8	13.6	14.3	14.8
Y=8H	13.3	13.9	13.8	14.4	14.8	13.2	13.9	13.7	14.3	14.8
Y=12H	13.4	13.9	13.9	14.4	14.9	13.3	13.8	13.8	14.3	14.8
X=8H Y=4H	12.9	13.5	13.4	14.0	14.4	12.9	13.6	13.4	14.0	14.5
Y=6H	13.3	13.8	13.8	14.4	14.9	13.3	13.8	13.8	14.3	14.9
Y=8H	13.5	14.0	14.0	14.5	15.0	13.4	13.9	13.9	14.4	14.9
Y=12H	13.6	14.1	14.2	14.6	15.2	13.5	13.9	14.0	14.4	15.0
X=12H Y=4H	12.8	13.4	13.3	13.9	14.4	12.9	13.5	13.4	14.0	14.4
Y=6H	13.3	13.8	13.8	14.3	14.8	13.3	13.8	13.8	14.2	14.8
Y=8H	13.5	14.0	14.0	14.5	15.1	13.4	13.9	13.9	14.4	14.9
Variations with the objerver position at spacings										
S=1.0H	0.4/-0.4					0.5/-0.6				
S=1.5H	0.8/-0.9					0.9/-1.0				
S=2.0H	1.0/-1.1					1.1/-1.3				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	1.6					1.4				

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

# IES Indoor Report

## Photometric Filename:PAR30 30W-1.IES

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### Candela Tabulation

V/H	C0.0	C90.0	C180.0	C270.0
$\gamma$ 0.0	7525.39	7525.39	7525.39	7525.39
$\gamma$ 1.0	7576.85	7442.61	7575.72	7340.21
$\gamma$ 2.0	7553.02	7466.84	7539.73	7256.33
$\gamma$ 3.0	7524.80	7472.29	7473.63	7146.89
$\gamma$ 4.0	7487.23	7457.30	7374.00	7011.07
$\gamma$ 5.0	7435.98	7417.88	7249.29	6850.95
$\gamma$ 6.0	7361.88	7351.32	7098.02	6664.71
$\gamma$ 7.0	7261.54	7258.44	6918.47	6451.72
$\gamma$ 8.0	7131.60	7140.48	6710.07	6212.00
$\gamma$ 9.0	6975.15	7000.19	6466.17	5942.04
$\gamma$ 10.0	6792.42	6833.82	6178.37	5637.09
$\gamma$ 11.0	6584.01	6636.80	5840.43	5290.41
$\gamma$ 12.0	6344.53	6408.19	5452.50	4903.15
$\gamma$ 13.0	6071.21	6138.38	5026.95	4489.55
$\gamma$ 14.0	5750.20	5813.42	4583.24	4061.96
$\gamma$ 15.0	5374.96	5433.44	4139.37	3644.02
$\gamma$ 16.0	4954.11	5007.94	3705.47	3243.17
$\gamma$ 17.0	4505.78	4557.06	3301.77	2871.59
$\gamma$ 18.0	4059.77	4105.10	2936.01	2534.97
$\gamma$ 19.0	3616.55	3667.23	2607.96	2231.34
$\gamma$ 20.0	3196.07	3258.78	2311.97	1960.84
$\gamma$ 21.0	2818.77	2887.22	2046.74	1718.04
$\gamma$ 22.0	2483.83	2558.49	1807.36	1512.27
$\gamma$ 23.0	2186.99	2268.62	1591.80	1324.56
$\gamma$ 24.0	1925.56	2013.76	1397.89	1157.34
$\gamma$ 25.0	1694.22	1784.07	1223.86	1007.73
$\gamma$ 26.0	1485.47	1578.04	1067.48	873.94
$\gamma$ 27.0	1300.14	1391.69	926.76	757.40
$\gamma$ 28.0	1135.18	1222.04	804.64	656.18
$\gamma$ 29.0	988.24	1068.71	699.29	568.35
$\gamma$ 30.0	859.02	932.89	609.29	493.07
$\gamma$ 31.0	746.17	813.09	530.93	428.89
$\gamma$ 32.0	647.61	708.21	463.39	374.52
$\gamma$ 33.0	561.89	616.94	406.06	328.92
$\gamma$ 34.0	490.14	538.45	357.09	290.39
$\gamma$ 35.0	428.67	470.90	315.94	257.83
$\gamma$ 36.0	376.40	413.69	281.27	230.51
$\gamma$ 37.0	331.79	364.94	250.89	207.07
$\gamma$ 38.0	293.86	323.06	224.65	186.84
$\gamma$ 39.0	261.37	287.36	201.88	169.52
$\gamma$ 40.0	233.76	256.69	182.11	154.48
$\gamma$ 41.0	210.18	230.14	165.01	141.16
$\gamma$ 42.0	190.05	207.21	150.19	129.71
$\gamma$ 43.0	172.52	187.23	137.04	119.58
$\gamma$ 44.0	157.29	169.86	125.48	110.50
$\gamma$ 45.0	143.82	154.59	115.07	102.58
$\gamma$ 46.0	132.00	141.14	106.08	95.54

# IES Indoor Report

## Photometric Filename:PAR30 30W-1.IES

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### Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 47.0	121.69	129.23	98.08	89.14
γ 48.0	112.62	118.40	90.99	83.36
γ 49.0	104.25	108.84	84.64	78.23
γ 50.0	96.82	100.27	78.99	73.53
γ 51.0	90.08	92.74	73.78	69.25
γ 52.0	84.11	86.01	69.17	65.39
γ 53.0	78.84	80.07	65.07	61.85
γ 54.0	74.22	74.80	61.26	58.56
γ 55.0	69.97	70.04	57.79	55.58
γ 56.0	66.06	65.77	54.58	52.78
γ 57.0	62.51	61.93	51.55	50.10
γ 58.0	59.21	58.42	48.74	47.61
γ 59.0	56.10	55.16	46.15	45.29
γ 60.0	53.31	52.18	43.72	43.04
γ 61.0	50.70	49.43	41.32	40.93
γ 62.0	48.17	46.86	39.12	38.91
γ 63.0	45.77	44.31	36.91	36.91
γ 64.0	43.47	42.06	34.83	35.01
γ 65.0	41.20	39.81	32.91	33.20
γ 66.0	39.14	37.67	30.97	31.37
γ 67.0	37.14	35.66	29.00	29.60
γ 68.0	35.18	33.65	27.16	27.85
γ 69.0	33.26	31.70	25.35	26.14
γ 70.0	31.41	29.81	23.54	24.42
γ 71.0	29.58	27.97	21.82	22.77
γ 72.0	27.72	26.12	20.13	21.17
γ 73.0	25.98	24.30	18.40	19.47
γ 74.0	24.28	22.57	16.69	17.87
γ 75.0	22.55	20.85	15.06	16.31
γ 76.0	20.85	19.13	13.40	14.74
γ 77.0	19.18	17.41	11.87	13.19
γ 78.0	17.48	15.79	10.39	11.74
γ 79.0	15.88	14.11	8.88	10.26
γ 80.0	14.30	12.47	7.34	8.76
γ 81.0	12.67	10.94	5.93	7.36
γ 82.0	11.15	9.39	4.47	6.00
γ 83.0	9.61	7.88	3.18	4.63
γ 84.0	8.15	6.45	1.86	3.30
γ 85.0	6.61	4.98	0.20	1.67
γ 86.0	5.29	3.58	0.00	0.63
γ 87.0	3.91	2.18	0.00	0.00
γ 88.0	2.41	0.73	0.00	0.00
γ 89.0	0.90	0.00	0.00	0.00
γ 90.0	0.09	0.00	0.00	0.00
γ 91.0	0.00	0.00	0.00	0.00
γ 92.0	0.00	0.00	0.00	0.00
γ 93.0	0.00	0.00	0.00	0.00

**IES Indoor Report**  
**Photometric Filename:PAR30 30W-1.IES**

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**Candela Tabulation - (Cont.)**

V/H	C0.0	C90.0	C180.0	C270.0
γ 94.0	0.00	0.00	0.00	0.00
γ 95.0	0.00	0.00	0.00	0.00
γ 96.0	0.00	0.00	0.00	0.00
γ 97.0	0.00	0.00	0.00	0.00
γ 98.0	0.00	0.00	0.00	0.00
γ 99.0	0.00	0.00	0.00	0.00
γ 100.0	0.00	0.00	0.00	0.00
γ 101.0	0.00	0.00	0.00	0.00
γ 102.0	0.00	0.00	0.00	0.00
γ 103.0	0.00	0.00	0.00	0.00
γ 104.0	0.00	0.00	0.00	0.00
γ 105.0	0.00	0.00	0.00	0.00
γ 106.0	0.00	0.00	0.00	0.00
γ 107.0	0.00	0.00	0.00	0.00
γ 108.0	0.00	0.00	0.00	0.00
γ 109.0	0.00	0.00	0.00	0.00
γ 110.0	0.00	0.00	0.00	0.00
γ 111.0	0.00	0.00	0.00	0.00
γ 112.0	0.00	0.00	0.00	0.00
γ 113.0	0.00	0.00	0.00	0.00
γ 114.0	0.00	0.00	0.00	0.00
γ 115.0	0.00	0.00	0.00	0.00
γ 116.0	0.00	0.00	0.00	0.00
γ 117.0	0.00	0.00	0.00	0.00
γ 118.0	0.00	0.00	0.00	0.00
γ 119.0	0.00	0.00	0.00	0.00
γ 120.0	0.00	0.00	0.00	0.00
γ 121.0	0.00	0.00	0.00	0.00
γ 122.0	0.00	0.00	0.00	0.00
γ 123.0	0.00	0.00	0.00	0.00
γ 124.0	0.00	0.00	0.00	0.00
γ 125.0	0.00	0.00	0.00	0.00
γ 126.0	0.00	0.00	0.00	0.09
γ 127.0	0.00	0.00	0.00	0.24
γ 128.0	0.00	0.00	0.00	0.49
γ 129.0	0.00	0.00	0.13	0.65
γ 130.0	0.02	0.00	0.35	0.88
γ 131.0	0.17	0.00	0.58	1.14
γ 132.0	0.38	0.00	0.91	1.43
γ 133.0	0.60	0.06	1.20	1.72
γ 134.0	0.82	0.29	1.54	2.07
γ 135.0	1.02	0.53	1.92	2.42
γ 136.0	1.32	0.80	2.26	2.81
γ 137.0	1.59	1.15	2.65	3.15
γ 138.0	1.93	1.44	3.08	3.62
γ 139.0	2.25	1.77	3.51	4.05
γ 140.0	2.60	2.17	3.93	4.44

# IES Indoor Report

## Photometric Filename:PAR30 30W-1.IES

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### Candela Tabulation - (Cont.)

V/H	C0.0	C90.0	C180.0	C270.0
γ 141.0	2.98	2.54	4.41	4.89
γ 142.0	3.35	2.94	4.89	5.41
γ 143.0	3.83	3.39	5.30	5.87
γ 144.0	4.24	3.85	5.84	6.32
γ 145.0	4.64	4.25	6.33	6.82
γ 146.0	5.15	4.71	6.82	7.33
γ 147.0	5.61	5.19	7.34	7.76
γ 148.0	6.02	5.66	7.83	8.24
γ 149.0	6.54	6.14	8.32	8.77
γ 150.0	7.04	6.68	8.81	9.24
γ 151.0	7.48	7.16	9.35	9.68
γ 152.0	7.99	7.62	9.80	10.13
γ 153.0	8.49	8.13	10.28	10.60
γ 154.0	8.94	8.65	10.75	10.98
γ 155.0	9.46	9.10	11.14	11.38
γ 156.0	9.90	9.64	11.53	11.77
γ 157.0	10.31	10.05	12.00	12.07
γ 158.0	10.80	10.47	12.32	12.39
γ 159.0	11.21	10.93	12.66	12.69
γ 160.0	11.57	11.34	12.94	12.94
γ 161.0	11.95	11.69	13.17	13.16
γ 162.0	12.30	12.06	13.41	13.32
γ 163.0	12.61	12.41	13.63	13.50
γ 164.0	12.88	12.66	13.82	13.61
γ 165.0	13.15	12.89	13.90	13.68
γ 166.0	13.33	13.11	14.05	13.76
γ 167.0	13.51	13.27	14.11	13.88
γ 168.0	13.69	13.41	14.15	13.86
γ 169.0	13.81	13.56	14.23	13.88
γ 170.0	13.87	13.67	14.31	13.98
γ 171.0	13.95	13.74	14.29	13.94
γ 172.0	14.05	13.83	14.39	14.01
γ 173.0	14.10	13.91	14.47	14.06
γ 174.0	14.21	13.96	14.47	14.10
γ 175.0	14.28	14.03	14.52	14.14
γ 176.0	14.32	14.14	14.59	14.16
γ 177.0	14.37	14.20	14.58	14.25
γ 178.0	14.44	14.23	14.60	14.29
γ 179.0	14.52	14.33	14.65	14.33
γ 180.0	14.52	14.52	14.52	14.52