

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	747.1	745.0	741.7	742.7	748.0	748.7	749.1	749.8	0- 10	72.03	72.03	3.3,3.3
20	714.8	704.8	687.7	699.8	717.1	708.2	704.4	709.9	10- 20	206.0	278.0	12.7,12.7
30	657.5	637.8	610.4	633.4	661.0	646.3	629.6	643.4	20- 30	311.6	589.6	27,27
40	582.6	545.5	516.0	544.3	583.2	558.7	535.6	559.4	30- 40	374.9	964.5	44.1,44.1
50	484.5	442.8	403.5	437.6	486.1	454.9	425.5	455.1	40- 50	388.3	1353	61.9,61.9
60	373.1	324.1	281.4	318.9	371.8	337.0	307.1	338.8	50- 60	350.1	1703	77.9,77.9
70	249.4	199.6	158.1	193.5	246.1	210.1	180.0	213.5	60- 70	266.2	1969	90.1,90.1
80	131.4	85.39	48.43	81.80	127.2	93.79	65.59	98.83	70- 80	154.6	2124	97.2,97.2
90	38.48	12.31	0.1275	13.59	39.36	17.86	0.4658	21.14	80- 90	54.67	2178	99.7,99.7
100	2.014	0.2397	0.2134	0.2430	1.171	0.1428	0.1154	0.1398	90-100	4.002	2182	99.9,99.9
110	0.3083	0.3136	0.2931	0.3292	0.2253	0.2206	0.1761	0.2127	100-110	0.2497	2183	99.9,99.9
120	0.4196	0.4205	0.4002	0.4206	0.3554	0.3701	0.3462	0.3390	110-120	0.3128	2183	99.9,99.9
130	0.5493	0.5533	0.5486	0.5381	0.5355	0.5822	0.5758	0.5204	120-130	0.4178	2183	99.9,99.9
140	0.6136	0.6214	0.6357	0.6167	0.6975	0.7667	0.7469	0.7075	130-140	0.4865	2184	100,100
150	0.6810	0.6740	0.7247	0.7003	0.7650	0.8011	0.7355	0.7456	140-150	0.4447	2184	100,100
160	0.7349	0.7263	0.7627	0.7828	0.7614	0.7980	0.7444	0.7270	150-160	0.3447	2185	100,100
170	0.8145	0.8469	0.9086	0.8624	0.7192	0.7781	0.7404	0.6962	160-170	0.2160	2185	100,100
180	0.8592	0.8995	0.9501	0.8617	0.8607	0.9080	0.9479	0.8702	170-180	0.0800	2185	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1160.3 lm

%lum = 53.1%

%lamp = 53.1%

Conical surface Flux(120deg): 1702.9 lm

%lum = 77.9%

%lamp = 77.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-11-21

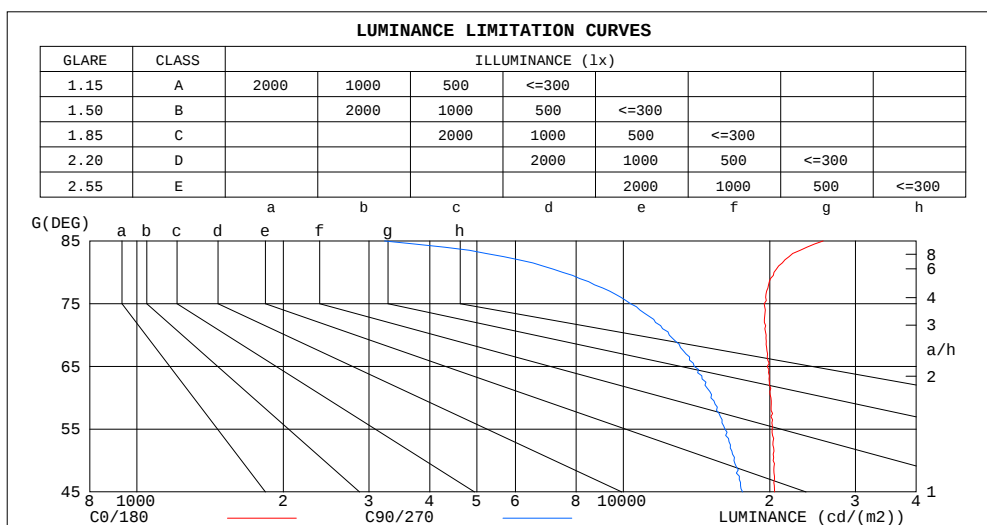
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.678m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	25748	3230
80	20407	7502
75	19481	10347
70	19656	12432
65	19763	13994
60	20118	15137
55	20237	16179
50	20320	16883
45	20465	17591

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 Test Speed: HIGH
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 Operators: Wilson
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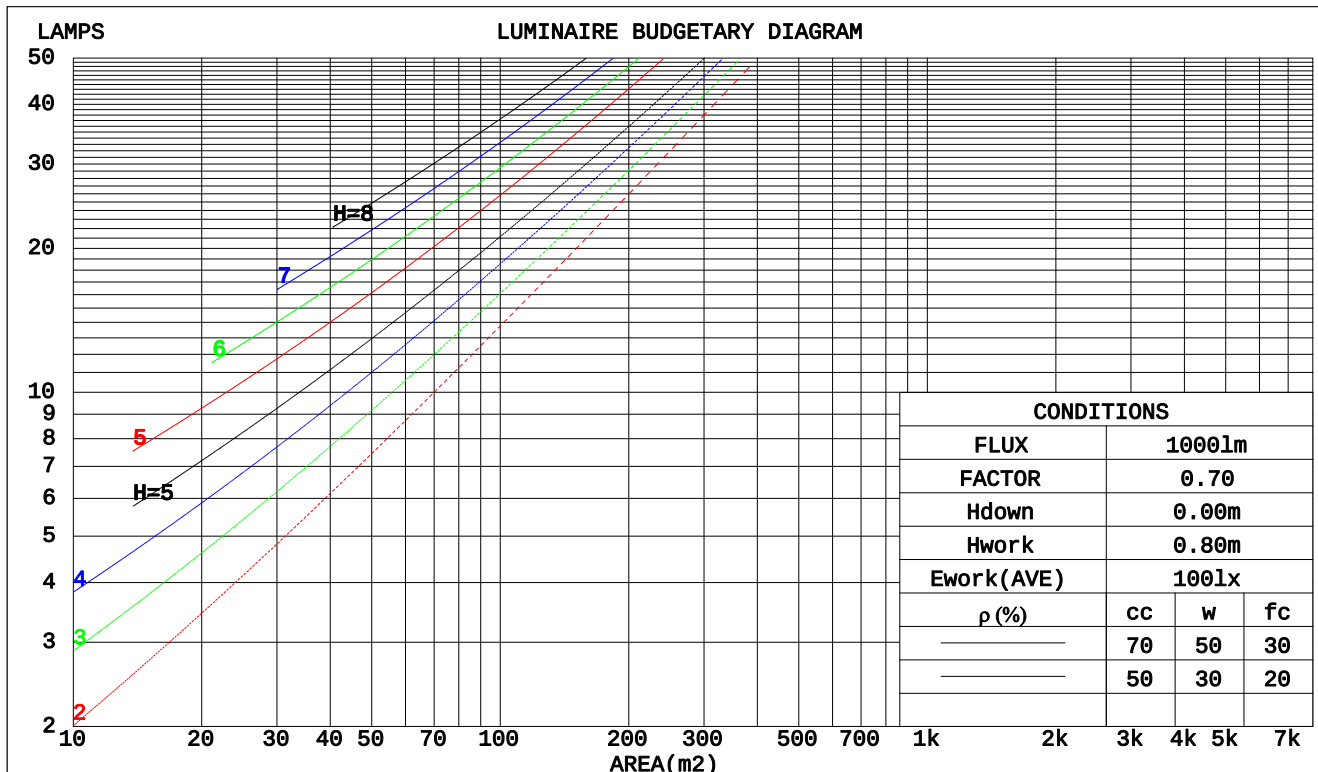
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Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.03	.99	.95	1.01	.97	.94	.97	.94	.90	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 22.5DEG
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 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.678m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

WEC AND CCEC

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm											
NAME:				TYPE:				WEIGHT:			
SPEC.:				DIM.:				SERIAL No.:			
MFR.:				SUR.:				Shielding Angle:			

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	.316	.180	.057	.309	.176	.056	.296	.170	.054	.283	.163	.052	.272	.158	.051	
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046	
3.0	.272	.145	.043	.266	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.246	.128	.038	.236	.125	.037	.228	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.075	.021	.148	.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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.183	.158	.136	.157	.136	.117	.107	.094	.081	.062	.054	.047	.020	.017	.015	
2.0	.175	.134	.100	.150	.116	.086	.103	.080	.060	.059	.046	.035	.019	.015	.012	
3.0	.167	.117	.076	.143	.101	.066	.098	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.160	.103	.060	.137	.089	.053	.094	.062	.037	.054	.036	.022	.018	.012	.007	
5.0	.152	.093	.049	.131	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.041	.124	.073	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005	
7.0	.138	.078	.035	.119	.067	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.131	.072	.031	.113	.062	.027	.078	.044	.019	.046	.026	.011	.015	.008	.004	
9.0	.125	.067	.028	.108	.058	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.063	.025	.103	.054	.022	.072	.038	.015	.042	.023	.009	.014	.007	.003	

C Range: 0 - 360DEG
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 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.678m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UGR(Unified Glare Rating) Table

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:			Shielding Angle:			
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	2H	23.4	24.9	23.7	25.1	25.3	22.3	23.8	22.6	24.0	24.2
	3H	25.1	26.5	25.4	26.8	27.0	23.5	24.9	23.8	25.2	25.4
	4H	25.9	27.2	26.2	27.5	27.8	23.9	25.3	24.2	25.5	25.8
	6H	26.6	27.8	26.9	28.1	28.4	24.1	25.4	24.5	25.7	26.0
	8H	26.9	28.1	27.2	28.4	28.7	24.2	25.4	24.5	25.7	26.0
	12H	27.2	28.3	27.5	28.6	28.9	24.1	25.3	24.5	25.6	25.9
4H	2H	23.9	25.2	24.2	25.5	25.7	23.0	24.4	23.3	24.6	24.9
	3H	25.8	27.0	26.2	27.3	27.6	24.4	25.6	24.8	25.9	26.2
	4H	26.7	27.8	27.1	28.1	28.5	24.9	26.0	25.3	26.3	26.7
	6H	27.5	28.5	27.9	28.9	29.2	25.2	26.2	25.6	26.5	26.9
	8H	27.9	28.8	28.3	29.2	29.6	25.3	26.2	25.7	26.5	26.9
	12H	28.3	29.1	28.7	29.5	29.9	25.3	26.1	25.7	26.5	26.9
8H	4H	26.9	27.8	27.3	28.1	28.5	25.3	26.2	25.7	26.6	27.0
	6H	27.9	28.6	28.3	29.0	29.5	25.7	26.5	26.2	26.9	27.3
	8H	28.4	29.1	28.9	29.5	29.9	25.8	26.5	26.3	26.9	27.4
	12H	28.9	29.5	29.4	30.0	30.4	25.9	26.5	26.4	26.9	27.4
12H	4H	26.9	27.7	27.3	28.1	28.5	25.4	26.2	25.8	26.6	27.0
	6H	27.9	28.6	28.4	29.0	29.5	25.9	26.5	26.3	26.9	27.4
	8H	28.5	29.0	29.0	29.5	30.0	26.0	26.6	26.5	27.0	27.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117, 2185 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.7$)
 Area: 0.0372 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-11-21

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.678m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UTILIZATION FACTORS TABLE

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

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	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	84	92	86	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

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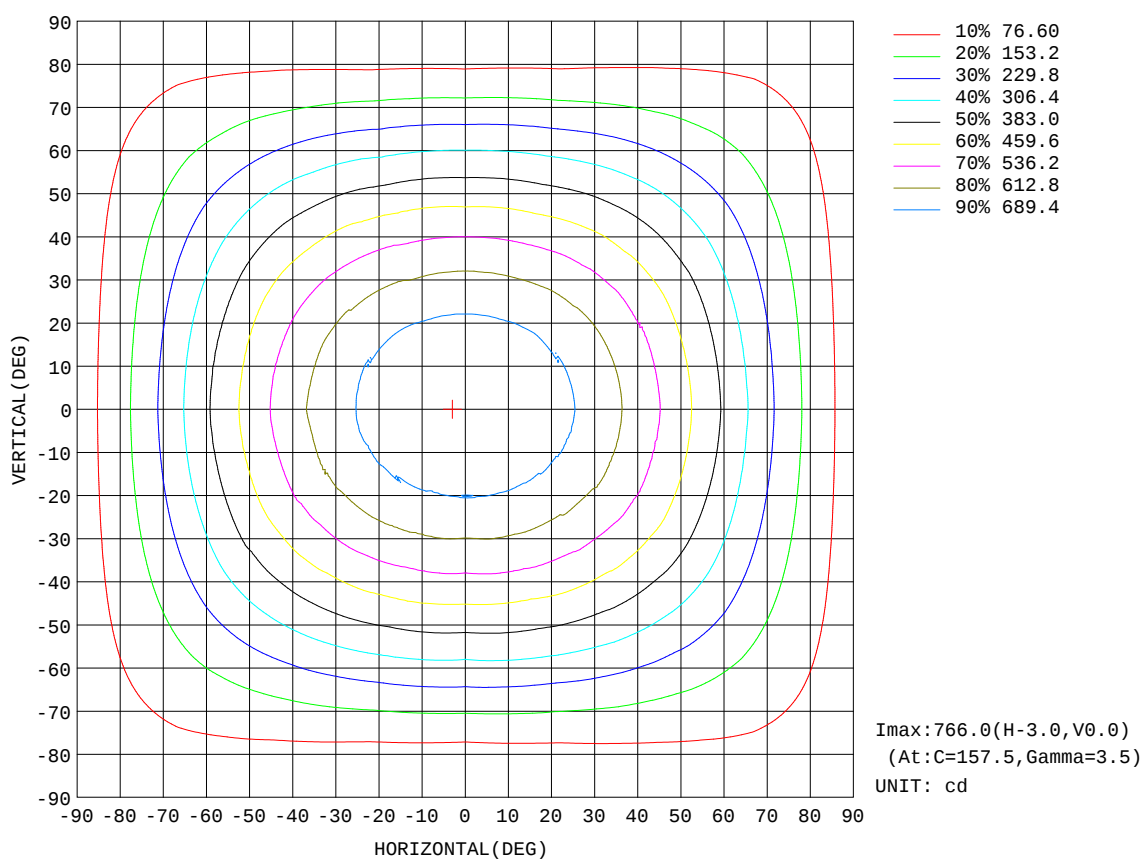
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ISOCANDELA DIAGRAM

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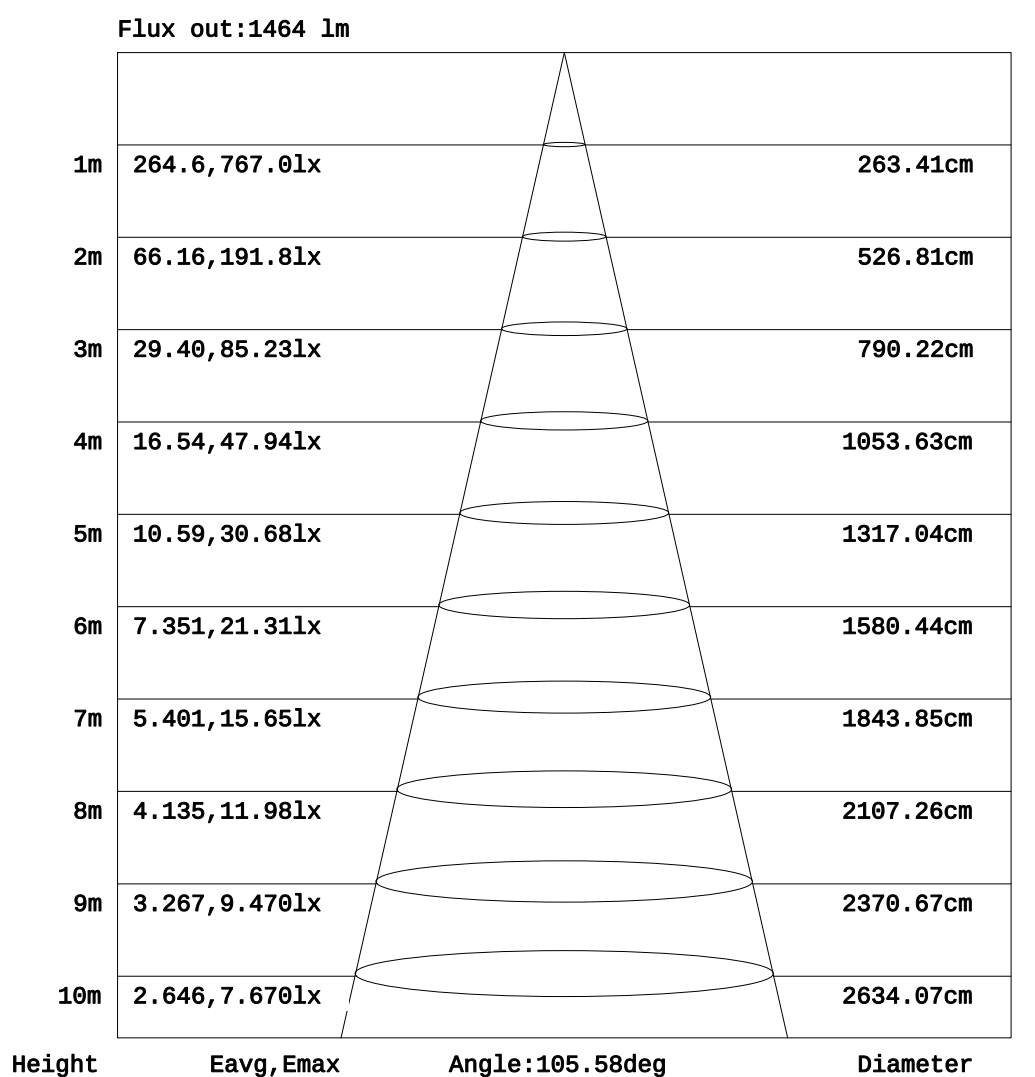
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AAI Figure

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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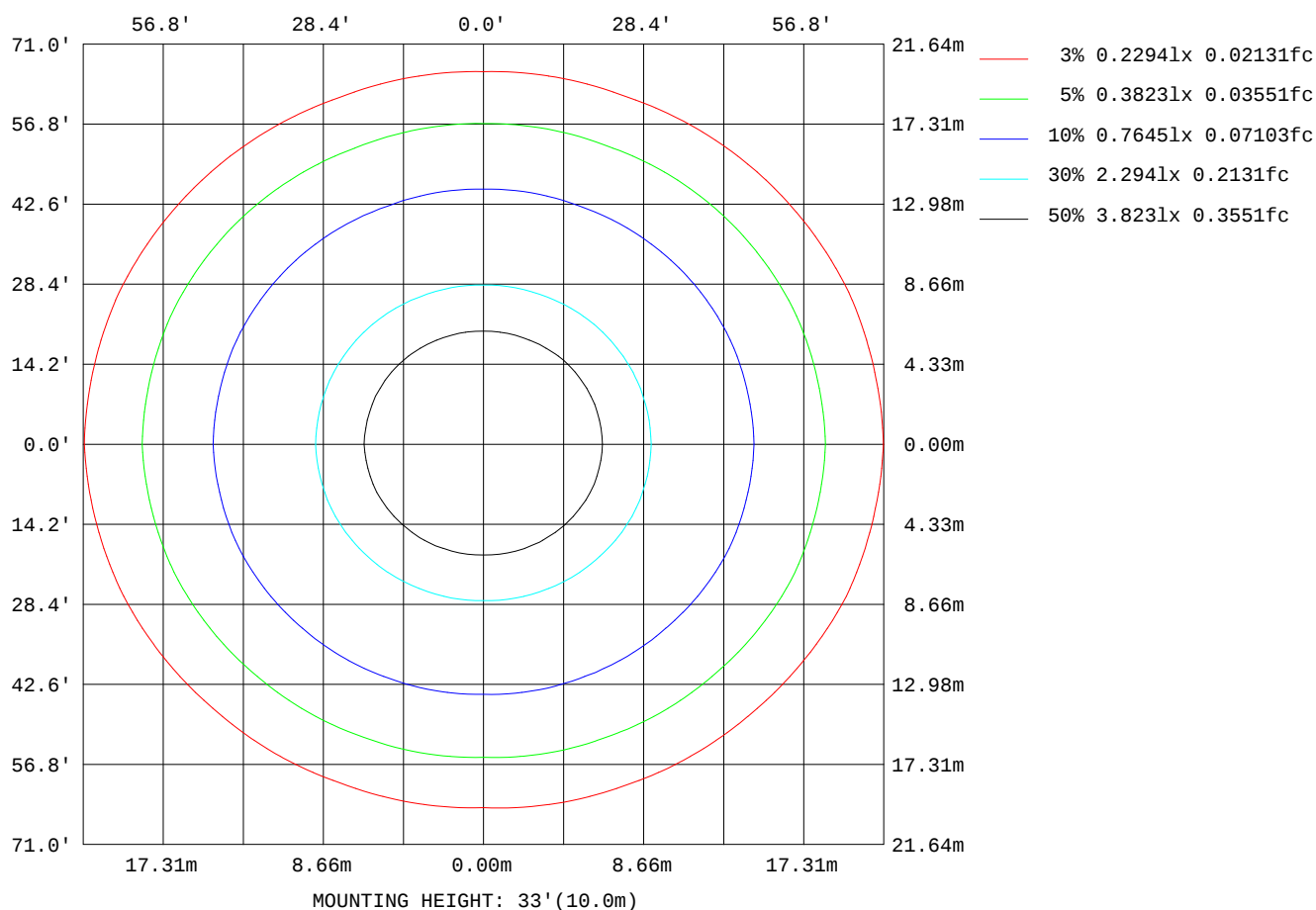
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ISOLUX DIAGRAM

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LED Avg.L Report

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	19712
L_0~180(75)av	19246
L_0~180(85)av	25020
L_90~270(65)av	14757
L_90~270(75)av	11367
L_90~270(85)av	5104
L_45(65)av	17088
L_45(75)av	14945
L_45(85)av	14532

Standard: GB/T 29293-2012

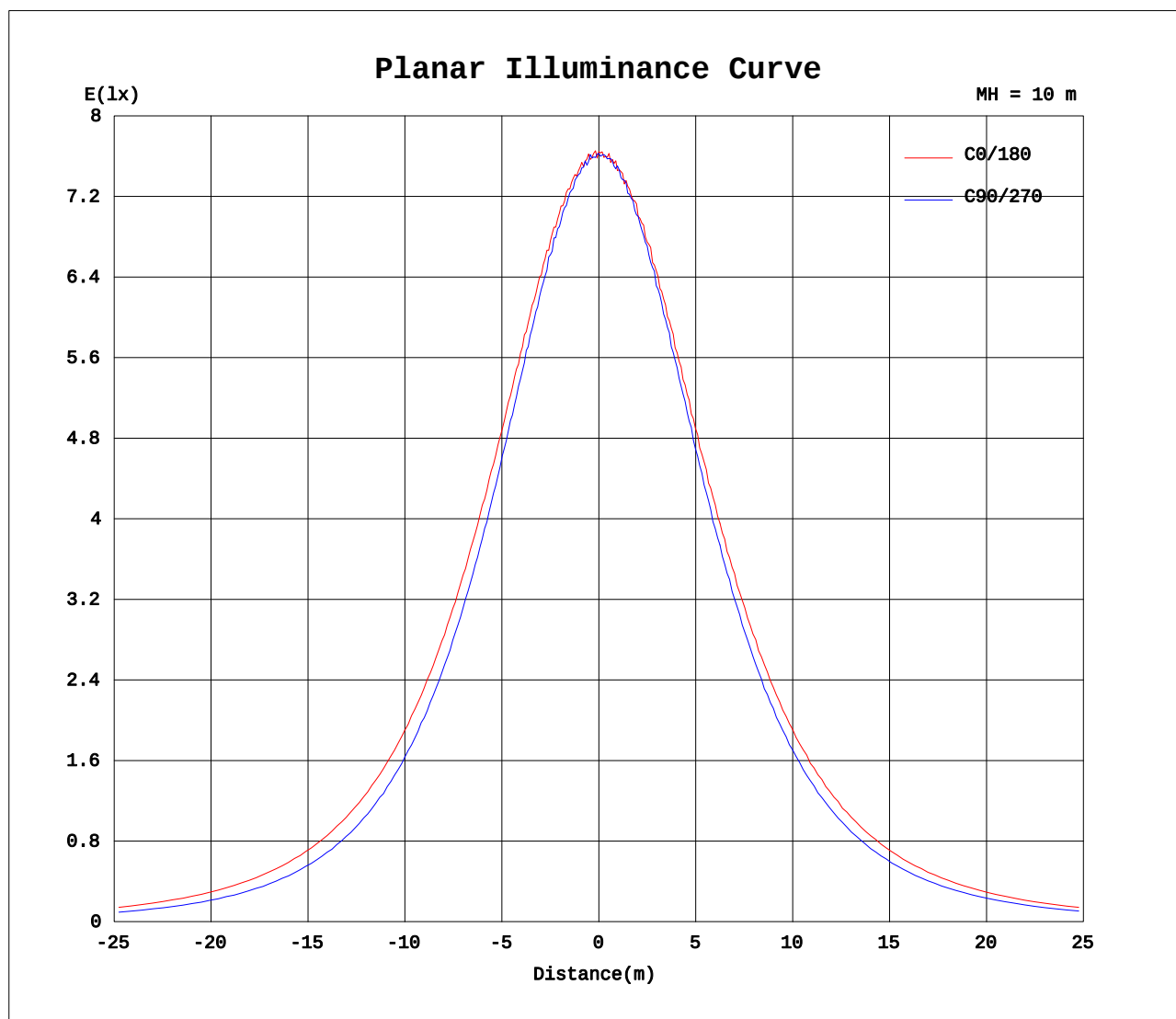
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 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.678m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Wilson
Test Date: 2022-11-21

Checker: Near Gao

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.444
Humidity: 60.5%
Test Distance: 2.678m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.11V I:0.2354A P:28.029W PF:0.9914 Freq:60.00Hz Lamp Flux:2184.96x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	762	762	762	762	762	762	762	762	762	762	762	762	762	762	762	762			
5	760	758	758	758	757	754	761	762	762	758	762	761	756	757	762	763			
10	747	749	745	743	742	745	743	749	748	751	749	751	749	749	750	749			
15	738	733	730	725	717	721	732	737	741	737	734	732	726	725	735	740			
20	715	711	705	693	688	698	700	712	717	716	708	706	704	701	710	715			
25	691	685	675	662	654	659	674	687	694	690	683	676	667	669	682	692			
30	658	652	638	619	610	621	633	652	661	657	646	633	630	632	643	656			
35	624	617	595	578	566	572	595	614	627	621	608	593	582	586	606	623			
40	583	571	545	526	516	525	544	571	583	576	559	541	536	539	559	578			
45	537	528	498	475	462	470	496	523	539	529	510	491	482	486	510	531			
50	484	471	443	416	403	416	438	470	486	476	455	432	425	431	455	477			
55	431	416	386	359	345	354	381	415	432	422	399	376	367	373	399	426			
60	373	356	324	296	281	293	319	354	372	361	337	314	307	312	339	362			
65	310	295	263	234	220	231	257	290	310	299	277	252	244	250	278	303			
70	249	232	200	170	158	168	193	226	246	235	210	188	180	188	214	240			
75	187	171	139	112	99.6	109	134	165	184	173	150	127	119	128	153	179			
80	131	115	85.4	59.4	48.4	57.7	81.8	111	127	117	93.8	71.6	65.6	73.6	98.8	122			
85	83.2	68.7	43.0	21.7	10.5	21.8	41.7	65.5	79.0	69.4	49.3	28.8	22.6	31.5	54.4	75.3			
90	38.5	28.9	12.3	1.96	0.13	1.51	13.6	28.8	39.4	32.6	17.9	4.06	0.47	7.46	21.1	35.2			
95	1.51	2.00	2.01	0.16	0.17	0.17	1.19	0.31	0.13	0.15	1.11	0.12	0.10	0.12	1.99	0.19			
100	2.01	0.65	0.24	0.21	0.21	0.22	0.24	0.48	1.17	0.59	0.14	0.13	0.12	0.13	0.14	0.44			
105	0.27	0.26	0.28	0.25	0.25	0.26	0.29	0.28	0.18	0.18	0.17	0.16	0.14	0.15	0.17	0.18			
110	0.31	0.30	0.31	0.30	0.29	0.31	0.33	0.32	0.23	0.23	0.22	0.20	0.18	0.19	0.21	0.21			
115	0.35	0.35	0.36	0.35	0.34	0.36	0.38	0.36	0.28	0.29	0.29	0.27	0.25	0.25	0.27	0.27			
120	0.42	0.40	0.42	0.41	0.40	0.42	0.42	0.42	0.36	0.37	0.37	0.35	0.35	0.34	0.34	0.34			
125	0.48	0.48	0.49	0.49	0.47	0.49	0.48	0.49	0.44	0.47	0.48	0.47	0.45	0.44	0.43	0.43			
130	0.55	0.54	0.55	0.57	0.55	0.56	0.54	0.56	0.54	0.57	0.58	0.60	0.58	0.56	0.52	0.53			
135	0.57	0.59	0.58	0.62	0.60	0.59	0.59	0.60	0.65	0.69	0.71	0.73	0.71	0.68	0.65	0.65			
140	0.61	0.60	0.62	0.64	0.64	0.62	0.62	0.63	0.70	0.74	0.77	0.77	0.75	0.72	0.71	0.70			
145	0.65	0.64	0.67	0.68	0.69	0.66	0.66	0.66	0.73	0.75	0.80	0.79	0.77	0.76	0.75	0.74			
150	0.68	0.68	0.67	0.70	0.72	0.68	0.70	0.69	0.77	0.78	0.80	0.79	0.74	0.76	0.75	0.76			
155	0.72	0.70	0.74	0.72	0.75	0.72	0.77	0.73	0.77	0.77	0.80	0.77	0.78	0.72	0.76	0.75			
160	0.73	0.72	0.73	0.74	0.76	0.76	0.78	0.75	0.76	0.78	0.80	0.79	0.74	0.73	0.73	0.74			
165	0.76	0.78	0.77	0.74	0.84	0.79	0.82	0.79	0.74	0.77	0.77	0.74	0.74	0.68	0.70	0.73			
170	0.81	0.85	0.85	0.82	0.91	0.84	0.86	0.83	0.72	0.77	0.78	0.73	0.74	0.69	0.70	0.74			
175	0.93	0.94	0.95	0.93	0.97	0.93	0.94	0.93	0.82	0.85	0.88	0.84	0.85	0.80	0.81	0.82			
180	0.86	0.89	0.90	0.89	0.95	0.84	0.86	0.85	0.86	0.89	0.91	0.89	0.95	0.84	0.87	0.85			

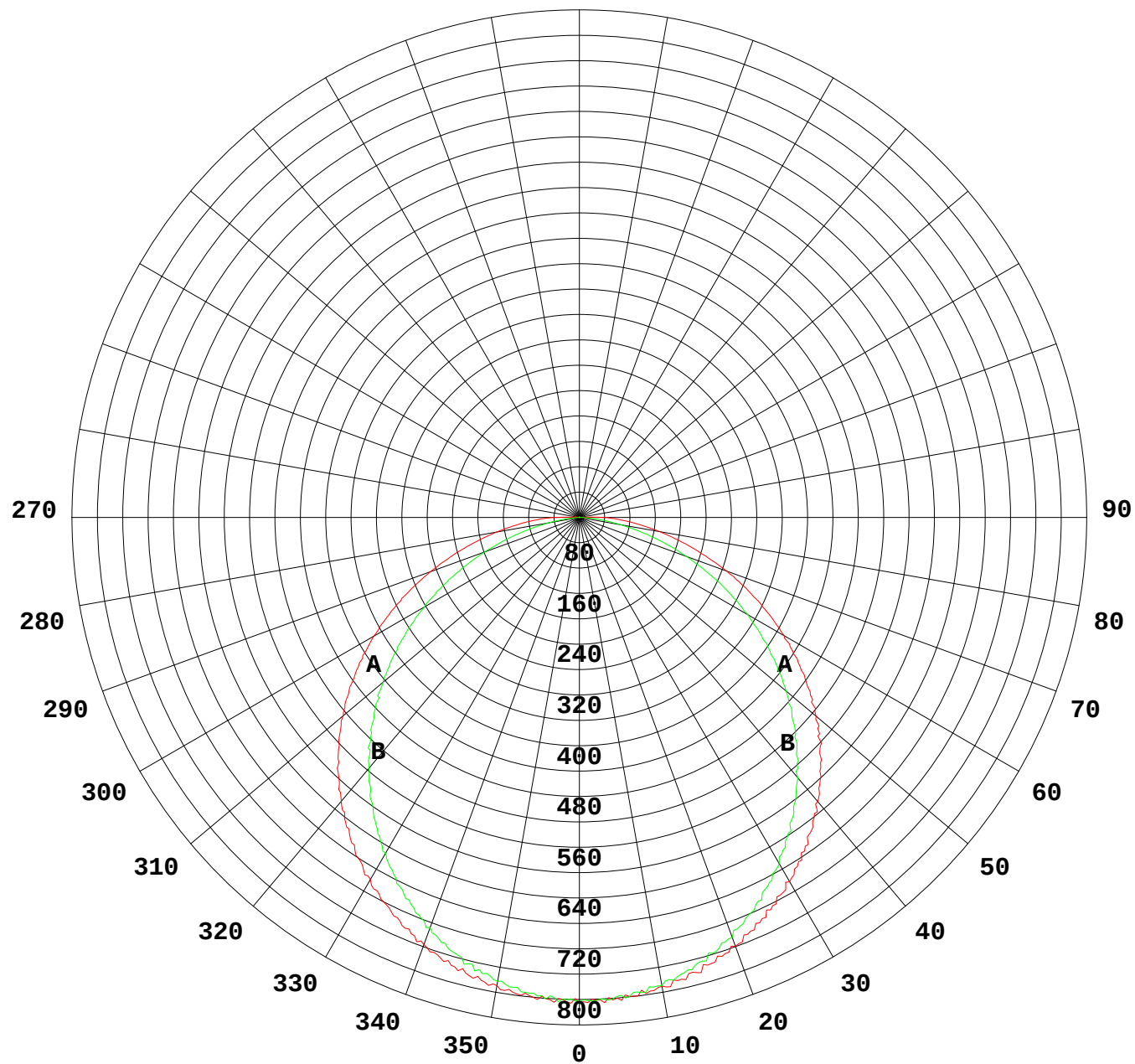
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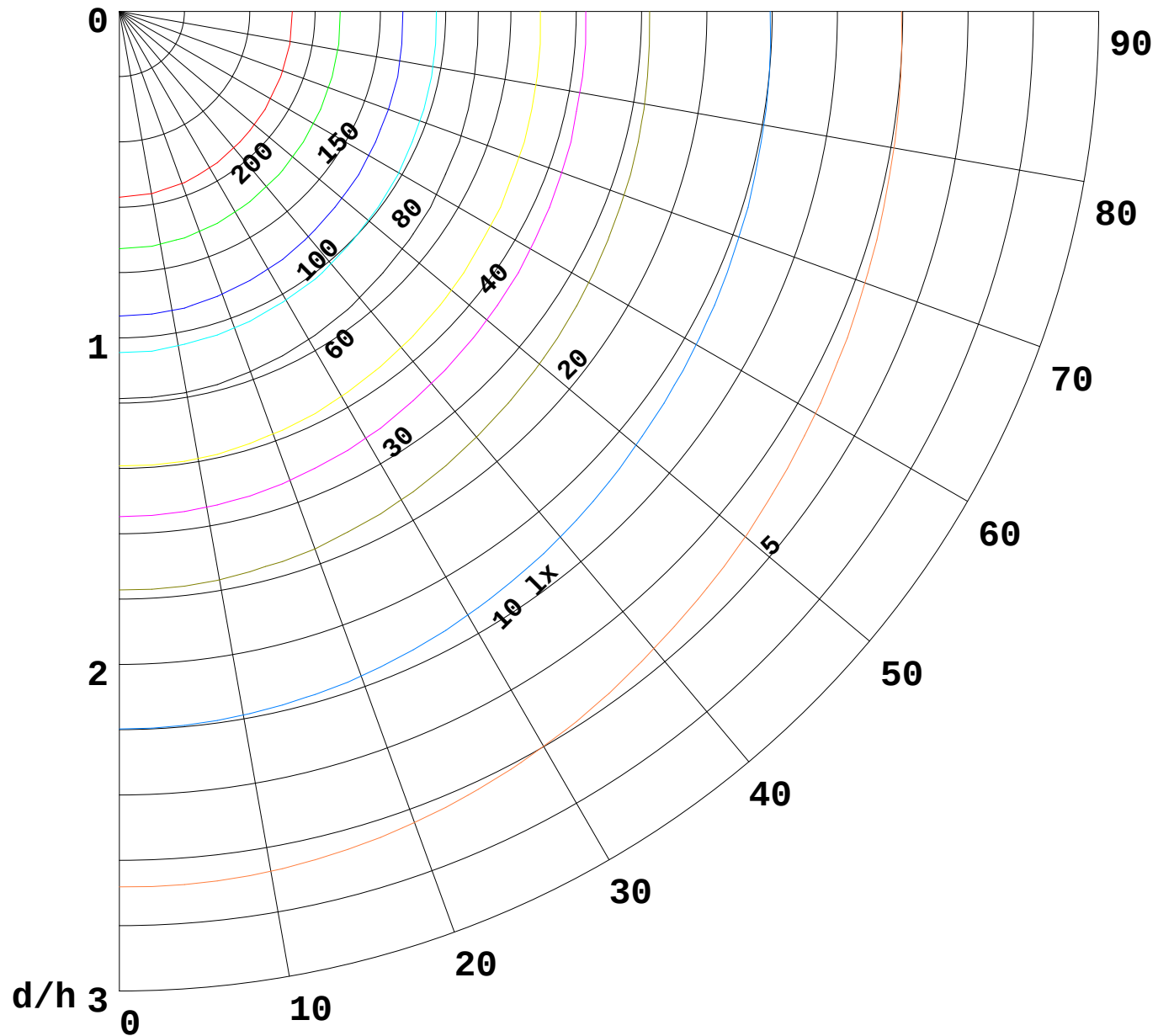
Assessor: Akin Xu

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

