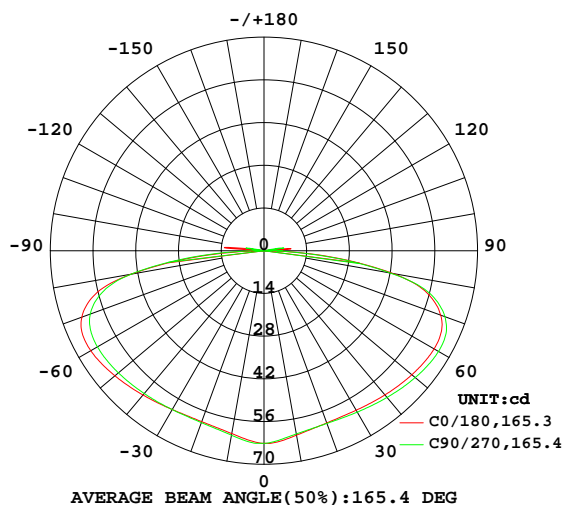


LUMINAIRE PHOTOMETRIC TEST REPORT

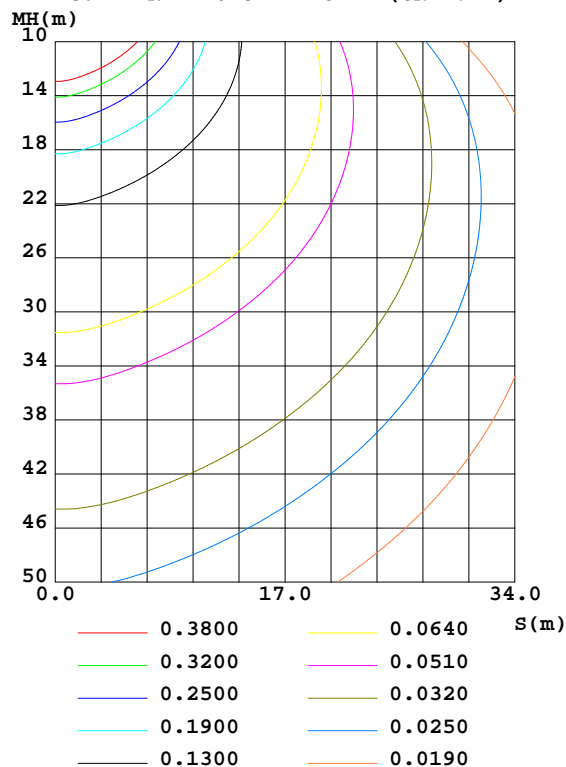
Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 30.36 lm/W			
Polar Model	Wall-White rear shade	Imax(cd)	66.31	S/MH(C0/180)	1.49
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.48
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	344.39	η UP,DN(C0-180)	0.6,49.8
NOMINAL FLUX(lm)	344.386	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.2
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	230	η down(%)	98.9	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

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

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	61.38	61.15	60.98	60.88	60.85	61.08	61.39	61.57	0- 10	5.915	5.915	1.72,1.72
20	60.06	60.13	60.24	60.01	59.62	59.68	59.96	60.10	10- 20	17.11	23.02	6.68,6.68
30	60.36	60.70	61.09	60.70	60.10	59.95	60.10	60.14	20- 30	27.81	50.83	14.8,14.8
40	61.66	62.16	62.75	62.38	61.73	61.26	61.08	61.05	30- 40	38.36	89.20	25.9,25.9
50	63.24	63.92	64.67	64.46	63.78	62.93	62.27	62.25	40- 50	48.50	137.7	40,40
60	64.37	65.20	66.02	66.18	65.54	64.24	63.03	63.05	50- 60	57.59	195.3	56.7,56.7
70	61.59	62.55	63.07	63.92	63.50	61.90	60.57	60.56	60- 70	63.63	258.9	75.2,75.2
80	42.72	42.73	42.01	42.65	44.05	44.12	44.18	43.68	70- 80	58.59	317.5	92.2,92.2
90	2.913	4.133	4.980	5.341	3.961	2.925	2.438	2.297	80- 90	23.16	340.7	98.9,98.9
100	0.3456	0.3356	4.878	1.086	0.2807	0.2255	4.925	0.6198	90-100	2.604	343.3	99.7,99.7
110	0.1212	0.1548	0.2104	0.1776	0.1230	0.1571	0.2520	0.1747	100-110	0.5782	343.8	99.8,99.8
120	0.1275	0.1117	0.1512	0.1091	0.1260	0.1061	0.1797	0.1041	110-120	0.1453	344.0	99.9,99.9
130	0.1188	0.1054	0.1558	0.1076	0.1139	0.1043	0.1662	0.1074	120-130	0.1118	344.1	99.9,99.9
140	0.1059	0.1026	0.1474	0.0991	0.1160	0.1069	0.1470	0.0999	130-140	0.0925	344.2	99.9,99.9
150	0.1125	0.1246	0.1196	0.1472	0.1299	0.1537	0.1099	0.1447	140-150	0.0780	344.3	100,100
160	0.1282	0.1299	0.1403	0.1632	0.1578	0.1580	0.1287	0.1373	150-160	0.0621	344.3	100,100
170	0.1526	0.1385	0.1347	0.1754	0.1686	0.1716	0.1069	0.1115	160-170	0.0391	344.4	100,100
180	0.1432	0.1649	0.1642	0.1606	0.1449	0.1677	0.1635	0.1617	170-180	0.0138	344.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 112.23 lm

%lum = 32.6%

%lamp = 32.6%

Conical surface Flux(120deg): 195.29 lm

%lum = 56.7%

%lamp = 56.7%

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

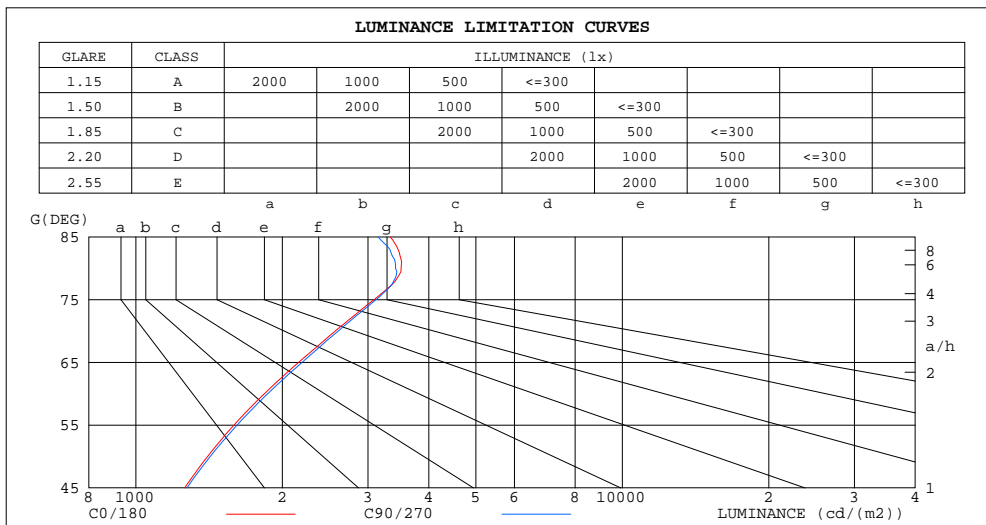
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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	3335	3146
80	3510	3419
75	3087	3117
70	2569	2606
65	2160	2195
60	1837	1866
55	1591	1614
50	1404	1422
45	1260	1273

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

Checker: Near Gao

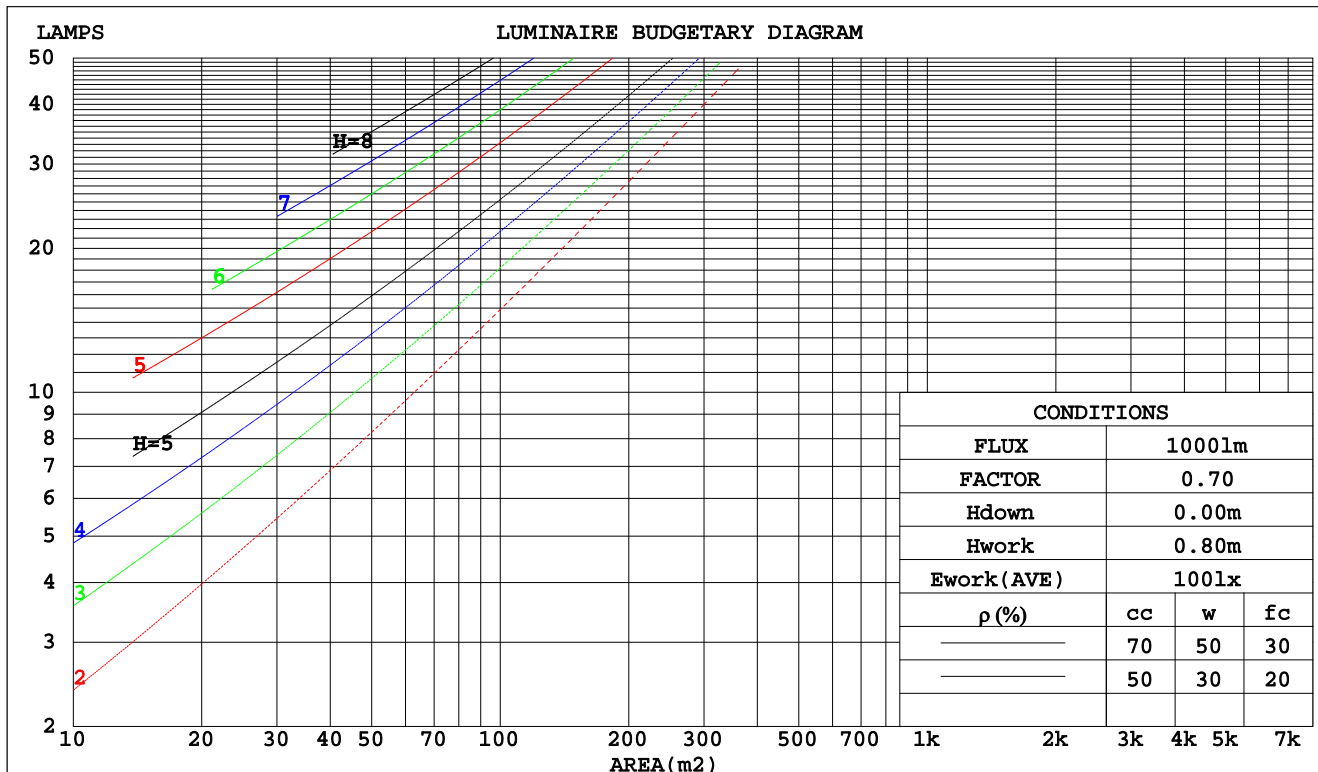
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity: 60.5%
 Test Distance: 2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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	1.01	1.01	1.01	.99
1.0	.97	.91	.86	.95	.89	.84	.90	.86	.81	.86	.82	.79	.82	.79	.76	.73
2.0	.81	.72	.64	.79	.71	.64	.75	.68	.62	.71	.65	.60	.68	.63	.59	.56
3.0	.69	.58	.50	.67	.57	.50	.64	.55	.49	.60	.53	.47	.58	.52	.46	.44
4.0	.59	.49	.41	.58	.48	.40	.55	.46	.39	.52	.45	.39	.50	.43	.38	.35
5.0	.52	.41	.34	.51	.41	.33	.48	.40	.33	.46	.38	.32	.44	.37	.32	.29
6.0	.46	.36	.28	.45	.35	.28	.43	.34	.28	.41	.33	.27	.39	.32	.27	.25
7.0	.41	.31	.24	.40	.31	.24	.39	.30	.24	.37	.29	.24	.36	.29	.23	.21
8.0	.37	.28	.21	.37	.28	.21	.35	.27	.21	.34	.26	.21	.32	.26	.20	.18
9.0	.34	.25	.19	.33	.25	.19	.32	.24	.19	.31	.24	.18	.30	.23	.18	.16
10.0	.31	.23	.17	.31	.22	.17	.30	.22	.17	.29	.21	.16	.28	.21	.16	.14



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:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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	.432	.246	.078	.424	.242	.077	.410	.235	.075	.396	.229	.073	.384	.223	.072		
2.0	.380	.208	.064	.373	.206	.063	.360	.200	.062	.348	.195	.061	.337	.191	.060		
3.0	.337	.179	.054	.330	.177	.053	.319	.173	.052	.308	.169	.052	.298	.165	.051		
4.0	.300	.156	.046	.295	.154	.046	.284	.151	.045	.275	.148	.045	.266	.144	.044		
5.0	.271	.138	.040	.266	.136	.040	.256	.134	.039	.248	.131	.039	.240	.128	.038		
6.0	.246	.123	.035	.242	.122	.035	.233	.120	.035	.226	.117	.034	.218	.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	.185	.095	.028		
9.0	.192	.093	.026	.189	.092	.026	.183	.091	.026	.178	.089	.025	.172	.088	.025		
10.0	.179	.086	.024	.176	.085	.024	.171	.084	.024	.166	.082	.023	.161	.081	.023		

ρcc	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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.197	.163	.133	.169	.140	.114	.115	.096	.079	.066	.056	.046	.021	.018	.015	
2.0	.192	.140	.096	.165	.120	.083	.113	.083	.058	.065	.048	.034	.021	.016	.011	
3.0	.186	.123	.073	.159	.106	.064	.109	.074	.045	.063	.043	.026	.020	.014	.009	
4.0	.178	.111	.059	.153	.096	.051	.105	.067	.036	.061	.039	.021	.020	.013	.007	
5.0	.170	.101	.050	.146	.087	.043	.100	.061	.030	.058	.036	.018	.019	.012	.006	
6.0	.162	.093	.043	.139	.080	.037	.096	.056	.026	.056	.033	.016	.018	.011	.005	
7.0	.154	.086	.038	.132	.074	.033	.091	.052	.024	.053	.031	.014	.017	.010	.005	
8.0	.146	.080	.034	.126	.069	.030	.087	.049	.021	.051	.029	.013	.016	.009	.004	
9.0	.139	.075	.032	.120	.065	.028	.083	.046	.020	.049	.027	.012	.016	.009	.004	
10.0	.133	.071	.029	.115	.061	.026	.080	.043	.018	.046	.026	.011	.015	.008	.004	

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:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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	15.0	16.8	15.3	17.0	17.3	15.1	16.8	15.4	17.1	17.3	
	3H	18.1	19.8	18.5	20.1	20.4	18.2	19.9	18.5	20.1	20.4
	4H	19.7	21.3	20.1	21.6	21.9	19.8	21.4	20.1	21.7	22.0
	6H	21.1	22.6	21.5	22.9	23.3	21.1	22.6	21.5	22.9	23.3
	8H	21.6	23.1	22.0	23.4	23.7	21.6	23.0	21.9	23.4	23.7
	12H	21.9	23.3	22.3	23.7	24.0	21.9	23.3	22.3	23.6	24.0
4H 2H	16.1	17.7	16.5	18.0	18.3	16.2	17.8	16.5	18.0	18.3	
	3H	19.4	20.8	19.8	21.1	21.5	19.4	20.8	19.8	21.2	21.5
	4H	21.1	22.4	21.5	22.7	23.1	21.1	22.4	21.5	22.8	23.2
	6H	22.6	23.8	23.0	24.2	24.6	22.6	23.8	23.0	24.2	24.6
	8H	23.1	24.3	23.6	24.7	25.1	23.1	24.2	23.5	24.6	25.0
	12H	23.5	24.6	24.0	25.0	25.4	23.5	24.5	23.9	24.9	25.4
8H 4H	21.7	22.8	22.2	23.2	23.7	21.8	22.9	22.2	23.3	23.7	
	6H	23.4	24.4	23.9	24.8	25.3	23.4	24.4	23.9	24.8	25.3
	8H	24.1	25.0	24.6	25.4	25.9	24.1	24.9	24.5	25.4	25.9
	12H	24.6	25.4	25.1	25.8	26.3	24.5	25.3	25.0	25.8	26.3
12H 4H	21.8	22.9	22.3	23.3	23.7	21.9	22.9	22.3	23.3	23.8	
	6H	23.6	24.5	24.1	24.9	25.4	23.6	24.5	24.1	24.9	25.4
	8H	24.3	25.1	24.8	25.6	26.1	24.3	25.1	24.8	25.5	26.0
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, 344.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.7)
 Area: 0.07065 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:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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) x RCR = 5									
k = 0.60	48	34	26	47	34	26	45	33	26	19
0.80	57	43	34	56	42	34	53	41	33	25
1.00	65	51	42	63	50	42	61	52	41	32
1.25	72	59	49	70	58	49	67	56	48	39
1.50	77	65	55	76	64	55	72	62	54	44
2.00	86	74	65	83	73	64	79	70	63	53
2.50	91	80	72	88	79	71	84	76	69	59
3.00	95	85	78	92	84	77	88	80	74	64
4.00	100	92	86	97	90	84	93	87	81	71
5.00	104	97	91	101	95	89	96	91	86	76
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:2022-12-02

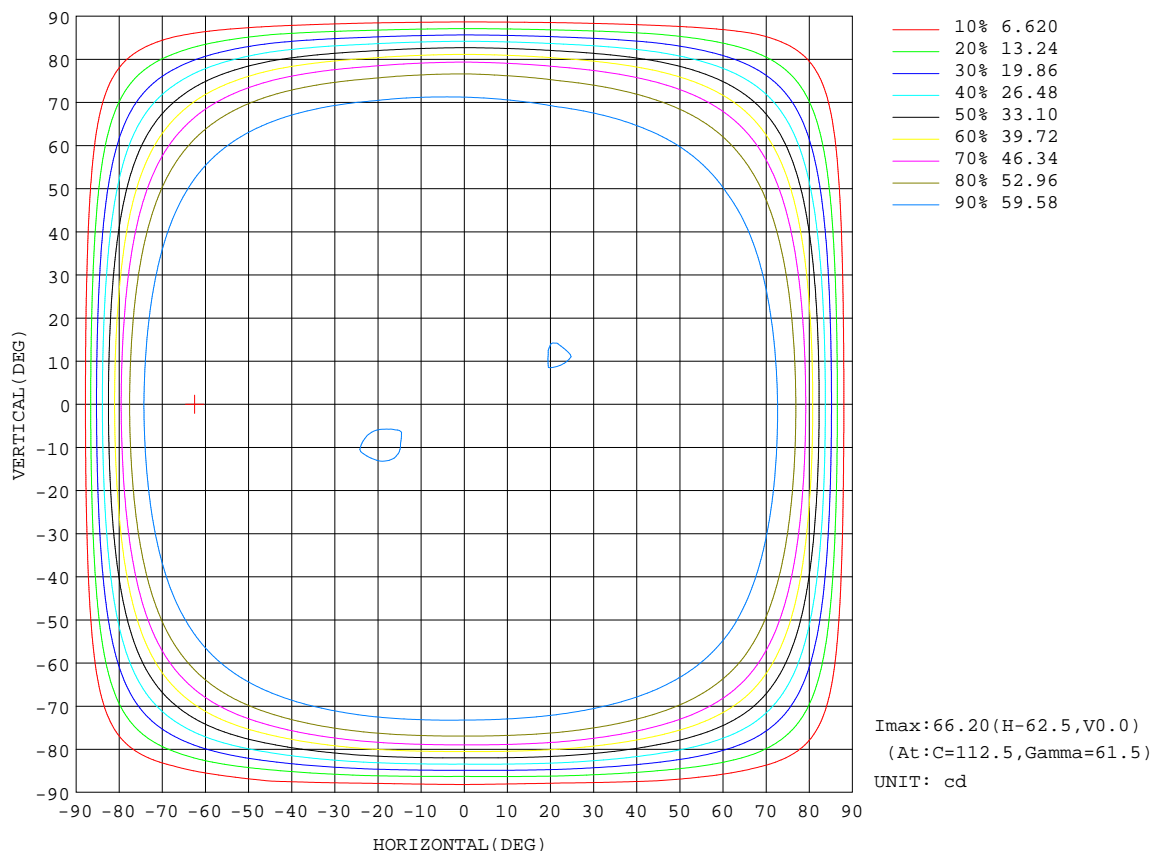
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOCANDELA DIAGRAM

Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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

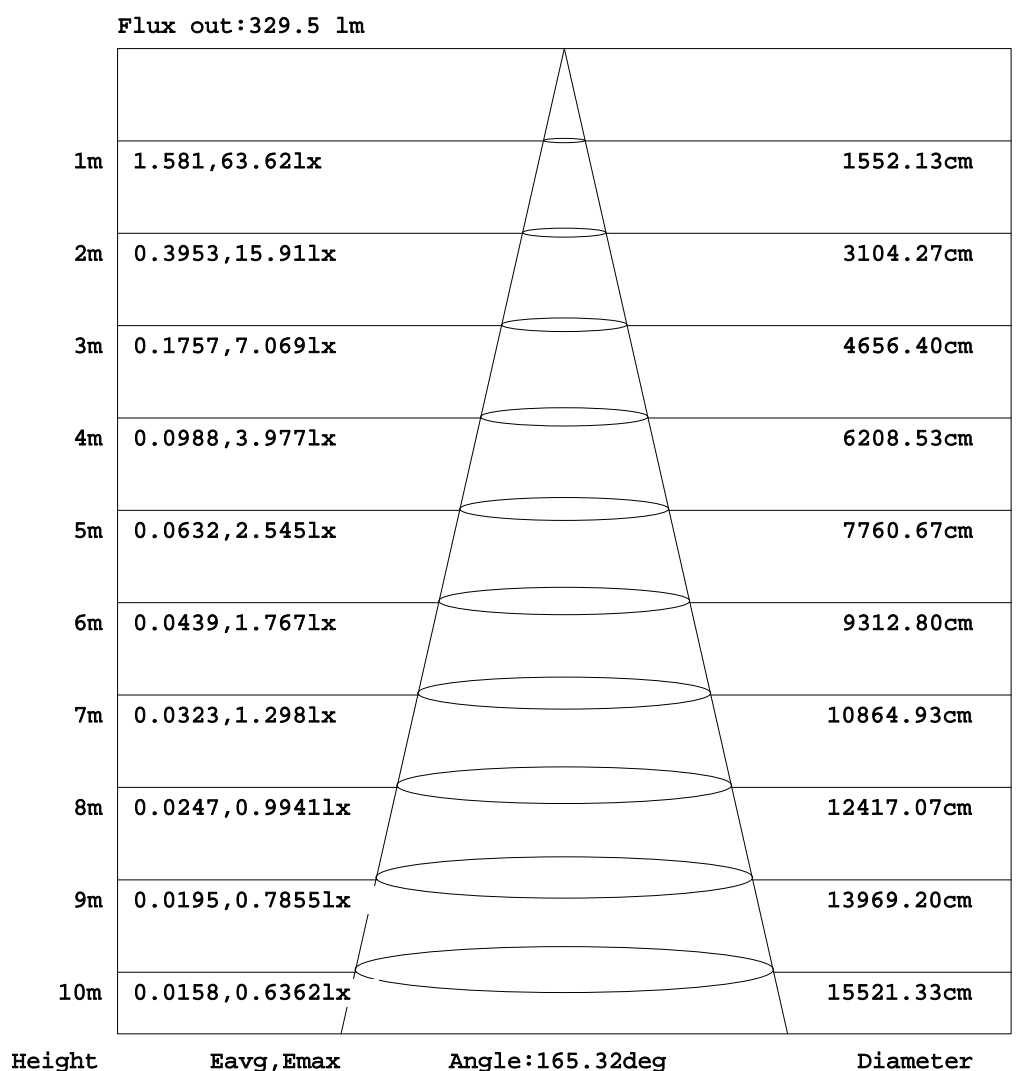
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
 Humidity:60.5%
 Test Distance:2.617m [K=1.0000]
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

AAI Figure

Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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

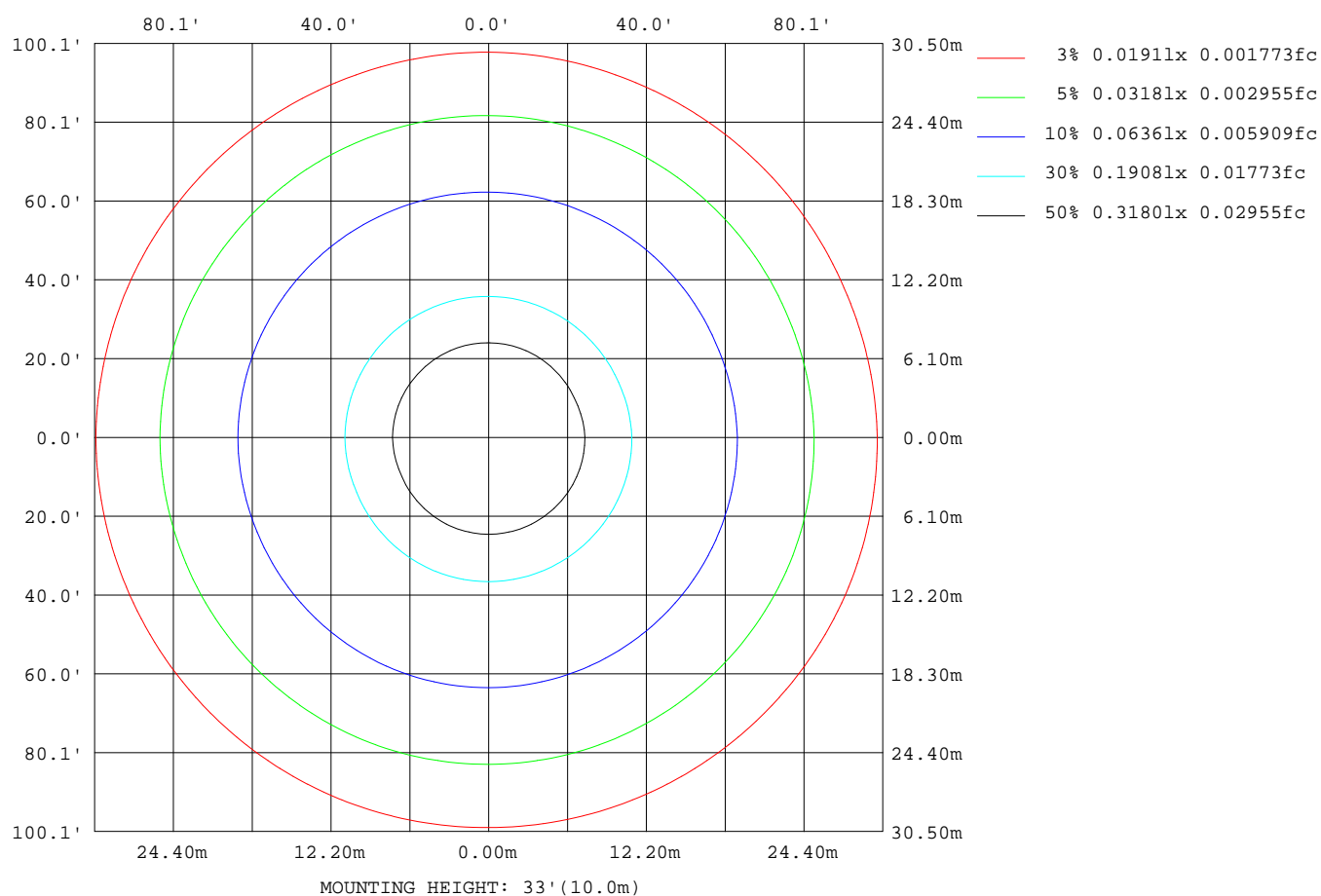
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOLUX DIAGRAM

Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	2168
L_0~180(75)av	3117
L_0~180(85)av	3355
L_90~270(65)av	2147
L_90~270(75)av	3080
L_90~270(85)av	3424
L_45(65)av	2157
L_45(75)av	3099
L_45(85)av	3434

Standard: GB/T 29293-2012

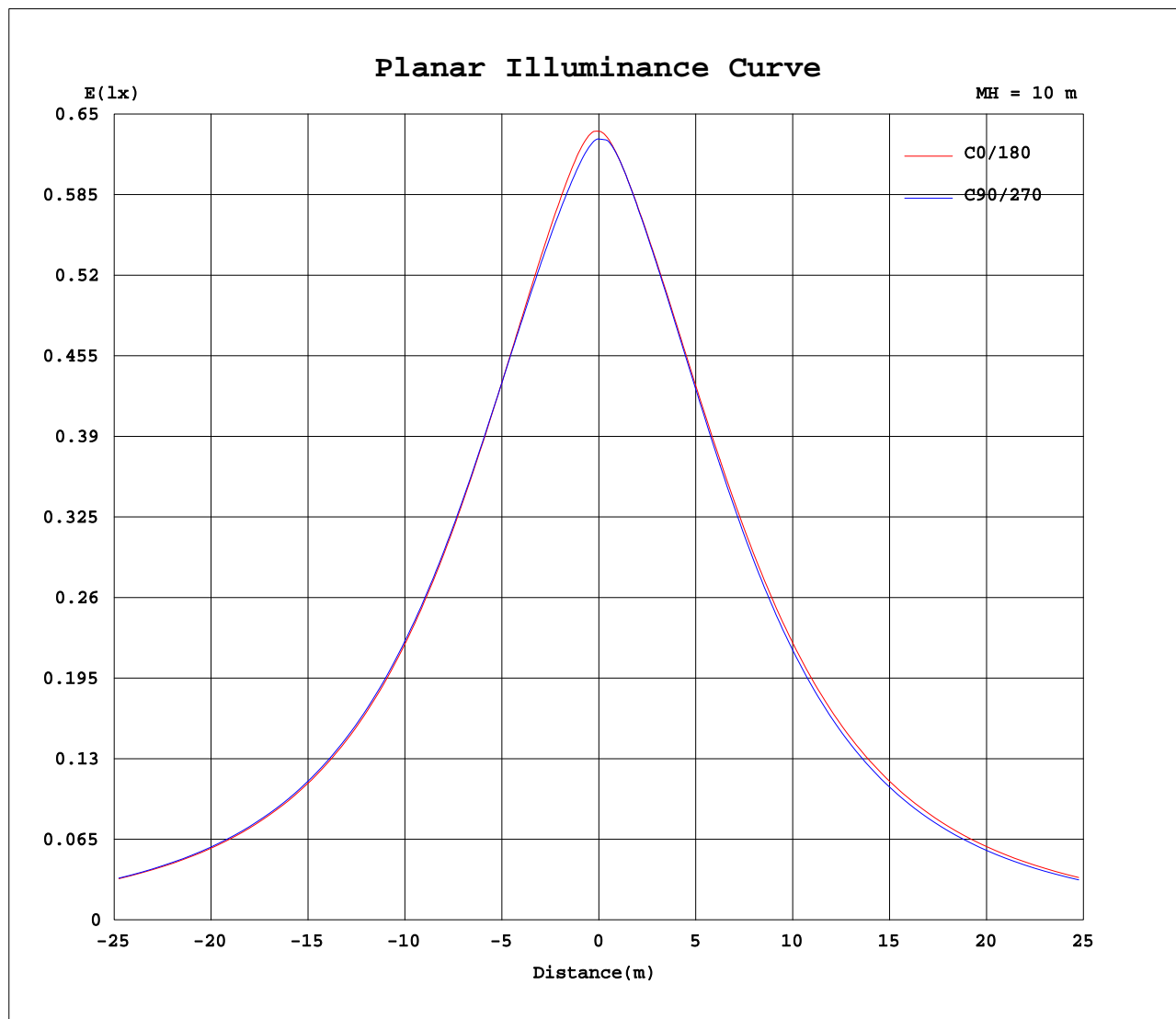
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.1DEG
Operators:Wilson
Test Date:2022-12-02

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
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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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.21V I:0.0505A P:11.344W PF:0.9757 Freq:50.00Hz Lamp Flux:344.386x1 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	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1			
5	62.6	62.5	62.3	62.3	62.1	62.1	62.1	62.1	62.2	62.2	62.4	62.5	62.7	62.8	62.8	62.7			
10	61.4	61.3	61.1	61.1	61.0	61.0	60.9	60.8	60.9	60.9	61.1	61.2	61.4	61.5	61.6	61.5			
15	60.5	60.5	60.4	60.4	60.4	60.3	60.2	60.1	60.0	60.0	60.1	60.3	60.4	60.5	60.6	60.6			
20	60.1	60.1	60.1	60.2	60.2	60.2	60.0	59.8	59.6	59.6	59.7	59.8	60.0	60.0	60.1	60.1			
25	60.0	60.1	60.3	60.5	60.5	60.4	60.2	59.9	59.7	59.6	59.6	59.8	59.9	59.9	60.0	60.0			
30	60.4	60.5	60.7	61.0	61.1	61.0	60.7	60.4	60.1	60.0	60.0	60.1	60.1	60.1	60.1	60.2			
35	61.0	61.1	61.4	61.7	61.8	61.8	61.5	61.2	60.8	60.7	60.5	60.5	60.6	60.5	60.5	60.7			
40	61.7	61.9	62.2	62.5	62.7	62.7	62.4	62.1	61.7	61.5	61.3	61.2	61.1	61.0	61.1	61.3			
45	62.5	62.8	63.0	63.4	63.7	63.7	63.4	63.1	62.7	62.5	62.1	61.9	61.7	61.6	61.6	62.0			
50	63.2	63.6	63.9	64.3	64.7	64.7	64.5	64.2	63.8	63.5	62.9	62.6	62.3	62.1	62.2	62.7			
55	63.9	64.4	64.7	65.1	65.5	65.6	65.5	65.3	64.8	64.4	63.7	63.2	62.8	62.6	62.8	63.3			
60	64.4	64.8	65.2	65.6	66.0	66.3	66.2	66.1	65.5	65.0	64.2	63.5	63.0	62.8	63.1	63.7			
65	64.0	64.5	64.9	65.3	65.6	66.0	66.1	66.1	65.5	64.9	64.0	63.1	62.6	62.3	62.6	63.3			
70	61.6	62.3	62.6	62.8	63.1	63.6	63.9	64.1	63.5	62.9	61.9	60.9	60.6	60.2	60.6	61.1			
75	56.0	56.9	57.0	57.2	57.1	57.8	58.1	58.5	58.0	57.3	56.4	55.5	55.5	54.9	55.2	55.7			
80	42.7	43.4	42.7	42.9	42.0	42.9	42.7	43.6	44.0	43.7	44.1	43.4	44.2	43.5	43.7	43.7			
85	20.4	20.6	20.2	20.2	19.4	19.8	19.6	20.0	21.0	21.1	22.3	21.9	22.8	22.2	22.5	21.7			
90	2.91	3.25	4.13	4.47	4.98	5.08	5.34	4.38	3.96	3.59	2.93	2.57	2.44	2.37	2.30	2.33			
95	8.69	7.65	0.66	0.18	0.18	0.22	0.43	9.60	12.9	9.78	2.20	0.21	0.25	0.22	0.20	6.07			
100	0.35	0.26	0.34	8.24	4.88	8.36	1.09	0.29	0.28	0.26	0.23	8.43	4.93	5.95	0.62	0.27			
105	0.17	0.17	0.17	0.30	0.28	0.31	0.21	0.19	0.15	0.16	0.16	0.36	0.32	0.32	0.20	0.15			
110	0.12	0.13	0.15	0.22	0.21	0.22	0.18	0.15	0.12	0.12	0.16	0.25	0.25	0.24	0.17	0.12			
115	0.13	0.13	0.13	0.14	0.16	0.16	0.13	0.14	0.13	0.12	0.12	0.18	0.20	0.18	0.13	0.11			
120	0.13	0.11	0.11	0.13	0.15	0.15	0.11	0.12	0.13	0.12	0.11	0.16	0.18	0.15	0.10	0.10			
125	0.12	0.11	0.10	0.14	0.15	0.15	0.09	0.11	0.12	0.11	0.09	0.16	0.17	0.15	0.08	0.10			
130	0.12	0.11	0.11	0.12	0.16	0.12	0.11	0.11	0.11	0.11	0.10	0.11	0.17	0.15	0.11	0.10			
135	0.11	0.11	0.10	0.14	0.14	0.14	0.11	0.11	0.11	0.11	0.12	0.16	0.12	0.14	0.12	0.11			
140	0.11	0.11	0.10	0.13	0.15	0.15	0.10	0.12	0.12	0.12	0.11	0.16	0.15	0.15	0.10	0.11			
145	0.11	0.10	0.12	0.12	0.12	0.12	0.13	0.12	0.12	0.12	0.14	0.12	0.14	0.12	0.14	0.12			
150	0.11	0.11	0.12	0.14	0.12	0.14	0.15	0.12	0.13	0.11	0.15	0.15	0.11	0.12	0.14	0.11			
155	0.12	0.13	0.14	0.15	0.13	0.13	0.16	0.13	0.14	0.11	0.16	0.13	0.12	0.15	0.13	0.11			
160	0.13	0.13	0.13	0.15	0.14	0.13	0.16	0.17	0.16	0.16	0.16	0.14	0.13	0.15	0.14	0.14			
165	0.14	0.14	0.13	0.12	0.12	0.12	0.14	0.18	0.17	0.17	0.12	0.10	0.10	0.10	0.11	0.15			
170	0.15	0.15	0.14	0.12	0.13	0.13	0.18	0.18	0.17	0.17	0.17	0.11	0.11	0.10	0.11	0.14			
175	0.16	0.15	0.14	0.15	0.16	0.14	0.16	0.17	0.16	0.17	0.15	0.13	0.12	0.13	0.13	0.12			
180	0.14	0.16	0.16	0.15	0.16	0.15	0.16	0.16	0.14	0.16	0.17	0.15	0.16	0.15	0.16	0.16			

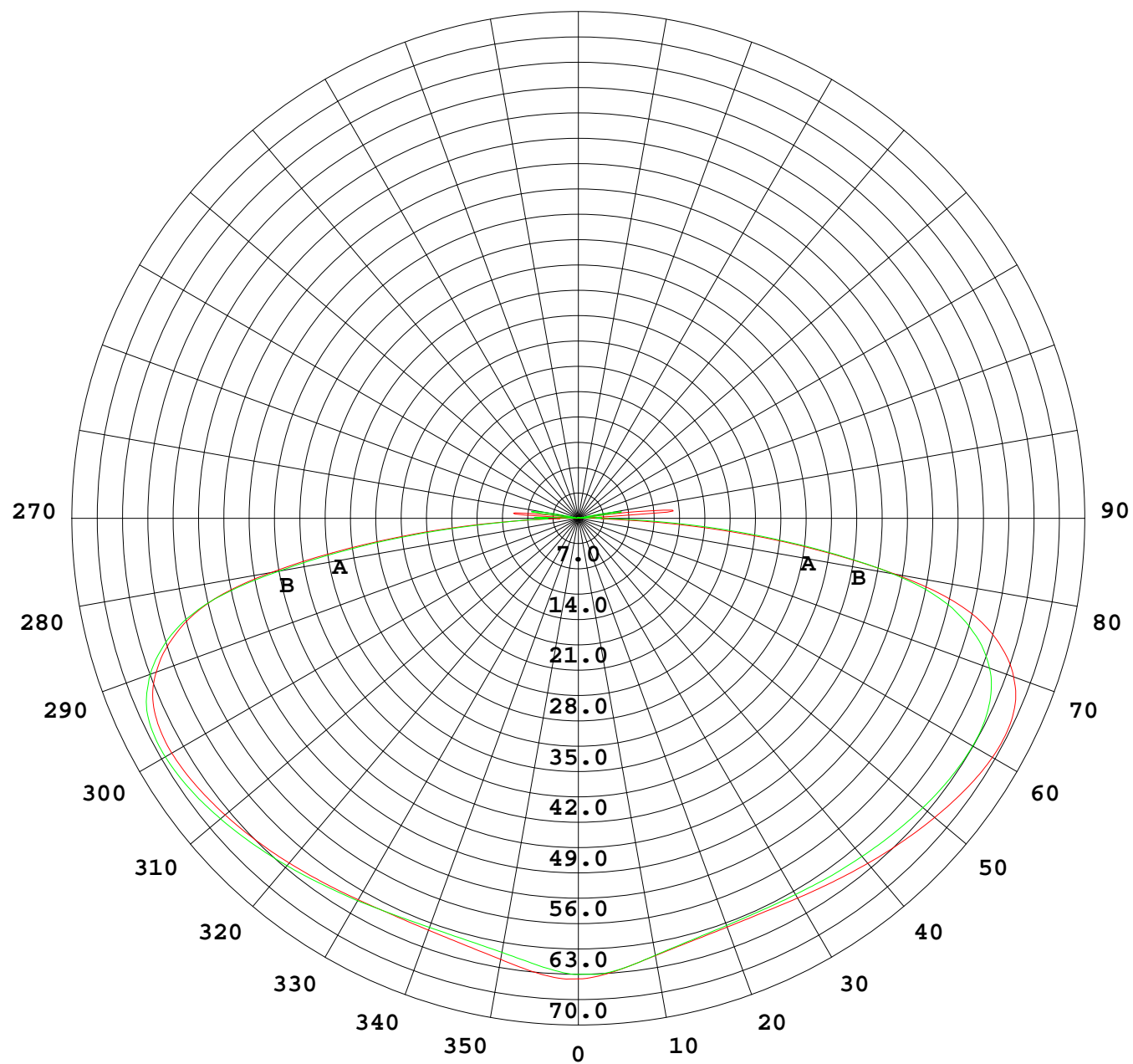
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Checker: Near Gao

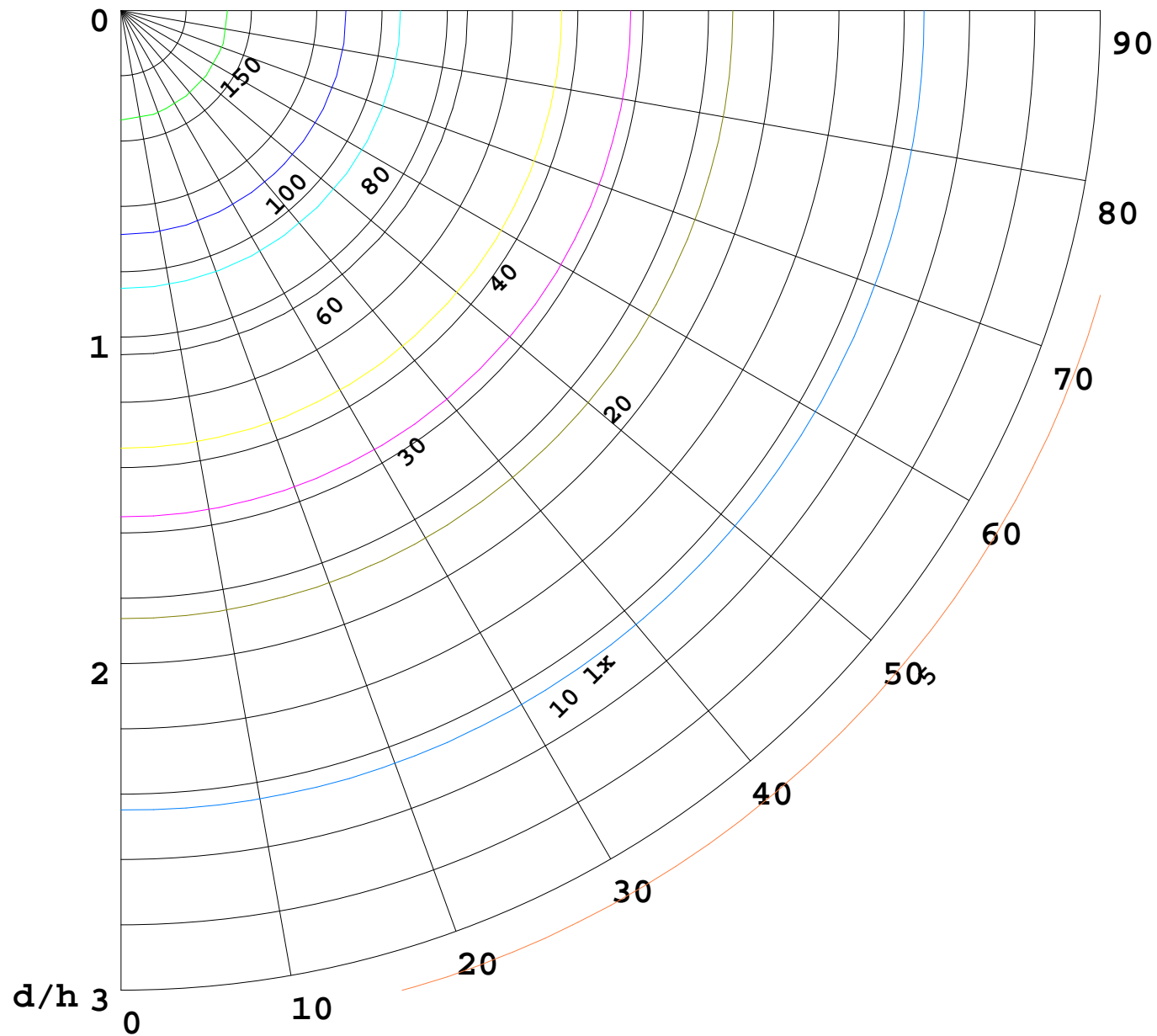
Assessor: Akin Xu

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

