

IES Indoor Report

Photometric Filename:AD10681-12W-3000K-RA90-36D-WH IES.IES

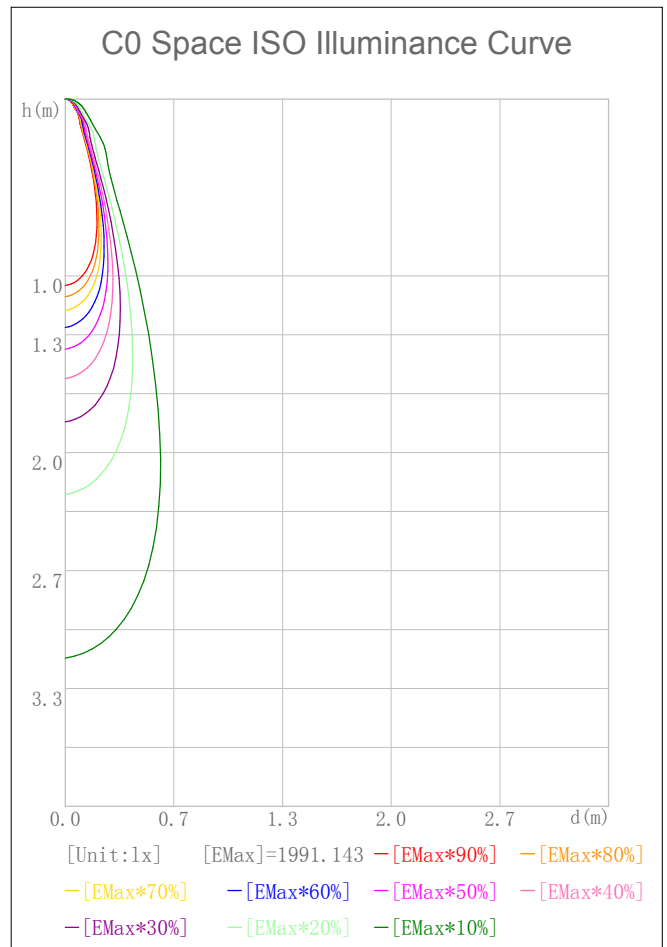
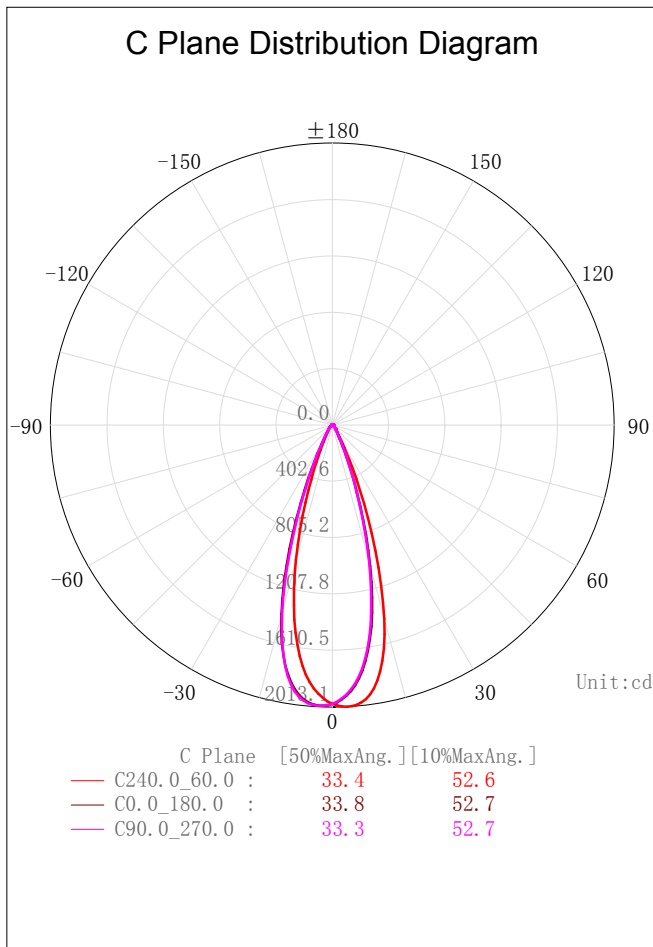
Indoor Luminaire Photometric Data

Description Information

Luminary Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花板灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Date: 2022/07/01
Manufacture:	Shld. Ang(°): 36	Test Machine: GON-2000
Test Lab: Test	Frequency(Hz): 50	Lamp CCT(K): 3000 Ra: 90
Lum. Size (W*L*H): 0.000m*0.000m*0.000m	Lum. Area (m2): 0.000	Lum. W (kg): 0.000
Test System: C, γ	Test Step: C=30.0 γ =1.0	Temp. (°C): 25
		Humidity (%): 50.0

Character Parameter

Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 780.000	Luminary Flux(lm): 723.323	Field Angle(10%Imax): 52.6(°)	
Rated Power(W): 12	Luminary Efficiency: 92.73%	Down Lumens&Percent: 708.386lm 97.93%	
Rated Voltage(V): 220	Luminary EER(lm/W): 67.411	Up Lumens&Percent: 14.937lm 2.07%	
Tested Power(W): 10.730	Max. Candela(cd): 2013.074	S/MH: C0_a180=0.570 C90_270=0.561	
Lamps' Inside: 1	Max Cand@Ang.(°): C=240.0 γ =3.0	CIE Type: Semi-Direct	
Tested Electrics(V, A, pf): 220.6, 0.087, 0.553	Beam Angle(50%Imax): 33.4(°)	ErP Φ use(90°): 685.841lm	
Lamp Size(W*L*H): 0.000m*0.000m*0.000m	Left=-14.9°, Right=18.5°	IRF (%): 640.165	



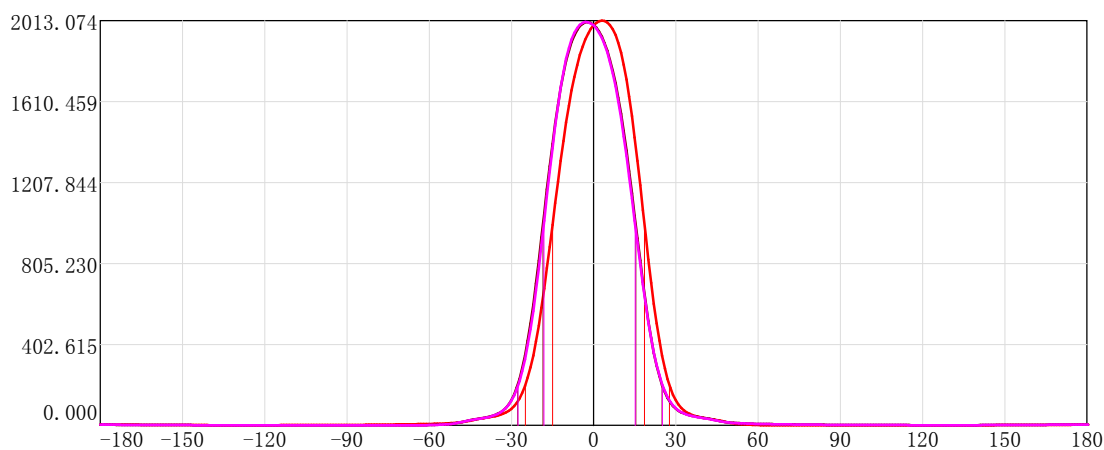
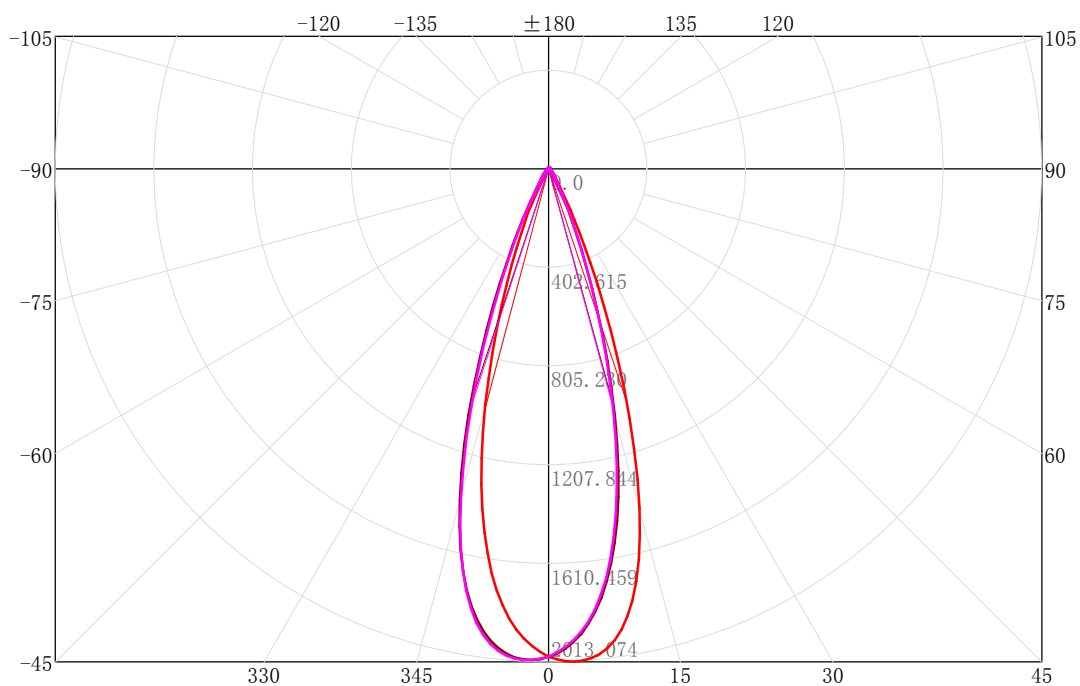
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2D Plane Light Intensity Distribution Curve

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine: GON-2000	Test Date: 2022/07/01

C Plane Distribution Diagram



	C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
—	C240.0_60.0 :	33.4	52.6	
—	C0.0_180.0 :	33.8	52.7	
—	C90.0_270.0 :	33.3	52.7	

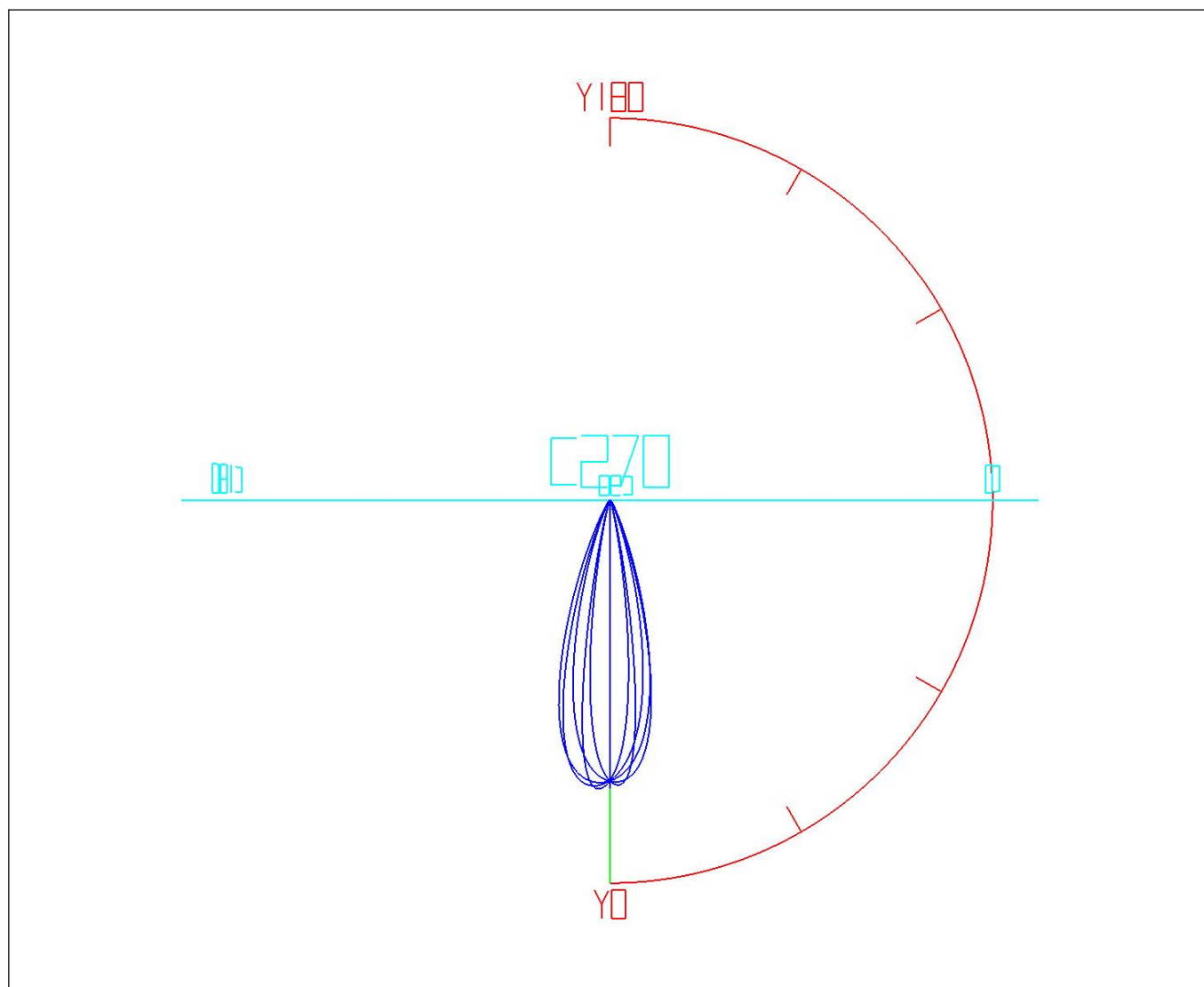
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3D Light Intensity Distribution Modal

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01

3D Light Intensity Distribution Modal



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

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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	1.90	1.90	0.24	0.24	47.0-48.0	1.54	687.73	0.20	88.17
1.0-2.0	5.70	7.60	0.73	0.97	48.0-49.0	1.36	689.10	0.17	88.35
2.0-3.0	9.45	17.05	1.21	2.19	49.0-50.0	1.21	690.30	0.15	88.50
3.0-4.0	13.12	30.16	1.68	3.87	50.0-51.0	1.07	691.38	0.14	88.64
4.0-5.0	16.67	46.83	2.14	6.00	51.0-52.0	0.96	692.34	0.12	88.76
5.0-6.0	20.06	66.90	2.57	8.58	52.0-53.0	0.87	693.21	0.11	88.87
6.0-7.0	23.25	90.15	2.98	11.56	53.0-54.0	0.80	694.01	0.10	88.98
7.0-8.0	26.18	116.32	3.36	14.91	54.0-55.0	0.74	694.75	0.10	89.07
8.0-9.0	28.78	145.11	3.69	18.60	55.0-56.0	0.69	695.44	0.09	89.16
9.0-10.0	31.01	176.12	3.98	22.58	56.0-57.0	0.63	696.07	0.08	89.24
10.0-11.0	32.81	208.93	4.21	26.79	57.0-58.0	0.59	696.66	0.08	89.32
11.0-12.0	34.12	243.06	4.37	31.16	58.0-59.0	0.55	697.21	0.07	89.39
12.0-13.0	34.90	277.96	4.47	35.64	59.0-60.0	0.52	697.73	0.07	89.45
13.0-14.0	35.13	313.09	4.50	40.14	60.0-61.0	0.50	698.23	0.06	89.52
14.0-15.0	34.79	347.87	4.46	44.60	61.0-62.0	0.48	698.71	0.06	89.58
15.0-16.0	33.89	381.77	4.35	48.94	62.0-63.0	0.46	699.17	0.06	89.64
16.0-17.0	32.49	414.26	4.17	53.11	63.0-64.0	0.45	699.62	0.06	89.69
17.0-18.0	30.65	444.91	3.93	57.04	64.0-65.0	0.44	700.05	0.06	89.75
18.0-19.0	28.45	473.36	3.65	60.69	65.0-66.0	0.42	700.48	0.05	89.80
19.0-20.0	26.00	499.37	3.33	64.02	66.0-67.0	0.41	700.89	0.05	89.86
20.0-21.0	23.41	522.77	3.00	67.02	67.0-68.0	0.41	701.30	0.05	89.91
21.0-22.0	20.78	543.55	2.66	69.69	68.0-69.0	0.40	701.70	0.05	89.96
22.0-23.0	18.21	561.76	2.33	72.02	69.0-70.0	0.39	702.08	0.05	90.01
23.0-24.0	15.79	577.55	2.02	74.04	70.0-71.0	0.38	702.46	0.05	90.06
24.0-25.0	13.56	591.11	1.74	75.78	71.0-72.0	0.37	702.83	0.05	90.11
25.0-26.0	11.58	602.69	1.48	77.27	72.0-73.0	0.36	703.20	0.05	90.15
26.0-27.0	9.85	612.54	1.26	78.53	73.0-74.0	0.36	703.55	0.05	90.20
27.0-28.0	8.38	620.92	1.07	79.60	74.0-75.0	0.35	703.90	0.04	90.24
28.0-29.0	7.16	628.07	0.92	80.52	75.0-76.0	0.34	704.24	0.04	90.29
29.0-30.0	6.15	634.23	0.79	81.31	76.0-77.0	0.33	704.58	0.04	90.33
30.0-31.0	5.35	639.58	0.69	82.00	77.0-78.0	0.33	704.90	0.04	90.37
31.0-32.0	4.71	644.29	0.60	82.60	78.0-79.0	0.32	705.22	0.04	90.41
32.0-33.0	4.21	648.50	0.54	83.14	79.0-80.0	0.31	705.53	0.04	90.45
33.0-34.0	3.82	652.32	0.49	83.63	80.0-81.0	0.31	705.84	0.04	90.49
34.0-35.0	3.52	655.85	0.45	84.08	81.0-82.0	0.30	706.14	0.04	90.53
35.0-36.0	3.29	659.14	0.42	84.50	82.0-83.0	0.29	706.43	0.04	90.57
36.0-37.0	3.10	662.24	0.40	84.90	83.0-84.0	0.29	706.72	0.04	90.61
37.0-38.0	2.95	665.19	0.38	85.28	84.0-85.0	0.29	707.01	0.04	90.64
38.0-39.0	2.82	668.01	0.36	85.64	85.0-86.0	0.28	707.29	0.04	90.68
39.0-40.0	2.71	670.72	0.35	85.99	86.0-87.0	0.28	707.57	0.04	90.71
40.0-41.0	2.61	673.33	0.33	86.32	87.0-88.0	0.28	707.84	0.04	90.75
41.0-42.0	2.50	675.83	0.32	86.65	88.0-89.0	0.27	708.12	0.03	90.78
42.0-43.0	2.38	678.22	0.31	86.95	89.0-90.0	0.27	708.39	0.03	90.82
43.0-44.0	2.24	680.46	0.29	87.24	90.0-91.0	0.27	708.65	0.03	90.85
44.0-45.0	2.09	682.55	0.27	87.51	91.0-92.0	0.27	708.92	0.03	90.89
45.0-46.0	1.92	684.47	0.25	87.75	92.0-93.0	0.26	709.18	0.03	90.92
46.0-47.0	1.73	686.20	0.22	87.97	93.0-94.0	0.26	709.44	0.03	90.95

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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	0.26	709.70	0.03	90.99	141.0-142.0	0.16	719.15	0.02	92.20
95.0-96.0	0.26	709.96	0.03	91.02	142.0-143.0	0.16	719.30	0.02	92.22
96.0-97.0	0.26	710.22	0.03	91.05	143.0-144.0	0.16	719.46	0.02	92.24
97.0-98.0	0.25	710.47	0.03	91.09	144.0-145.0	0.16	719.61	0.02	92.26
98.0-99.0	0.25	710.72	0.03	91.12	145.0-146.0	0.16	719.77	0.02	92.28
99.0-100.0	0.25	710.97	0.03	91.15	146.0-147.0	0.15	719.92	0.02	92.30
100.0-101.0	0.25	711.22	0.03	91.18	147.0-148.0	0.15	720.08	0.02	92.32
101.0-102.0	0.24	711.46	0.03	91.21	148.0-149.0	0.15	720.23	0.02	92.34
102.0-103.0	0.24	711.70	0.03	91.24	149.0-150.0	0.15	720.39	0.02	92.36
103.0-104.0	0.24	711.94	0.03	91.27	150.0-151.0	0.15	720.54	0.02	92.38
104.0-105.0	0.24	712.18	0.03	91.30	151.0-152.0	0.15	720.70	0.02	92.40
105.0-106.0	0.23	712.41	0.03	91.33	152.0-153.0	0.15	720.85	0.02	92.42
106.0-107.0	0.23	712.64	0.03	91.36	153.0-154.0	0.15	721.00	0.02	92.44
107.0-108.0	0.23	712.87	0.03	91.39	154.0-155.0	0.15	721.15	0.02	92.46
108.0-109.0	0.22	713.09	0.03	91.42	155.0-156.0	0.15	721.30	0.02	92.47
109.0-110.0	0.22	713.31	0.03	91.45	156.0-157.0	0.15	721.44	0.02	92.49
110.0-111.0	0.22	713.53	0.03	91.48	157.0-158.0	0.14	721.59	0.02	92.51
111.0-112.0	0.22	713.75	0.03	91.51	158.0-159.0	0.14	721.72	0.02	92.53
112.0-113.0	0.21	713.97	0.03	91.53	159.0-160.0	0.14	721.86	0.02	92.55
113.0-114.0	0.21	714.18	0.03	91.56	160.0-161.0	0.13	721.99	0.02	92.56
114.0-115.0	0.21	714.39	0.03	91.59	161.0-162.0	0.13	722.12	0.02	92.58
115.0-116.0	0.21	714.59	0.03	91.61	162.0-163.0	0.12	722.24	0.02	92.60
116.0-117.0	0.20	714.80	0.03	91.64	163.0-164.0	0.12	722.36	0.02	92.61
117.0-118.0	0.20	715.00	0.03	91.67	164.0-165.0	0.11	722.47	0.01	92.62
118.0-119.0	0.20	715.20	0.03	91.69	165.0-166.0	0.11	722.58	0.01	92.64
119.0-120.0	0.20	715.40	0.03	91.72	166.0-167.0	0.10	722.68	0.01	92.65
120.0-121.0	0.19	715.59	0.02	91.74	167.0-168.0	0.09	722.77	0.01	92.66
121.0-122.0	0.19	715.78	0.02	91.77	168.0-169.0	0.09	722.86	0.01	92.67
122.0-123.0	0.19	715.97	0.02	91.79	169.0-170.0	0.08	722.94	0.01	92.68
123.0-124.0	0.19	716.16	0.02	91.82	170.0-171.0	0.07	723.01	0.01	92.69
124.0-125.0	0.18	716.34	0.02	91.84	171.0-172.0	0.07	723.07	0.01	92.70
125.0-126.0	0.18	716.52	0.02	91.86	172.0-173.0	0.06	723.13	0.01	92.71
126.0-127.0	0.18	716.70	0.02	91.89	173.0-174.0	0.05	723.18	0.01	92.72
127.0-128.0	0.18	716.88	0.02	91.91	174.0-175.0	0.04	723.22	0.01	92.72
128.0-129.0	0.17	717.05	0.02	91.93	175.0-176.0	0.04	723.26	0.00	92.73
129.0-130.0	0.17	717.23	0.02	91.95	176.0-177.0	0.03	723.29	0.00	92.73
130.0-131.0	0.17	717.39	0.02	91.97	177.0-178.0	0.02	723.31	0.00	92.73
131.0-132.0	0.17	717.56	0.02	92.00	178.0-179.0	0.01	723.32	0.00	92.73
132.0-133.0	0.16	717.73	0.02	92.02	179.0-180.0	0.00	723.32	0.00	92.73
133.0-134.0	0.16	717.89	0.02	92.04					
134.0-135.0	0.16	718.05	0.02	92.06					
135.0-136.0	0.16	718.21	0.02	92.08					
136.0-137.0	0.16	718.37	0.02	92.10					
137.0-138.0	0.16	718.53	0.02	92.12					
138.0-139.0	0.16	718.68	0.02	92.14					
139.0-140.0	0.16	718.84	0.02	92.16					
140.0-141.0	0.16	718.99	0.02	92.18					

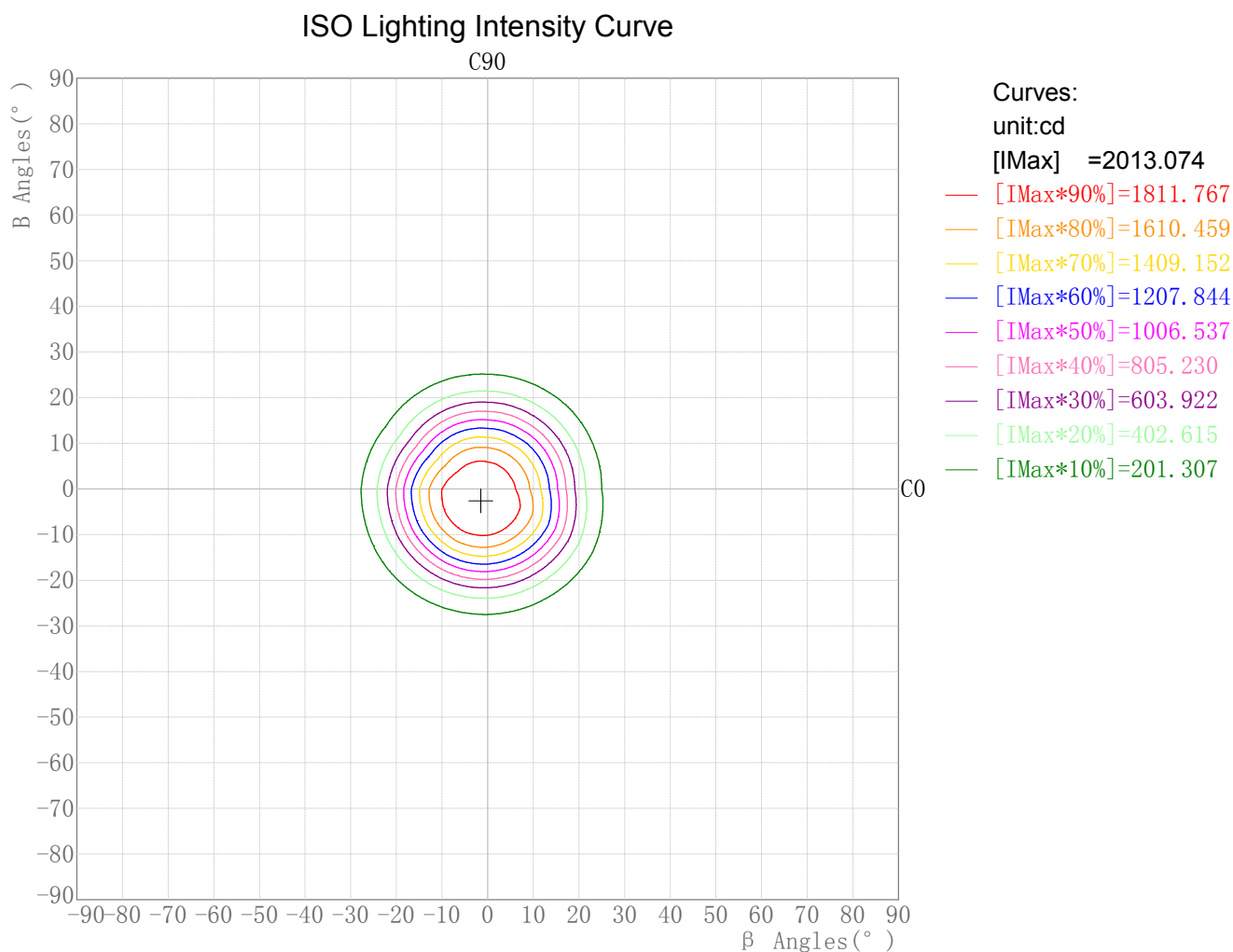
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Rectangle ISO Lighting Intensity Diagram

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01



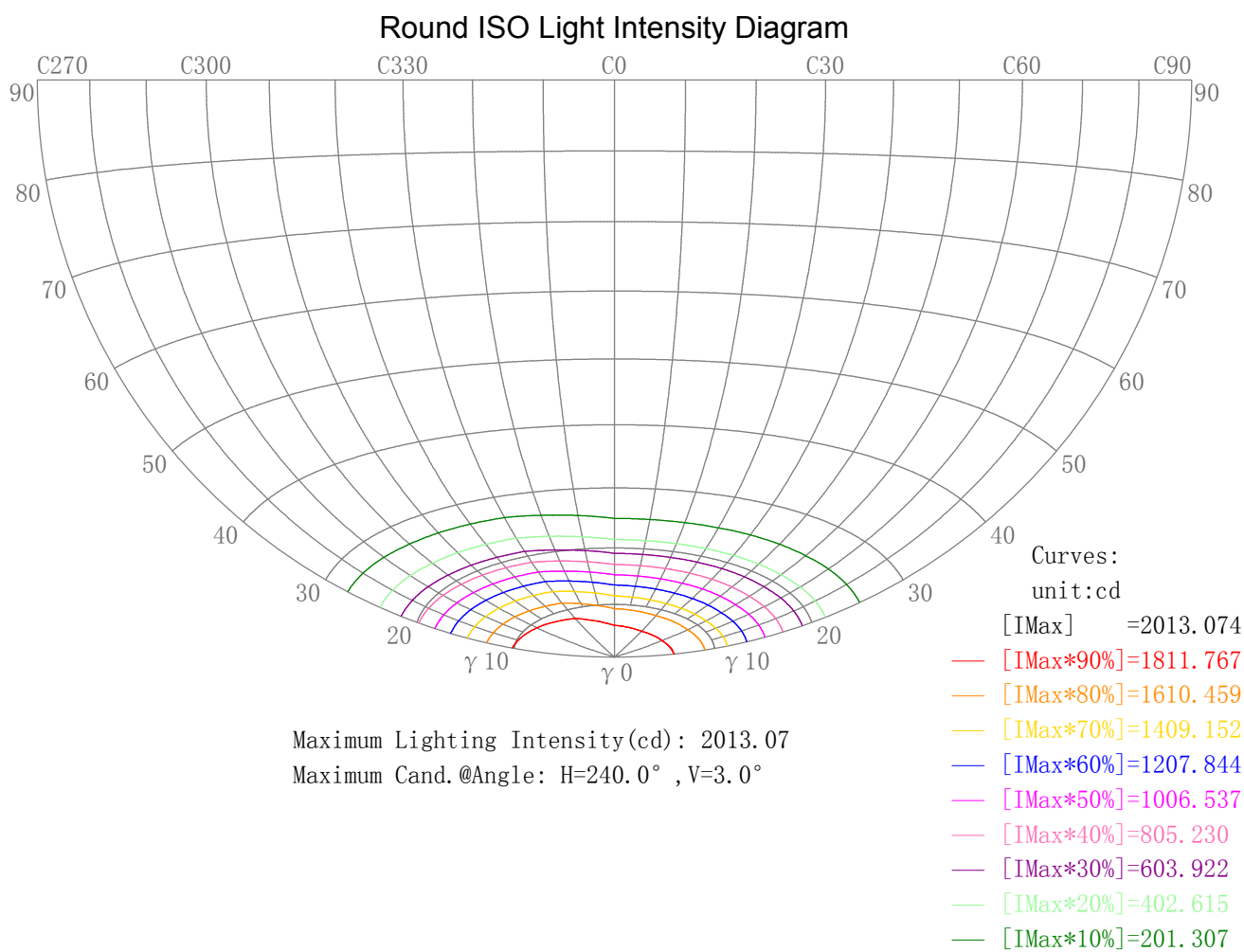
Maximum Light Intensity(cd): 2013.07
Maximum Cand.@Angle: H=-1.5°,V=-2.6°

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Round ISO Lighting Intensity Diagram

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01



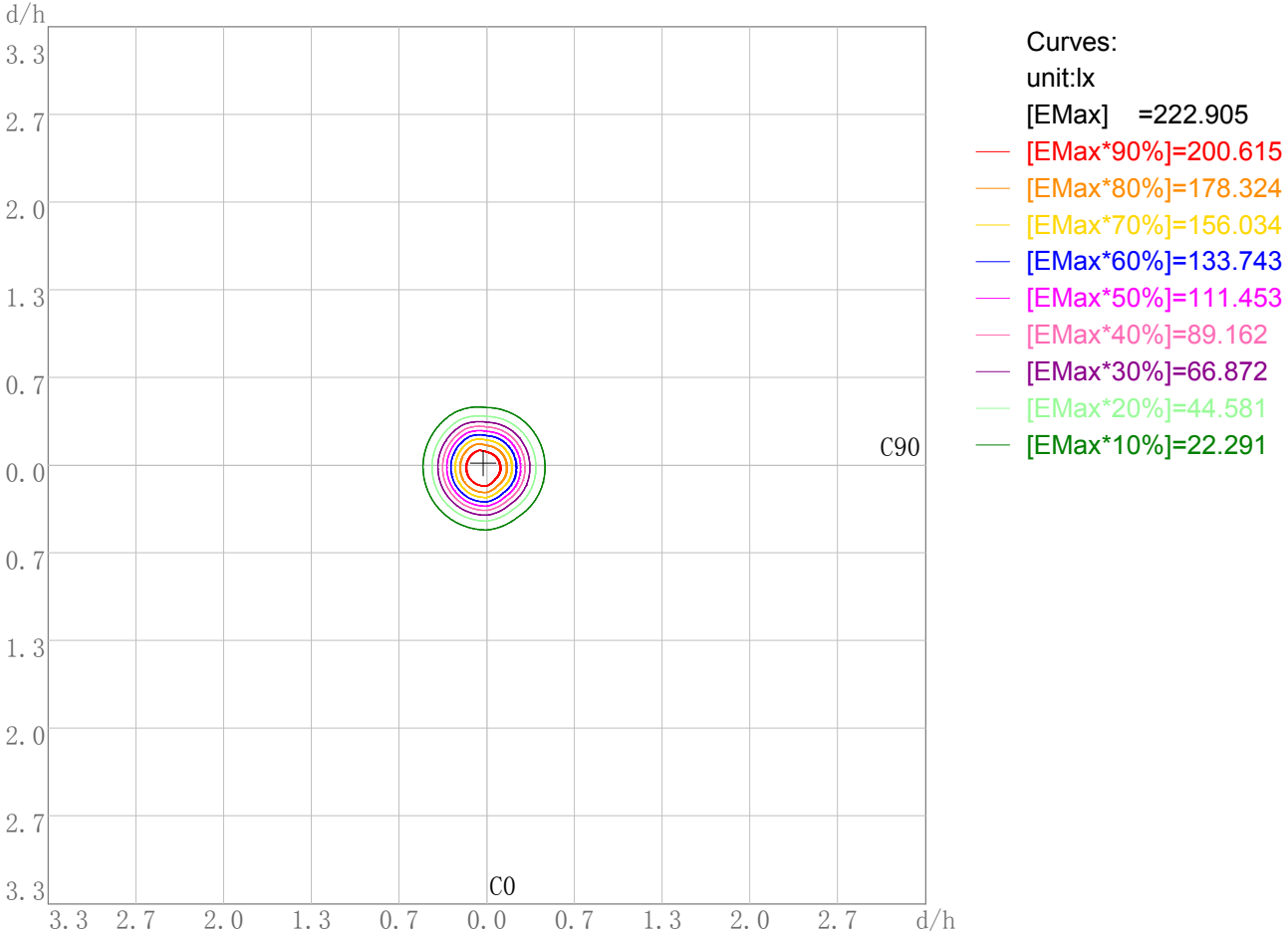
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Plane ISO-Illuminance Diagram

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine: GON-2000	Test Date: 2022/07/01

Plane ISO-Illuminance Curve



Working Plane Luminaire Mounting Height(m): 3.00
 Working Plane Maximum Illuminance(lx): 222.91
 Working Plane Maximum Illuminance Position(d/h):H-0.0 V-0.0

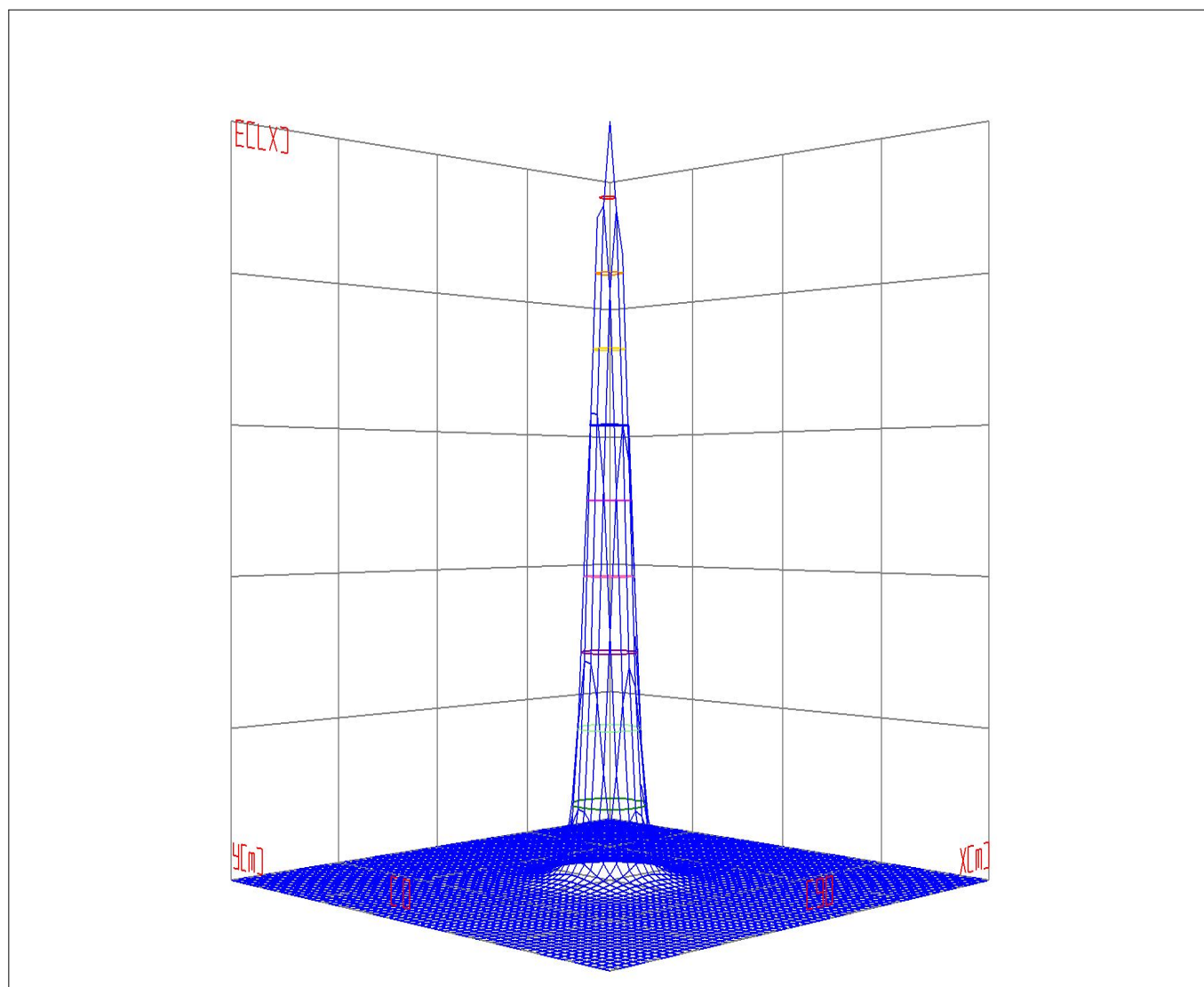
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3D Plane ISO Illuminance Diagram

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01

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

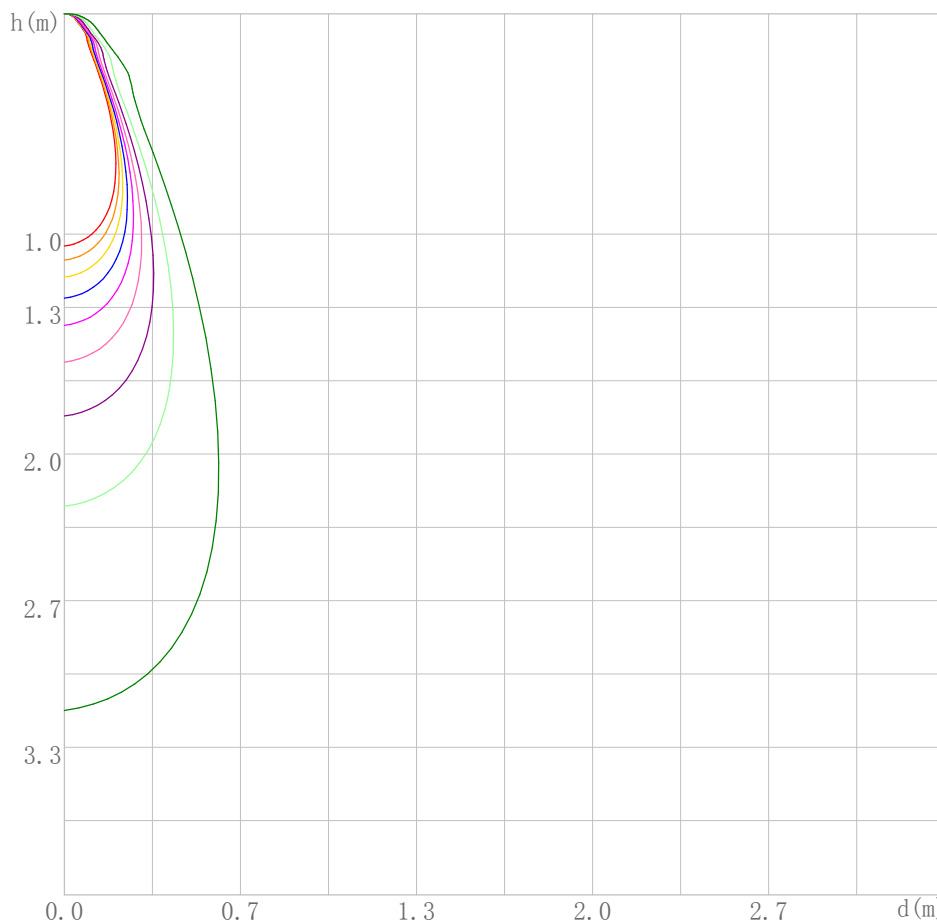
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Space ISO Illuminance Diagram

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine: GON-2000	Test Date: 2022/07/01

Space ISO Illuminance Curve



- Curves:
[Unit: lx]
[EMax] =1991.143
- [EMax*90%]=1792.029
 - [EMax*80%]=1592.914
 - [EMax*70%]=1393.800
 - [EMax*60%]=1194.686
 - [EMax*50%]=995.571
 - [EMax*40%]=796.457
 - [EMax*30%]=597.343
 - [EMax*20%]=398.229
 - [EMax*10%]=199.114

Space Plane Maximum Illuminance and @Angle:1991.14lx,0.0deg
Plane Maximum Lighting Intensity and @Angle:1991.143cd,0deg

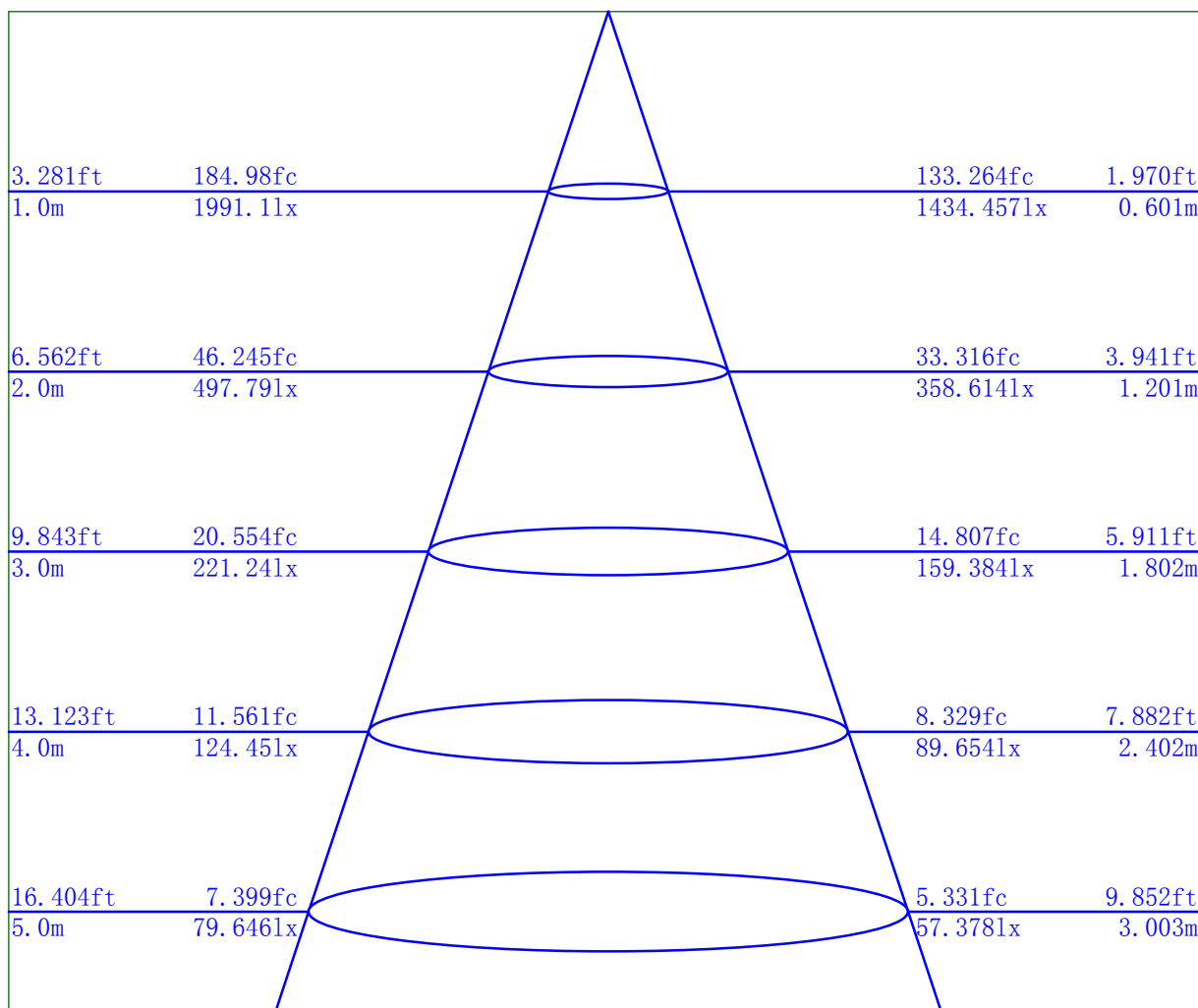
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Illuminance-Distance Diagram

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine: GON-2000	Test Date: 2022/07/01

Illuminance-Distance Curve



Height

Center E

Average E

Diameter

Beam Angle: 33.4

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Indoor Luminance Limiting Curves

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01

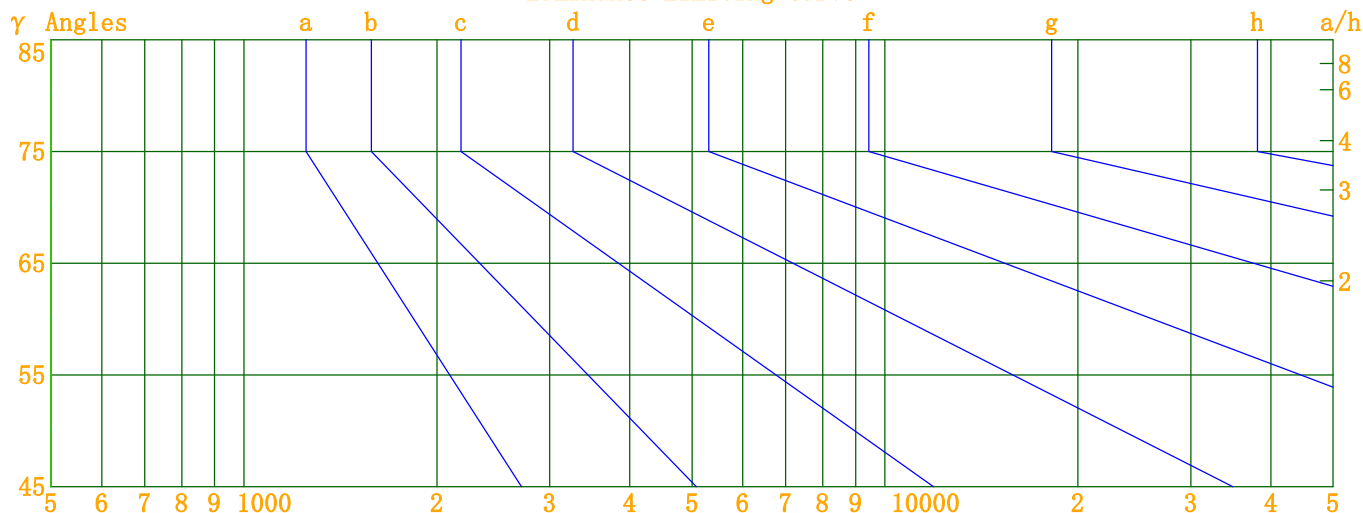
Glare Grade Table

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	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

Luminance Limiting Curve



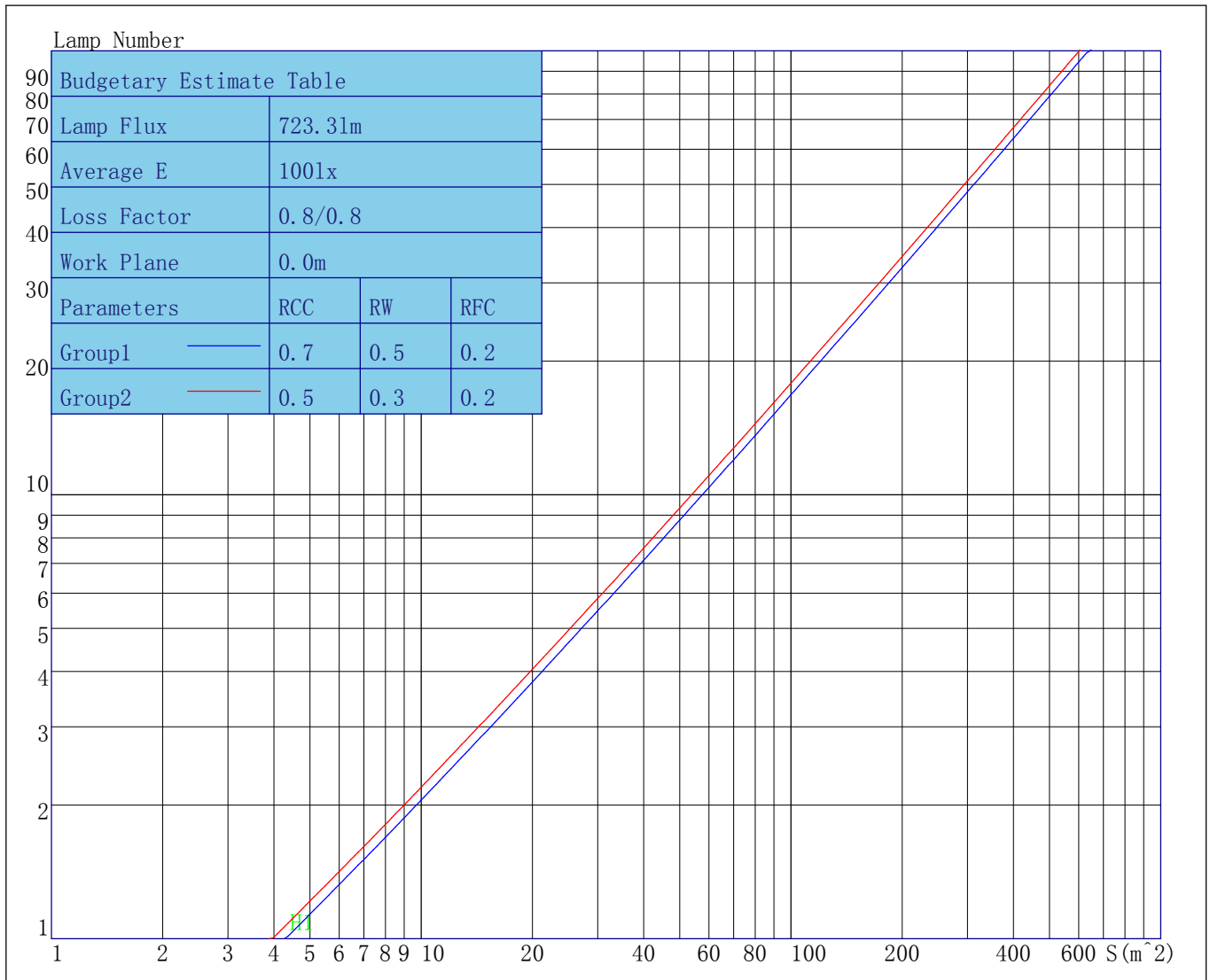
Luminous Size: Length(m)=0.000 Width(m)=0.000 Height(m)=0.000 Area(m^2)=0.000000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: — C90-C270 Color: —

IES Indoor Report

Photometric Filename: AD10681-12W-3000K-RA90-36D-WH IES.IES

Indoor Budgetary Estimate Table

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine: GON-2000	Test Date: 2022/07/01



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:AD10681-12W-3000K-RA90-36D-WH IES.IES

Indoor Coefficient of Utilization Table

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01

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	110	110	110	110	107	107	107	107	102	102	102	97	97	97	93	93	93	91
1	105	103	101	99	103	101	99	98	97	95	94	93	92	91	90	89	88	86
2	101	97	94	91	99	96	93	90	92	90	88	89	88	86	87	85	84	82
3	97	92	88	85	95	91	87	85	88	85	83	86	84	82	84	82	80	79
4	94	88	84	80	92	87	83	80	85	81	79	83	80	78	81	79	77	75
5	90	84	80	76	89	83	79	76	81	78	75	80	77	74	78	76	73	72
6	87	80	76	73	86	80	75	72	78	75	72	77	74	71	75	73	71	69
7	84	77	73	70	83	77	72	69	75	72	69	74	71	68	73	70	68	67
8	81	74	70	67	80	74	69	67	73	69	66	72	68	66	71	68	65	64
9	79	72	67	64	78	71	67	64	70	66	64	69	66	63	68	65	63	62
10	76	69	65	62	75	69	65	62	68	64	62	67	64	61	66	63	61	60

IES Indoor Report

Photometric Filename:AD10681-12W-3000K-RA90-36D-WH IES.IES

Unified Glare Rating Table

Lum. Name: AD10681-12W-3000K-RA90-36D-WH IES	Lum. Catalog: 天花灯	Test ID:
Lamp Name: CLU1002C4-30-3H5K2	Lamp Catalog: COB	Test Lab: Test
Manufacture:	Test Machine:GON-2000	Test Date: 2022/07/01

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	-1.6	-0.8	-1.2	-0.5	-0.1	-1.6	-0.8	-1.2	-0.5	-0.1
Y=3H	-1.8	-1.2	-1.4	-0.8	-0.4	-1.8	-1.2	-1.4	-0.8	-0.4
Y=4H	-1.9	-1.3	-1.5	-0.9	-0.5	-1.9	-1.3	-1.5	-0.9	-0.5
Y=6H	-2.0	-1.5	-1.6	-1.1	-0.6	-2.0	-1.5	-1.6	-1.1	-0.6
Y=8H	-2.1	-1.6	-1.6	-1.2	-0.7	-2.1	-1.6	-1.6	-1.2	-0.7
Y=12H	-2.2	-1.7	-1.7	-1.3	-0.8	-2.2	-1.7	-1.7	-1.3	-0.8
X=4H Y=2H	-1.9	-1.3	-1.5	-0.9	-0.5	-1.9	-1.3	-1.5	-0.9	-0.5
Y=3H	-2.1	-1.7	-1.7	-1.2	-0.8	-2.1	-1.7	-1.7	-1.2	-0.8
Y=4H	-2.3	-1.9	-1.8	-1.4	-0.9	-2.3	-1.9	-1.8	-1.4	-0.9
Y=6H	-2.4	-2.1	-1.9	-1.6	-1.1	-2.4	-2.1	-1.9	-1.6	-1.1
Y=8H	-2.5	-2.2	-1.9	-1.7	-1.2	-2.5	-2.2	-1.9	-1.7	-1.2
Y=12H	-2.5	-2.3	-2.0	-1.8	-1.3	-2.5	-2.3	-2.0	-1.8	-1.3
X=8H Y=4H	-2.5	-2.2	-1.9	-1.7	-1.2	-2.5	-2.2	-1.9	-1.7	-1.2
Y=6H	-2.6	-2.4	-2.0	-1.9	-1.3	-2.6	-2.4	-2.0	-1.9	-1.3
Y=8H	-2.6	-2.5	-2.0	-1.9	-1.4	-2.6	-2.5	-2.0	-1.9	-1.4
Y=12H	-2.7	-2.6	-2.1	-2.1	-1.4	-2.7	-2.6	-2.1	-2.1	-1.4
X=12H Y=4H	-2.5	-2.3	-2.0	-1.8	-1.3	-2.5	-2.3	-2.0	-1.8	-1.3
Y=6H	-2.6	-2.5	-2.0	-2.0	-1.4	-2.6	-2.5	-2.0	-2.0	-1.4
Y=8H	-2.7	-2.6	-2.1	-2.1	-1.4	-2.7	-2.6	-2.1	-2.1	-1.4
Variations with the objerver position at spacings										
S=1.0H	0.0/0.0					0.0/0.0				
S=1.5H	0.0/0.0					0.0/0.0				
S=2.0H	0.0/0.0					0.0/0.0				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	0.0					0.0				

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

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IES Indoor Report

Photometric Filename:AD10681-12W-3000K-RA90-36D-WH IES.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	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14	1991.14
γ 1.0	1978.59	1971.07	1971.29	1973.55	1983.19	1991.41	2001.72	2001.11	2001.68	1999.04	1997.88	1993.87
γ 2.0	1959.17	1948.05	1948.28	1953.32	1968.38	1982.65	2005.58	2008.58	2009.82	2004.88	1998.30	1987.71
γ 3.0	1934.01	1919.15	1919.65	1927.34	1948.25	1968.13	2004.41	2011.03	2013.07	2006.07	1993.83	1976.41
γ 4.0	1902.47	1884.05	1884.26	1894.81	1921.64	1947.48	1997.88	2008.27	2011.38	2002.22	1984.03	1959.55
γ 5.0	1864.03	1842.20	1842.07	1855.04	1888.29	1919.97	1985.53	1999.89	2004.19	1992.64	1968.14	1936.80
γ 6.0	1818.04	1792.90	1791.95	1807.40	1847.08	1884.73	1966.59	1985.31	1990.83	1976.55	1945.60	1907.41
γ 7.0	1763.73	1735.85	1733.56	1751.15	1797.68	1840.98	1940.52	1963.75	1970.13	1952.77	1915.11	1870.58
γ 8.0	1700.83	1670.68	1666.36	1685.95	1739.05	1788.19	1906.54	1934.25	1941.23	1919.97	1876.13	1825.60
γ 9.0	1629.11	1597.40	1590.44	1611.67	1671.01	1725.88	1863.70	1895.92	1902.74	1876.91	1826.98	1771.58
γ 10.0	1550.29	1516.27	1506.49	1528.60	1593.93	1653.49	1811.95	1847.89	1853.83	1822.92	1767.85	1708.19
γ 11.0	1463.66	1427.31	1414.91	1437.38	1508.22	1571.34	1749.98	1789.24	1793.36	1757.20	1697.46	1635.04
γ 12.0	1367.46	1331.29	1316.39	1339.45	1413.91	1480.25	1677.74	1719.35	1720.59	1679.40	1616.22	1552.23
γ 13.0	1264.34	1229.79	1212.55	1235.82	1312.81	1380.83	1594.76	1637.97	1635.51	1590.06	1523.91	1460.26
γ 14.0	1155.98	1124.20	1105.81	1128.43	1206.04	1274.58	1501.79	1545.39	1539.13	1489.63	1422.40	1359.65
γ 15.0	1044.56	1015.87	997.35	1018.96	1096.02	1163.10	1399.61	1442.39	1432.08	1379.75	1312.55	1251.94
γ 16.0	931.16	906.89	888.55	909.54	983.52	1048.65	1289.76	1330.32	1316.26	1262.84	1196.38	1139.36
γ 17.0	820.56	799.64	782.68	802.57	872.61	933.87	1173.77	1211.53	1194.85	1141.60	1076.94	1023.88
γ 18.0	713.10	696.09	680.97	699.77	764.30	820.95	1054.76	1089.03	1070.66	1018.66	956.90	908.34
γ 19.0	611.72	598.22	585.27	603.01	660.98	712.42	935.39	965.69	946.15	897.67	838.88	795.70
γ 20.0	518.54	507.86	497.24	513.79	565.05	610.42	818.82	844.46	825.61	781.16	726.60	687.81
γ 21.0	434.88	426.41	418.43	433.34	477.77	516.83	706.78	728.04	710.14	671.07	620.72	586.93
γ 22.0	361.28	354.72	348.92	362.53	399.88	433.13	602.27	619.33	604.05	569.87	524.78	494.90
γ 23.0	298.27	293.10	288.92	301.36	332.17	360.05	507.10	520.36	507.21	478.91	438.69	412.92
γ 24.0	245.00	241.21	238.34	249.30	274.57	297.32	421.99	432.18	421.48	398.76	363.37	341.35
γ 25.0	201.06	198.28	196.58	205.91	226.41	244.54	348.07	355.59	347.05	329.38	299.30	280.17
γ 26.0	165.51	163.46	162.40	170.33	186.69	201.05	285.01	290.39	283.67	270.59	245.26	229.06
γ 27.0	137.16	135.65	135.21	141.53	154.62	165.73	232.14	236.00	231.01	221.64	200.67	186.95
γ 28.0	114.84	113.60	113.42	118.54	128.76	137.43	188.82	191.67	188.05	181.50	164.57	152.82
γ 29.0	97.46	96.32	96.32	100.36	108.50	115.08	153.97	156.23	153.46	149.10	135.76	125.70
γ 30.0	83.90	82.89	82.85	86.05	92.35	97.47	126.41	128.22	126.12	123.36	112.93	104.39
γ 31.0	73.69	72.66	72.58	74.97	79.82	83.76	104.80	106.40	104.76	103.08	95.02	87.72
γ 32.0	65.94	64.86	64.68	66.50	70.20	73.31	88.14	89.51	88.19	87.19	80.95	74.73
γ 33.0	59.86	58.67	58.47	59.85	62.70	65.29	75.28	76.54	75.42	74.85	69.83	64.77
γ 34.0	55.00	53.74	53.45	54.57	56.70	58.90	65.70	66.76	65.81	65.35	61.42	57.24
γ 35.0	51.19	49.90	49.57	50.38	51.93	53.82	58.29	59.27	58.44	58.02	54.78	51.33
γ 36.0	48.06	46.78	46.41	47.01	48.17	49.83	52.42	53.29	52.53	52.17	49.31	46.55
γ 37.0	45.44	44.11	43.77	44.19	45.06	46.61	47.68	48.48	47.77	47.43	44.86	42.76
γ 38.0	43.10	41.75	41.51	41.76	42.50	43.94	44.00	44.66	44.03	43.63	41.33	39.69
γ 39.0	40.80	39.46	39.34	39.51	40.28	41.56	41.04	41.57	40.99	40.51	38.45	37.06
γ 40.0	38.57	37.31	37.29	37.38	38.06	39.31	38.50	38.97	38.42	37.86	35.91	34.76
γ 41.0	36.53	35.36	35.36	35.33	36.04	37.20	36.25	36.67	36.13	35.49	33.67	32.62
γ 42.0	34.27	33.08	33.17	33.06	34.09	35.21	34.05	34.48	33.99	33.24	31.52	30.51
γ 43.0	31.32	30.30	30.30	30.37	31.55	32.91	31.84	32.33	31.87	31.05	29.42	28.47
γ 44.0	28.22	27.39	27.41	27.51	28.63	30.11	29.77	30.28	29.79	28.88	27.41	26.30
γ 45.0	25.31	24.62	24.59	24.74	25.79	27.17	27.53	28.07	27.66	26.54	25.05	23.66
γ 46.0	22.58	22.00	21.97	22.12	23.14	24.35	24.52	25.32	24.92	23.78	22.12	20.71

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IES Indoor Report

Photometric Filename:AD10681-12W-3000K-RA90-36D-WH IES.IES

Candela Tabulation - (Cont.)

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 47.0	19.98	19.47	19.45	19.67	20.55	21.67	21.30	22.17	21.75	20.78	19.24	17.86
γ 48.0	17.68	17.36	17.29	17.52	18.19	19.17	18.24	19.08	18.73	17.89	16.47	15.16
γ 49.0	15.93	15.81	15.66	15.83	16.29	17.03	15.39	16.15	15.83	15.13	13.84	12.63
γ 50.0	14.67	14.61	14.42	14.51	14.85	15.41	12.75	13.38	13.07	12.52	11.32	10.35
γ 51.0	13.64	13.65	13.46	13.44	13.68	14.16	10.45	10.89	10.59	10.16	9.20	8.57
γ 52.0	12.79	12.80	12.65	12.60	12.81	13.17	8.66	8.99	8.69	8.36	7.66	7.28
γ 53.0	12.04	11.98	11.88	11.85	12.09	12.35	7.36	7.64	7.45	7.08	6.57	6.27
γ 54.0	11.25	11.17	11.08	11.10	11.35	11.60	6.30	6.63	6.42	6.11	5.69	5.45
γ 55.0	10.55	10.42	10.31	10.40	10.65	10.87	5.47	5.78	5.58	5.32	5.00	4.74
γ 56.0	9.94	9.77	9.68	9.75	9.98	10.19	4.73	4.99	4.84	4.61	4.32	4.05
γ 57.0	9.45	9.26	9.20	9.25	9.43	9.63	4.02	4.24	4.12	3.93	3.71	3.42
γ 58.0	9.00	8.86	8.77	8.85	8.99	9.18	3.35	3.53	3.46	3.33	3.10	2.91
γ 59.0	8.64	8.52	8.46	8.50	8.65	8.80	2.84	2.94	2.90	2.81	2.61	2.48
γ 60.0	8.37	8.25	8.19	8.22	8.35	8.47	2.44	2.47	2.46	2.39	2.27	2.17
γ 61.0	8.10	8.01	7.94	7.97	8.11	8.20	2.10	2.13	2.12	2.10	2.01	1.94
γ 62.0	7.88	7.76	7.74	7.73	7.88	7.98	1.89	1.91	1.92	1.89	1.85	1.77
γ 63.0	7.64	7.53	7.48	7.49	7.64	7.73	1.76	1.76	1.71	1.75	1.70	1.66
γ 64.0	7.41	7.29	7.25	7.27	7.39	7.48	1.63	1.64	1.62	1.62	1.59	1.57
γ 65.0	7.18	7.08	7.04	7.05	7.16	7.26	1.55	1.53	1.50	1.52	1.53	1.48
γ 66.0	6.96	6.88	6.85	6.84	6.96	7.05	1.47	1.45	1.45	1.46	1.47	1.43
γ 67.0	6.78	6.68	6.64	6.66	6.76	6.85	1.39	1.38	1.36	1.42	1.40	1.39
γ 68.0	6.62	6.49	6.44	6.47	6.56	6.64	1.33	1.33	1.35	1.35	1.38	1.36
γ 69.0	6.39	6.30	6.28	6.28	6.39	6.43	1.30	1.29	1.31	1.31	1.33	1.35
γ 70.0	6.19	6.11	6.08	6.09	6.18	6.26	1.30	1.26	1.27	1.30	1.31	1.34
γ 71.0	5.99	5.91	5.87	5.89	5.99	6.08	1.29	1.25	1.26	1.29	1.30	1.32
γ 72.0	5.81	5.72	5.73	5.72	5.80	5.87	1.30	1.24	1.26	1.29	1.34	1.32
γ 73.0	5.64	5.54	5.52	5.54	5.62	5.67	1.26	1.23	1.27	1.27	1.28	1.30
γ 74.0	5.47	5.38	5.35	5.36	5.44	5.49	1.26	1.24	1.25	1.26	1.29	1.28
γ 75.0	5.32	5.21	5.18	5.18	5.26	5.32	1.26	1.24	1.25	1.25	1.27	1.27
γ 76.0	5.14	5.06	5.06	5.02	5.08	5.15	1.23	1.24	1.22	1.23	1.21	1.26
γ 77.0	4.96	4.91	4.88	4.87	4.94	4.99	1.23	1.23	1.21	1.23	1.23	1.26
γ 78.0	4.81	4.77	4.73	4.72	4.79	4.82	1.26	1.22	1.24	1.21	1.23	1.26
γ 79.0	4.65	4.62	4.58	4.55	4.60	4.65	1.29	1.24	1.24	1.21	1.23	1.23
γ 80.0	4.53	4.49	4.47	4.42	4.46	4.52	1.28	1.25	1.25	1.22	1.21	1.22
γ 81.0	4.39	4.36	4.32	4.28	4.35	4.39	1.30	1.26	1.25	1.23	1.21	1.24
γ 82.0	4.26	4.21	4.21	4.15	4.24	4.26	1.27	1.26	1.27	1.22	1.21	1.26
γ 83.0	4.15	4.10	4.12	4.04	4.11	4.14	1.29	1.26	1.28	1.24	1.24	1.28
γ 84.0	4.05	4.01	3.98	3.94	3.97	4.01	1.32	1.30	1.27	1.25	1.25	1.29
γ 85.0	3.92	3.90	3.85	3.86	3.91	3.91	1.33	1.32	1.31	1.27	1.28	1.30
γ 86.0	3.83	3.80	3.74	3.77	3.82	3.84	1.35	1.34	1.32	1.29	1.30	1.33
γ 87.0	3.74	3.69	3.67	3.66	3.74	3.75	1.35	1.35	1.36	1.32	1.35	1.38
γ 88.0	3.64	3.59	3.58	3.59	3.66	3.67	1.40	1.36	1.33	1.36	1.37	1.40
γ 89.0	3.57	3.50	3.49	3.51	3.57	3.58	1.40	1.37	1.37	1.38	1.41	1.42
γ 90.0	3.49	3.43	3.45	3.45	3.52	3.50	1.43	1.38	1.41	1.44	1.46	1.47
γ 91.0	3.42	3.39	3.37	3.39	3.42	3.44	1.45	1.40	1.45	1.49	1.49	1.50
γ 92.0	3.35	3.32	3.30	3.32	3.34	3.37	1.48	1.43	1.47	1.51	1.51	1.52
γ 93.0	3.28	3.24	3.28	3.26	3.28	3.31	1.54	1.47	1.50	1.54	1.53	1.57

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IES Indoor Report

Photometric Filename:AD10681-12W-3000K-RA90-36D-WH IES.IES

Candela Tabulation - (Cont.)

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 94.0	3.22	3.18	3.21	3.19	3.19	3.25	1.57	1.51	1.51	1.59	1.59	1.61
γ 95.0	3.15	3.13	3.12	3.14	3.16	3.18	1.57	1.56	1.54	1.63	1.61	1.64
γ 96.0	3.12	3.08	3.06	3.08	3.12	3.12	1.61	1.60	1.59	1.66	1.63	1.65
γ 97.0	3.07	3.03	3.00	3.03	3.06	3.08	1.61	1.61	1.62	1.68	1.64	1.66
γ 98.0	2.99	2.96	2.93	2.96	2.99	3.02	1.67	1.64	1.61	1.70	1.69	1.67
γ 99.0	2.96	2.92	2.91	2.91	2.97	2.96	1.68	1.64	1.65	1.72	1.69	1.70
γ 100.0	2.91	2.87	2.87	2.87	2.92	2.92	1.71	1.66	1.67	1.73	1.72	1.72
γ 101.0	2.85	2.81	2.82	2.82	2.85	2.88	1.70	1.66	1.70	1.74	1.70	1.73
γ 102.0	2.81	2.75	2.78	2.78	2.80	2.84	1.74	1.67	1.71	1.75	1.74	1.73
γ 103.0	2.76	2.70	2.74	2.76	2.76	2.79	1.73	1.70	1.71	1.77	1.72	1.74
γ 104.0	2.71	2.68	2.73	2.73	2.72	2.74	1.75	1.73	1.74	1.78	1.72	1.75
γ 105.0	2.69	2.64	2.69	2.66	2.71	2.70	1.77	1.74	1.76	1.77	1.74	1.76
γ 106.0	2.65	2.61	2.61	2.63	2.68	2.68	1.76	1.75	1.76	1.78	1.75	1.77
γ 107.0	2.63	2.57	2.58	2.59	2.62	2.64	1.78	1.74	1.71	1.79	1.76	1.77
γ 108.0	2.59	2.54	2.57	2.55	2.57	2.60	1.76	1.73	1.77	1.80	1.76	1.76
γ 109.0	2.55	2.51	2.54	2.52	2.55	2.56	1.78	1.74	1.73	1.81	1.75	1.76
γ 110.0	2.54	2.50	2.52	2.49	2.53	2.54	1.77	1.76	1.74	1.80	1.77	1.78
γ 111.0	2.51	2.48	2.48	2.45	2.49	2.53	1.80	1.76	1.76	1.79	1.79	1.79
γ 112.0	2.47	2.43	2.45	2.42	2.46	2.49	1.80	1.75	1.77	1.80	1.77	1.79
γ 113.0	2.44	2.41	2.42	2.40	2.41	2.45	1.78	1.75	1.76	1.80	1.78	1.79
γ 114.0	2.44	2.38	2.39	2.39	2.41	2.42	1.80	1.76	1.79	1.81	1.80	1.80
γ 115.0	2.39	2.36	2.38	2.38	2.40	2.40	1.81	1.78	1.79	1.85	1.79	1.81
γ 116.0	2.37	2.35	2.33	2.36	2.38	2.39	1.82	1.79	1.79	1.86	1.82	1.81
γ 117.0	2.34	2.34	2.32	2.32	2.38	2.37	1.81	1.79	1.79	1.83	1.82	1.83
γ 118.0	2.32	2.31	2.33	2.30	2.33	2.35	1.80	1.80	1.79	1.83	1.83	1.83
γ 119.0	2.33	2.28	2.29	2.31	2.31	2.32	1.82	1.80	1.83	1.84	1.85	1.84
γ 120.0	2.27	2.26	2.27	2.30	2.29	2.31	1.85	1.81	1.82	1.85	1.83	1.86
γ 121.0	2.27	2.24	2.24	2.27	2.26	2.29	1.85	1.83	1.83	1.86	1.89	1.86
γ 122.0	2.26	2.22	2.25	2.25	2.26	2.27	1.86	1.83	1.84	1.85	1.87	1.86
γ 123.0	2.23	2.21	2.23	2.24	2.22	2.24	1.86	1.84	1.86	1.88	1.89	1.86
γ 124.0	2.24	2.19	2.21	2.22	2.22	2.23	1.86	1.85	1.82	1.90	1.87	1.86
γ 125.0	2.19	2.16	2.18	2.20	2.20	2.22	1.88	1.84	1.85	1.91	1.90	1.88
γ 126.0	2.19	2.15	2.17	2.19	2.18	2.20	1.88	1.86	1.85	1.90	1.86	1.88
γ 127.0	2.18	2.16	2.17	2.17	2.17	2.18	1.90	1.88	1.89	1.92	1.88	1.89
γ 128.0	2.17	2.16	2.16	2.16	2.16	2.18	1.88	1.89	1.87	1.91	1.88	1.91
γ 129.0	2.16	2.16	2.19	2.15	2.16	2.18	1.90	1.89	1.89	1.91	1.86	1.94
γ 130.0	2.15	2.14	2.18	2.14	2.17	2.16	1.90	1.88	1.88	1.91	1.87	1.95
γ 131.0	2.14	2.13	2.16	2.16	2.15	2.17	1.91	1.89	1.89	1.91	1.89	1.93
γ 132.0	2.16	2.15	2.16	2.15	2.15	2.17	1.91	1.91	1.89	1.93	1.90	1.94
γ 133.0	2.16	2.18	2.17	2.15	2.14	2.15	1.93	1.91	1.92	1.93	1.91	1.96
γ 134.0	2.16	2.17	2.18	2.16	2.16	2.16	1.94	1.91	1.94	1.93	1.93	1.97
γ 135.0	2.20	2.17	2.21	2.16	2.18	2.19	1.95	1.93	1.94	1.93	1.95	1.98
γ 136.0	2.23	2.20	2.22	2.18	2.18	2.21	1.96	1.93	1.95	1.95	1.99	1.99
γ 137.0	2.24	2.22	2.23	2.20	2.23	2.21	1.96	1.94	1.98	1.98	2.02	2.03
γ 138.0	2.29	2.25	2.26	2.23	2.24	2.24	2.01	1.96	2.01	2.01	2.05	2.05
γ 139.0	2.33	2.29	2.31	2.28	2.29	2.28	2.03	1.99	2.03	2.04	2.06	2.09
γ 140.0	2.37	2.34	2.35	2.32	2.30	2.31	2.06	2.03	2.04	2.07	2.08	2.13

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IES Indoor Report

Photometric Filename:AD10681-12W-3000K-RA90-36D-WH IES.IES

Candela Tabulation - (Cont.)

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 141.0	2.43	2.39	2.39	2.37	2.37	2.36	2.11	2.07	2.10	2.10	2.12	2.17
γ 142.0	2.47	2.45	2.44	2.41	2.42	2.42	2.11	2.10	2.15	2.15	2.19	2.22
γ 143.0	2.52	2.52	2.52	2.46	2.47	2.48	2.18	2.14	2.20	2.21	2.23	2.28
γ 144.0	2.57	2.59	2.59	2.53	2.53	2.54	2.24	2.20	2.24	2.28	2.26	2.31
γ 145.0	2.65	2.67	2.61	2.61	2.61	2.59	2.31	2.25	2.30	2.32	2.30	2.36
γ 146.0	2.73	2.74	2.70	2.67	2.65	2.64	2.36	2.32	2.34	2.36	2.38	2.42
γ 147.0	2.80	2.80	2.77	2.73	2.71	2.71	2.42	2.38	2.41	2.42	2.45	2.49
γ 148.0	2.89	2.87	2.87	2.81	2.80	2.78	2.50	2.43	2.48	2.49	2.53	2.55
γ 149.0	2.99	2.95	2.95	2.88	2.88	2.86	2.54	2.50	2.54	2.57	2.58	2.63
γ 150.0	3.07	3.02	3.01	2.97	2.97	2.95	2.59	2.58	2.63	2.65	2.70	2.73
γ 151.0	3.14	3.11	3.13	3.05	3.03	3.03	2.71	2.65	2.68	2.73	2.76	2.81
γ 152.0	3.23	3.19	3.17	3.14	3.13	3.09	2.76	2.73	2.76	2.81	2.82	2.89
γ 153.0	3.29	3.26	3.26	3.23	3.22	3.15	2.87	2.81	2.83	2.87	2.91	2.97
γ 154.0	3.36	3.33	3.36	3.33	3.27	3.24	2.92	2.89	2.92	2.93	2.99	3.06
γ 155.0	3.46	3.42	3.42	3.41	3.36	3.34	3.01	2.97	2.98	3.01	3.07	3.13
γ 156.0	3.52	3.51	3.49	3.47	3.43	3.40	3.05	3.06	3.07	3.08	3.17	3.21
γ 157.0	3.59	3.60	3.57	3.55	3.50	3.46	3.15	3.13	3.15	3.17	3.23	3.29
γ 158.0	3.66	3.65	3.63	3.61	3.59	3.55	3.24	3.21	3.20	3.26	3.29	3.35
γ 159.0	3.73	3.71	3.70	3.69	3.67	3.62	3.29	3.30	3.28	3.33	3.39	3.41
γ 160.0	3.78	3.77	3.76	3.76	3.73	3.68	3.38	3.38	3.36	3.41	3.44	3.49
γ 161.0	3.82	3.82	3.81	3.80	3.80	3.74	3.45	3.43	3.43	3.46	3.52	3.55
γ 162.0	3.88	3.88	3.87	3.85	3.86	3.78	3.51	3.48	3.49	3.52	3.58	3.59
γ 163.0	3.92	3.93	3.91	3.89	3.91	3.83	3.58	3.56	3.53	3.59	3.63	3.64
γ 164.0	3.94	3.98	3.95	3.93	3.94	3.87	3.63	3.64	3.62	3.64	3.68	3.69
γ 165.0	3.97	4.01	3.96	3.97	4.00	3.90	3.70	3.68	3.67	3.71	3.73	3.73
γ 166.0	4.02	4.03	4.03	4.01	3.98	3.94	3.72	3.72	3.73	3.74	3.77	3.77
γ 167.0	4.03	4.04	4.02	4.05	4.01	3.97	3.73	3.77	3.78	3.77	3.84	3.81
γ 168.0	4.04	4.04	4.05	4.09	4.03	4.00	3.80	3.80	3.78	3.82	3.88	3.84
γ 169.0	4.06	4.07	4.09	4.10	4.06	4.03	3.85	3.86	3.84	3.86	3.90	3.87
γ 170.0	4.05	4.10	4.10	4.09	4.08	4.06	3.88	3.91	3.88	3.90	3.94	3.90
γ 171.0	4.09	4.11	4.08	4.09	4.09	4.08	3.92	3.94	3.91	3.91	3.96	3.95
γ 172.0	4.08	4.11	4.13	4.09	4.13	4.08	3.94	3.96	3.92	3.94	4.01	3.99
γ 173.0	4.11	4.12	4.14	4.11	4.14	4.10	3.97	3.99	3.95	3.99	4.02	4.00
γ 174.0	4.11	4.14	4.15	4.13	4.13	4.14	3.98	4.02	3.97	4.02	4.03	4.02
γ 175.0	4.13	4.14	4.13	4.13	4.13	4.14	4.02	4.05	3.99	4.03	4.06	4.04
γ 176.0	4.14	4.15	4.17	4.13	4.13	4.13	4.04	4.08	4.02	4.04	4.06	4.06
γ 177.0	4.13	4.16	4.14	4.14	4.14	4.14	4.07	4.10	4.05	4.08	4.08	4.08
γ 178.0	4.16	4.16	4.16	4.15	4.15	4.14	4.10	4.12	4.07	4.10	4.11	4.09
γ 179.0	4.14	4.17	4.11	4.17	4.15	4.13	4.12	4.13	4.09	4.12	4.11	4.11
γ 180.0	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13