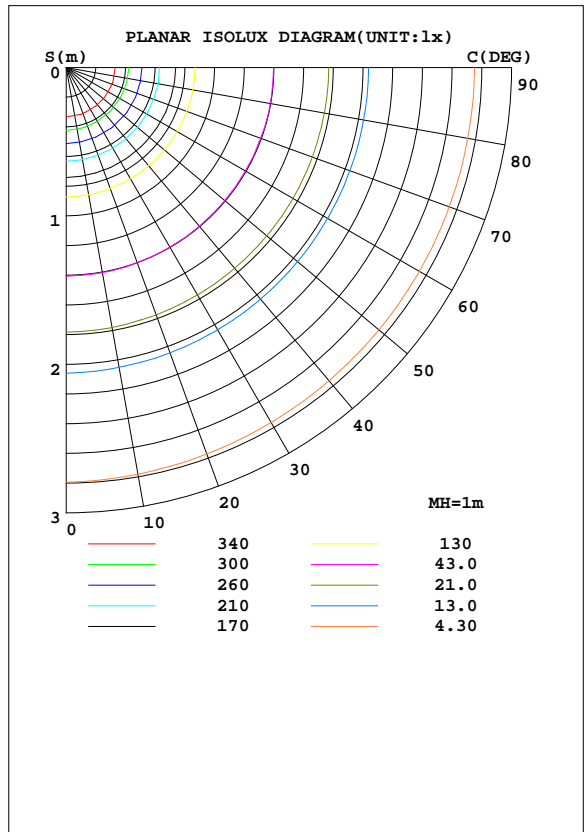
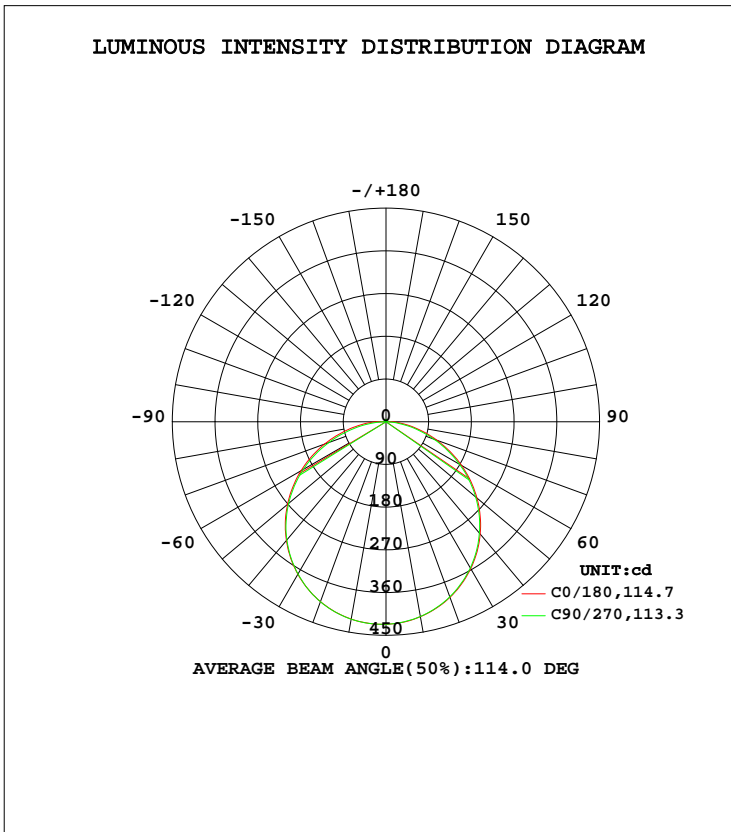


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.3V I:0.1320A P:16.50W PF:0.5400 Lamp Flux:1270.11x1 lm		
NAME: 吸顶灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:3.14*0.13*0.13	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.98 lm/W			
MODEL		I _{max} (cd)	427.1	S/MH(C0/180)	1.29
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1270.1	η UP, DN(C0-180)	0.8,47.5
NOMINAL FLUX(lm)	1270.11	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.7,51.0
LAMPS INSIDE	1	η up(%)	1.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	98.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	417.1	416.0	416.6	419.3	422.1	423.2	422.4	419.6	0- 10	40.39	40.39	3.18,3.18
20	393.8	391.5	392.7	398.1	403.5	405.6	403.6	398.2	10- 20	115.9	156.3	12.3,12.3
30	357.2	354.1	355.4	363.4	371.2	374.0	370.7	363.3	20- 30	176.4	332.7	26.2,26.2
40	308.8	304.6	306.1	316.3	326.6	329.6	325.0	315.9	30- 40	213.7	546.3	43,43
50	250.2	245.2	246.5	258.5	271.0	273.6	267.7	257.5	40- 50	222.8	769.1	60.6,60.6
60	183.8	178.4	178.8	192.9	207.0	208.2	201.3	190.5	50- 60	202.4	971.5	76.5,76.5
70	114.2	108.0	107.6	122.4	137.8	136.7	128.2	118.9	60- 70	155.7	1127	88.7,88.7
80	52.28	44.73	41.20	55.04	70.86	66.22	56.10	52.69	70- 80	92.25	1219	96,96
90	13.23	6.975	1.269	7.459	20.85	9.296	2.367	7.922	80- 90	31.43	1251	98.5,98.5
100	2.677	1.438	1.269	1.297	1.226	1.082	1.194	1.383	90-100	3.304	1254	98.7,98.7
110	2.021	2.069	1.952	2.025	2.086	1.894	1.788	1.935	100-110	1.740	1256	98.9,98.9
120	2.703	2.770	2.742	2.664	2.544	2.466	2.526	2.612	110-120	2.292	1258	99.1,99.1
130	3.321	3.388	3.315	3.287	3.224	3.103	3.164	3.260	120-130	2.643	1261	99.3,99.3
140	3.900	3.982	3.882	3.883	3.836	3.719	3.781	3.870	130-140	2.750	1264	99.5,99.5
150	4.388	4.433	4.392	4.316	4.338	4.205	4.287	4.326	140-150	2.572	1266	99.7,99.7
160	4.799	4.851	4.788	4.749	4.742	4.635	4.712	4.726	150-160	2.098	1268	99.9,99.9
170	5.061	5.149	5.098	5.084	5.080	5.047	5.094	5.105	160-170	1.393	1270	100,100
180	5.222	5.280	5.240	5.276	5.232	5.276	5.265	5.272	170-180	0.4926	1270	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 658.44 lm

%lum = 51.8%

%lamp = 51.8%

Conical surface Flux(120deg): 971.49 lm

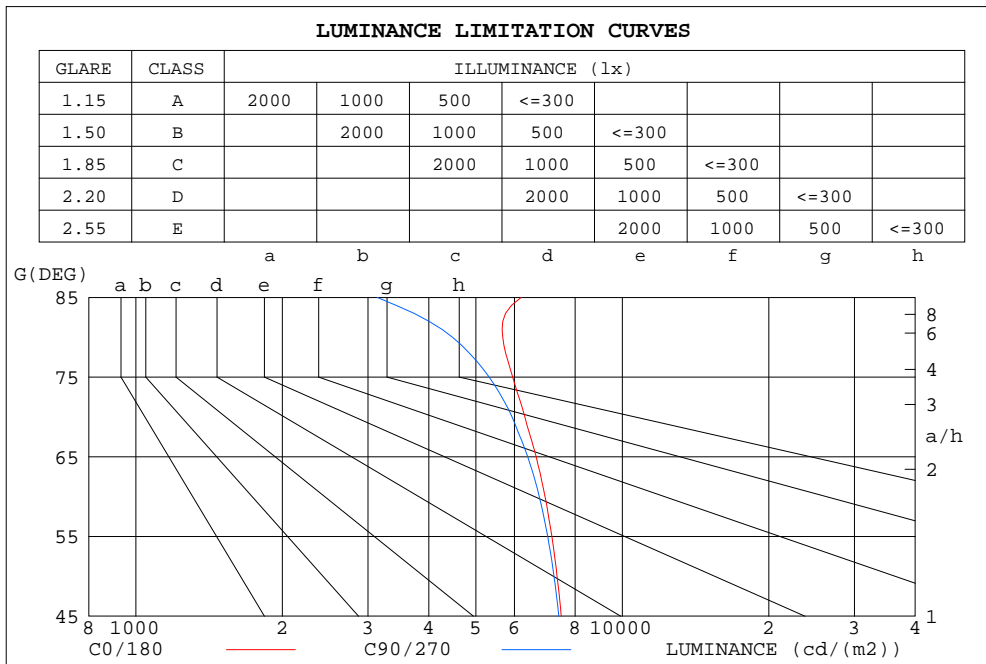
%lum = 76.5%

%lamp = 76.5%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



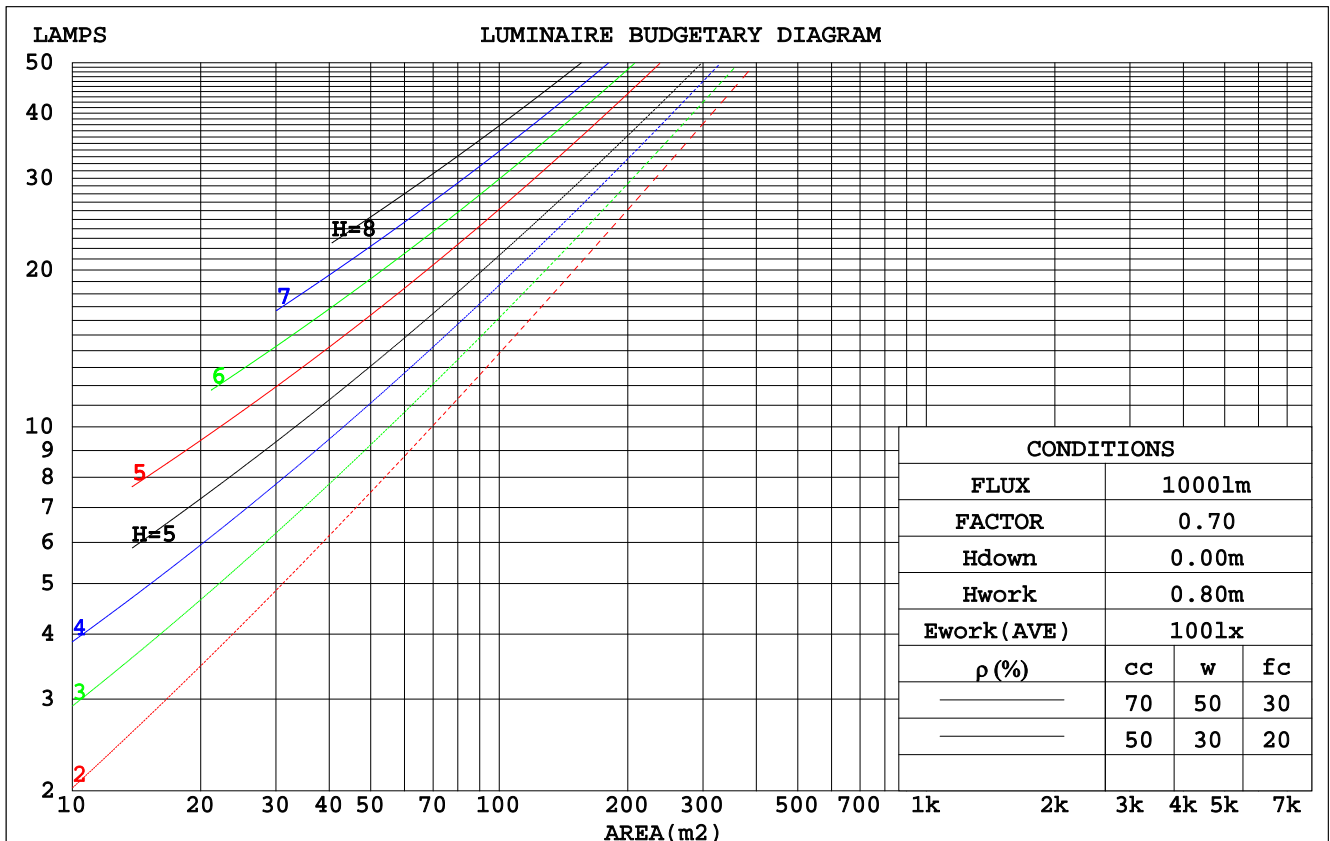
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6197	3135
80	5680	4476
75	5950	5326
70	6302	5935
65	6651	6392
60	6935	6748
55	7163	7023
50	7343	7236
45	7489	7405

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.98
1.0	1.03	.99	.95	1.01	.97	.93	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.69	.61	.54	.68	.60	.53	.65	.58	.52	.63	.57	.51	.60	.55	.51	.48
5.0	.62	.53	.46	.61	.52	.46	.58	.51	.45	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.36
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.34	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

WEC AND CCEC

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.318	.181	.057	.310	.177	.056	.296	.170	.054	.283	.163	.052	.271	.157	.051	
2.0	.296	.162	.050	.290	.160	.049	.277	.154	.048	.266	.149	.047	.255	.144	.045	
3.0	.273	.145	.044	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040	
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.029	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.182	.093	.027	.176	.091	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.086	.025	.165	.085	.025	
9.0	.175	.084	.024	.172	.084	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.151	.075	.021	.147	.074	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.202	.202	.202	.173	.173	.173	.118	.118	.118	.068	.068	.068	.022	.022	.022	
1.0	.193	.168	.145	.165	.144	.125	.113	.099	.087	.065	.057	.050	.021	.018	.016	
2.0	.185	.144	.109	.158	.124	.094	.108	.086	.066	.062	.050	.039	.020	.016	.013	
3.0	.177	.126	.086	.152	.109	.074	.104	.076	.052	.060	.044	.031	.019	.014	.010	
4.0	.169	.113	.070	.145	.098	.061	.100	.068	.043	.058	.040	.025	.019	.013	.008	
5.0	.162	.103	.059	.139	.089	.051	.096	.062	.036	.055	.036	.021	.018	.012	.007	
6.0	.155	.094	.051	.133	.082	.044	.092	.057	.031	.053	.034	.019	.017	.011	.006	
7.0	.148	.087	.045	.127	.076	.039	.088	.053	.028	.051	.031	.017	.016	.010	.005	
8.0	.141	.082	.041	.122	.071	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
9.0	.135	.077	.037	.116	.067	.032	.081	.047	.023	.047	.028	.014	.015	.009	.005	
10.0	.129	.072	.034	.112	.063	.030	.077	.044	.021	.045	.026	.013	.015	.009	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.4	20.9	19.7	21.2	21.4	19.3	20.8	19.6	21.1	21.3
3H	20.9	22.3	21.2	22.6	22.8	20.7	22.1	21.1	22.4	22.7
4H	21.5	22.8	21.9	23.1	23.4	21.3	22.6	21.6	22.9	23.2
6H	22.0	23.2	22.3	23.5	23.9	21.6	22.9	22.0	23.2	23.5
8H	22.2	23.4	22.5	23.7	24.0	21.7	22.9	22.1	23.2	23.6
12H	22.3	23.5	22.7	23.8	24.1	21.7	22.9	22.1	23.2	23.6
4H 2H	20.0	21.3	20.3	21.6	21.9	19.9	21.2	20.2	21.5	21.8
3H	21.6	22.8	22.0	23.1	23.5	21.5	22.7	21.9	23.0	23.3
4H	22.4	23.4	22.8	23.8	24.2	22.2	23.2	22.6	23.6	23.9
6H	23.0	23.9	23.4	24.3	24.7	22.6	23.6	23.0	24.0	24.4
8H	23.2	24.1	23.6	24.5	24.9	22.8	23.6	23.2	24.0	24.5
12H	23.4	24.2	23.9	24.7	25.1	22.8	23.6	23.3	24.1	24.5
8H 4H	22.6	23.5	23.0	23.9	24.3	22.4	23.3	22.8	23.7	24.1
6H	23.3	24.1	23.8	24.5	25.0	23.0	23.7	23.5	24.2	24.6
8H	23.7	24.3	24.2	24.8	25.3	23.2	23.9	23.7	24.3	24.8
12H	24.0	24.6	24.5	25.0	25.5	23.4	23.9	23.9	24.4	24.9
12H 4H	22.6	23.4	23.0	23.8	24.3	22.4	23.2	22.9	23.6	24.1
6H	23.4	24.0	23.9	24.5	25.0	23.1	23.7	23.6	24.2	24.7
8H	23.8	24.3	24.3	24.8	25.3	23.3	23.9	23.8	24.4	24.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1270 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.8)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

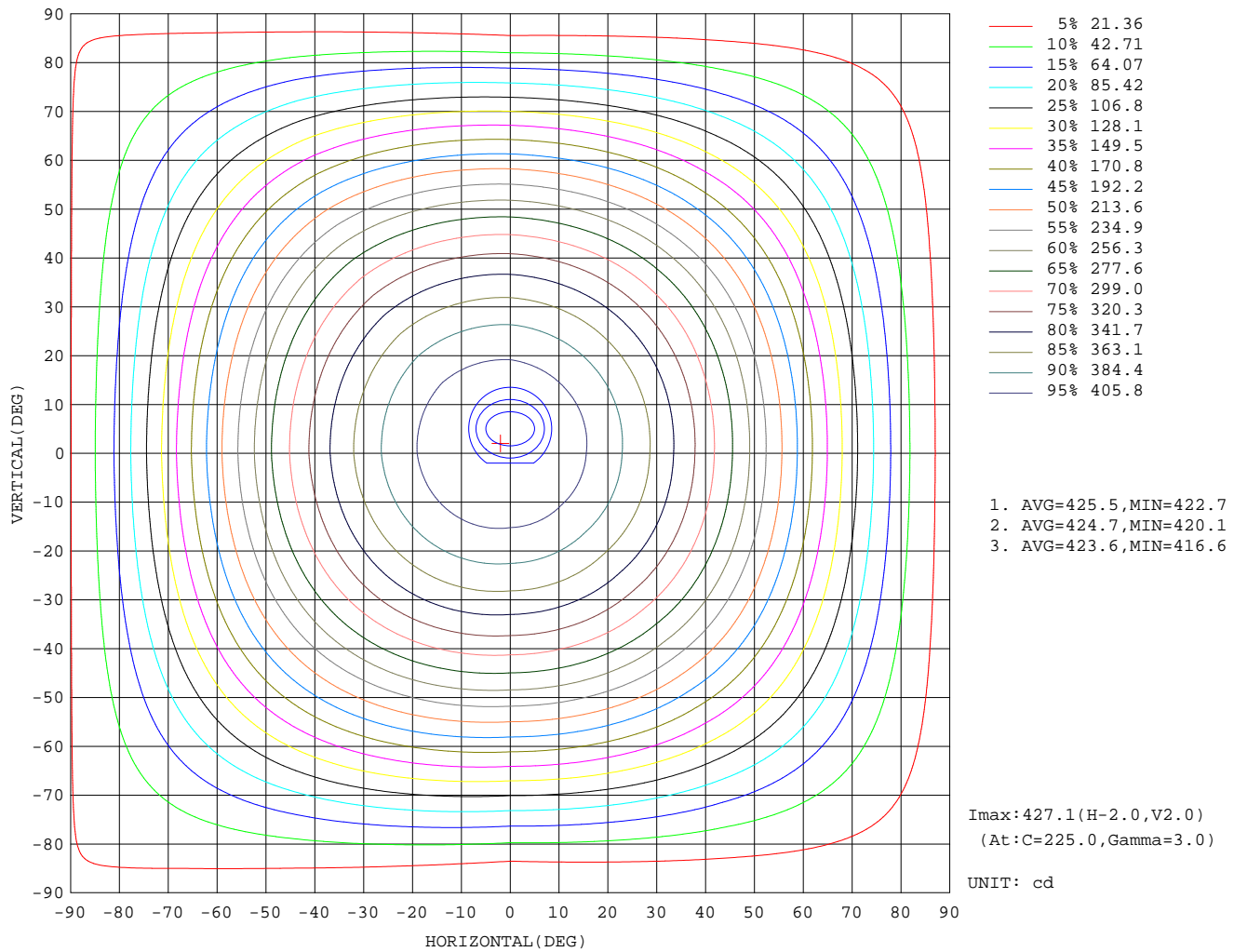
UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	56	74	63	56	71	64	55	48
1.25	82	71	64	80	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	92	86	81	72
3.00	101	94	89	99	93	87	95	89	85	76
4.00	105	100	95	103	98	93	98	94	90	81
5.00	108	103	99	105	101	97	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

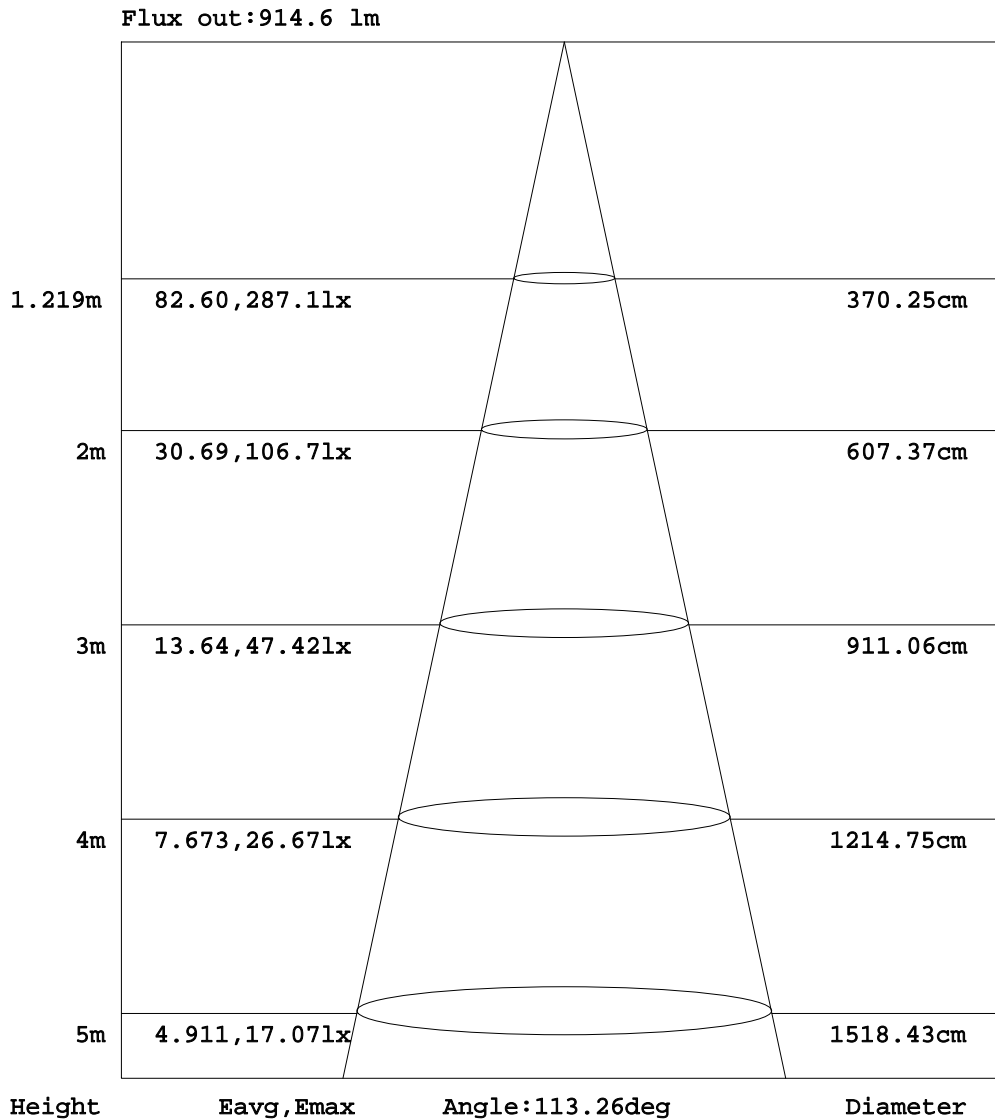
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

AAI Figure

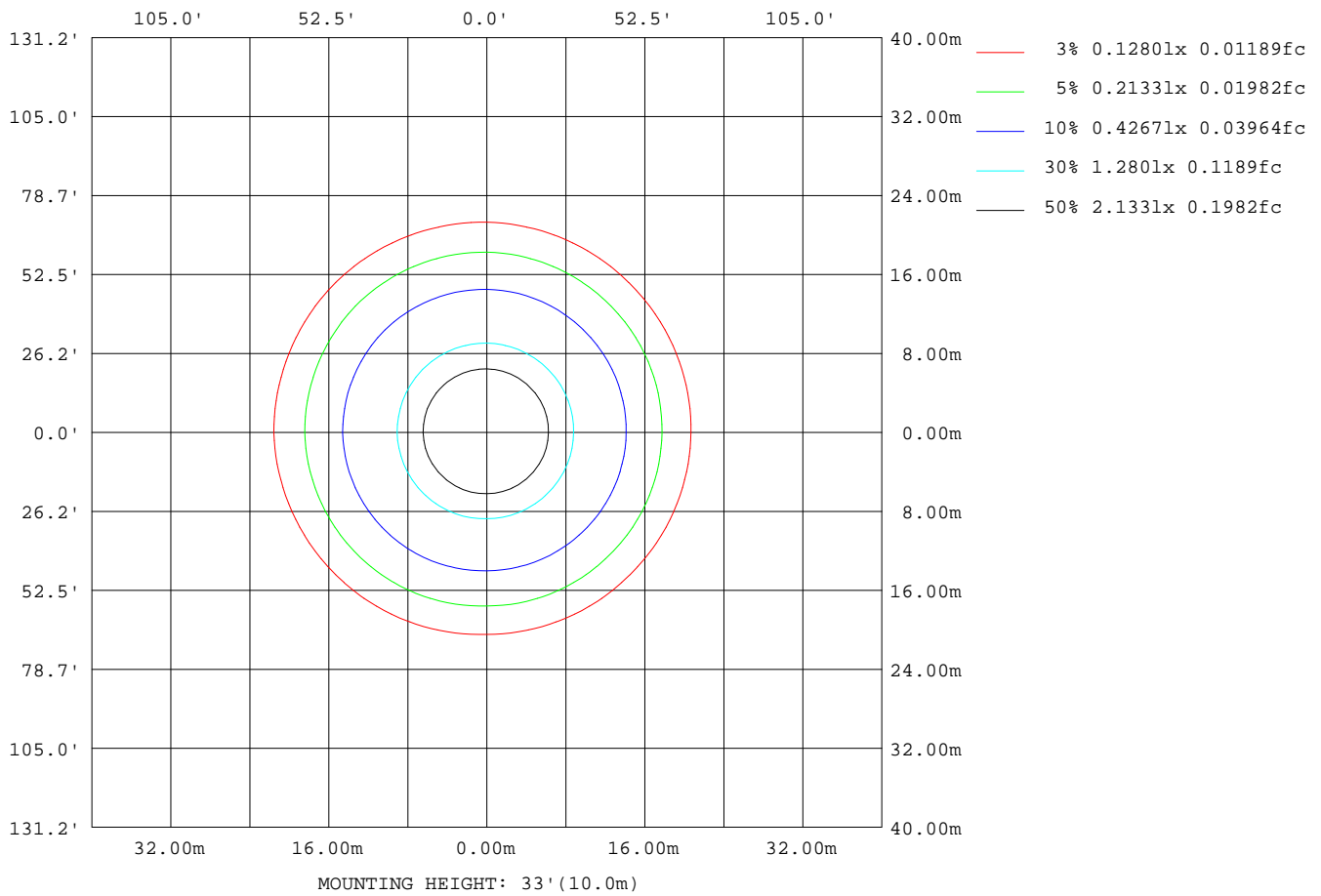


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.3V I:0.1320A P:16.50W PF:0.5400 Lamp Flux:1270.11x1 lm		
NAME: 吸顶灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:3.14*0.13*0.13	Shielding Angle:

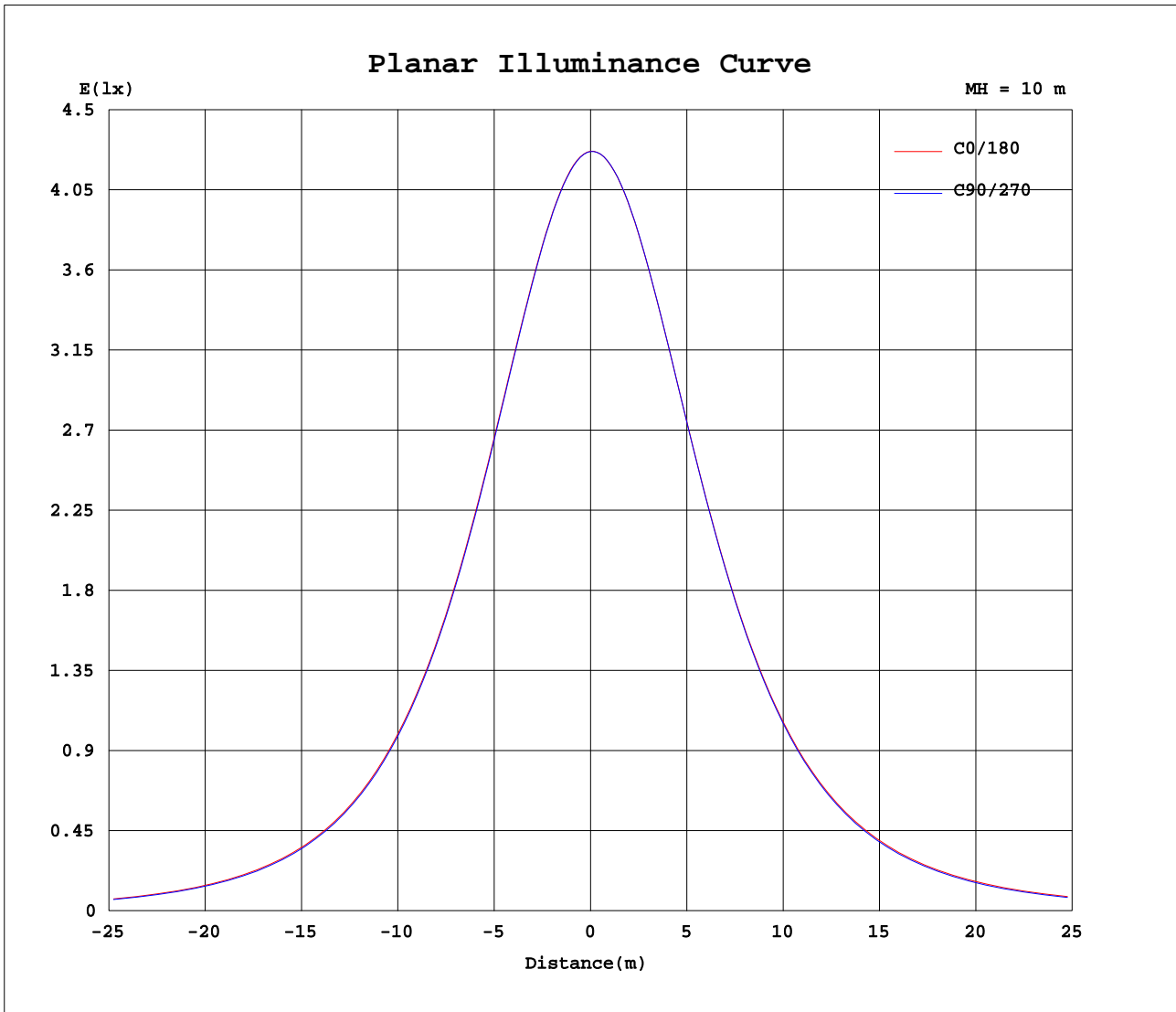
AvgL	cd/m2
L_0~180(65)av	7180
L_0~180(75)av	6734
L_0~180(85)av	7703
L_90~270(65)av	6885
L_90~270(75)av	5989
L_90~270(85)av	4195
L_45(65)av	7018
L_45(75)av	6328
L_45(85)av	5903

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 16 June 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity: 65.0%
 Test Distance: 7.640m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

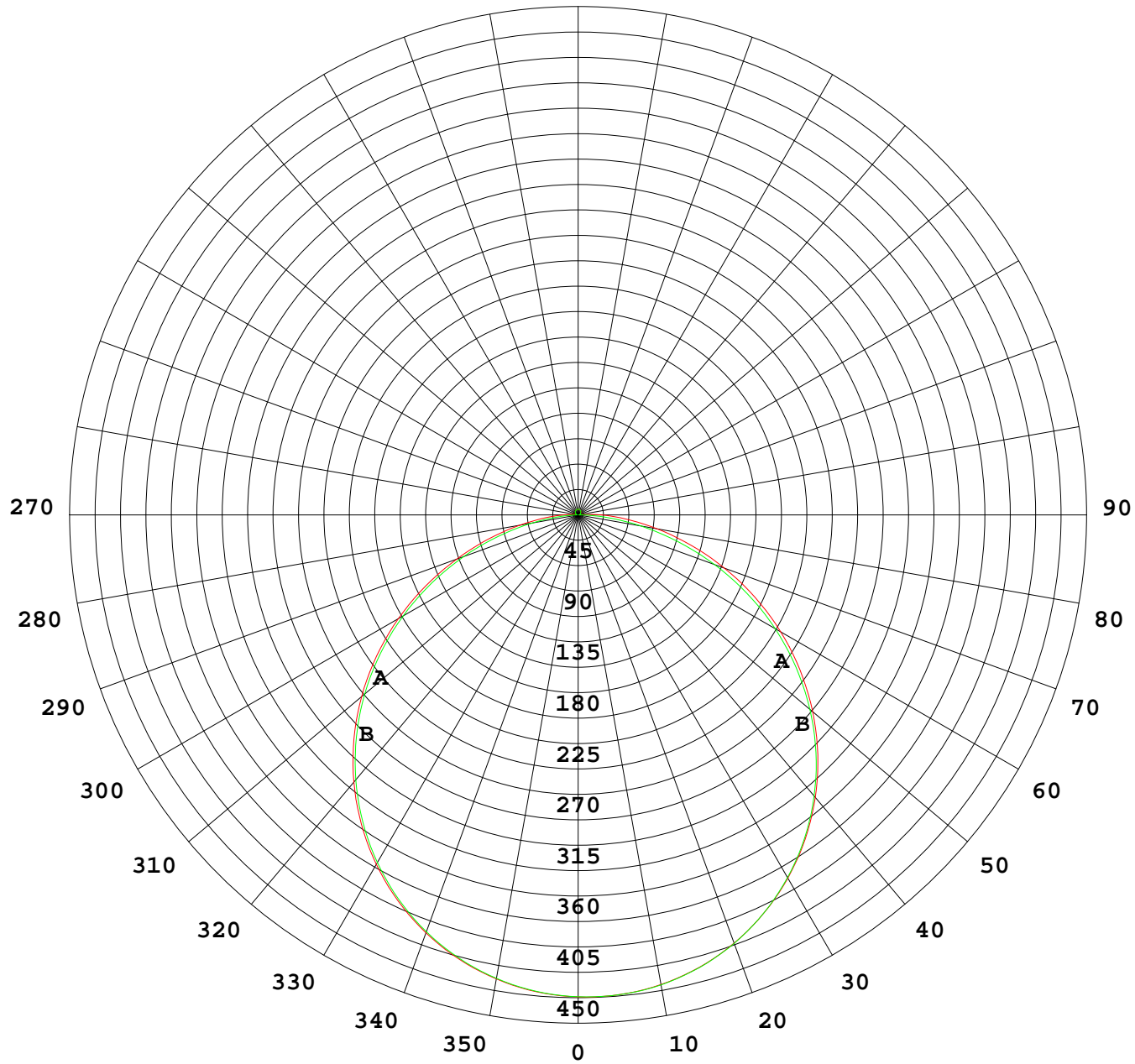
UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	427	427	427	427	427	427	427	427											
5	424	423	423	425	426	427	426	425											
10	417	416	417	419	422	423	422	420											
15	407	405	406	410	415	416	415	411											
20	394	391	393	398	403	406	404	398											
25	377	374	376	382	389	392	389	382											
30	357	354	355	363	371	374	371	363											
35	334	331	332	341	350	353	349	341											
40	309	305	306	316	327	330	325	316											
45	281	276	278	289	300	303	298	288											
50	250	245	247	258	271	274	268	258											
55	218	213	214	227	240	242	235	225											
60	184	178	179	193	207	208	201	190											
65	149	143	143	158	173	173	165	155											
70	114	108	108	122	138	137	128	119											
75	81.6	74.6	73.1	87.2	103	101	91.3	84.6											
80	52.3	44.7	41.2	55.0	70.9	66.2	56.1	52.7											
85	28.6	21.1	14.5	27.8	42.5	34.5	24.3	25.7											
90	13.2	6.97	1.27	7.46	20.9	9.30	2.37	7.92											
95	5.97	1.67	1.02	0.92	2.56	0.84	1.00	2.18											
100	2.68	1.44	1.27	1.30	1.23	1.08	1.19	1.38											
105	1.78	1.70	1.57	1.68	1.71	1.56	1.45	1.54											
110	2.02	2.07	1.95	2.02	2.09	1.89	1.79	1.94											
115	2.37	2.44	2.36	2.35	2.34	2.22	2.17	2.33											
120	2.70	2.77	2.74	2.66	2.54	2.47	2.53	2.61											
125	3.01	3.09	3.09	2.99	2.89	2.78	2.88	2.95											
130	3.32	3.39	3.31	3.29	3.22	3.10	3.16	3.26											
135	3.61	3.69	3.58	3.60	3.54	3.42	3.47	3.58											
140	3.90	3.98	3.88	3.88	3.84	3.72	3.78	3.87											
145	4.15	4.20	4.17	4.09	4.11	3.98	4.07	4.11											
150	4.39	4.43	4.39	4.32	4.34	4.21	4.29	4.33											
155	4.61	4.64	4.59	4.53	4.55	4.43	4.49	4.54											
160	4.80	4.85	4.79	4.75	4.74	4.63	4.71	4.73											
165	4.96	5.01	4.96	4.93	4.95	4.87	4.93	4.95											
170	5.06	5.15	5.10	5.08	5.08	5.05	5.09	5.10											
175	5.16	5.26	5.20	5.21	5.19	5.17	5.20	5.22											
180	5.22	5.28	5.24	5.28	5.23	5.28	5.27	5.27											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:16 June 2023

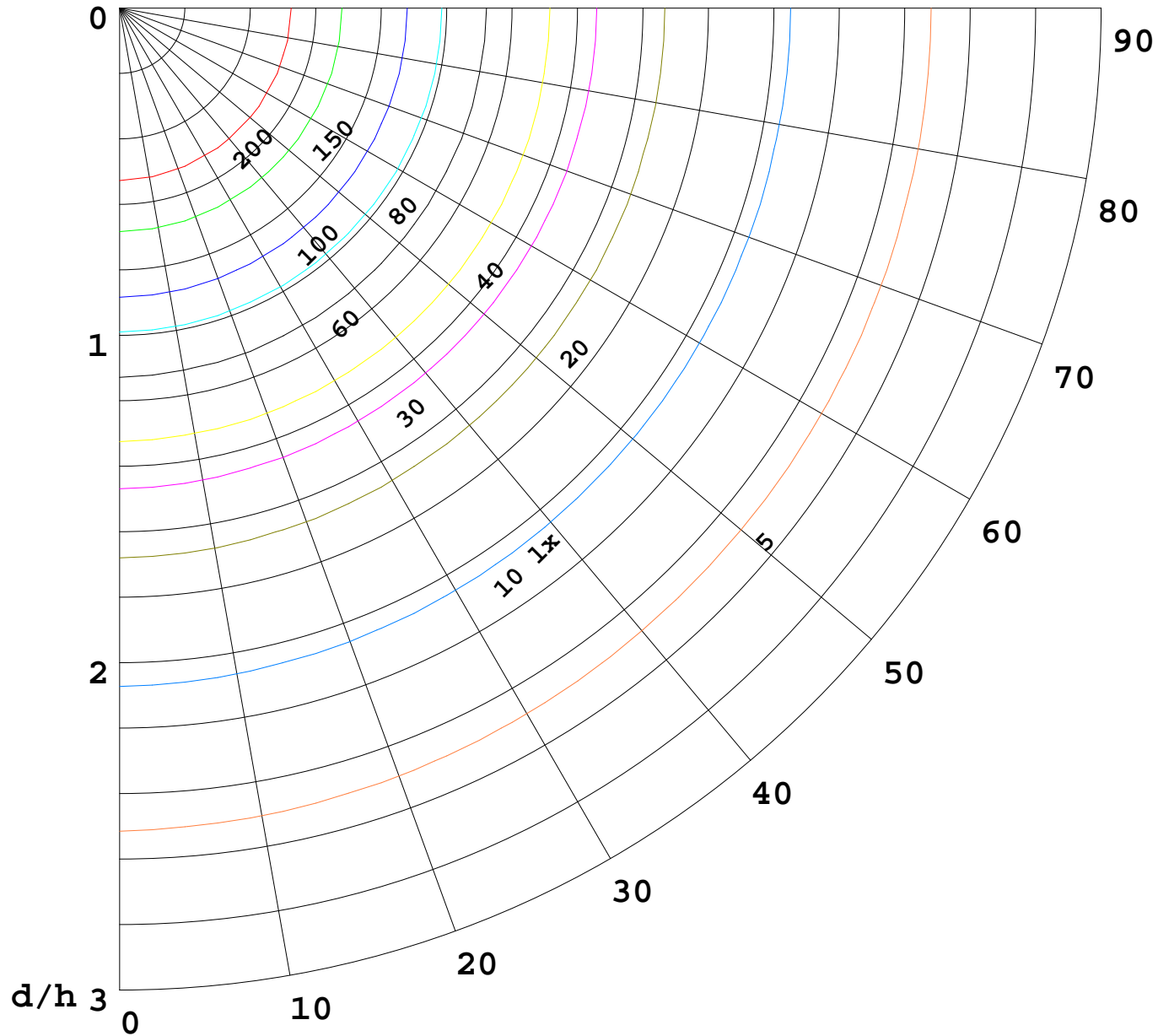
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:7.640m [K=1.0000]
 Remarks:

I(cd)



1000 lm

$K = 1$



F = 1000 lm
K = 0.7
Hcc = 0.8 m
Hfc = 0.0 m
Eave = 100 lx

	Pcc	Pw	Pfc
—————	70	50	30
—————	50	30	20

