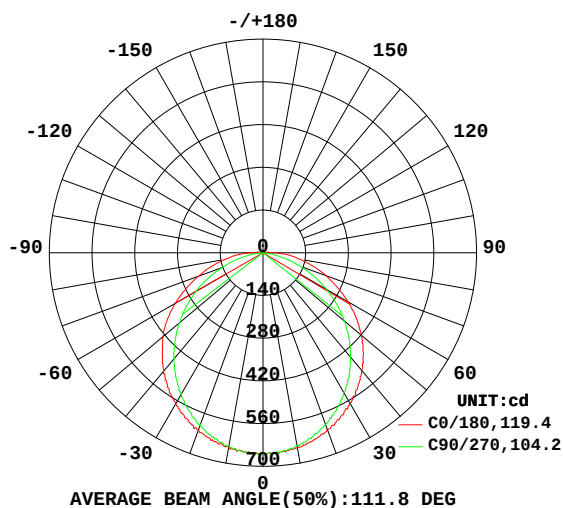


LUMINAIRE PHOTOMETRIC TEST REPORT

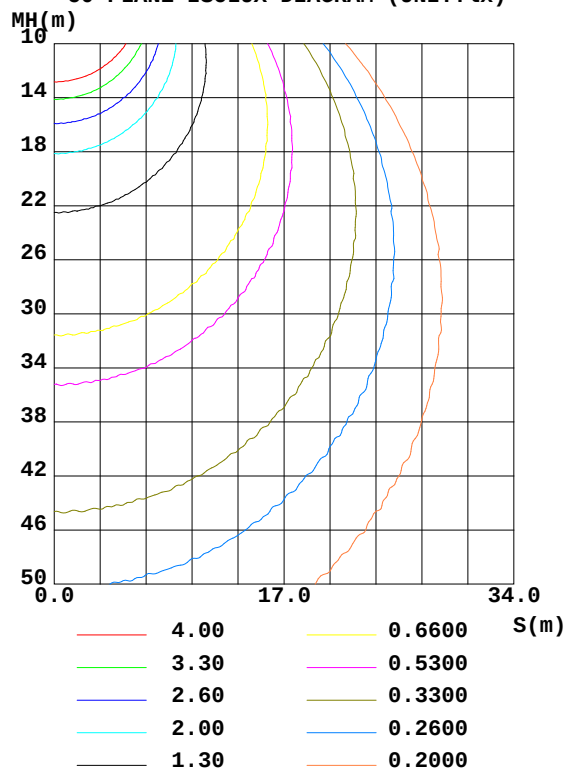
Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.92 lm/W			
VN0016-30S-952C5-MVTD-SB002		I _{max} (cd)	662.3	S/MH(C0/180)	1.29
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1890.9	η UP, DN(C0-180)	0.4, 49.1
NOMINAL FLUX(lm)	1890.89	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 50.1
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.2	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-15

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.635m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	648.8	641.7	639.5	646.1	646.4	644.5	643.7	646.0	0- 10	62.23	62.23	3.29, 3.29
20	615.2	605.2	599.1	609.5	617.5	610.0	598.6	610.0	10- 20	177.9	240.2	12.7, 12.7
30	567.4	547.8	529.2	550.3	571.2	552.2	534.9	553.7	20- 30	268.8	508.9	26.9, 26.9
40	503.6	470.5	446.5	474.1	505.1	479.4	452.2	477.6	30- 40	322.9	831.8	44, 44
50	419.8	377.1	347.3	381.5	428.0	389.2	358.3	387.1	40- 50	333.6	1165	61.6, 61.6
60	321.2	274.9	240.4	277.6	331.0	286.5	253.4	285.1	50- 60	300.7	1466	77.5, 77.5
70	218.8	166.4	129.9	170.0	224.8	178.3	144.2	177.8	60- 70	227.9	1694	89.6, 89.6
80	121.3	71.25	34.18	72.86	127.2	82.31	46.55	81.47	70- 80	133.3	1827	96.6, 96.6
90	31.56	9.201	0.0959	9.372	34.18	14.80	0.0826	15.90	80- 90	48.97	1876	99.2, 99.2
100	10.49	1.791	0.1811	2.248	11.75	2.005	0.1084	1.962	90-100	5.618	1882	99.5, 99.5
110	6.661	1.893	0.2534	2.041	5.903	1.914	0.1591	1.703	100-110	2.141	1884	99.6, 99.6
120	5.370	2.005	0.3541	2.122	5.726	2.076	0.2997	1.730	110-120	2.053	1886	99.8, 99.8
130	4.008	1.858	0.4887	1.997	4.453	2.057	0.5110	1.688	120-130	1.706	1888	99.8, 99.8
140	0.5344	1.278	0.6017	1.713	0.6100	1.336	0.6738	1.522	130-140	1.150	1889	99.9, 99.9
150	1.967	1.373	0.6910	0.9864	2.409	1.551	0.6668	0.6372	140-150	0.9217	1890	100, 100
160	1.351	1.010	0.7335	1.389	1.517	1.419	0.6688	0.9848	150-160	0.5655	1891	100, 100
170	0.6895	0.8806	0.8918	0.7821	0.6386	0.8368	0.7366	0.7792	160-170	0.2678	1891	100, 100
180	0.8546	0.8918	0.8710	0.8620	0.8553	0.8921	0.8728	0.8630	170-180	0.0767	1891	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 1000.1 lm

%lum = 52.9%

%lamp = 52.9%

Conical surface Flux(120deg): 1466.2 lm

%lum = 77.5%

%lamp = 77.5%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-12-15

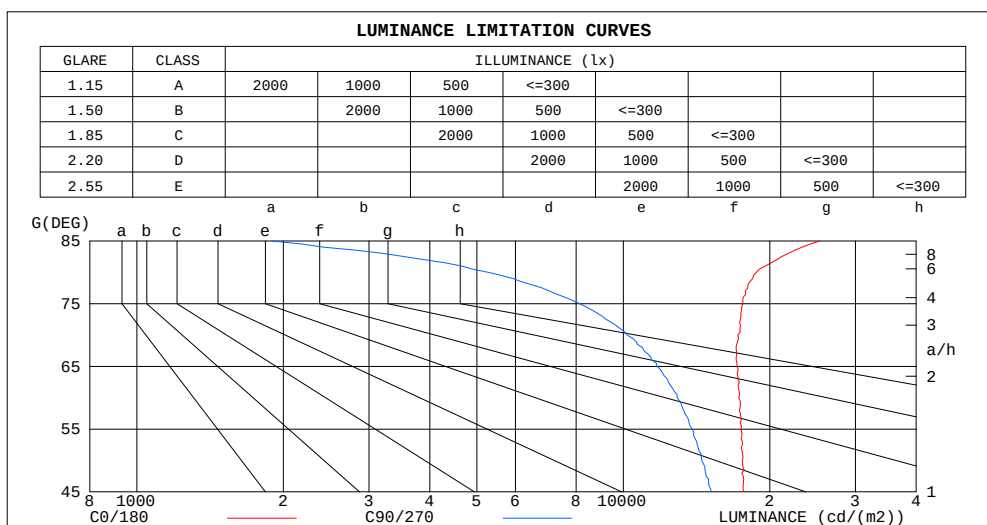
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.635m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	25376	1895
80	18773	5280
75	17603	8132
70	17197	10186
65	17130	11741
60	17267	12899
55	17462	13871
50	17556	14494
45	17721	15159

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-15

Checker: Near Gao

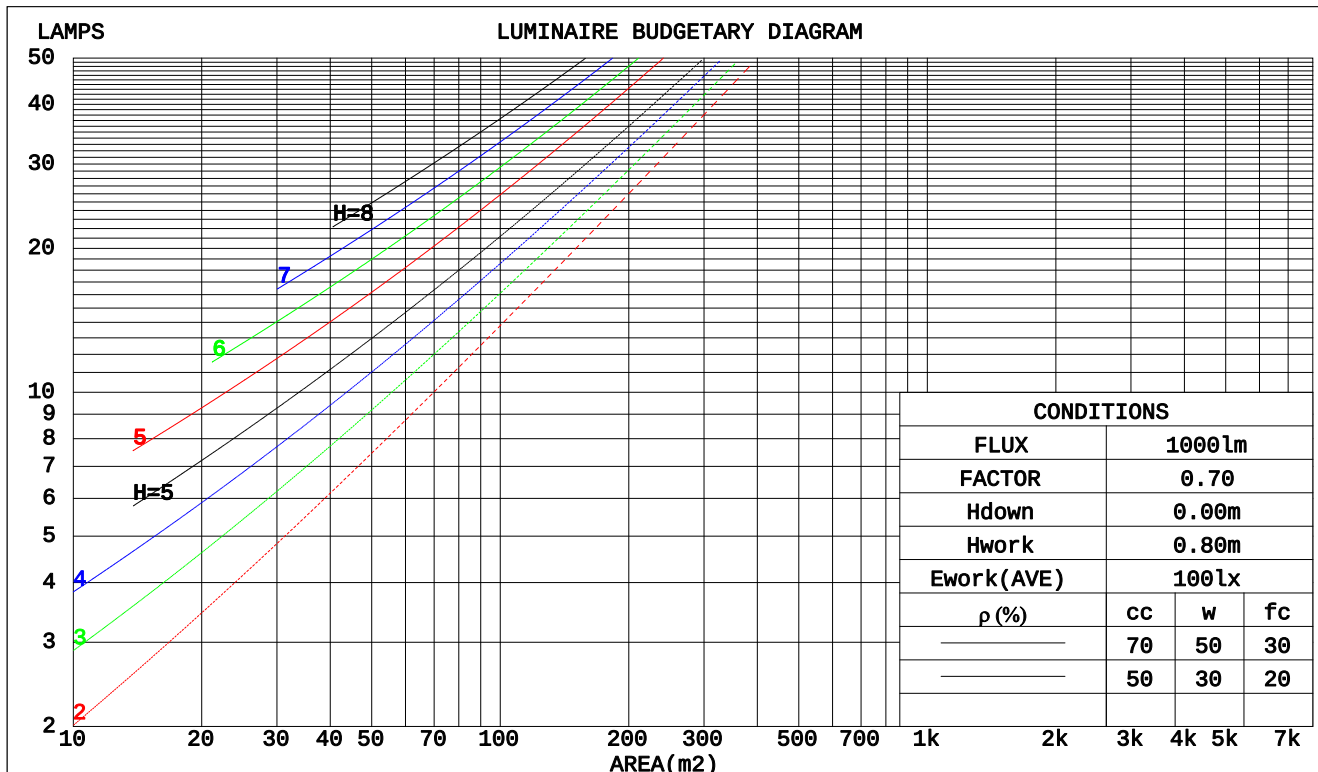
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.635m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 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	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	1.01	1.01	1.01	.99
1.0	1.03	.99	.95	1.01	.97	.93	.97	.93	.90	.93	.90	.87	.89	.87	.85	.82
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.76	.72	.78	.74	.71	.68
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.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	.28	.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
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-12-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.635m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

WEC AND CCEC

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 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	.317	.180	.057	.309	.177	.056	.296	.170	.054	.283	.163	.052	.271	.157	.051		
2.0	.295	.162	.050	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.045		
3.0	.272	.145	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040		
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036		
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033		
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.195	.102	.030	.189	.099	.030		
7.0	.199	.098	.028	.196	.097	.028	.189	.095	.027	.182	.094	.027	.176	.092	.027		
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025		
9.0	.174	.084	.024	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023		
10.0	.164	.078	.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	.196	.196	.196	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.187	.162	.140	.160	.139	.120	.109	.096	.083	.063	.055	.048	.020	.018	.016	
2.0	.179	.138	.104	.153	.119	.090	.105	.082	.062	.060	.048	.037	.019	.015	.012	
3.0	.171	.120	.080	.146	.104	.069	.101	.072	.049	.058	.042	.029	.019	.014	.009	
4.0	.163	.107	.064	.140	.092	.056	.096	.064	.039	.056	.038	.023	.018	.012	.008	
5.0	.156	.097	.053	.134	.084	.046	.092	.058	.033	.053	.034	.019	.017	.011	.006	
6.0	.148	.088	.045	.128	.076	.039	.088	.054	.028	.051	.031	.017	.016	.010	.005	
7.0	.142	.081	.039	.122	.071	.034	.084	.049	.024	.049	.029	.014	.016	.010	.005	
8.0	.135	.076	.035	.116	.066	.030	.080	.046	.021	.047	.027	.013	.015	.009	.004	
9.0	.129	.071	.031	.111	.061	.027	.077	.043	.019	.045	.025	.012	.015	.008	.004	
10.0	.123	.066	.028	.106	.058	.025	.074	.041	.018	.043	.024	.011	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.635m [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:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 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	22.9	24.4	23.2	24.6	24.8	21.7	23.2	21.9	23.4	23.6
3H	24.6	26.0	24.9	26.3	26.5	22.8	24.2	23.1	24.5	24.7
4H	25.4	26.8	25.8	27.0	27.3	23.2	24.5	23.5	24.8	25.1
6H	26.2	27.4	26.5	27.7	28.0	23.3	24.6	23.7	24.9	25.2
8H	26.5	27.7	26.9	28.0	28.3	23.3	24.5	23.7	24.8	25.1
12H	26.9	28.1	27.2	28.4	28.7	23.3	24.5	23.6	24.8	25.1
4H 2H	23.3	24.7	23.7	24.9	25.2	22.4	23.7	22.7	24.0	24.3
3H	25.3	26.4	25.6	26.8	27.1	23.7	24.9	24.1	25.2	25.5
4H	26.2	27.3	26.6	27.6	28.0	24.2	25.2	24.6	25.6	25.9
6H	27.1	28.1	27.6	28.5	28.8	24.4	25.3	24.8	25.7	26.1
8H	27.6	28.5	28.0	28.9	29.3	24.4	25.3	24.8	25.7	26.1
12H	28.1	28.9	28.5	29.3	29.7	24.4	25.2	24.8	25.6	26.0
8H 4H	26.4	27.3	26.8	27.7	28.1	24.5	25.4	25.0	25.8	26.2
6H	27.5	28.2	27.9	28.6	29.1	24.9	25.6	25.4	26.1	26.5
8H	28.1	28.7	28.5	29.2	29.6	25.0	25.6	25.4	26.1	26.5
12H	28.7	29.3	29.2	29.7	30.2	25.0	25.6	25.5	26.0	26.5
12H 4H	26.4	27.2	26.8	27.6	28.0	24.6	25.4	25.1	25.8	26.2
6H	27.5	28.2	28.0	28.6	29.1	25.0	25.7	25.5	26.1	26.6
8H	28.1	28.7	28.6	29.2	29.6	25.2	25.7	25.6	26.2	26.7
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	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 1891 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.2$)
 Area: 0.0372 m²

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-15

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.635m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UTILIZATION FACTORS TABLE

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 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	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-15

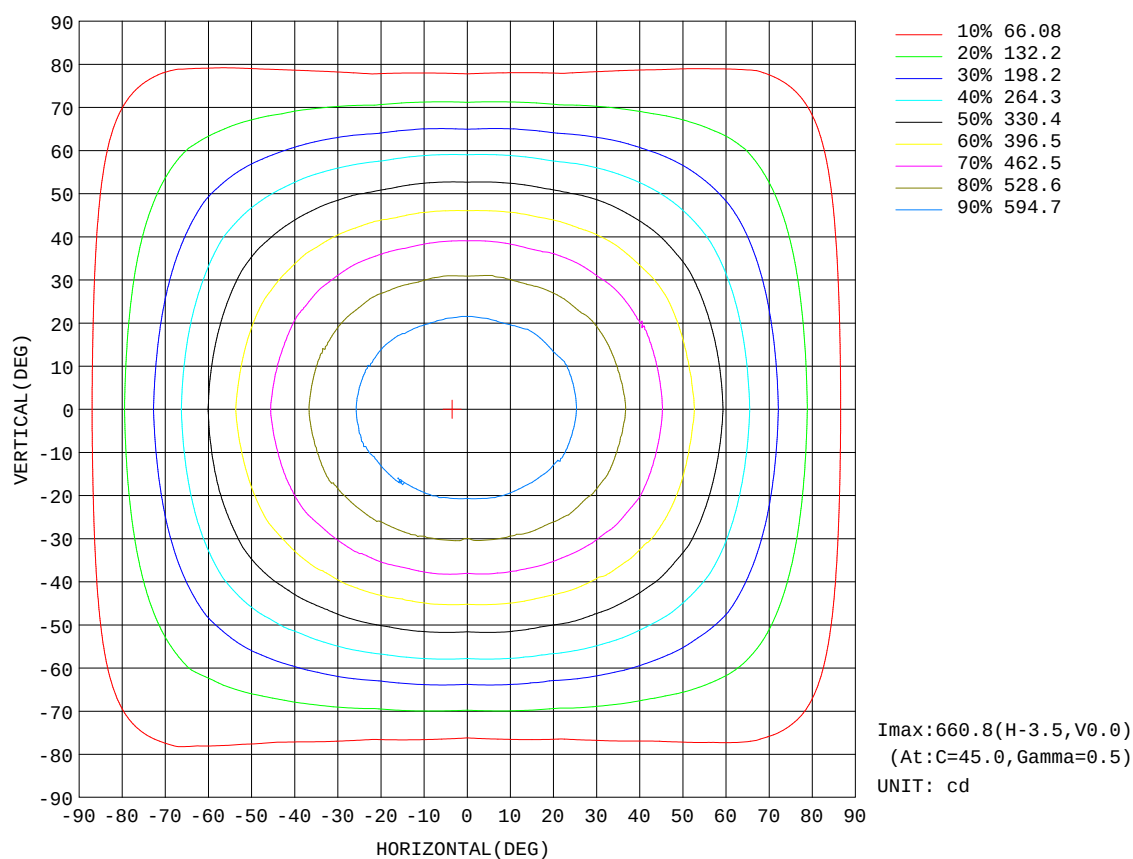
Checker: Near Gao

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.635m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

ISOCANDELA DIAGRAM

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-15

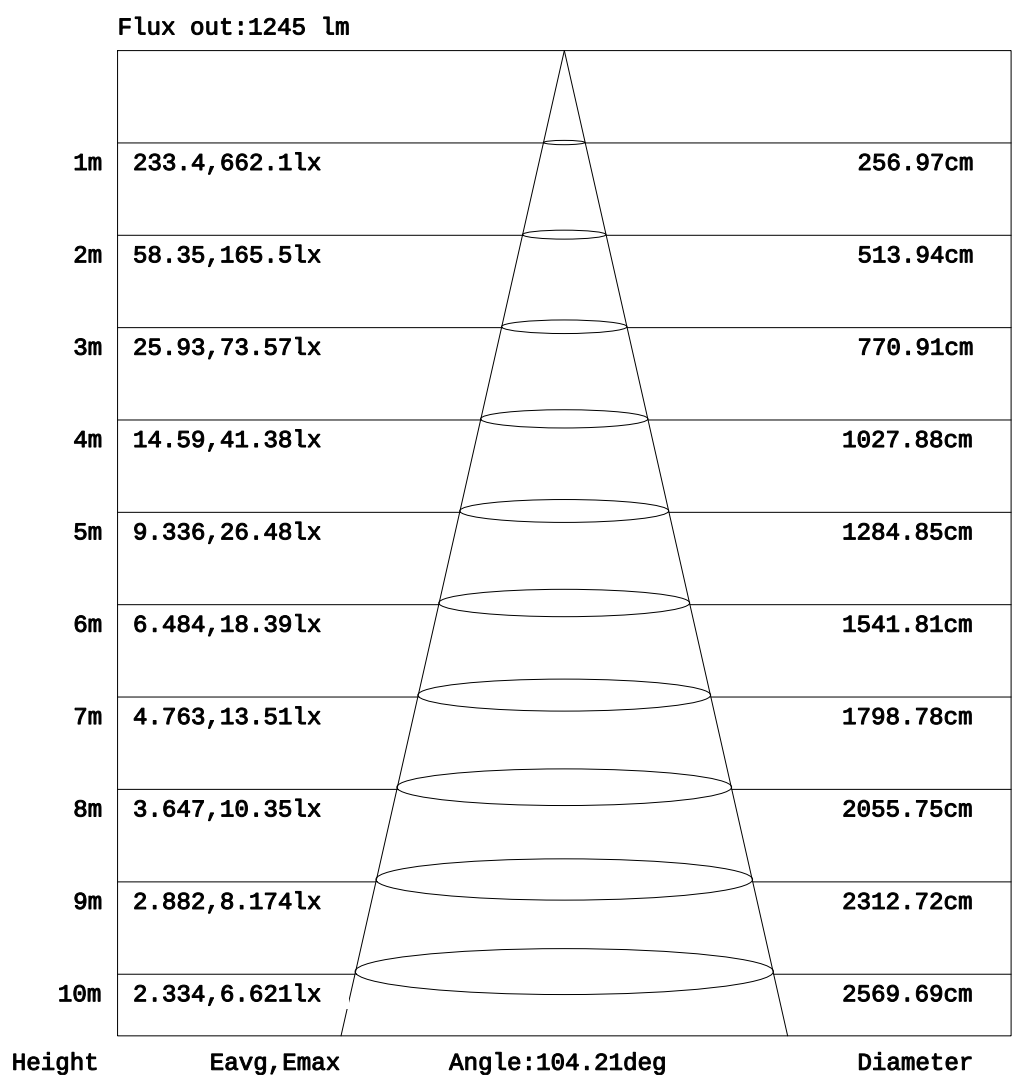
Checker: Near Gao

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.635m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

AAI Figure

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-15

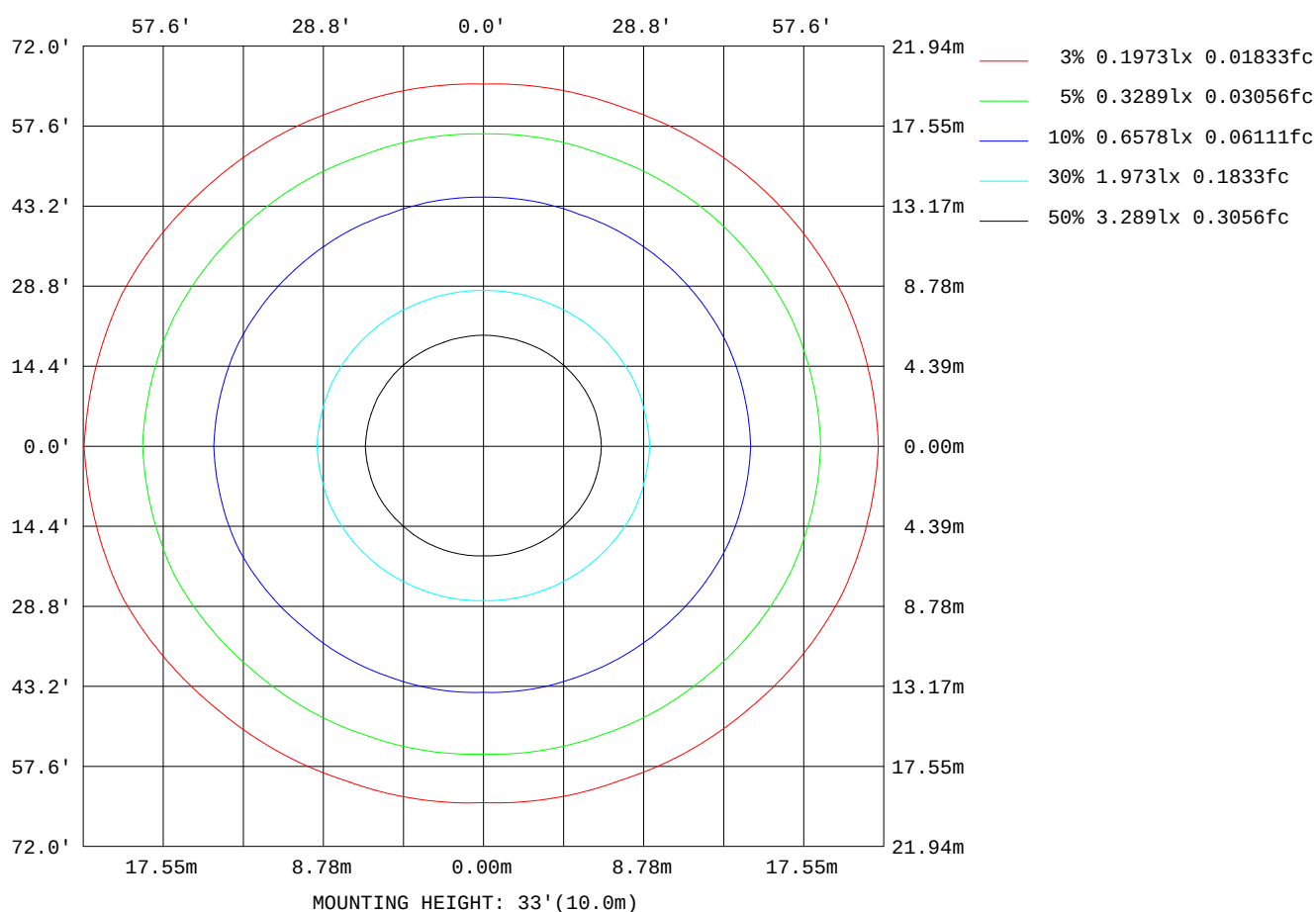
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.635m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOLUX DIAGRAM

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-15

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:2.635m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

LED Avg.L Report

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	17429
L_0~180(75)av	17906
L_0~180(85)av	26062
L_90~270(65)av	12168
L_90~270(75)av	8890
L_90~270(85)av	2942
L_45(65)av	14483
L_45(75)av	12717
L_45(85)av	12814

Standard: GB/T 29293-2012

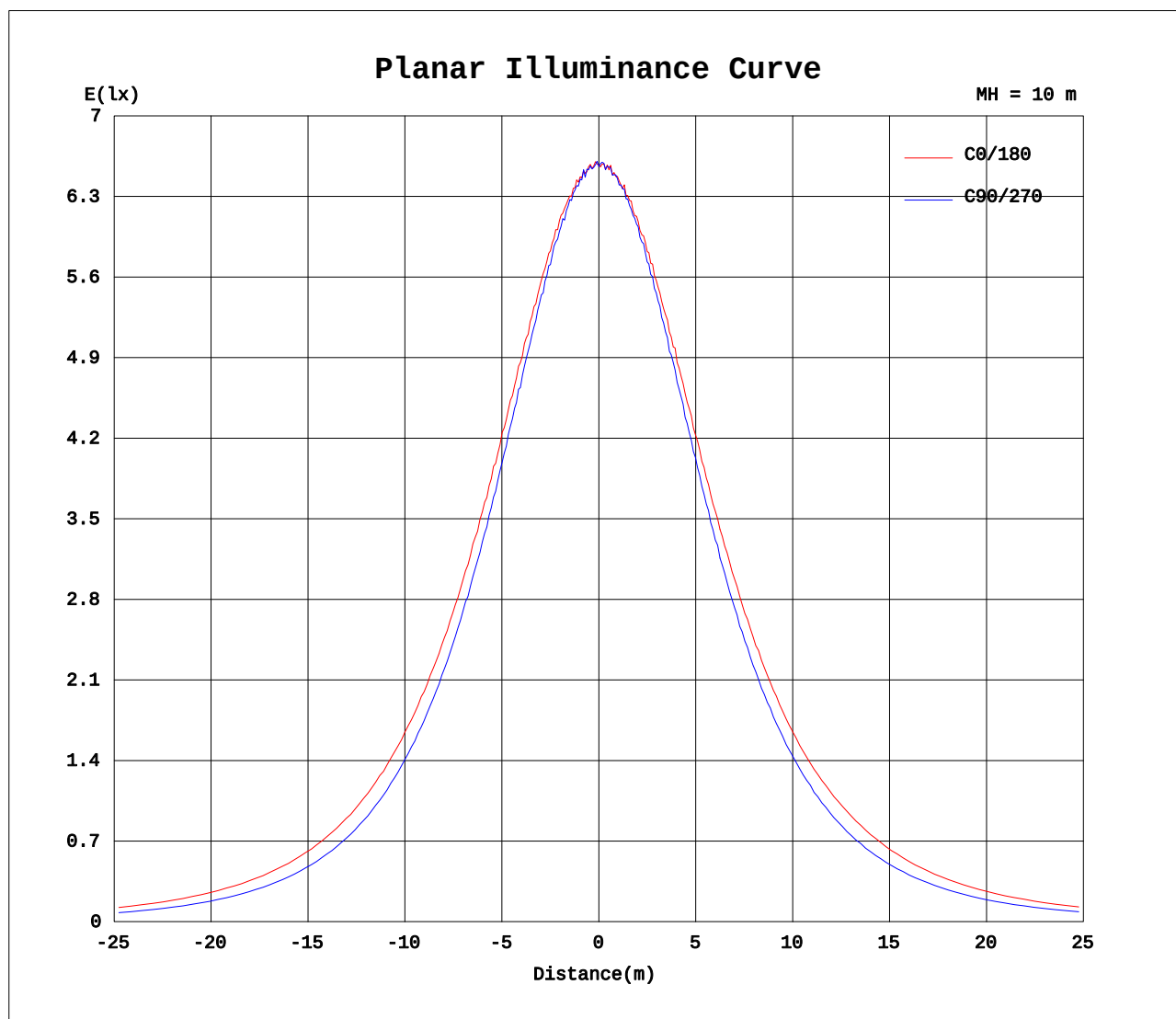
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-15

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:2.635m [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: 2022-12-15

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: 2.635m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.2579A P:30.540W PF:0.9862 Freq:60.00Hz Lamp Flux:1890.89x1 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	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657			
5	654	653	654	652	653	654	657	658	655	654	657	652	658	657	658	655			
10	649	647	642	640	639	643	646	646	646	648	645	641	644	641	646	645			
15	637	633	631	625	624	627	632	637	635	633	633	623	625	629	634	638			
20	615	616	605	602	599	599	610	616	618	618	610	602	599	600	610	613			
25	598	588	581	572	570	573	585	594	599	594	584	573	572	573	585	597			
30	567	565	548	537	529	535	550	566	571	566	552	538	535	539	554	564			
35	541	530	513	496	493	497	516	531	541	533	517	502	498	502	519	536			
40	504	494	471	454	446	456	474	495	505	495	479	459	452	457	478	496			
45	466	450	427	407	400	407	431	454	467	455	433	412	408	414	435	455			
50	420	406	377	358	347	359	382	410	428	413	389	362	358	363	387	409			
55	373	357	329	305	297	307	331	367	384	368	338	311	306	313	340	362			
60	321	307	275	253	240	253	278	315	331	318	286	260	253	260	285	310			
65	269	253	221	195	185	196	224	262	279	264	232	206	198	207	234	259			
70	219	202	166	141	130	141	170	206	225	210	178	152	144	153	178	205			
75	169	151	117	89.1	78.5	89.7	119	155	175	158	127	100	92.7	101	127	159			
80	121	105	71.3	45.0	34.2	45.6	72.9	109	127	113	82.3	54.2	46.6	55.4	81.5	111			
85	82.3	64.8	37.3	15.1	6.16	15.5	38.5	69.3	86.7	70.9	45.1	21.2	12.9	22.0	45.2	70.2			
90	31.6	24.2	9.20	1.21	0.10	1.35	9.37	24.5	34.2	27.2	14.8	3.44	0.08	3.68	15.9	28.3			
95	14.0	5.93	3.43	0.42	0.14	0.54	4.20	1.49	14.2	7.72	4.02	0.67	0.09	0.39	4.35	6.03			
100	10.5	3.52	1.79	0.51	0.18	0.59	2.25	0.42	11.7	4.23	2.00	0.61	0.11	0.34	1.96	3.85			
105	6.48	3.05	1.84	0.58	0.22	0.66	2.08	0.25	4.57	3.11	1.86	0.66	0.13	0.41	1.71	2.50			
110	6.66	3.38	1.89	0.65	0.25	0.74	2.04	0.29	5.90	3.25	1.91	0.71	0.16	0.47	1.70	2.34			
115	6.14	3.52	1.96	0.72	0.30	0.82	2.07	0.33	6.63	3.52	2.01	0.78	0.21	0.55	1.72	2.18			
120	5.37	3.48	2.00	0.80	0.35	0.90	2.12	0.38	5.73	3.38	2.08	0.86	0.30	0.63	1.73	1.85			
125	4.63	3.35	1.96	0.88	0.42	0.98	2.10	0.44	4.86	3.28	2.10	0.96	0.40	0.71	1.74	1.46			
130	4.01	3.24	1.86	0.91	0.49	1.05	2.00	0.50	4.45	3.30	2.06	1.06	0.51	0.81	1.69	1.05			
135	3.39	1.20	1.76	0.90	0.55	1.09	1.85	0.52	3.84	1.44	1.98	1.16	0.63	0.89	1.66	0.57			
140	0.53	2.50	1.28	0.88	0.60	1.09	1.71	0.82	0.61	3.00	1.34	1.16	0.67	0.90	1.52	2.26			
145	2.37	2.17	0.63	0.88	0.67	1.07	1.58	2.37	2.97	2.52	0.91	1.15	0.72	0.91	1.41	2.08			
150	1.97	1.80	1.37	0.59	0.69	1.04	0.99	2.09	2.41	2.21	1.55	0.69	0.67	0.88	0.64	1.80			
155	1.67	1.59	1.24	0.84	0.69	0.91	0.77	1.66	2.04	1.75	1.43	1.06	0.75	0.68	1.02	1.55			
160	1.35	1.27	1.01	0.83	0.73	0.67	1.39	1.42	1.52	1.24	1.42	0.97	0.67	0.75	0.98	1.27			
165	1.05	0.76	0.94	0.65	0.82	0.86	0.70	1.45	1.37	0.67	1.37	0.81	0.72	0.74	0.61	0.99			
170	0.69	0.73	0.88	0.74	0.89	0.86	0.78	0.70	0.64	0.68	0.84	0.62	0.74	0.73	0.78	0.63			
175	0.95	0.87	0.83	0.82	0.88	0.88	0.98	0.99	0.89	0.89	0.79	0.71	0.82	0.78	0.82	0.86			
180	0.85	0.87	0.89	0.89	0.87	0.84	0.86	0.84	0.86	0.87	0.89	0.89	0.87	0.84	0.86	0.84			

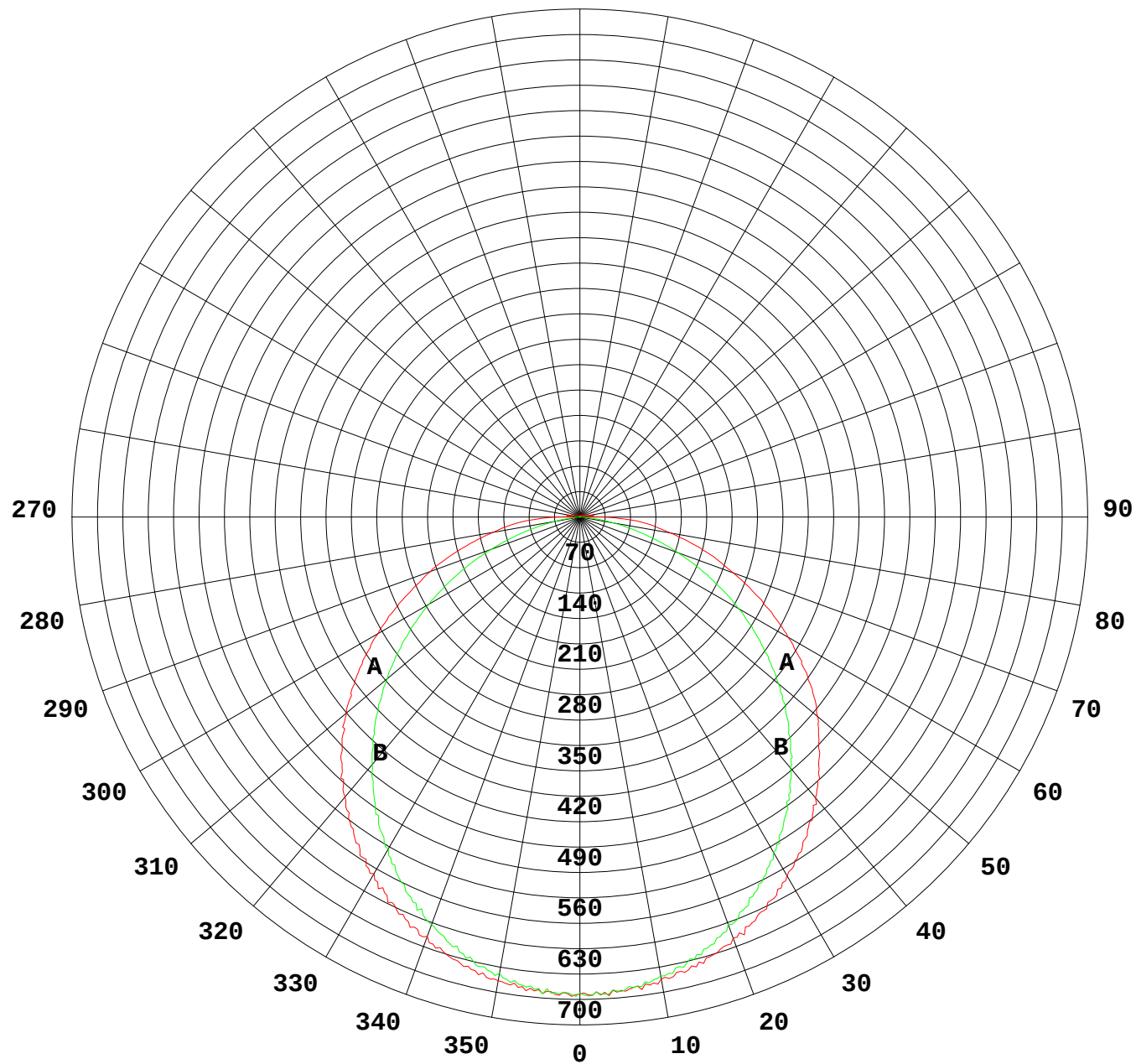
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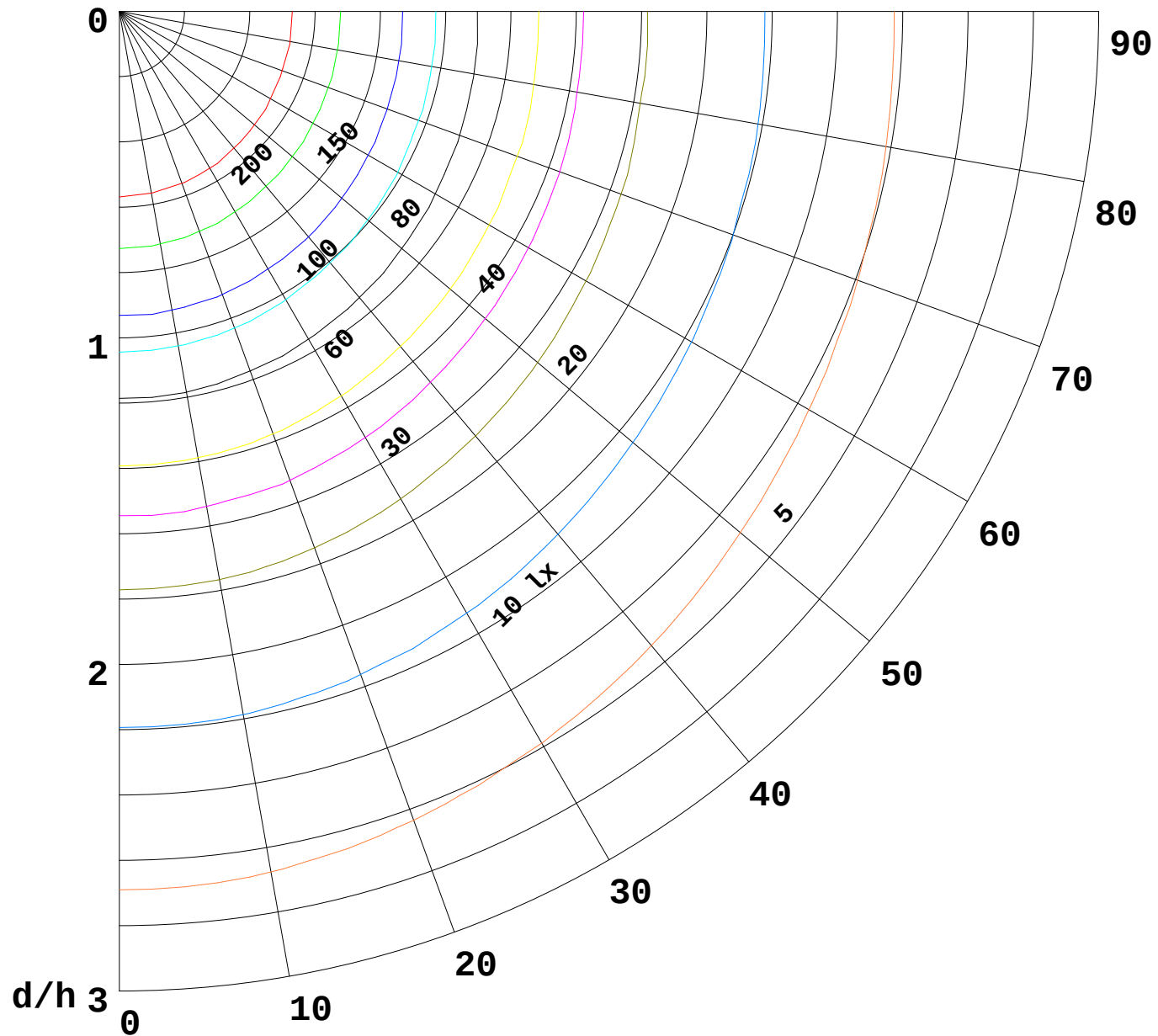
Assessor: Akin Xu

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

