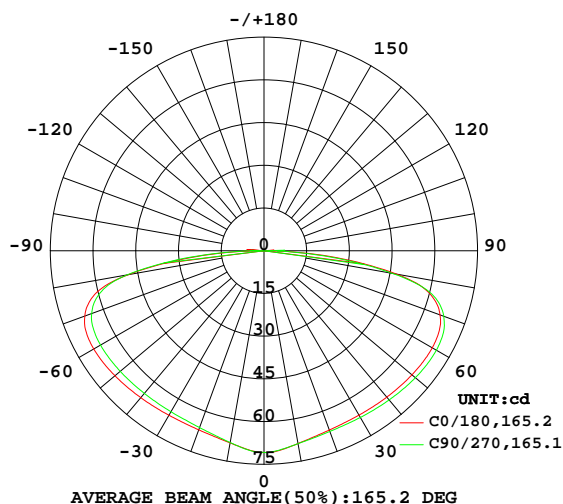


LUMINAIRE PHOTOMETRIC TEST REPORT

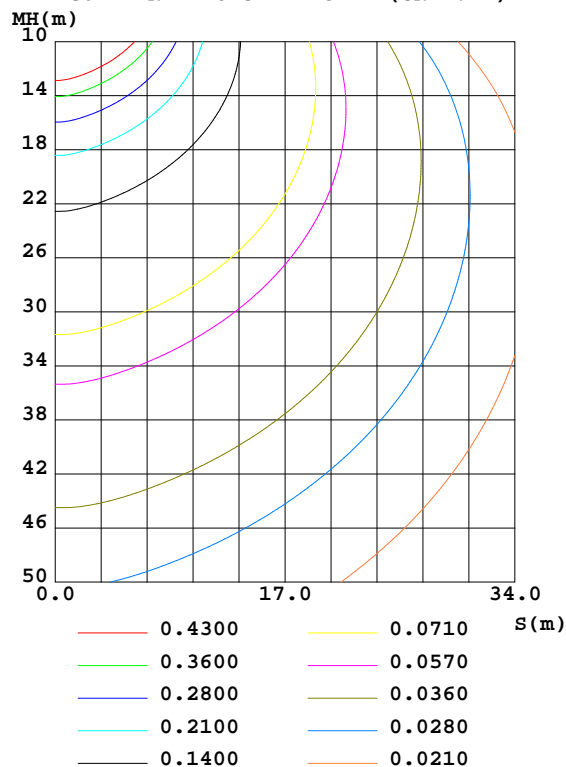
Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 32.69 lm/W			
Polar Model	Wall-White rear shade	Imax(cd)	70.89	S/MH(C0/180)	1.46
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.42
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	369.79	η UP,DN(C0-180)	0.2,50.2
NOMINAL FLUX(lm)	369.786	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,49.3
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	230	η down(%)	99.6	CIBSE SHR MAX	1.75

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:2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [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	68.74	68.81	68.80	68.73	68.51	68.31	68.39	68.60	0- 10	6.639	6.639	1.8,1.8
20	67.00	67.32	67.54	67.56	66.93	66.21	66.11	66.52	10- 20	19.14	25.78	6.97,6.97
30	66.67	67.26	67.60	67.77	66.71	65.59	65.30	65.92	20- 30	30.85	56.63	15.3,15.3
40	67.09	68.00	68.37	68.63	67.33	65.92	65.38	66.07	30- 40	41.98	98.61	26.7,26.7
50	67.80	69.00	69.37	69.63	68.31	66.61	65.88	66.41	40- 50	52.28	150.9	40.8,40.8
60	68.19	69.54	69.87	70.13	69.02	67.04	66.27	66.44	50- 60	61.18	212.1	57.3,57.3
70	65.76	66.81	67.17	67.29	66.93	65.02	64.37	64.13	60- 70	67.12	279.2	75.5,75.5
80	47.13	46.40	45.73	45.99	48.31	48.28	48.76	48.33	70- 80	63.09	342.3	92.6,92.6
90	3.541	4.378	5.079	4.584	4.184	3.622	3.067	2.334	80- 90	25.91	368.2	99.6,99.6
100	0.1325	0.0875	0.0612	0.0902	0.1242	0.0625	0.0418	0.0738	90-100	1.178	369.4	99.9,99.9
110	0.0991	0.0771	0.0678	0.0804	0.0859	0.0613	0.0538	0.0620	100-110	0.0840	369.5	99.9,99.9
120	0.0932	0.0788	0.0734	0.0761	0.0793	0.0712	0.0703	0.0628	110-120	0.0731	369.5	99.9,99.9
130	0.0936	0.0844	0.0798	0.0751	0.0817	0.0810	0.0837	0.0715	120-130	0.0697	369.6	99.9,99.9
140	0.0904	0.0813	0.0770	0.0737	0.0897	0.0897	0.0847	0.0853	130-140	0.0644	369.7	100,100
150	0.0908	0.0834	0.0763	0.0793	0.0946	0.0922	0.0784	0.0871	140-150	0.0535	369.7	100,100
160	0.0942	0.0866	0.0791	0.0927	0.0950	0.0901	0.0738	0.0835	150-160	0.0395	369.8	100,100
170	0.1019	0.1002	0.0963	0.1022	0.0925	0.0946	0.0777	0.0825	160-170	0.0247	369.8	100,100
180	0.1005	0.1044	0.1016	0.1008	0.1016	0.1048	0.1023	0.0997	170-180	0.0091	369.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 123.53 lm

%lum = 33.4%

%lamp = 33.4%

Conical surface Flux(120deg): 212.07 lm

%lum = 57.3%

%lamp = 57.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-02

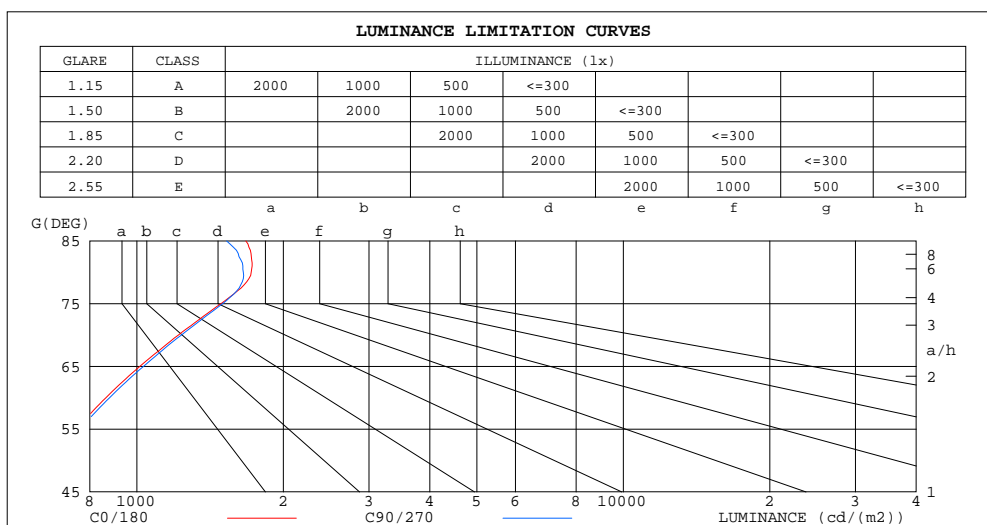
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1676	1530
80	1717	1655
75	1488	1500
70	1217	1234
65	1014	1031
60	863	878
55	751	764
50	667	678
45	604	612

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

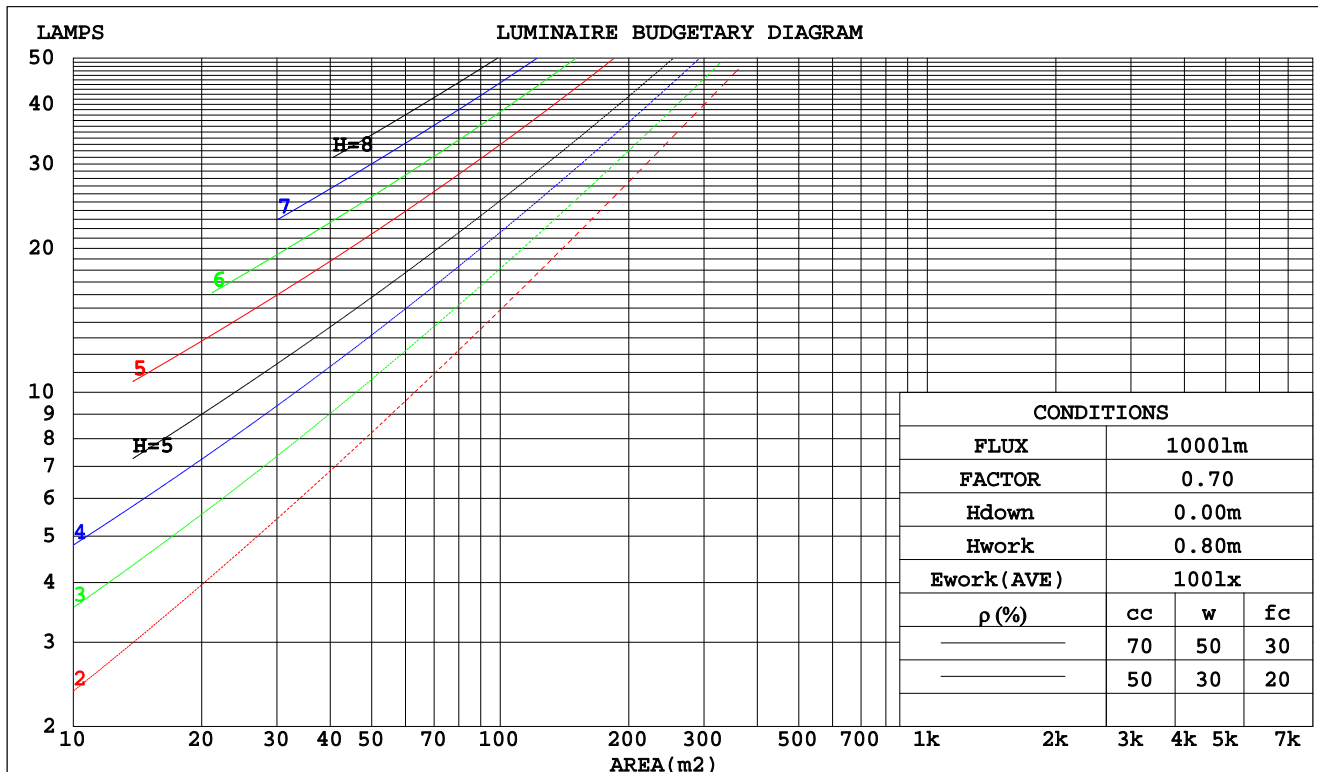
Checker: Near Gao

Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.97	.91	.86	.95	.89	.84	.90	.86	.82	.86	.82	.79	.82	.79	.76	.74
2.0	.81	.72	.65	.79	.71	.64	.75	.68	.62	.72	.66	.60	.68	.63	.59	.56
3.0	.69	.59	.50	.67	.58	.50	.64	.56	.49	.61	.54	.48	.58	.52	.47	.44
4.0	.60	.49	.41	.58	.48	.40	.55	.47	.40	.53	.45	.39	.50	.44	.38	.36
5.0	.52	.42	.34	.51	.41	.34	.49	.40	.33	.47	.39	.33	.44	.38	.32	.30
6.0	.46	.36	.29	.45	.36	.29	.43	.35	.28	.42	.34	.28	.40	.33	.27	.25
7.0	.42	.32	.25	.41	.31	.25	.39	.31	.24	.37	.30	.24	.36	.29	.24	.22
8.0	.38	.28	.22	.37	.28	.22	.36	.27	.21	.34	.27	.21	.33	.26	.21	.19
9.0	.34	.25	.19	.34	.25	.19	.32	.25	.19	.31	.24	.19	.30	.23	.19	.17
10.0	.32	.23	.17	.31	.23	.17	.30	.22	.17	.29	.22	.17	.28	.21	.17	.15



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

WEC AND CCEC

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.433	.246	.078	.426	.243	.077	.412	.236	.075	.399	.230	.074	.387	.224	.072		
2.0	.380	.208	.064	.374	.206	.063	.361	.201	.062	.349	.196	.061	.338	.191	.060		
3.0	.336	.179	.054	.330	.177	.053	.319	.173	.053	.308	.169	.052	.299	.165	.051		
4.0	.300	.156	.046	.295	.154	.046	.285	.151	.045	.275	.148	.045	.266	.145	.044		
5.0	.270	.138	.040	.265	.136	.040	.257	.134	.039	.248	.131	.039	.240	.128	.039		
6.0	.246	.123	.035	.241	.122	.035	.233	.120	.035	.226	.117	.035	.219	.115	.034		
7.0	.225	.111	.032	.221	.110	.031	.214	.108	.031	.207	.106	.031	.201	.104	.031		
8.0	.207	.101	.028	.204	.100	.028	.197	.099	.028	.191	.097	.028	.186	.095	.028		
9.0	.192	.093	.026	.189	.092	.026	.183	.091	.026	.178	.089	.026	.173	.088	.025		
10.0	.179	.086	.024	.176	.085	.024	.171	.084	.024	.166	.083	.023	.162	.081	.023		

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.192	.158	.128	.164	.136	.110	.112	.094	.076	.065	.054	.044	.021	.017	.014	
2.0	.187	.135	.091	.161	.116	.078	.110	.080	.055	.063	.047	.032	.020	.015	.010	
3.0	.181	.118	.068	.155	.102	.059	.106	.071	.042	.061	.041	.024	.020	.013	.008	
4.0	.173	.105	.054	.148	.091	.047	.102	.064	.033	.059	.037	.020	.019	.012	.006	
5.0	.165	.096	.045	.141	.083	.039	.097	.058	.027	.056	.034	.016	.018	.011	.005	
6.0	.156	.087	.038	.134	.076	.033	.093	.053	.023	.054	.031	.014	.017	.010	.005	
7.0	.149	.081	.033	.128	.070	.029	.088	.049	.020	.051	.029	.012	.017	.009	.004	
8.0	.141	.075	.029	.122	.065	.026	.084	.046	.018	.049	.027	.011	.016	.009	.004	
9.0	.134	.070	.026	.116	.061	.023	.080	.043	.016	.047	.025	.010	.015	.008	.003	
10.0	.128	.066	.024	.110	.057	.021	.076	.040	.015	.045	.024	.009	.014	.008	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [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:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm											
NAME: LED Light					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: Ross Gardam					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	12.4	14.2	12.7	14.4	14.6	12.5	14.2	12.7	14.5	14.7	
	3H	15.5	17.2	15.8	17.5	17.7	15.6	17.3	15.9	17.5	17.8
	4H	17.1	18.7	17.5	19.0	19.3	17.2	18.8	17.5	19.1	19.4
	6H	18.6	20.1	18.9	20.4	20.7	18.6	20.1	18.9	20.4	20.7
	8H	19.1	20.6	19.5	20.9	21.2	19.0	20.5	19.4	20.8	21.2
	12H	19.4	20.9	19.8	21.2	21.5	19.4	20.8	19.7	21.1	21.4
4H	2H	13.5	15.1	13.8	15.4	15.7	13.5	15.1	13.9	15.4	15.7
	3H	16.8	18.2	17.1	18.5	18.8	16.8	18.2	17.2	18.6	18.9
	4H	18.5	19.8	18.9	20.2	20.5	18.5	19.9	18.9	20.2	20.6
	6H	20.1	21.3	20.5	21.7	22.0	20.1	21.3	20.5	21.6	22.0
	8H	20.7	21.8	21.1	22.2	22.6	20.6	21.7	21.0	22.1	22.5
	12H	21.1	22.1	21.5	22.5	22.9	21.0	22.0	21.4	22.4	22.8
8H	4H	19.2	20.3	19.6	20.7	21.1	19.2	20.3	19.6	20.7	21.1
	6H	20.9	21.9	21.4	22.3	22.8	20.9	21.9	21.4	22.3	22.7
	8H	21.6	22.5	22.1	22.9	23.4	21.6	22.4	22.0	22.9	23.3
	12H	22.2	22.9	22.7	23.4	23.9	22.0	22.8	22.5	23.3	23.8
12H	4H	19.3	20.3	19.7	20.7	21.2	19.3	20.4	19.8	20.8	21.2
	6H	21.1	22.0	21.6	22.4	22.9	21.1	22.0	21.6	22.4	22.9
	8H	21.9	22.6	22.4	23.1	23.6	21.8	22.6	22.3	23.0	23.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					

CIE Pub.117, 369.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.5)
 Area: 0.158963 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-02

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

UTILIZATION FACTORS TABLE

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	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	48	35	27	47	35	27	46	34	27	19
0.80	57	43	35	56	43	34	54	42	34	26
1.00	65	51	42	64	51	42	61	53	42	33
1.25	72	59	50	71	58	50	68	57	49	40
1.50	78	65	56	76	64	55	72	62	54	45
2.00	86	74	66	84	73	65	80	71	63	54
2.50	91	80	72	89	79	71	84	76	69	59
3.00	95	86	78	93	84	77	88	81	75	65
4.00	100	92	86	98	90	84	93	87	82	71
5.00	104	97	91	101	95	90	96	91	86	76
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004					Suspended			SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:Wilson
 Test Date:2022-12-02

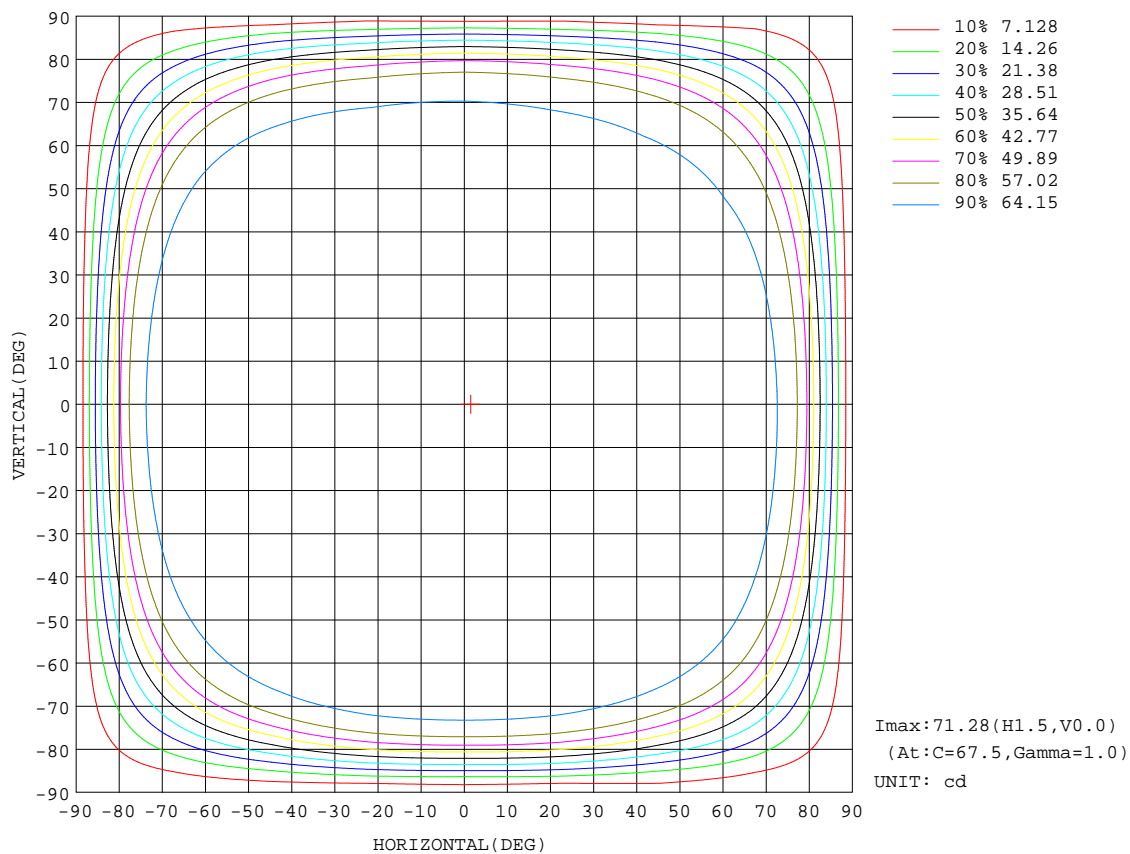
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOCANDELA DIAGRAM

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-12-02

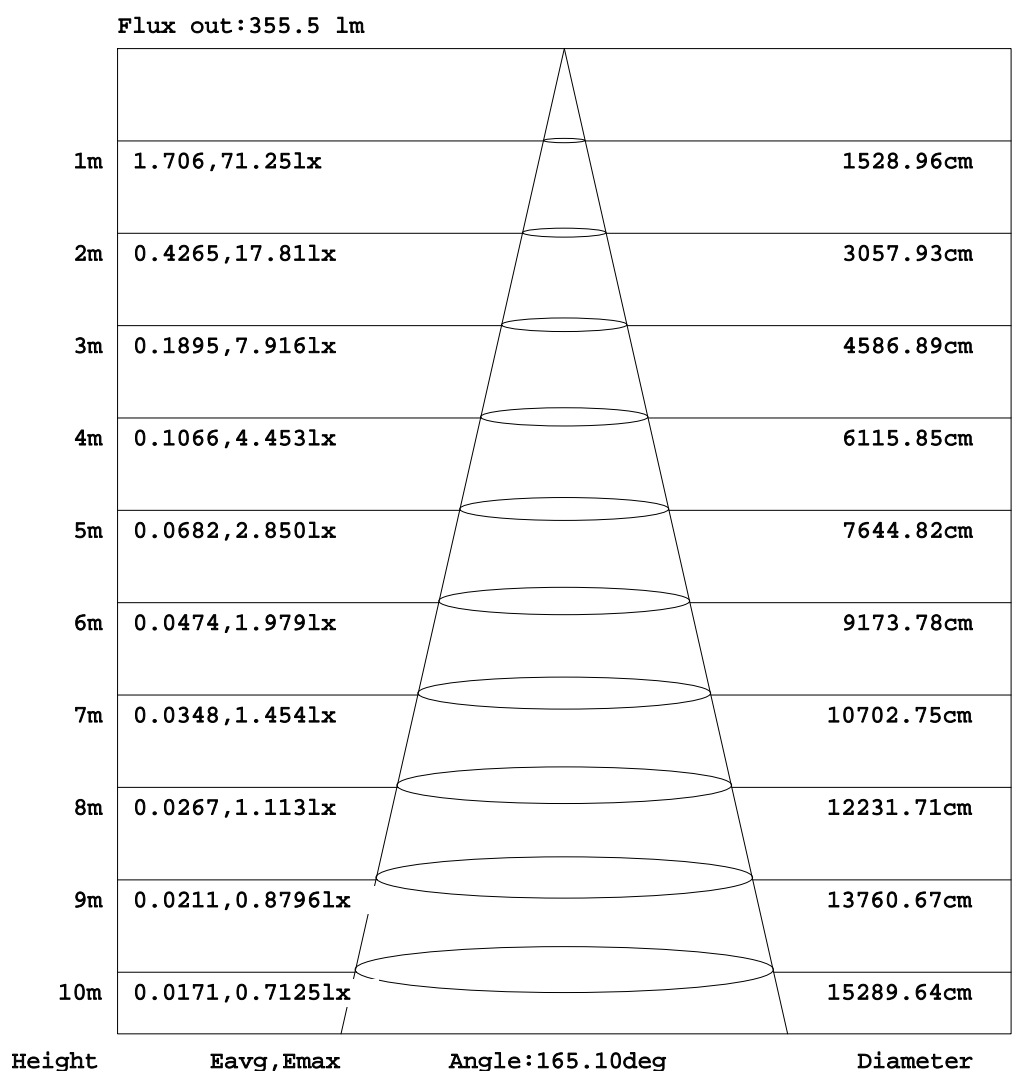
Checker: Near Gao

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

AAI Figure

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	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:2022-12-02

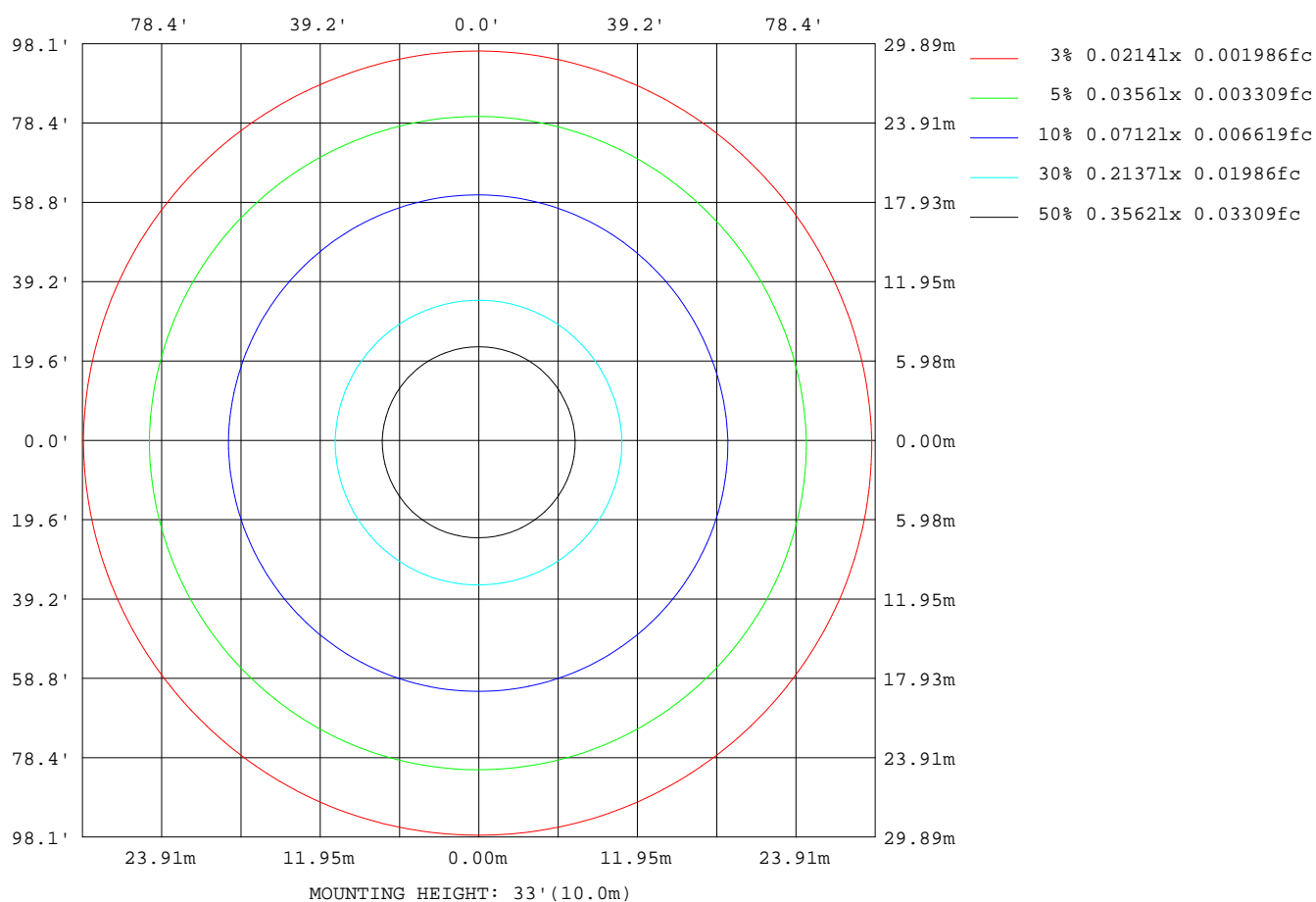
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOLUX DIAGRAM

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LED Avg.L Report

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1015
L_0~180(75)av	1495
L_0~180(85)av	1700
L_90~270(65)av	1007
L_90~270(75)av	1482
L_90~270(85)av	1690
L_45(65)av	1009
L_45(75)av	1482
L_45(85)av	1690

Standard: GB/T 29293-2012

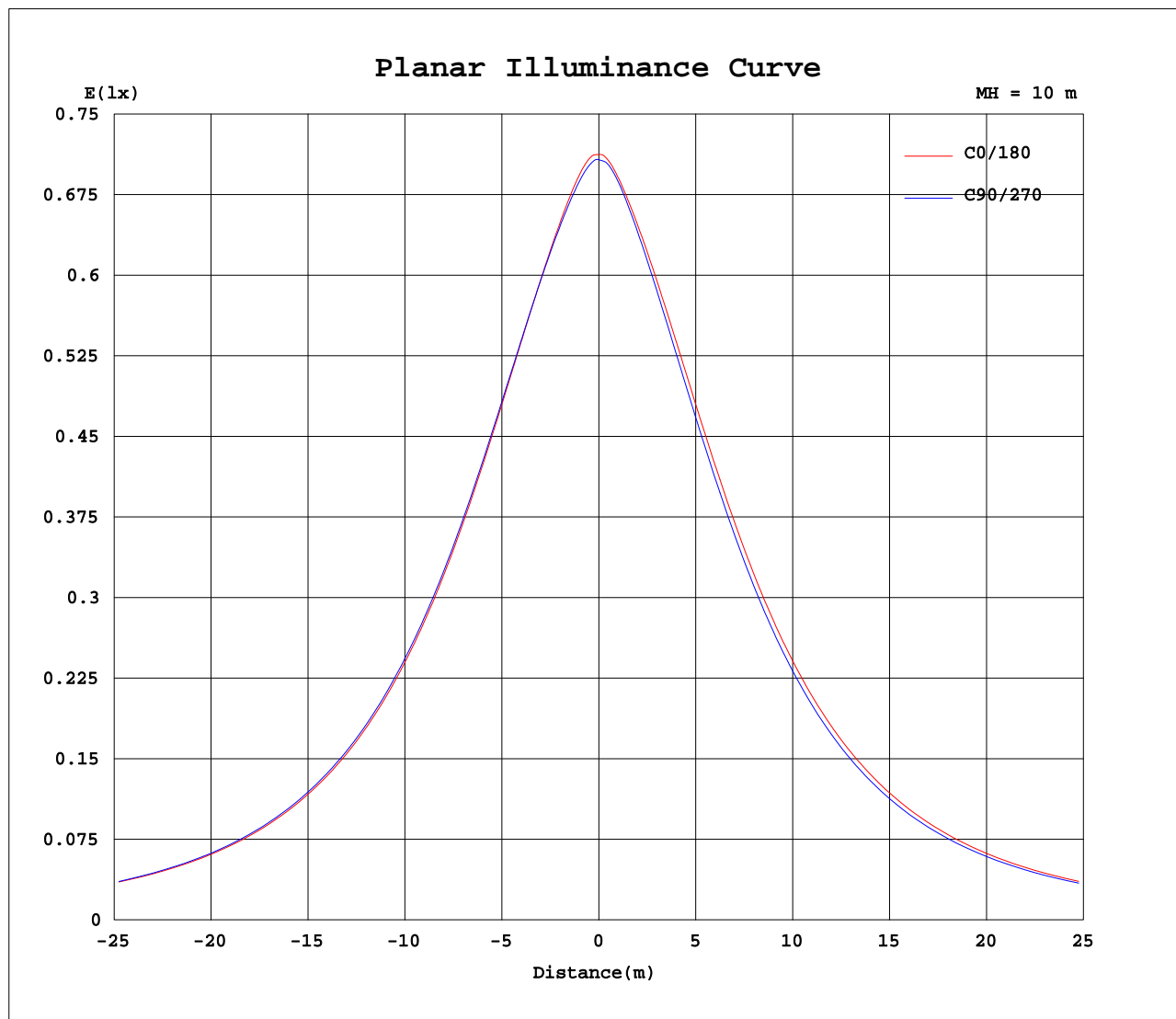
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Wilson
 Test Date: 2022-12-02

Checker: Near Gao

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.13V I:0.0504A P:11.313W PF:0.9757 Freq:50.00Hz Lamp Flux:369.786x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	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	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8			
5	70.2	70.2	70.1	70.1	70.0	70.1	70.0	70.0	69.9	69.9	69.9	69.9	70.0	70.1	70.2	70.2			
10	68.7	68.8	68.8	68.9	68.8	68.8	68.7	68.7	68.5	68.3	68.3	68.3	68.4	68.5	68.6	68.7			
15	67.7	67.8	67.9	68.0	68.0	68.0	67.9	67.8	67.5	67.2	67.1	66.9	67.0	67.2	67.3	67.5			
20	67.0	67.2	67.3	67.5	67.5	67.6	67.6	67.4	66.9	66.5	66.2	66.0	66.1	66.3	66.5	66.8			
25	66.7	66.9	67.1	67.3	67.4	67.6	67.5	67.3	66.7	66.1	65.7	65.5	65.5	65.8	66.1	66.4			
30	66.7	67.0	67.3	67.5	67.6	67.8	67.8	67.5	66.7	66.1	65.6	65.3	65.3	65.6	65.9	66.3			
35	66.8	67.2	67.6	67.8	67.9	68.2	68.1	67.8	67.0	66.2	65.7	65.3	65.3	65.5	66.0	66.4			
40	67.1	67.6	68.0	68.2	68.4	68.6	68.6	68.3	67.3	66.5	65.9	65.5	65.4	65.7	66.1	66.6			
45	67.4	68.0	68.5	68.7	68.9	69.1	69.1	68.8	67.8	66.9	66.2	65.8	65.6	65.8	66.2	66.8			
50	67.8	68.5	69.0	69.2	69.4	69.6	69.6	69.3	68.3	67.4	66.6	66.1	65.9	66.1	66.4	67.0			
55	68.1	68.9	69.4	69.6	69.8	70.0	70.0	69.7	68.8	67.8	66.9	66.4	66.2	66.2	66.5	67.2			
60	68.2	69.1	69.5	69.8	69.9	70.1	70.1	69.9	69.0	68.0	67.0	66.5	66.3	66.2	66.4	67.1			
65	67.7	68.7	69.0	69.3	69.3	69.6	69.6	69.5	68.7	67.7	66.7	66.1	65.9	65.7	65.9	66.6			
70	65.8	66.6	66.8	67.1	67.2	67.4	67.3	67.4	66.9	66.1	65.0	64.3	64.4	64.1	64.1	64.8			
75	60.9	61.5	61.5	62.0	61.8	62.0	61.7	62.1	62.2	61.7	60.7	59.8	60.2	59.8	60.0	60.5			
80	47.1	47.5	46.4	46.6	45.7	46.4	46.0	47.2	48.3	48.1	48.3	47.4	48.8	48.0	48.3	48.1			
85	23.1	23.2	22.1	22.0	21.2	21.8	21.6	22.7	24.0	24.0	24.9	24.7	25.6	24.9	25.1	24.6			
90	3.54	3.71	4.38	4.98	5.08	5.29	4.58	4.36	4.18	3.95	3.62	4.15	3.07	3.80	2.33	3.22			
95	0.46	0.33	0.07	0.13	0.17	0.14	0.06	0.34	2.07	0.68	0.05	0.16	0.24	0.18	0.05	0.36			
100	0.13	0.10	0.09	0.09	0.06	0.08	0.09	0.11	0.12	0.10	0.06	0.08	0.04	0.08	0.07	0.08			
105	0.08	0.08	0.08	0.08	0.07	0.07	0.09	0.09	0.06	0.06	0.07	0.09	0.08	0.08	0.07	0.07			
110	0.10	0.08	0.08	0.07	0.07	0.07	0.08	0.08	0.09	0.08	0.06	0.07	0.05	0.06	0.06	0.07			
115	0.10	0.08	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.06	0.07	0.06	0.06	0.06	0.06			
120	0.09	0.08	0.08	0.08	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06	0.06			
125	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.09	0.08	0.07	0.07	0.08	0.08	0.07	0.07	0.07			
130	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07			
135	0.09	0.09	0.08	0.08	0.08	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08			
140	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.09	0.09			
145	0.09	0.09	0.08	0.07	0.08	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.09	0.09			
150	0.09	0.09	0.08	0.07	0.08	0.07	0.08	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.09	0.10			
155	0.09	0.09	0.09	0.07	0.08	0.07	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.09	0.09			
160	0.09	0.09	0.09	0.07	0.08	0.07	0.09	0.09	0.09	0.10	0.09	0.08	0.07	0.07	0.08	0.09			
165	0.09	0.10	0.09	0.08	0.08	0.08	0.10	0.10	0.09	0.09	0.09	0.07	0.07	0.07	0.08	0.09			
170	0.10	0.10	0.10	0.08	0.10	0.09	0.10	0.10	0.09	0.09	0.09	0.07	0.08	0.07	0.08	0.09			
175	0.11	0.11	0.11	0.10	0.10	0.09	0.11	0.11	0.10	0.10	0.10	0.09	0.09	0.08	0.09	0.10			
180	0.10	0.10	0.10	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.09	0.10	0.09	0.10	0.10			

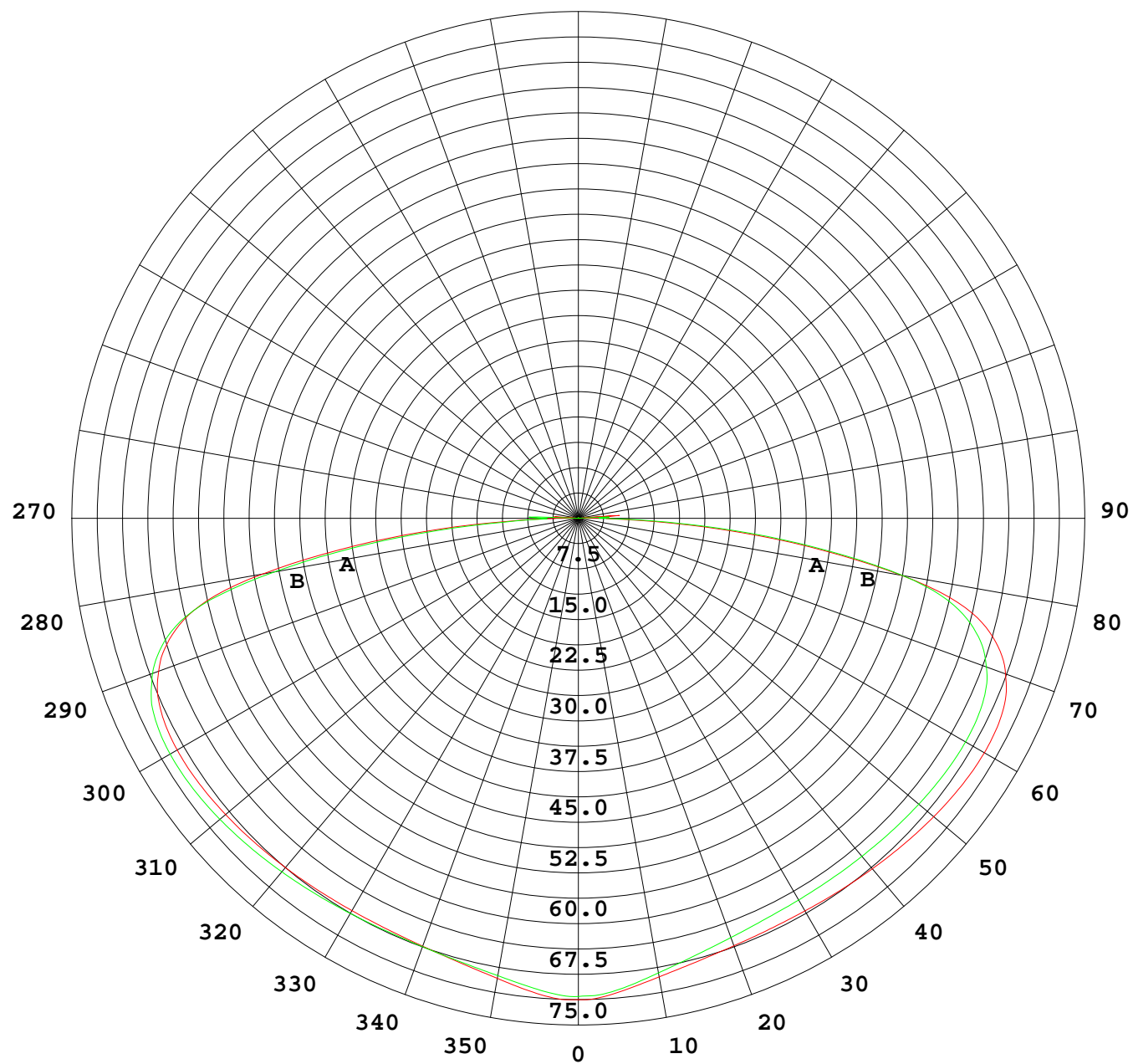
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Checker: Near Gao

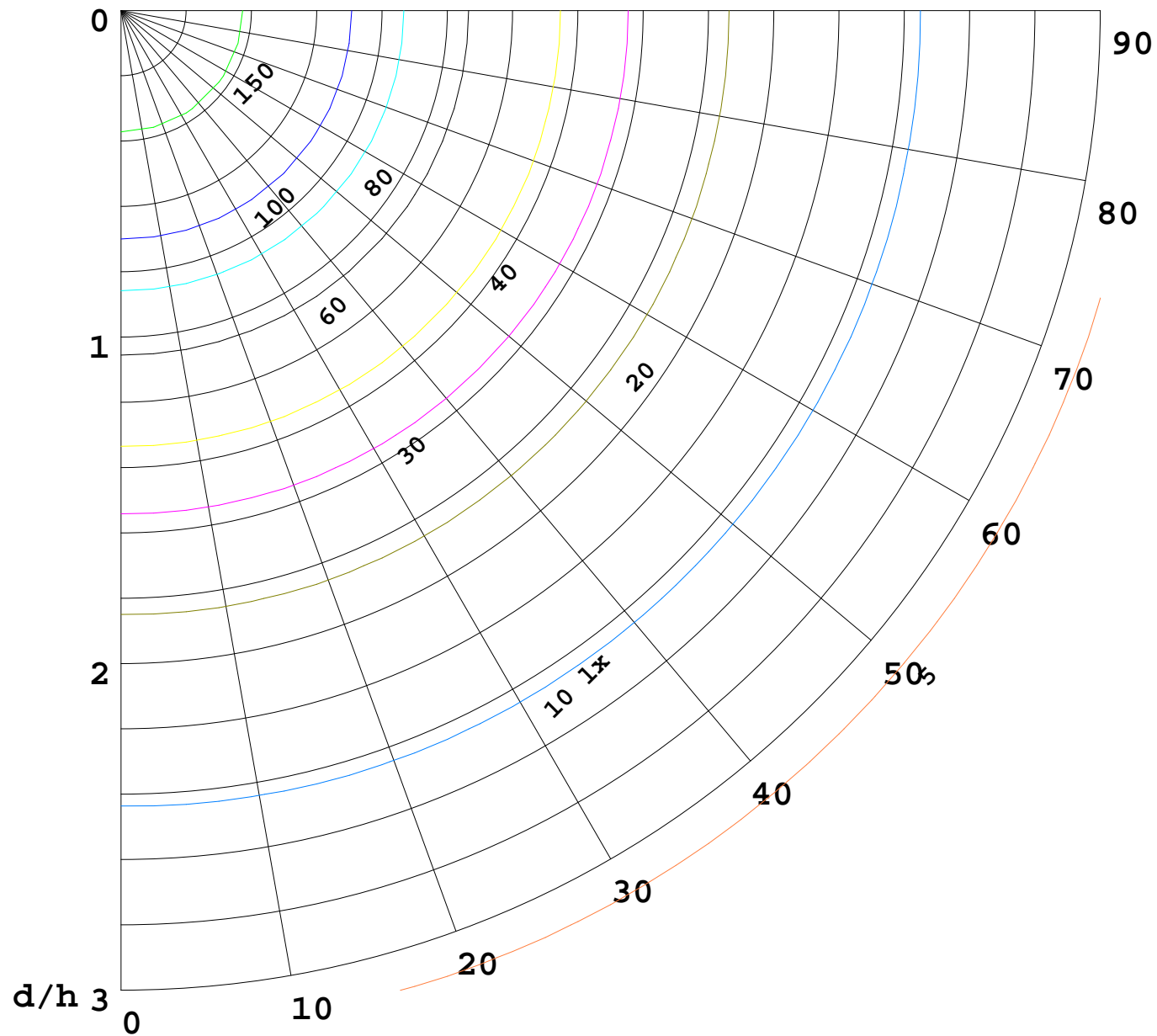
Assessor: Akin Xu

I(cd)



1000 lm

$\kappa = 1$



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

