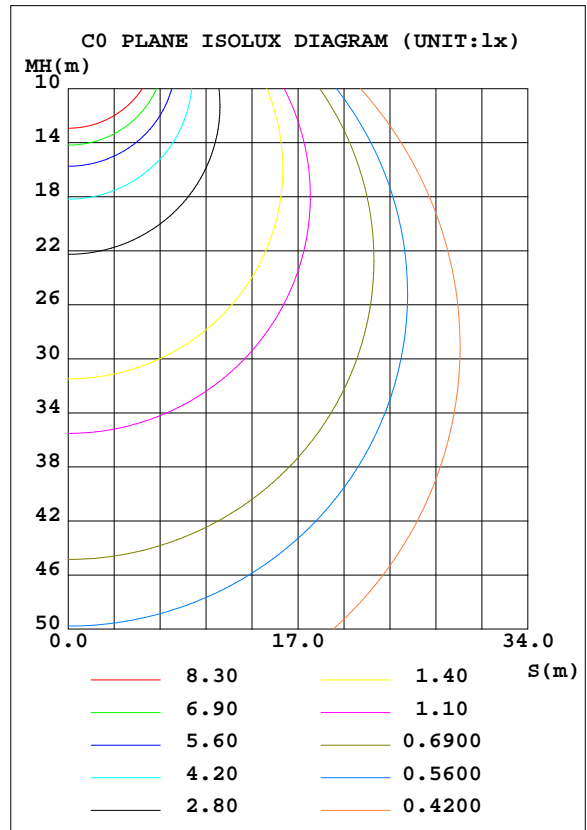
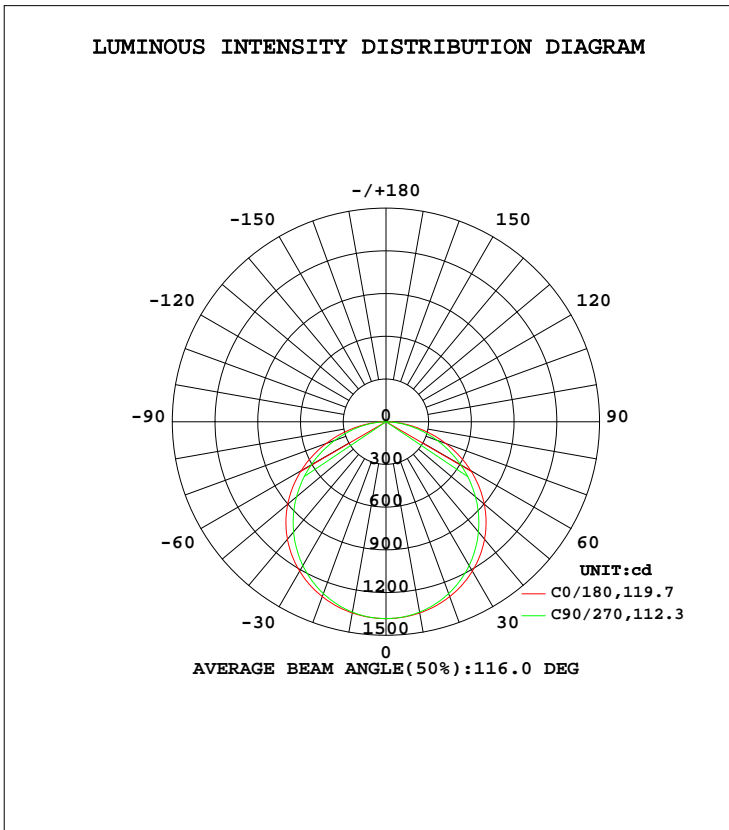


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mmDIM.White	SERIAL No.:	
MFR.: Shada BV	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.07 lm/W			
MODEL	801088	I <sub>max</sub> (cd)	1382	S/MH(C0/180)	1.30
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4123.6	η UP, DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	4123.58	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Wilson  
 Test Date:2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-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	1364	1361	1358	1361	1364	1361	1358	1361	0- 10	130.9	130.9	3.17,3.17
20	1307	1296	1285	1296	1307	1296	1285	1296	10- 20	376.6	507.5	12.3,12.3
30	1212	1189	1167	1189	1212	1189	1167	1189	20- 30	575.3	1083	26.3,26.3
40	1077	1042	1010	1042	1077	1042	1010	1042	30- 40	701.4	1784	43.3,43.3
50	901.2	858.8	820.3	858.8	901.2	858.8	820.3	858.8	40- 50	736.9	2521	61.1,61.1
60	687.8	644.8	607.2	644.8	687.8	644.8	607.2	644.8	50- 60	675.6	3197	77.5,77.5
70	447.2	413.1	382.7	413.1	447.2	413.1	382.7	413.1	60- 70	525.6	3722	90.3,90.3
80	199.7	182.5	166.9	182.5	199.7	182.5	166.9	182.5	70- 80	313.7	4036	97.9,97.9
90	0.2557	0.2888	0.6250	0.2888	0.2557	0.2888	0.6250	0.2888	80- 90	87.58	4124	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2154.2 lm

%lum = 52.2%  
 %lamp = 52.2%

Conical surface Flux(120deg): 3196.7 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:2022-12-29

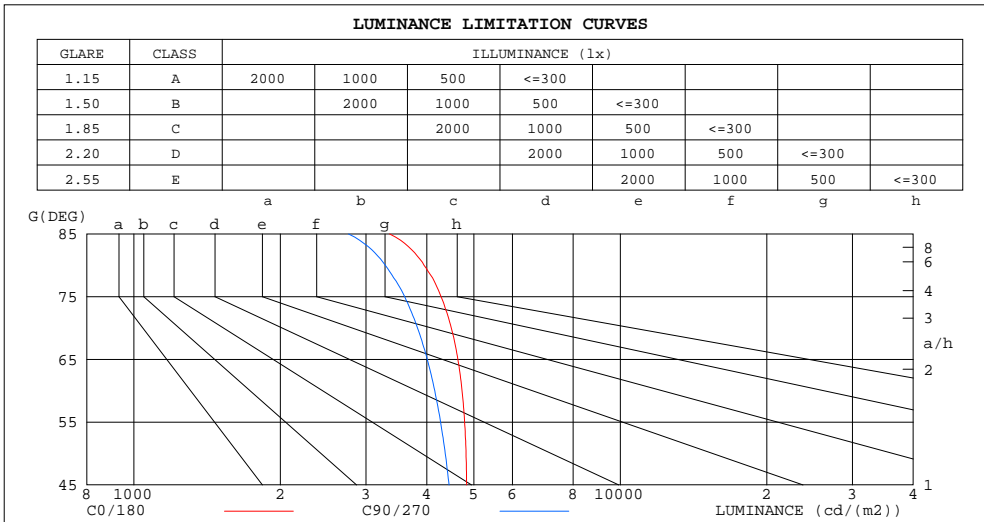
γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.444  
 Humidity:60.5%  
 Test Distance:2.635m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

LUMINANCE LIMITATION CURVES

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mmDIM.White		SERIAL No.:
MFR.: Shada BV	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	3356	2762
80	3951	3289
75	4282	3604
70	4494	3829
65	4636	4011
60	4727	4155
55	4786	4271
50	4818	4366
45	4831	4445

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Wilson  
 Test Date:2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-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

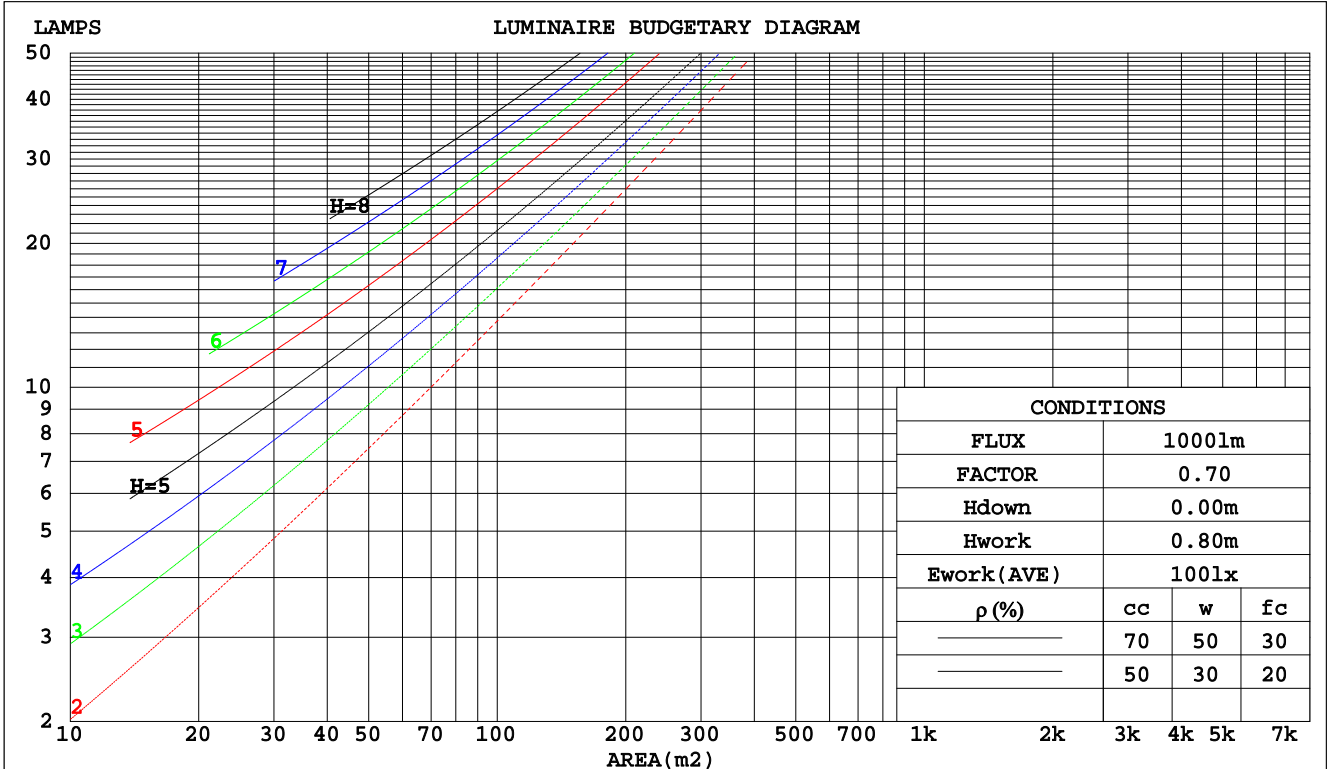
Checker: Near Gao

Assessor: Akin Xu

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mm DIM.White	SERIAL No.:	
MFR.: Shada BV	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	1.00
1.0	1.03	.99	.95	1.01	.97	.94	.97	.94	.91	.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	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.36	.29	.25	.23



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Wilson  
 Test Date: 2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-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:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mmDIM.White		SERIAL No.:
MFR.: Shada BV	SUR.:	Shielding Angle:

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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.317	.180	.057	.310	.177	.056	.297	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.297	.163	.050	.291	.160	.049	.279	.155	.048	.268	.151	.047	.258	.146	.046	
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.249	.136	.042	.240	.133	.041	
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037	
5.0	.233	.119	.034	.229	.117	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027	
8.0	.187	.092	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025	
9.0	.175	.085	.024	.173	.084	.024	.167	.083	.023	.163	.081	.023	.158	.080	.023	
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.102	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.011	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.060	.025	.077	.042	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.106	.056	.022	.074	.039	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.102	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Wilson  
 Test Date:2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-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:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz										
Lamp Flux:4123.58x1 lm										
NAME: LED Panel					TYPE:			WEIGHT:		
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mm					DIM.White			SERIAL No.:		
MFR.: Shada BV					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	18.4	20.0	18.7	20.2	20.4	17.9	19.4	18.2	19.6	19.8
3H	20.1	21.5	20.4	21.8	22.0	19.4	20.8	19.7	21.1	21.3
4H	20.8	22.2	21.1	22.4	22.7	20.0	21.4	20.3	21.6	21.9
6H	21.3	22.6	21.6	22.9	23.1	20.5	21.8	20.8	22.0	22.3
8H	21.5	22.7	21.8	23.0	23.3	20.6	21.9	21.0	22.2	22.4
12H	21.6	22.8	21.9	23.1	23.4	20.7	21.9	21.1	22.2	22.5
4H 2H	19.0	20.4	19.3	20.6	20.9	18.6	19.9	18.9	20.2	20.4
3H	20.9	22.1	21.2	22.4	22.7	20.3	21.5	20.6	21.8	22.1
4H	21.7	22.8	22.1	23.1	23.4	21.0	22.1	21.4	22.4	22.8
6H	22.4	23.3	22.8	23.7	24.0	21.6	22.6	22.0	22.9	23.3
8H	22.6	23.5	23.0	23.9	24.2	21.8	22.7	22.2	23.1	23.5
12H	22.7	23.6	23.2	24.0	24.4	21.9	22.8	22.4	23.2	23.6
8H 4H	21.9	22.9	22.4	23.2	23.6	21.4	22.3	21.8	22.6	23.0
6H	22.8	23.5	23.2	23.9	24.3	22.1	22.9	22.5	23.3	23.7
8H	23.1	23.8	23.5	24.2	24.6	22.4	23.1	22.8	23.5	23.9
12H	23.3	23.9	23.8	24.3	24.8	22.6	23.2	23.1	23.6	24.1
12H 4H	22.0	22.8	22.4	23.2	23.6	21.4	22.2	21.8	22.6	23.0
6H	22.8	23.5	23.3	23.9	24.4	22.2	22.9	22.6	23.3	23.7
8H	23.2	23.8	23.7	24.2	24.7	22.5	23.1	23.0	23.5	24.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 4124 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.9)  
 Area: 0.2921 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Wilson  
 Test Date:2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-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:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mm DIM.White		SERIAL No.:
MFR.: Shada BV	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	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	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	95	85
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:2022-12-29

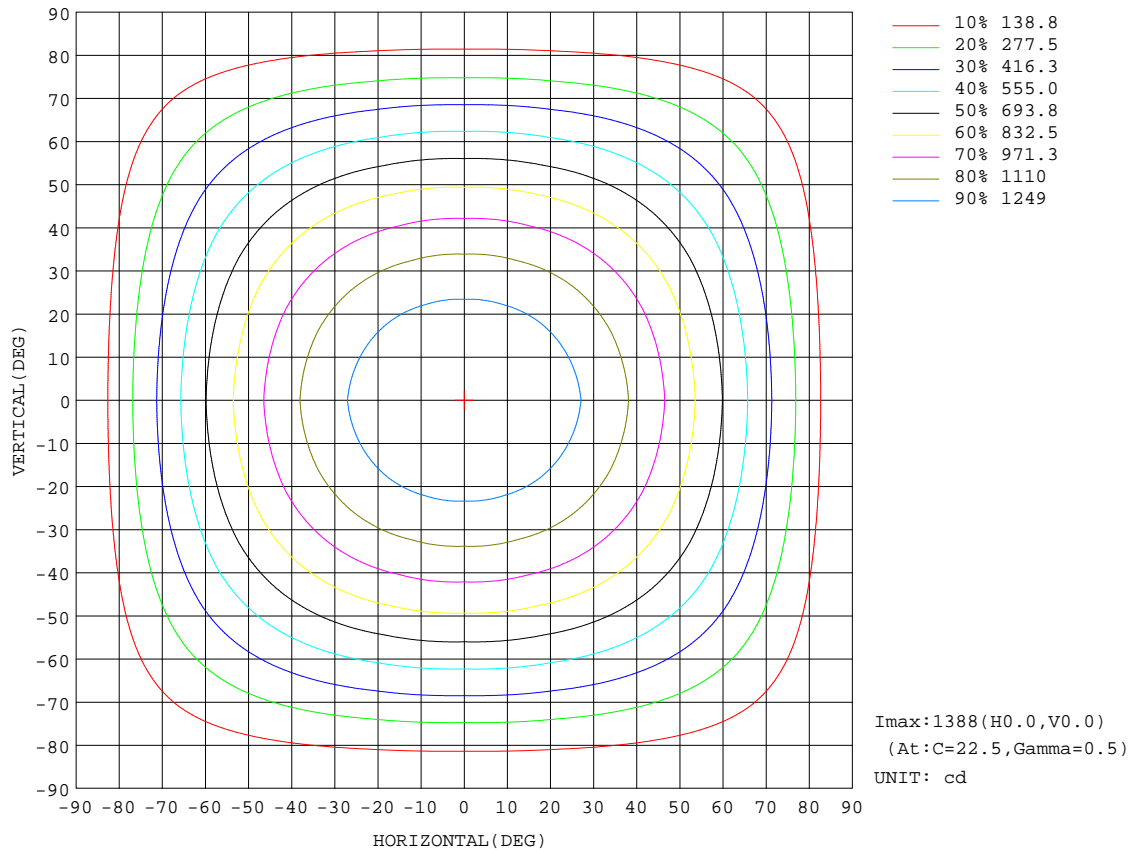
γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.444  
 Humidity:60.5%  
 Test Distance:2.635m [K=1.0000]  
 Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOCANDELA DIAGRAM

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mmDIM.White		SERIAL No.:
MFR.: Shada BV	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Wilson  
 Test Date: 2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-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

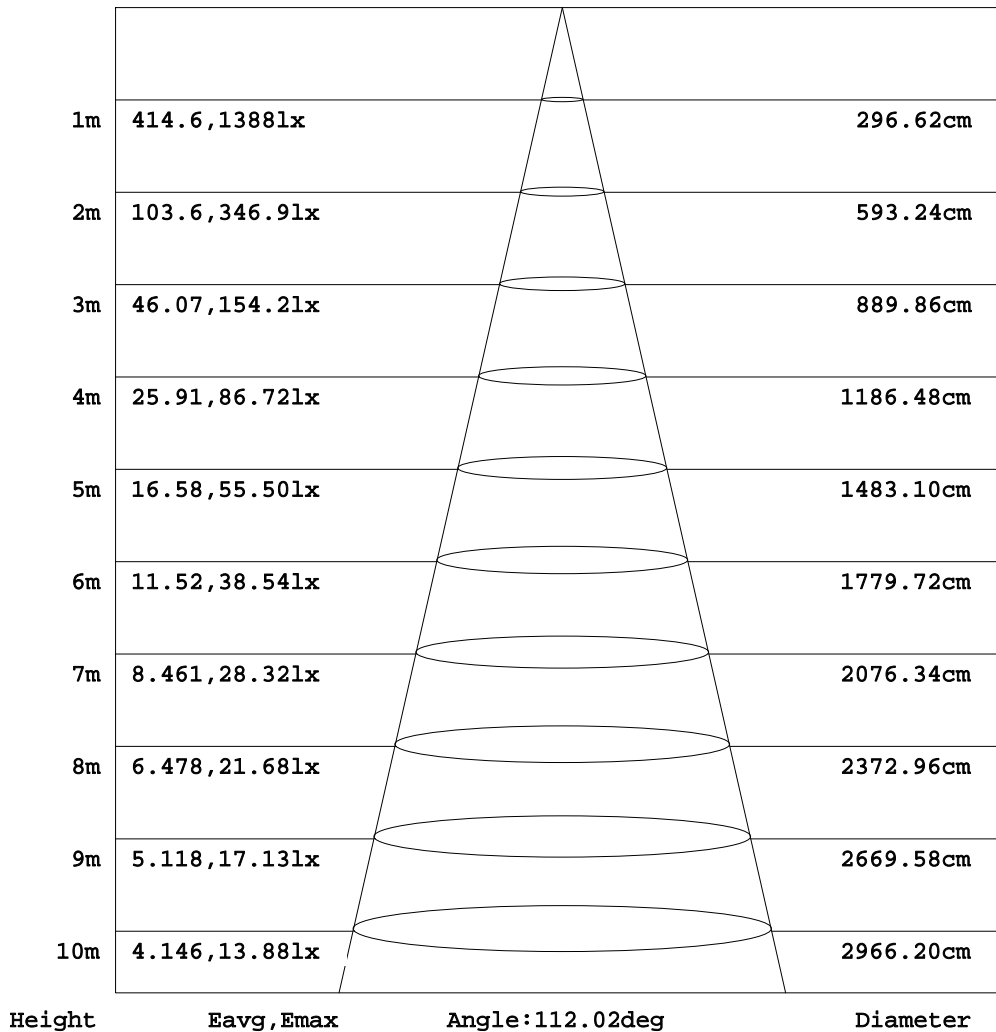
Assessor: Akin Xu



AAI Figure

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mm DIM.White		SERIAL No.:
MFR.: Shada BV	SUR.:	Shielding Angle:

Flux out:2973 lm



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: 2022-12-29

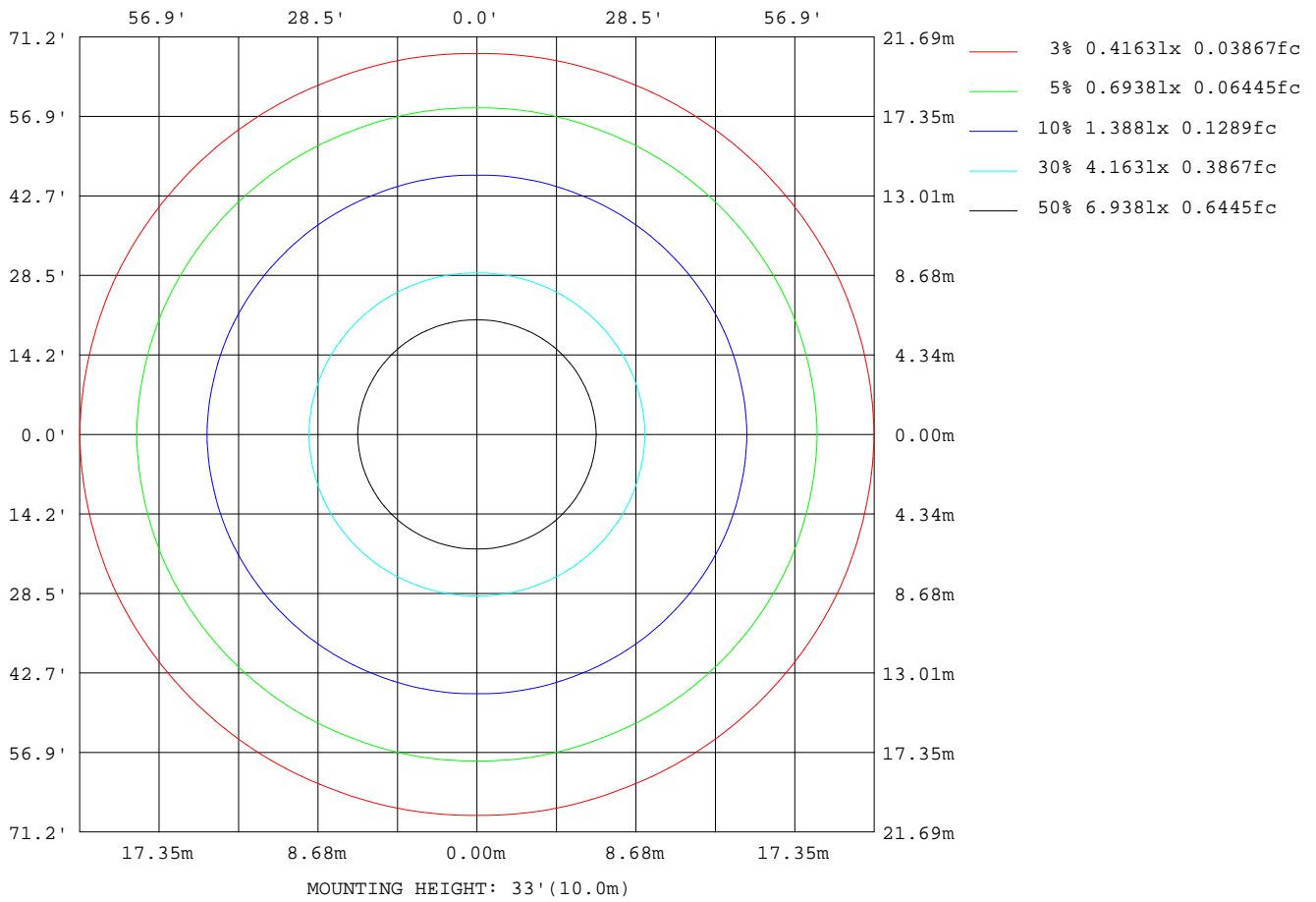
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.444  
Humidity: 60.5%  
Test Distance: 2.635m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

ISOLUX DIAGRAM

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mm DIM.White		SERIAL No.:
MFR.: Shada BV	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Wilson  
 Test Date: 2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-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

**LED Avg.L Report**

Test:U:230.19V I:0.1795A P:40.400W PF:0.9778 Freq:50.00Hz Lamp Flux:4123.58x1 lm		
NAME: LED Panel	TYPE:	WEIGHT:
SPEC.: Panel - 40W 4000lm 4000K UGR<22 - 300x1200mm	Color:IM.White	SERIAL No.:
MFR.: Shada BV	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	4619
L_0~180(75)av	4266
L_0~180(85)av	3343
L_90~270(65)av	4013
L_90~270(75)av	3606
L_90~270(85)av	2764
L_45(65)av	4295
L_45(75)av	3922
L_45(85)av	3019

Standard: GB/T 29293-2012

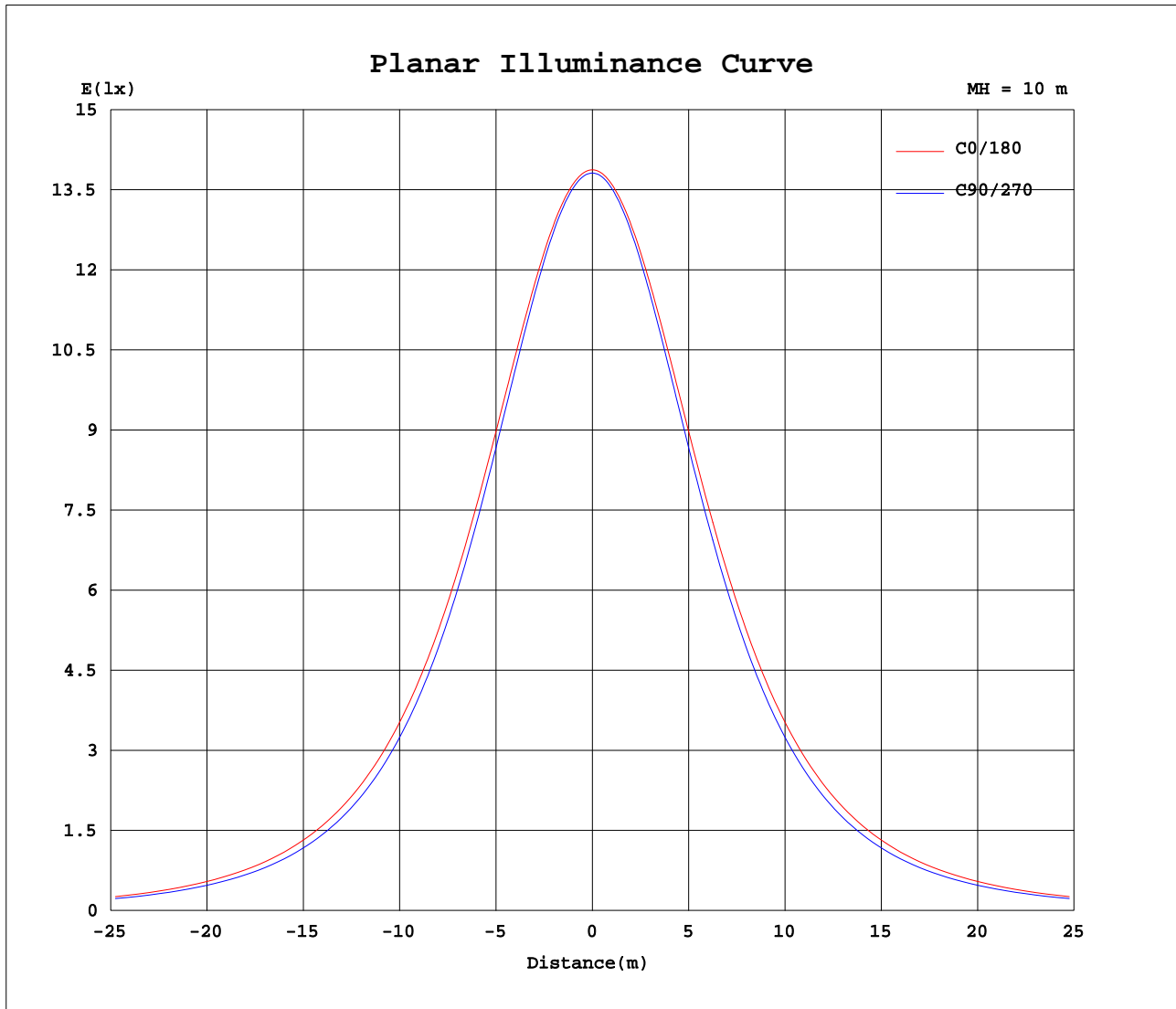
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:Wilson  
 Test Date:2022-12-29

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-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

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Assessor: Akin Xu

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Wilson  
Test Date: 2022-12-29

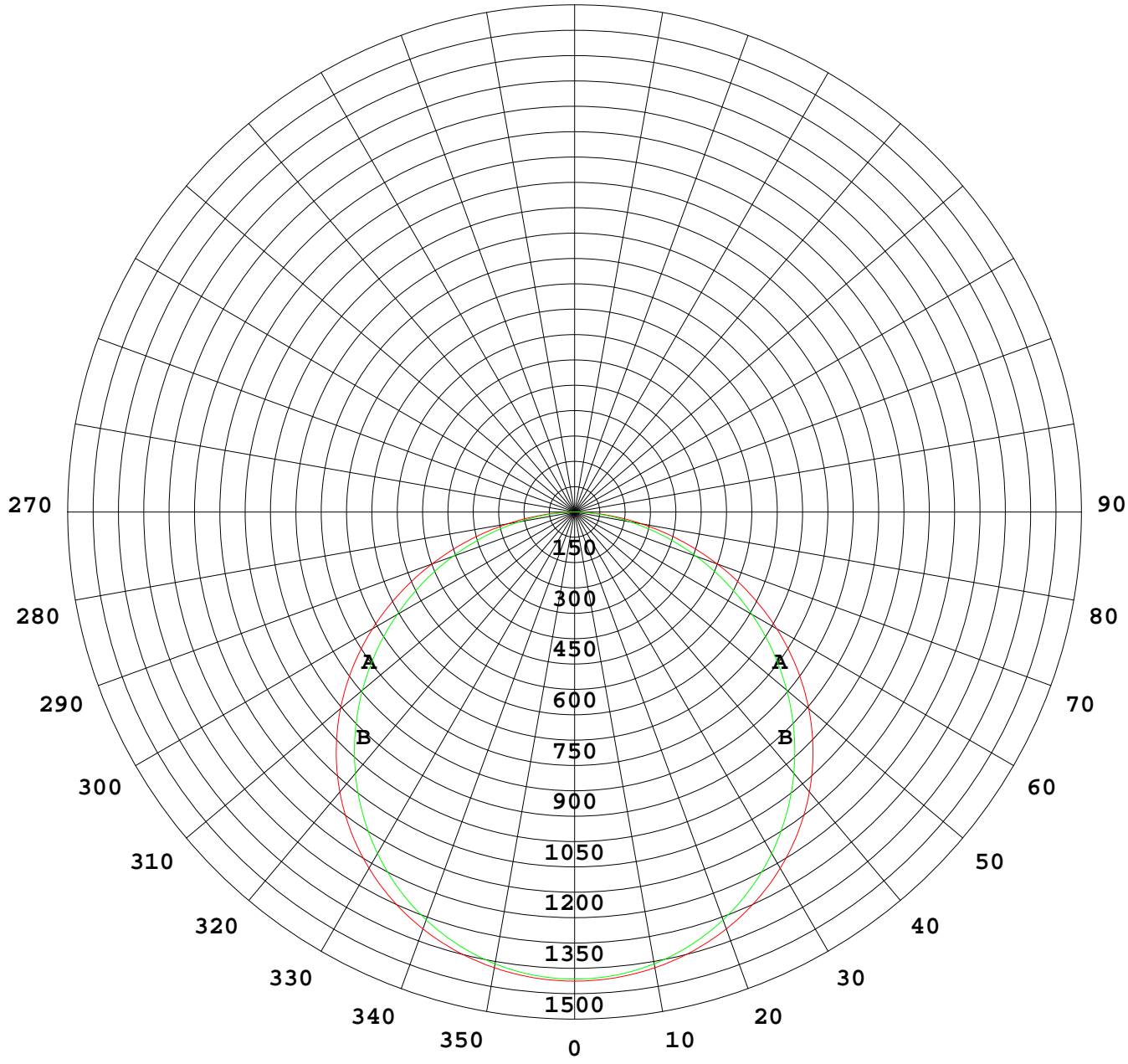
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.444  
Humidity: 60.5%  
Test Distance: 2.635m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Checker: Near Gao

Assessor: Akin Xu

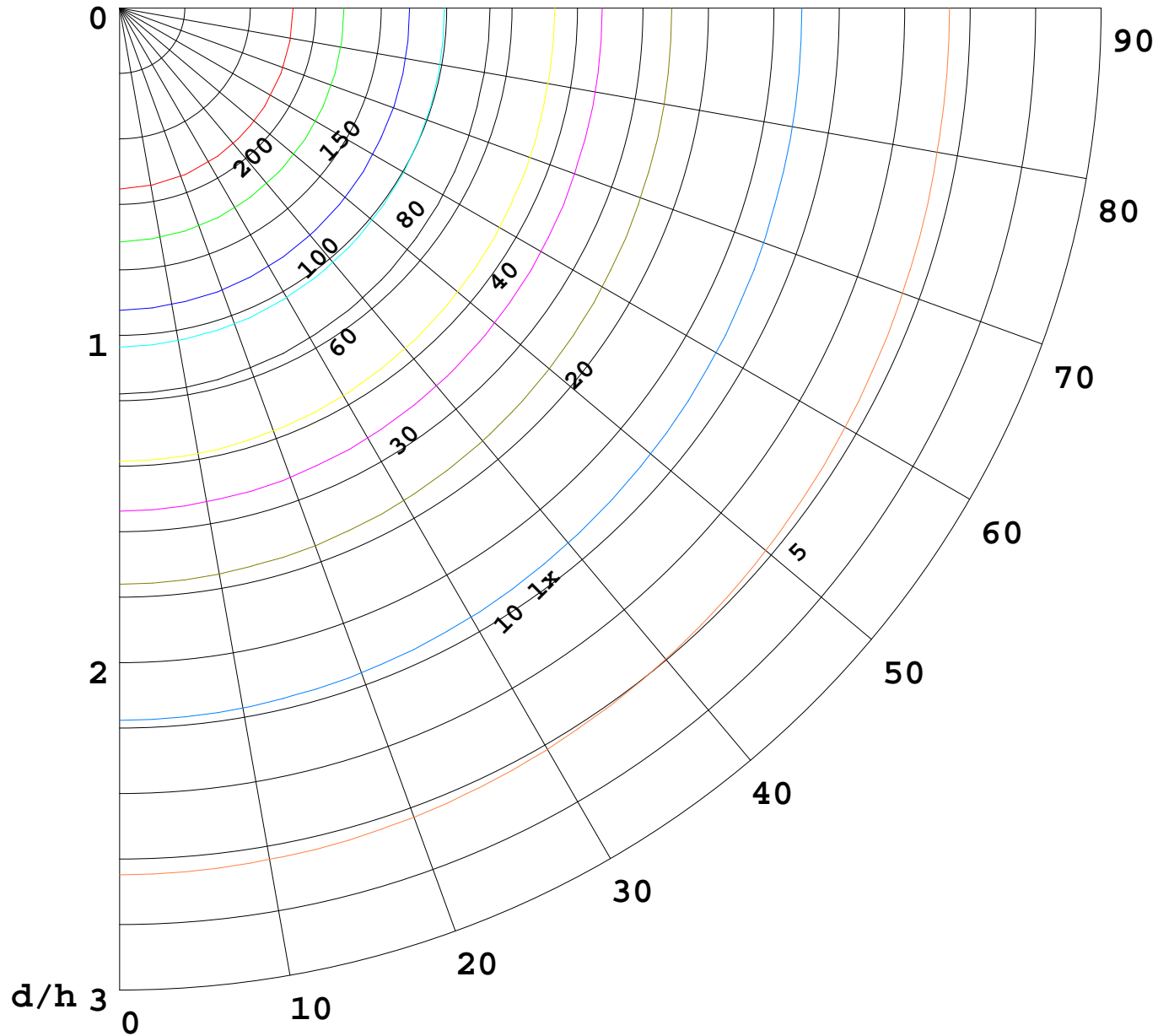


I (cd)



1000 lm

$K = 1$



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

	<b>Pcc</b>	<b>Pw</b>	<b>Pfc</b>
—————	70	50	30
—————	50	30	20

