

# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

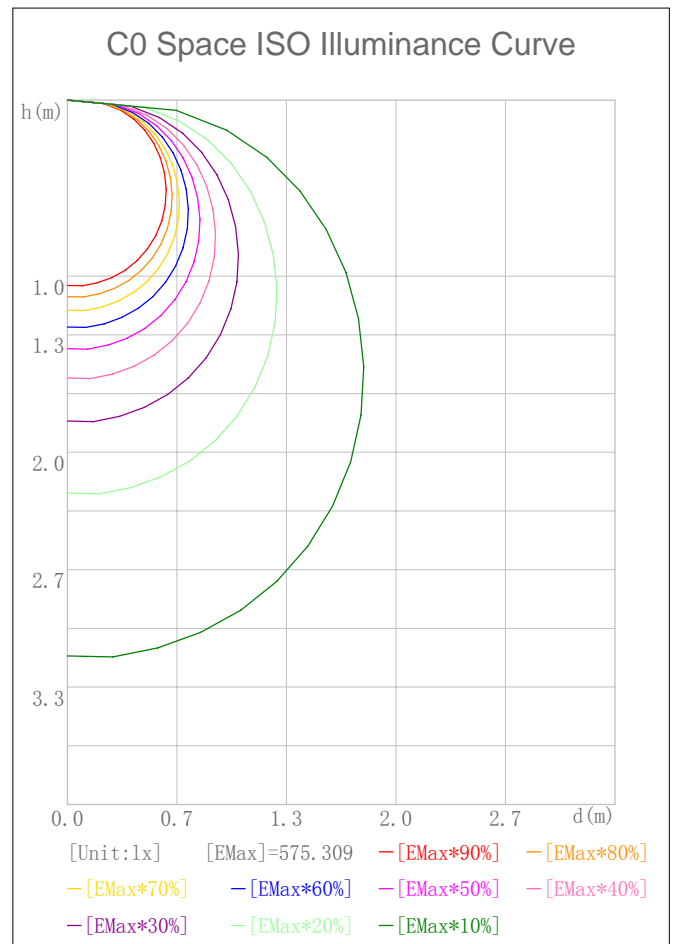
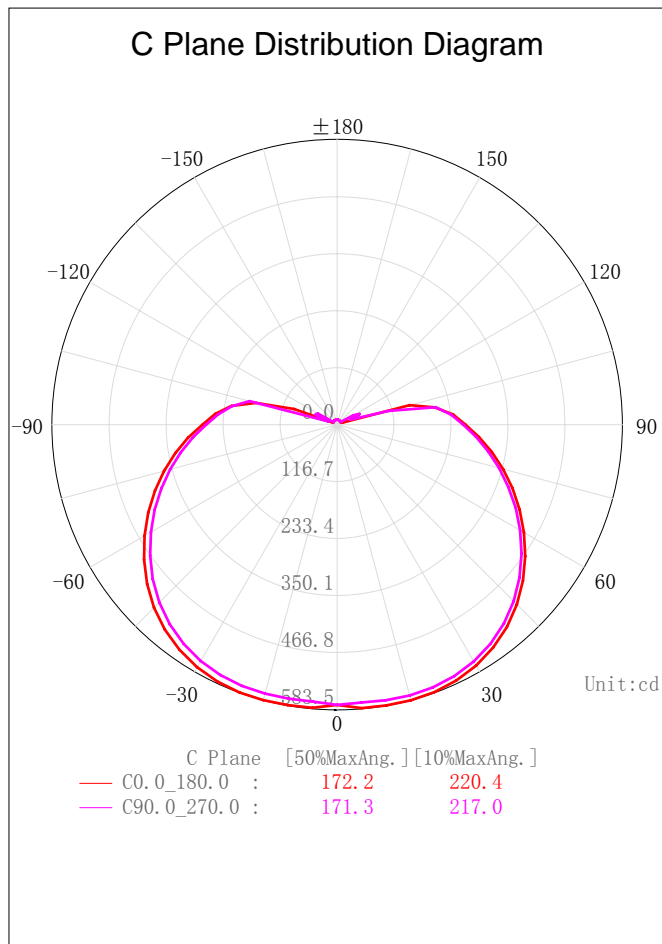
## Indoor Luminaire Photometric Data

### Description Information

Luminary Name:Globe 30W	Lum. Catalog:Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Date: 2018/03/24
Manufacture: DC-L APS	Shld. Ang(°):	Test Machine:GON-2000
Test Lab:	Frequency (Hz):50	Lamp CCT(K): 3000 Ra: 80
Lum. Size (W*L*H):0.060m*0.000m*0.060m	Lum. Area (m2):0.023	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ=5.0	Temp. (°C): 25
		Humidity(%): 50.0

### Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 3284.280	Luminary Flux(lm): 3284.280	Field Angle(10%Imax): 220.4(°)	
Rated Power(W): 30	Luminary Efficiency: 100.00%	Down Lumens&Percent: 2740.357lm 83.44%	
Rated Voltage(V): 230	Luminary EER(lm/W): 105.842	Up Lumens&Percent: 543.923lm 16.56%	
Tested Power(W): 31.030	Max. Candela(cd): 583.484	S/MH: C0_a180=1.488 C90_270=1.461	
Lamps' Inside: 1	Max Cand@Ang. (°): C=0.0 γ=15.0	CIE Type: General Diffuse	
Tested Electrics (V, A, pf):230.7, 0.150, 0.892	Beam Angle(50%Imax): 172.2(°)	ErP φ use(120°): 1641.017lm	
Lamp Size (W*L*H):0.060m*0.000m*0.060m	Left=-87.3°, Right=84.9°	IRF(%): 86.389	



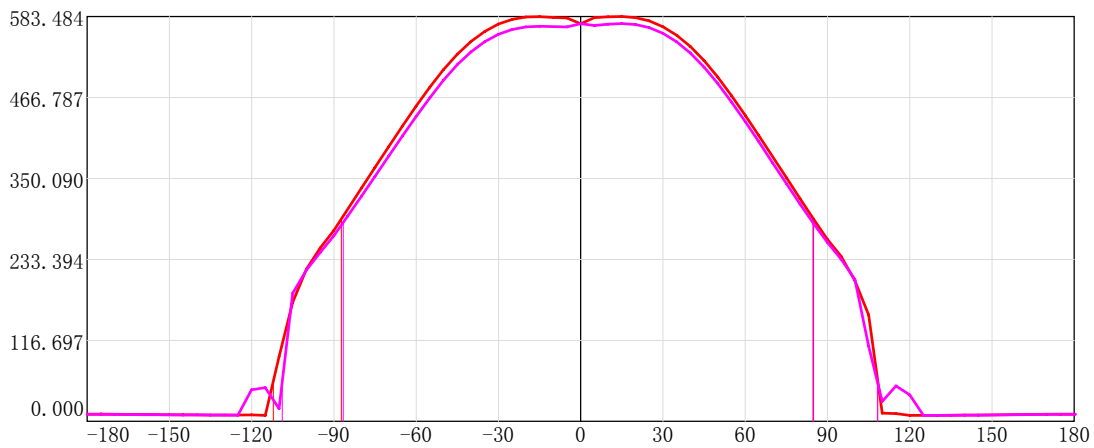
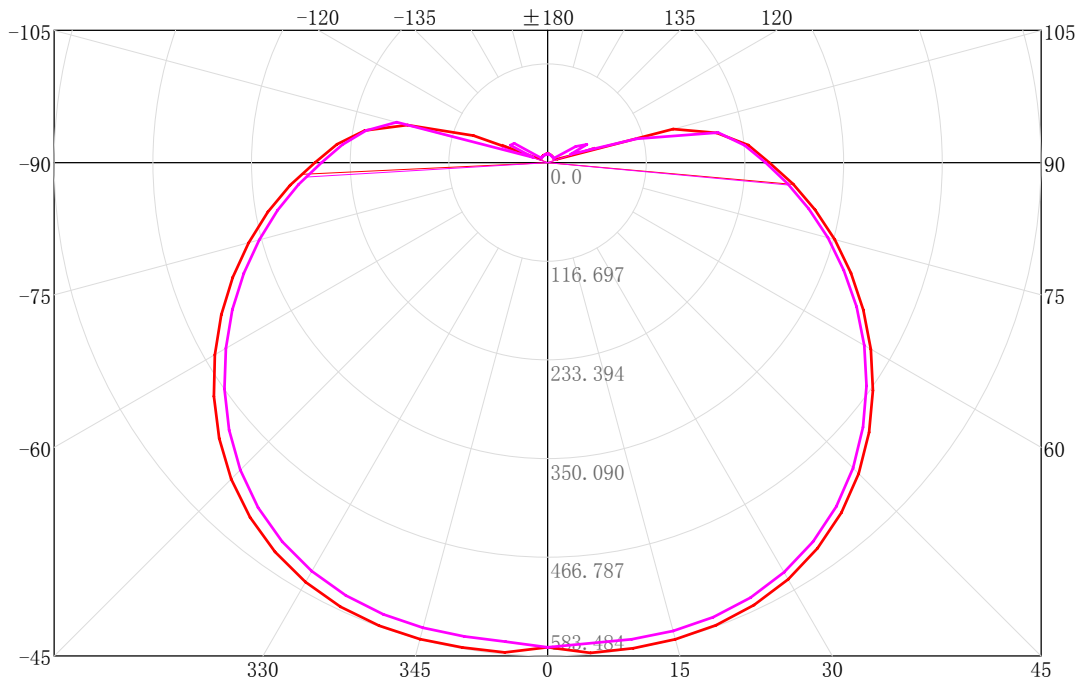
# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## 2D Plane Light Intensity Distribution Curve

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

C Plane Distribution Diagram



C Plane [50%MaxAng.] [10%MaxAng.]  
 — C0.0\_180.0 : 172.2 220.4  
 — C90.0\_270.0 : 171.3 217.0

Unit:cd

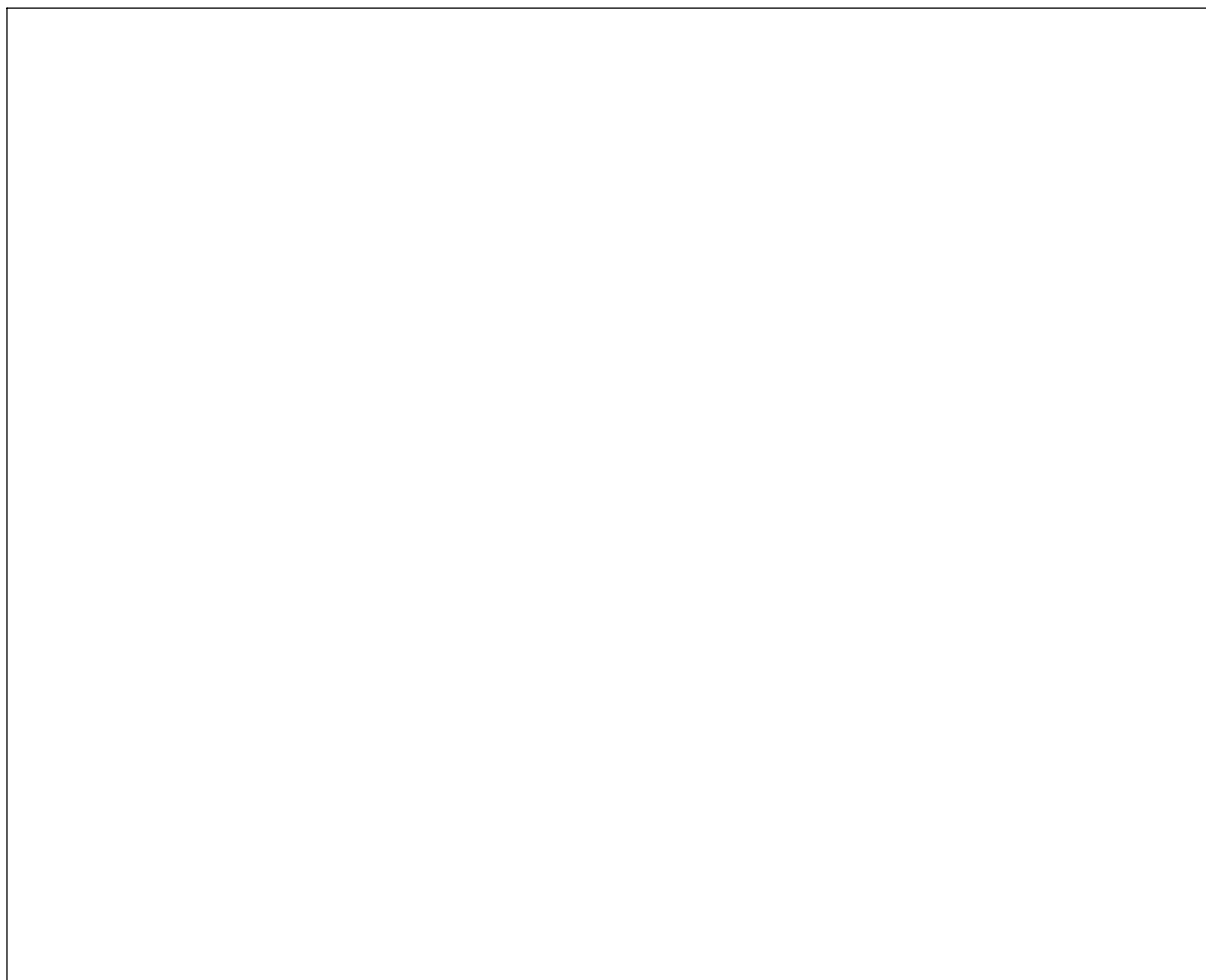
# IES Indoor Report

**Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES**

## 3D Light Intensity Distribution Modal

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

## 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:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Zonal Flux Tabulation

Zone( $\gamma$ )	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-5.0	13.69	13.69	0.42	0.42
5.0-10.0	40.98	54.67	1.25	1.66
10.0-15.0	68.06	122.73	2.07	3.74
15.0-20.0	94.53	217.27	2.88	6.62
20.0-25.0	119.77	337.04	3.65	10.26
25.0-30.0	143.04	480.08	4.36	14.62
30.0-35.0	163.66	643.74	4.98	19.60
35.0-40.0	181.01	824.75	5.51	25.11
40.0-45.0	194.50	1019.25	5.92	31.03
45.0-50.0	203.75	1223.00	6.20	37.24
50.0-55.0	208.69	1431.68	6.35	43.59
55.0-60.0	209.54	1641.22	6.38	49.97
60.0-65.0	206.73	1847.95	6.29	56.27
65.0-70.0	200.61	2048.57	6.11	62.37
70.0-75.0	191.65	2240.22	5.84	68.21
75.0-80.0	180.38	2420.60	5.49	73.70
80.0-85.0	167.17	2587.77	5.09	78.79
85.0-90.0	152.59	2740.36	4.65	83.44
90.0-95.0	138.02	2878.37	4.20	87.64
95.0-100.0	121.57	2999.94	3.70	91.34
100.0-105.0	98.49	3098.43	3.00	94.34
105.0-110.0	66.51	3164.94	2.02	96.37
110.0-115.0	40.72	3205.65	1.24	97.61
115.0-120.0	27.24	3232.89	0.83	98.44
120.0-125.0	16.75	3249.64	0.51	98.95
125.0-130.0	10.02	3259.66	0.31	99.25
130.0-135.0	6.39	3266.05	0.19	99.44
135.0-140.0	4.09	3270.14	0.12	99.57
140.0-145.0	3.12	3273.26	0.09	99.66
145.0-150.0	2.75	3276.02	0.08	99.75
150.0-155.0	2.41	3278.43	0.07	99.82
155.0-160.0	2.04	3280.47	0.06	99.88
160.0-165.0	1.63	3282.10	0.05	99.93
165.0-170.0	1.20	3283.30	0.04	99.97
170.0-175.0	0.73	3284.03	0.02	99.99
175.0-180.0	0.25	3284.28	0.01	100.00

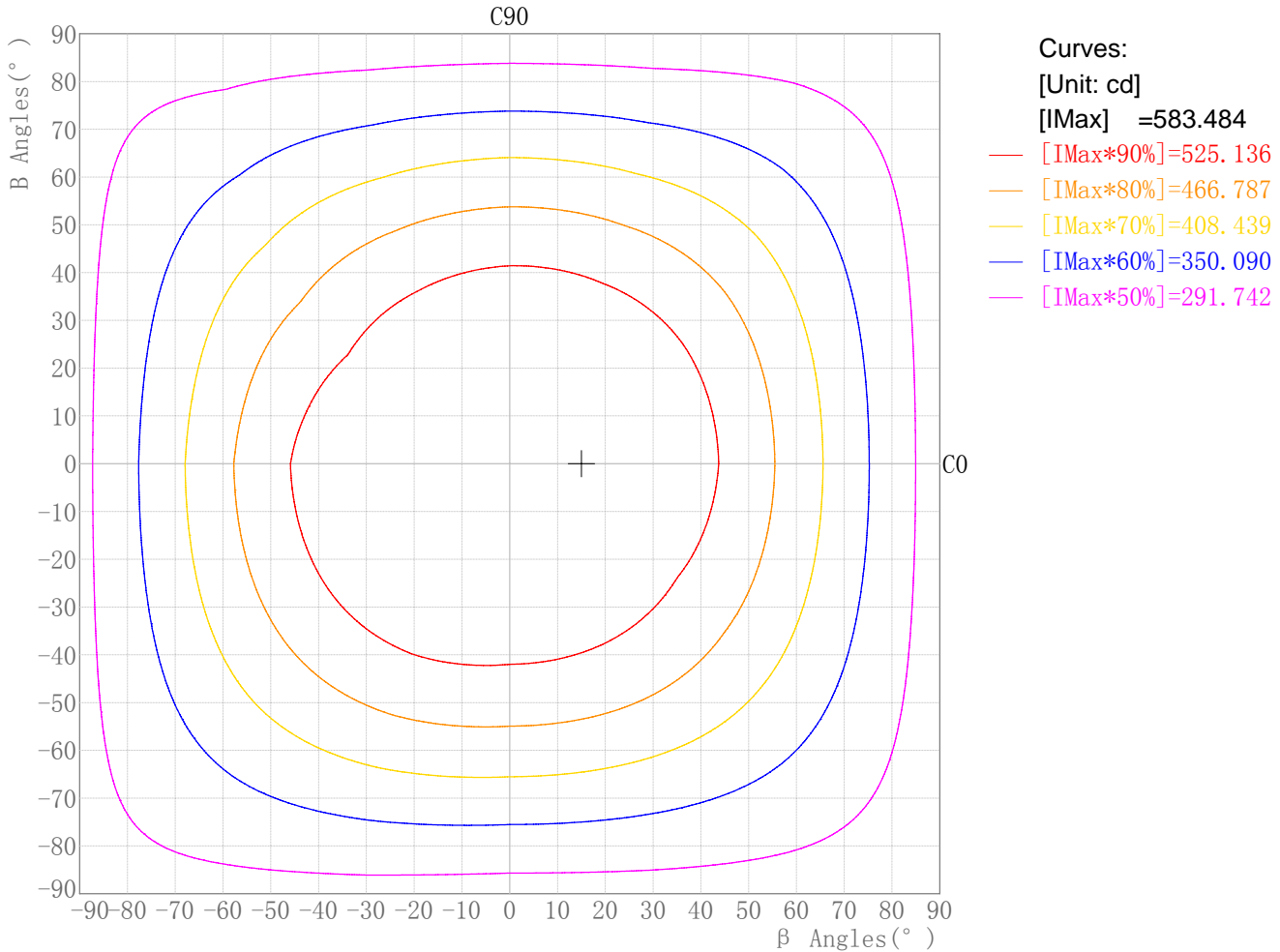
# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Rectangle ISO Lighting Intensity Diagram

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog: COB	Test Lab:
Manufacture: DC-L APS	Test Machine: GON-2000	Test Date: 2018/03/24

### ISO Lighting Intensity Curve



Maximum Light Intensity(cd): 583.48

Maximum Cand.@Angle: H=15.0°,V=0.0°

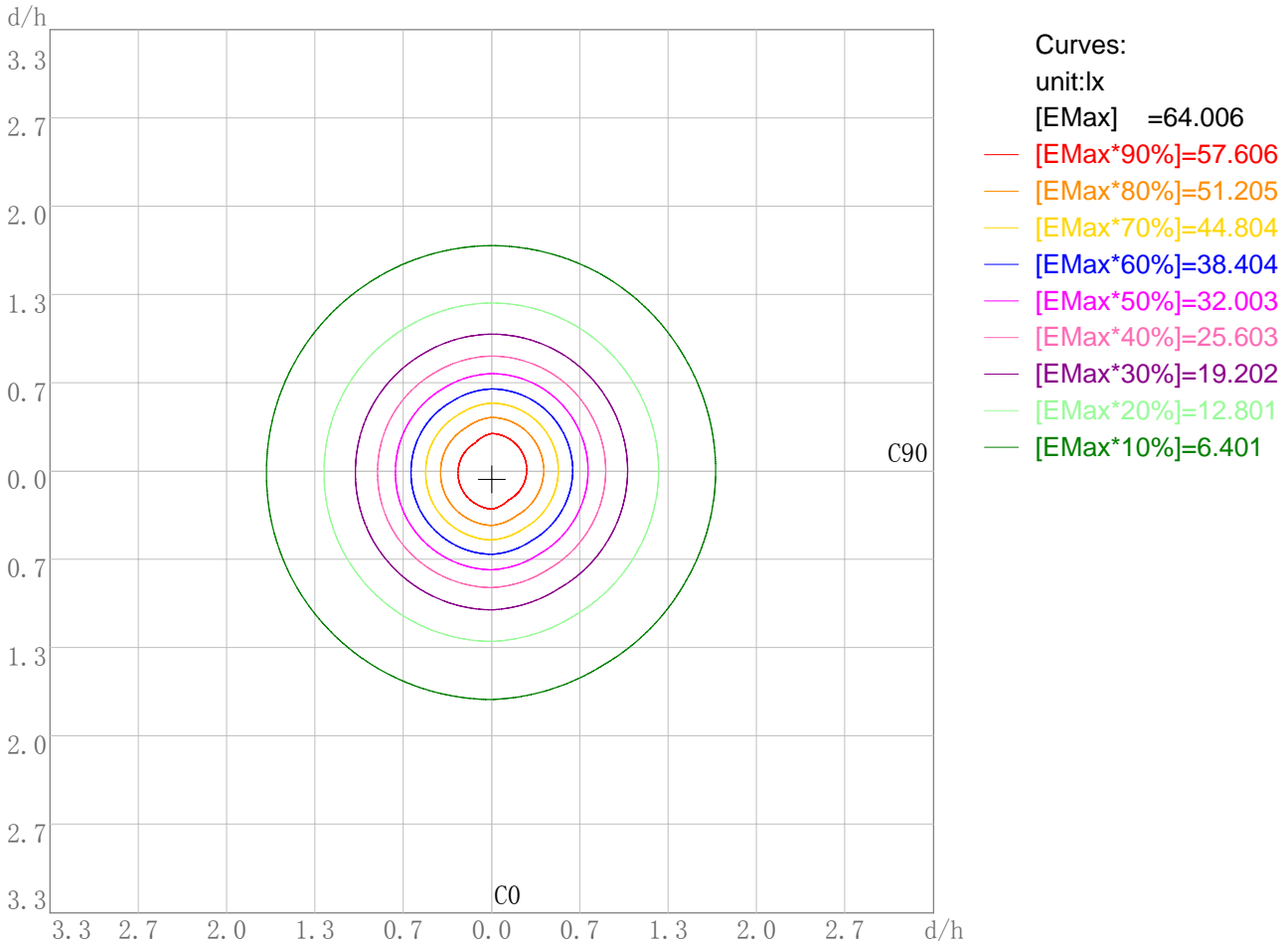
# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Plane ISO-Illuminance Diagram

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

### Plane ISO-Illuminance Curve



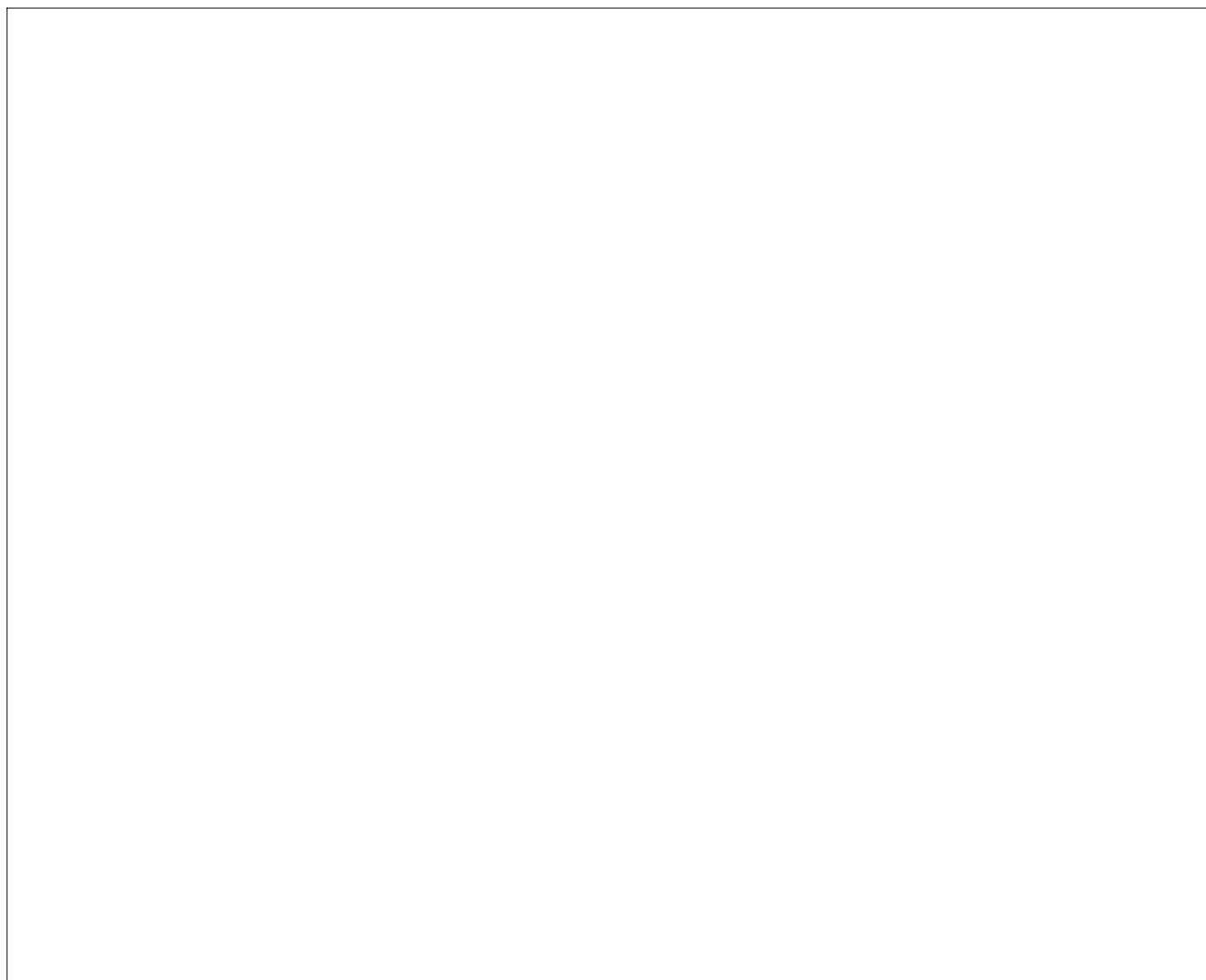
# IES Indoor Report

**Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES**

## 3D Plane ISO Illuminance Diagram

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

## 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

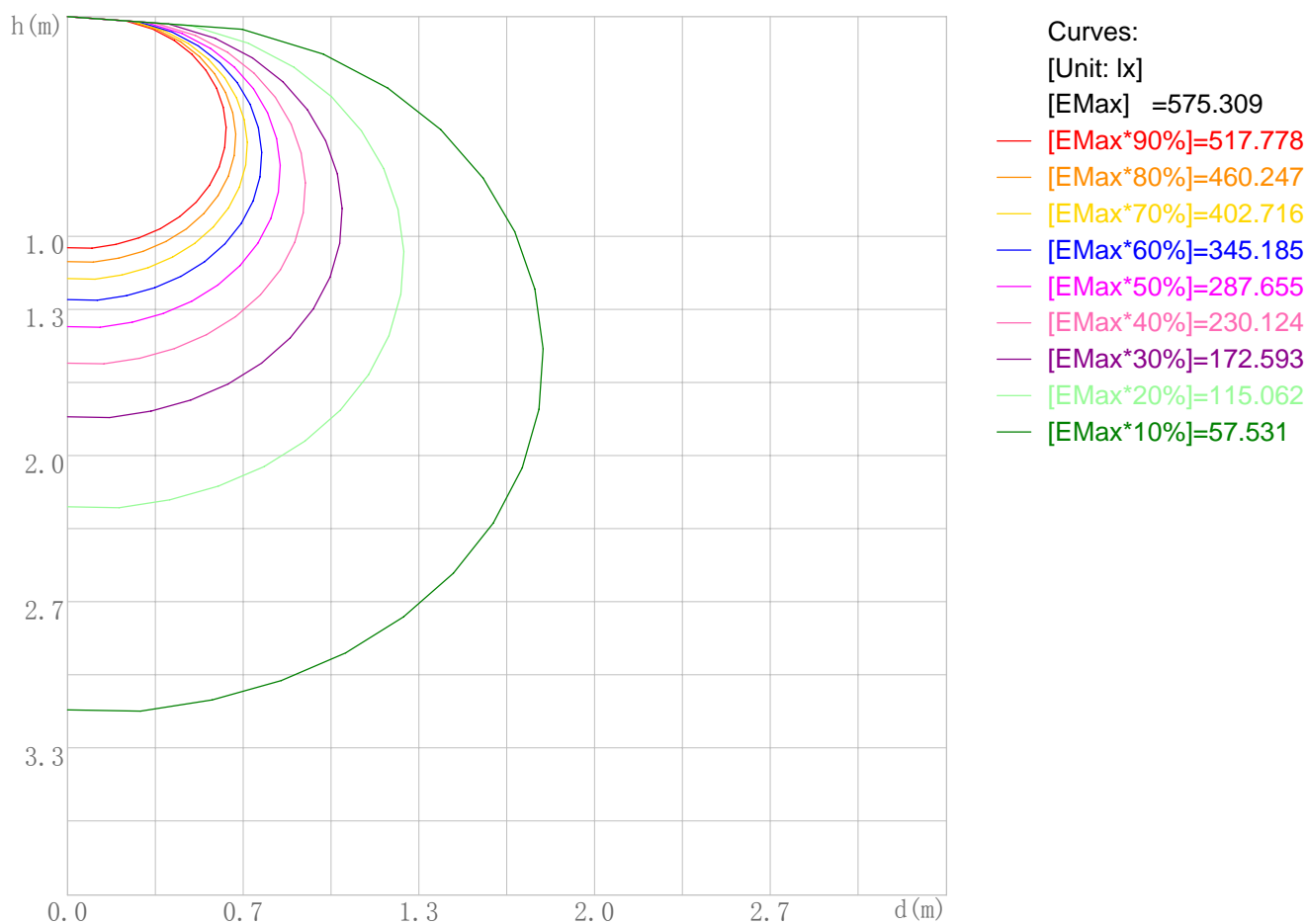
# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Space ISO Illuminance Diagram

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog: COB	Test Lab:
Manufacture: DC-L APS	Test Machine: GON-2000	Test Date: 2018/03/24

### Space ISO Illuminance Curve



Space Plane Maximum Illuminance and @Angle:575.31lx,5.0deg  
Plane Maximum Lighting Intensity and @Angle:583.484cd,0deg



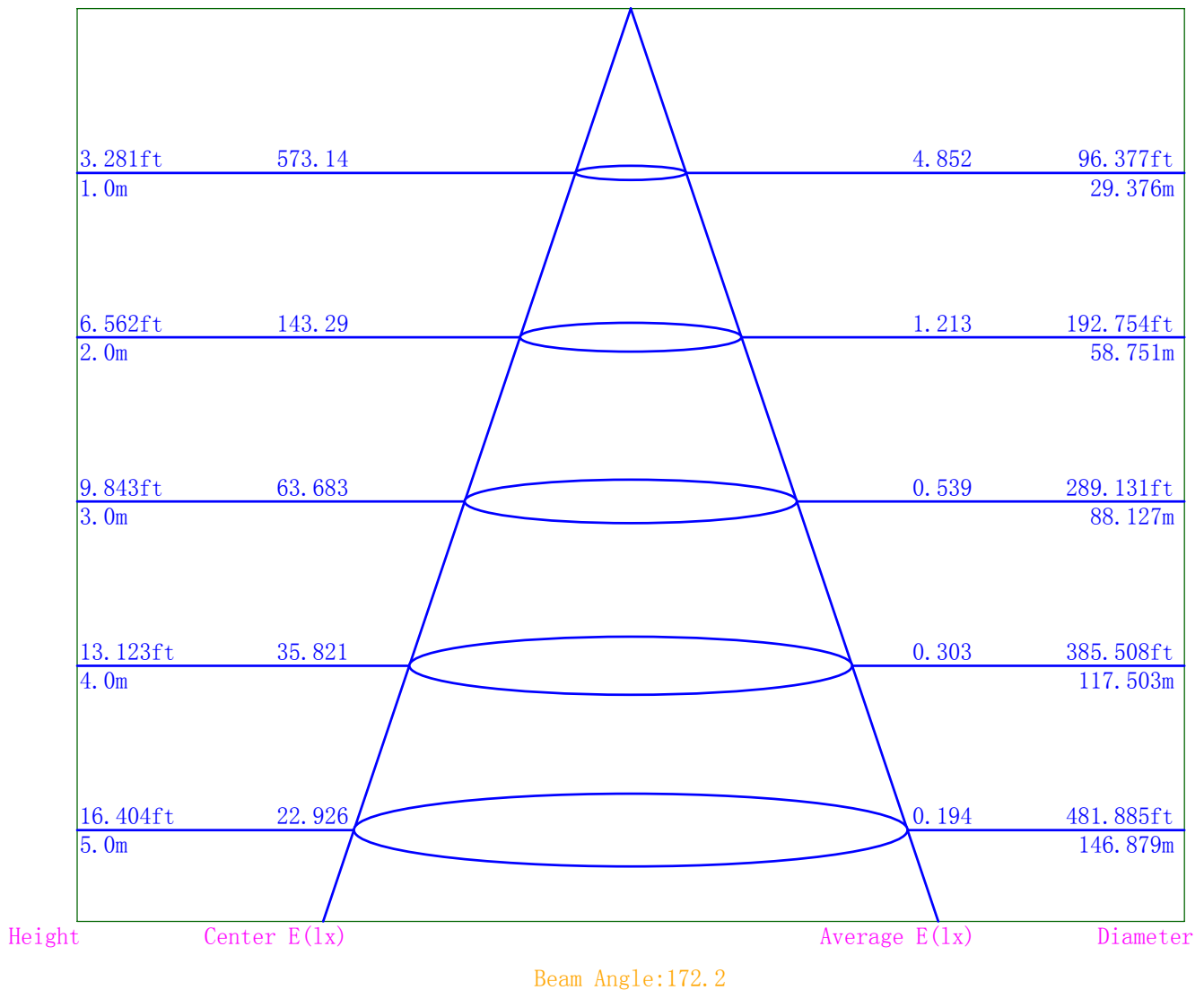
# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Illuminance-Distance Diagram

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog: COB	Test Lab:
Manufacture: DC-L APS	Test Machine: GON-2000	Test Date: 2018/03/24

Illuminance-Distance Curve



# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Indoor Luminance Limiting Curves

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

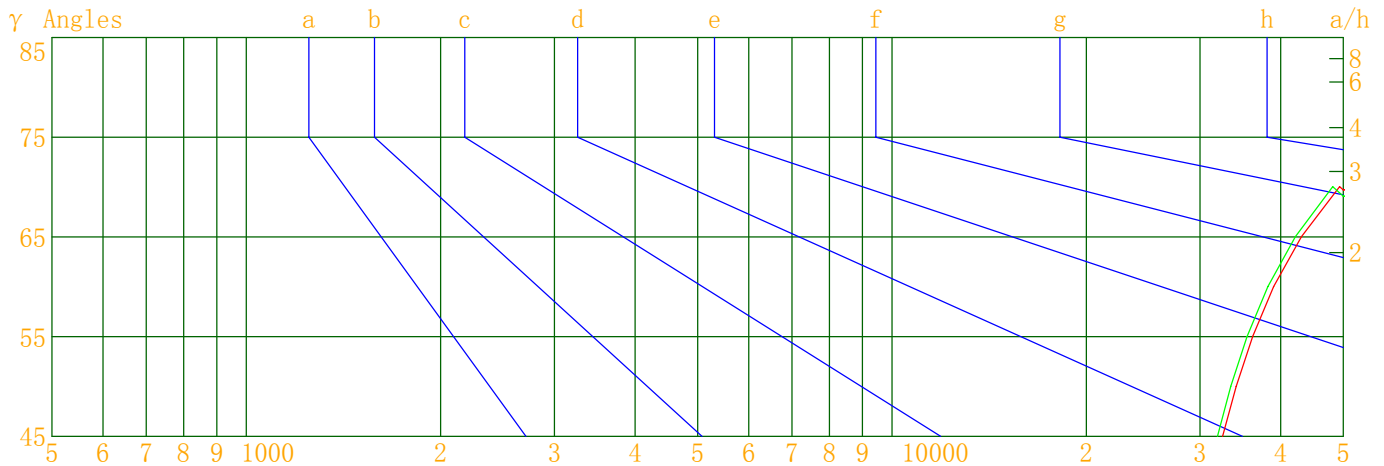
Glare Grade Table

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	32512	34125	36187	39016	43078	49339	60048	81769	147782
C90	31924	33478	35475	38212	42163	48164	58590	79809	144501

Luminance Limiting Curve



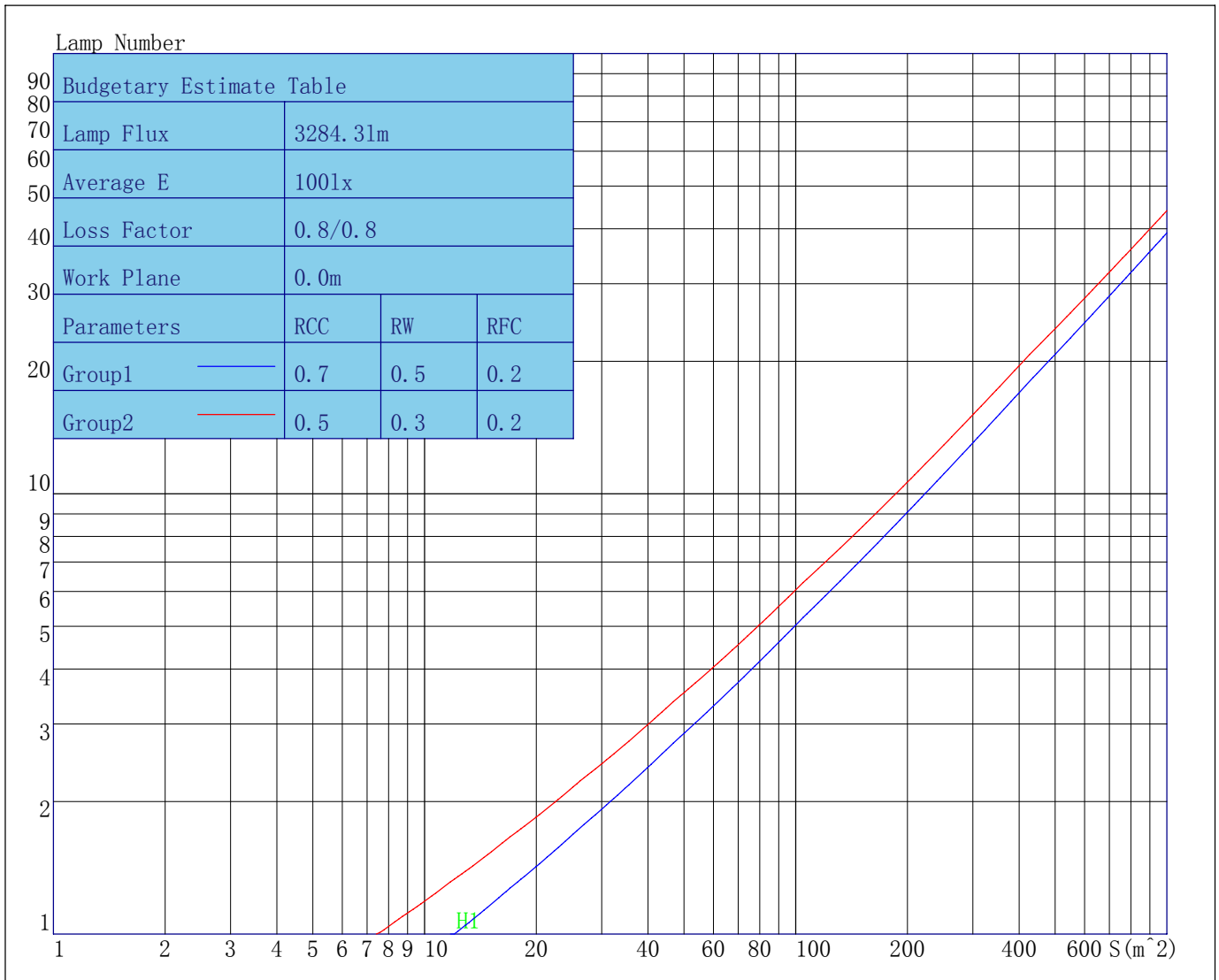
Luminous Size: Length(m)=0.000 Width(m)=-0.060 Height(m)=0.060 Area(m<sup>2</sup>)=0.022619  
 Luminous Type: Without Luminous Side  
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Indoor Budgetary Estimate Table

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24



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

# IES Indoor Report

**Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES**

## Indoor Coefficient of Utilization Table

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	101	94	88	83	96	90	85	80	83	78	74	76	72	69	69	67	64	61
2	90	80	71	64	85	76	69	62	70	64	58	64	59	54	58	54	51	47
3	81	69	59	51	77	66	57	50	60	53	47	55	49	44	50	45	41	38
4	73	60	50	42	70	57	48	41	53	45	39	48	42	36	44	39	34	31
5	67	53	43	36	64	51	42	35	47	39	33	43	36	31	39	34	29	26
6	62	47	38	31	59	45	36	30	42	34	28	39	32	27	35	30	25	23
7	57	43	33	27	54	41	32	26	38	30	25	35	28	23	32	26	22	20
8	53	39	30	23	50	37	29	23	34	27	22	32	25	20	29	24	19	17
9	49	35	27	21	47	34	26	20	31	24	19	29	23	18	27	21	17	15
10	46	32	24	19	44	31	23	18	29	22	17	27	21	16	25	20	16	14

# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Unified Glare Rating Table

Lum. Name: Globe 30W	Lum. Catalog: Pendent Lamp	Test ID:
Lamp Name: PLD COB 30W 3000K	Lamp Catalog:COB	Test Lab:
Manufacture:DC-L APS	Test Machine:GON-2000	Test Date:2018/03/24

## 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	Viewed crosswise					Viewed endwise				
X=2H Y=2H	22.6	24.1	21.8	23.1	23.7	22.4	23.9	21.6	22.9	23.5
Y=3H	25.3	26.6	24.6	25.8	26.5	25.1	26.5	24.4	25.7	26.3
Y=4H	26.8	28.1	26.3	27.4	28.1	26.6	27.9	26.1	27.2	27.9
Y=6H	28.5	29.7	28.0	29.1	29.8	28.3	29.5	27.8	28.9	29.6
Y=8H	29.5	30.6	29.0	30.1	30.7	29.3	30.4	28.8	29.9	30.5
Y=12H	30.5	31.6	30.1	31.1	31.8	30.3	31.4	29.9	30.9	31.6
X=4H Y=2H	22.6	23.8	22.0	23.1	23.8	22.4	23.7	21.9	23.0	23.7
Y=3H	25.4	26.5	25.0	26.0	26.7	25.2	26.3	24.8	25.8	26.5
Y=4H	27.1	28.1	26.8	27.7	28.4	26.9	27.9	26.6	27.5	28.2
Y=6H	29.0	29.9	28.9	29.7	30.4	28.8	29.7	28.6	29.5	30.2
Y=8H	30.1	31.0	30.0	30.8	31.6	29.9	30.7	29.8	30.6	31.4
Y=12H	31.4	32.1	31.4	32.1	32.9	31.2	31.9	31.2	31.9	32.7
X=8H Y=4H	28.9	29.7	28.8	29.6	30.3	28.7	29.6	28.6	29.4	30.2
Y=6H	30.8	31.4	30.8	31.5	32.3	30.6	31.3	30.6	31.3	32.1
Y=8H	31.9	32.5	32.0	32.6	33.4	31.7	32.3	31.8	32.4	33.2
Y=12H	33.2	33.7	33.4	33.9	34.7	33.0	33.5	33.2	33.7	34.6
X=12H Y=4H	29.3	30.0	29.2	29.9	30.7	29.1	29.9	29.1	29.8	30.6
Y=6H	31.3	31.9	31.4	32.0	32.8	31.1	31.7	31.3	31.8	32.7
Y=8H	32.5	33.1	32.7	33.2	34.1	32.3	32.9	32.6	33.1	33.9
Variations with the observer position at spacings										
S=1.0H	0.3/-0.3					0.3/-0.4				
S=1.5H	0.5/-0.8					0.5/-0.8				
S=2.0H	0.4/-0.8					0.4/-0.8				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	6.7					6.7				

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

# IES Indoor Report

Photometric Filename:Globe 30W PLD COB 3000K HYL-900H Small PC Diffuser.IES

## Candela Tabulation

V/H	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0	C300.0	C330.0
γ 0.0	573.14	573.14	573.14	573.14	573.14	573.14	573.14	573.14	573.14	573.14	573.14	573.14
γ 5.0	581.93	576.92	573.35	570.53	568.46	566.40	581.36	575.41	571.47	568.56	566.90	565.70
γ 10.0	583.08	578.51	575.00	572.34	570.07	567.79	582.18	576.14	572.08	568.93	567.23	566.30
γ 15.0	583.48	579.35	575.77	573.34	570.78	568.17	583.30	577.29	573.01	569.38	567.83	566.92
γ 20.0	581.97	578.03	574.34	572.03	569.08	566.67	582.73	576.90	572.68	568.42	566.95	566.13
γ 25.0	577.21	573.66	569.63	567.48	564.03	561.74	579.42	573.86	569.59	564.76	563.56	562.55
γ 30.0	568.80	565.37	561.16	559.19	555.28	553.33	572.61	567.33	563.15	557.79	556.70	555.70
γ 35.0	556.47	553.41	548.84	547.04	542.83	541.21	561.91	557.26	553.20	547.07	546.29	545.10
γ 40.0	540.28	537.41	532.54	530.94	526.44	525.36	547.46	543.17	539.34	532.50	531.90	530.72
γ 45.0	520.02	517.29	511.96	510.61	506.06	505.74	529.07	525.15	521.40	513.97	513.50	512.37
γ 50.0	496.16	493.65	487.78	486.76	482.28	482.92	506.95	503.30	499.70	491.75	491.43	490.31
γ 55.0	469.49	467.22	460.88	460.25	455.88	457.58	481.77	478.43	474.66	466.41	466.38	465.30
γ 60.0	441.26	439.23	432.34	432.17	427.95	430.71	454.41	451.31	447.34	439.26	439.12	438.68
γ 65.0	411.80	410.27	402.66	403.05	398.92	403.03	425.77	423.05	418.95	411.48	411.11	410.95
γ 70.0	381.70	380.24	372.50	372.61	369.44	374.19	396.07	393.56	389.44	382.35	382.09	382.29
γ 75.0	351.54	350.43	342.76	343.01	340.25	345.46	366.09	363.61	359.68	353.13	353.07	353.22
γ 80.0	321.17	320.32	313.05	313.48	311.02	316.13	335.94	333.51	330.26	324.23	324.23	323.98
γ 85.0	291.34	290.36	284.24	284.87	282.64	286.40	305.61	303.21	301.08	295.61	295.73	294.34
γ 90.0	262.17	260.92	257.18	257.85	255.94	257.66	275.16	272.75	272.24	267.42	267.68	264.86
γ 95.0	238.00	235.33	233.11	233.81	232.24	232.15	250.00	246.56	247.82	243.65	243.79	240.49
γ 100.0	202.88	193.92	204.01	204.72	203.30	188.26	219.47	210.44	222.17	218.28	218.38	206.06
γ 105.0	153.63	142.82	167.76	108.62	166.84	137.35	171.57	161.29	188.22	184.82	185.05	156.94
γ 110.0	12.05	95.35	132.77	28.87	131.65	90.53	93.34	113.62	152.46	18.36	149.86	109.49
γ 115.0	11.37	55.39	101.04	51.15	99.94	50.61	8.85	70.86	119.15	48.70	116.85	67.32
γ 120.0	8.74	26.33	73.66	38.19	72.81	21.91	9.46	37.16	89.56	45.65	85.27	34.59
γ 125.0	8.67	15.47	50.45	8.75	50.25	13.74	9.30	19.38	64.09	9.09	58.96	18.08
γ 130.0	8.79	11.53	30.64	8.81	30.63	10.61	9.19	13.94	41.95	9.16	38.58	13.15
γ 135.0	8.96	9.32	15.50	8.86	15.65	9.02	9.30	10.70	23.67	9.19	21.75	10.28
γ 140.0	9.12	9.01	8.94	8.94	8.91	8.91	9.46	9.38	11.39	9.40	10.38	9.25
γ 145.0	9.28	9.14	9.10	9.07	9.09	9.07	9.60	9.44	9.53	9.28	9.29	9.37
γ 150.0	9.44	9.34	9.28	9.24	9.25	9.30	9.74	9.61	9.66	9.45	9.43	9.51
γ 155.0	9.67	9.60	9.48	9.46	9.51	9.46	9.88	9.78	9.82	9.60	9.53	9.69
γ 160.0	9.97	9.81	9.71	9.70	9.78	9.69	10.10	9.93	9.97	9.73	9.71	9.83
γ 165.0	10.13	9.99	9.86	9.89	9.98	9.96	10.23	10.07	10.11	9.94	9.89	9.97
γ 170.0	10.32	10.18	10.08	10.12	10.12	10.08	10.42	10.21	10.32	10.06	10.01	10.09
γ 175.0	10.45	10.35	10.28	10.28	10.29	10.22	10.55	10.37	10.44	10.22	10.17	10.18
γ 180.0	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43	10.43