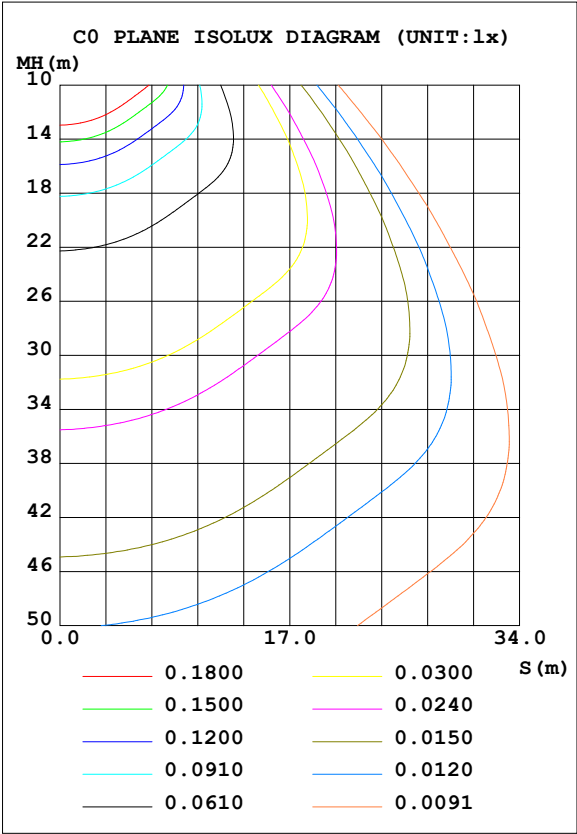
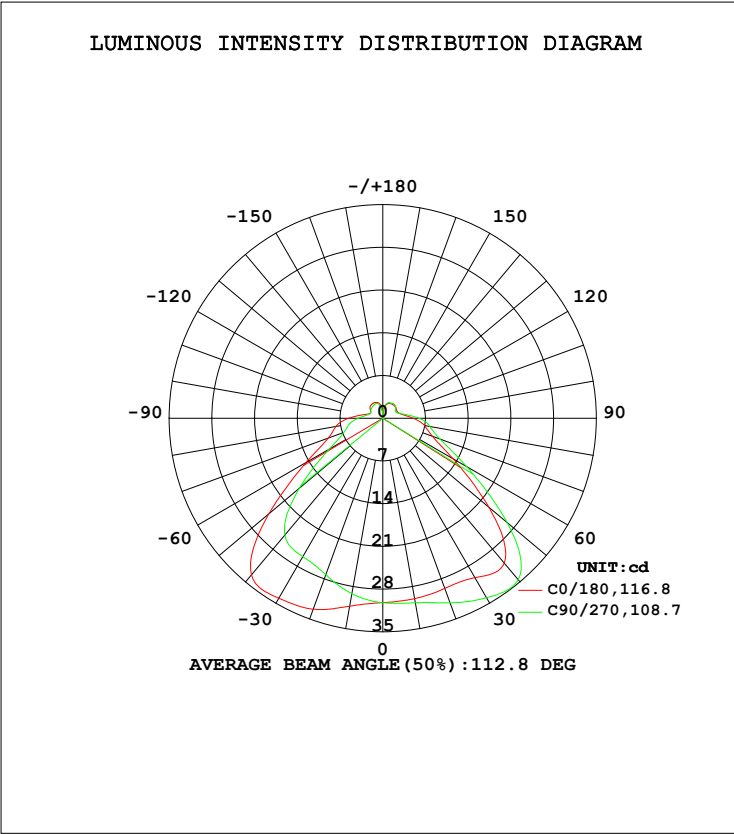


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA      Eff: 23.75 lm/W			
Ceto Model: Frosted black glass		Imax(cd)	34.87	S/MH(C0/180)	1.60
NOMINAL POWER(W)	3.9	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	127.02	η UP,DN(C0-180)	7.7,46.2
NOMINAL FLUX(lm)	127.016	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	6.9,39.2
LAMPS INSIDE	1	η up(%)	14.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	85.4	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

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



# ROSS GARDAM

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	30.02	30.70	30.70	30.92	31.26	30.04	29.18	29.24	0- 10	2.886	2.886	2.27,2.27
20	29.67	31.49	32.16	31.61	33.29	29.15	27.31	28.31	10- 20	8.596	11.48	9.04,9.04
30	30.17	32.07	33.98	32.67	34.05	28.50	26.19	28.25	20- 30	14.11	25.59	20.1,20.1
40	30.96	33.15	34.51	33.84	33.47	26.78	24.95	27.82	30- 40	19.45	45.04	35.5,35.5
50	22.74	25.83	26.60	26.46	24.35	18.52	17.86	20.90	40- 50	21.24	66.28	52.2,52.2
60	13.35	15.69	15.91	16.06	14.52	11.21	10.15	11.56	50- 60	16.07	82.35	64.8,64.8
70	8.660	10.08	9.967	10.15	9.509	7.774	6.793	7.644	60- 70	10.76	93.11	73.3,73.3
80	6.949	8.069	7.843	8.298	7.812	6.400	5.616	6.524	70- 80	8.429	101.5	79.9,79.9
90	4.995	6.020	5.946	6.264	5.584	4.557	4.044	4.730	80- 90	6.968	108.5	85.4,85.4
100	3.372	3.736	3.695	3.760	3.336	3.052	2.780	3.172	90-100	4.684	113.2	89.1,89.1
110	2.706	2.730	2.579	2.521	2.296	2.433	2.259	2.540	100-110	3.046	116.2	91.5,91.5
120	2.628	2.494	2.431	2.358	2.291	2.566	2.285	2.343	110-120	2.401	118.6	93.4,93.4
130	2.794	2.730	2.787	2.934	2.753	2.845	2.471	2.435	120-130	2.291	120.9	95.2,95.2
140	2.812	2.841	2.965	3.299	2.931	2.804	2.571	2.571	130-140	2.162	123.1	96.9,96.9
150	2.746	2.825	2.817	3.221	2.918	2.771	2.670	2.756	140-150	1.791	124.9	98.3,98.3
160	2.589	2.506	2.725	2.964	2.761	2.658	2.593	2.645	150-160	1.290	126.2	99.3,99.3
170	1.848	2.141	2.143	2.319	2.273	2.135	1.763	1.775	160-170	0.6945	126.9	99.9,99.9
180	0.0645	0.0597	0.0597	0.0618	0.0638	0.0597	0.0593	0.0618	170-180	0.1467	127.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 55.96 lm

%lum = 44.1%  
%lamp = 44.1%

Conical surface Flux(120deg): 82.352 lm

%lum = 64.8%  
%lamp = 64.8%

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

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

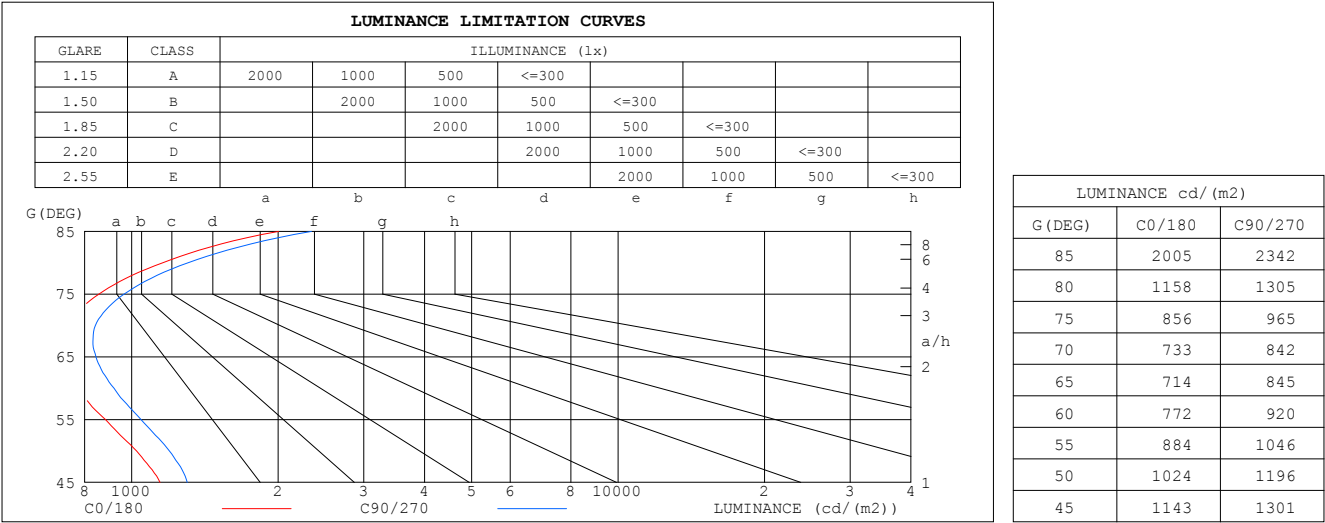
Assessor: Akin Xu



# ROSS GARDAM

## LUMINANCE LIMITATION CURVES

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 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:2022-12-01

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

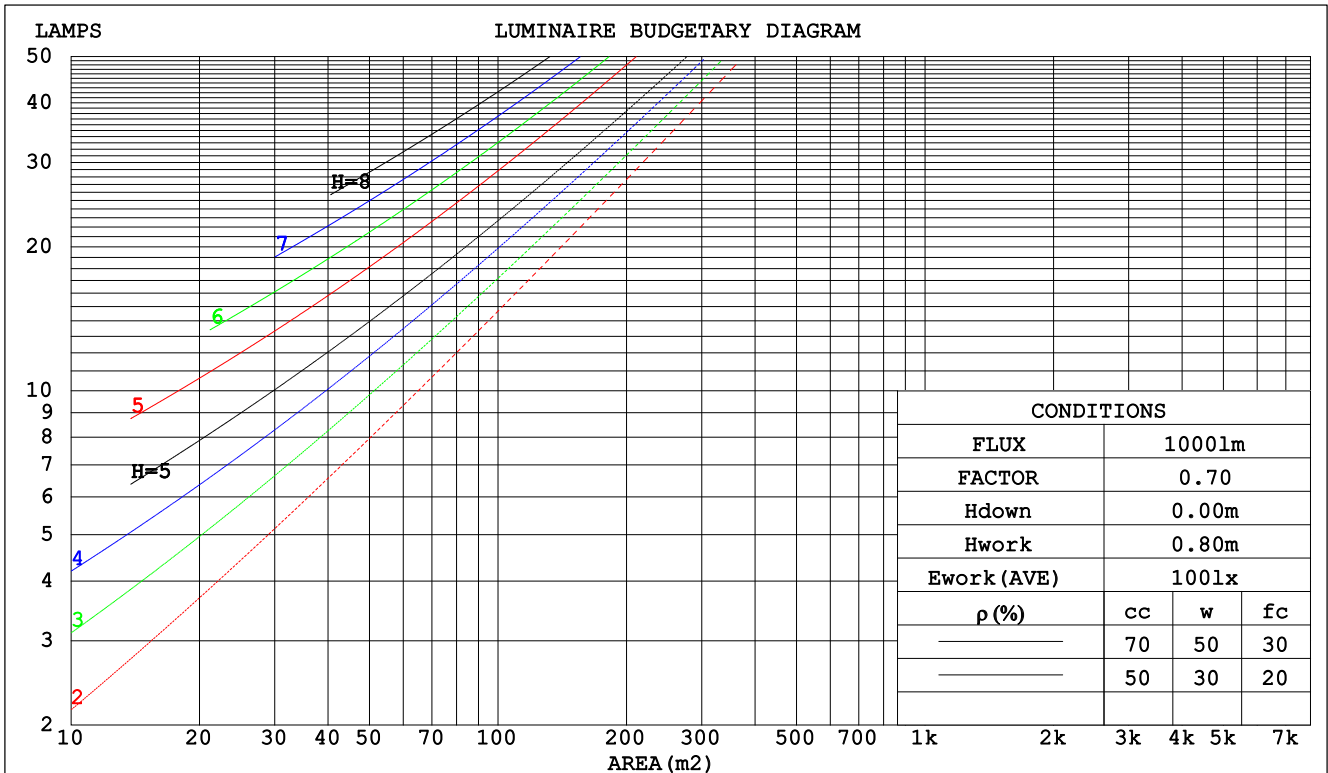
Assessor: Akin Xu

# ROSS GARDAM

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz		
Lamp Flux:127.016x1 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	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.85
1.0	.99	.94	.90	.95	.91	.87	.88	.85	.81	.82	.79	.76	.76	.74	.72	.68
2.0	.86	.78	.72	.82	.76	.70	.77	.71	.67	.71	.67	.63	.66	.63	.59	.56
3.0	.75	.67	.60	.72	.65	.58	.67	.61	.56	.63	.57	.53	.58	.54	.50	.47
4.0	.66	.57	.51	.64	.56	.49	.60	.53	.47	.56	.50	.45	.52	.47	.43	.40
5.0	.59	.50	.43	.57	.49	.42	.53	.46	.41	.50	.44	.39	.47	.41	.37	.35
6.0	.53	.44	.38	.51	.43	.37	.48	.41	.35	.45	.39	.34	.42	.37	.32	.30
7.0	.48	.39	.33	.46	.38	.32	.43	.36	.31	.41	.35	.30	.38	.33	.29	.26
8.0	.43	.35	.29	.42	.34	.29	.40	.33	.28	.37	.31	.27	.35	.30	.26	.23
9.0	.40	.32	.26	.39	.31	.26	.36	.29	.25	.34	.28	.24	.32	.27	.23	.21
10.0	.36	.29	.23	.35	.28	.23	.33	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Wilson  
 Test Date: 2022-12-01

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



# ROSS GARDAM

## WEC AND CCEC

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.342	.195	.062	.331	.189	.060	.309	.177	.057	.289	.167	.054	.271	.157	.051	
2.0	.304	.167	.051	.294	.162	.050	.274	.153	.047	.256	.144	.045	.240	.136	.043	
3.0	.275	.146	.044	.266	.142	.043	.248	.135	.041	.232	.127	.039	.217	.120	.037	
4.0	.251	.130	.038	.243	.127	.038	.227	.120	.036	.212	.114	.034	.198	.108	.033	
5.0	.231	.118	.034	.223	.115	.033	.209	.109	.032	.195	.103	.031	.183	.098	.029	
6.0	.213	.107	.031	.206	.104	.030	.193	.099	.029	.181	.094	.028	.170	.089	.027	
7.0	.198	.098	.028	.192	.096	.027	.180	.091	.026	.169	.086	.025	.158	.082	.024	
8.0	.185	.090	.025	.179	.088	.025	.168	.084	.024	.158	.080	.023	.148	.076	.022	
9.0	.173	.084	.023	.168	.082	.023	.158	.078	.022	.148	.074	.021	.139	.071	.020	
10.0	.163	.078	.022	.158	.076	.021	.148	.073	.020	.140	.069	.020	.131	.066	.019	

pcc	80%			70%			50%			30%			10%			0
p <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.301	.301	.301	.258	.258	.258	.176	.176	.176	.101	.101	.101	.032	.032	.032	
1.0	.294	.268	.244	.252	.230	.210	.172	.158	.145	.099	.091	.084	.032	.029	.027	
2.0	.287	.245	.209	.245	.210	.181	.168	.146	.126	.097	.085	.074	.031	.027	.024	
3.0	.279	.228	.187	.239	.196	.162	.164	.136	.114	.095	.080	.067	.030	.026	.022	
4.0	.271	.215	.172	.233	.186	.149	.160	.129	.105	.093	.076	.062	.030	.025	.020	
5.0	.264	.205	.161	.226	.177	.140	.156	.124	.099	.090	.073	.059	.029	.024	.019	
6.0	.257	.197	.154	.221	.170	.134	.152	.119	.095	.088	.070	.056	.028	.023	.019	
7.0	.250	.190	.148	.215	.165	.129	.149	.116	.091	.086	.068	.054	.028	.022	.018	
8.0	.244	.184	.144	.210	.160	.125	.145	.112	.089	.084	.066	.053	.027	.022	.018	
9.0	.238	.180	.141	.205	.156	.123	.142	.110	.087	.083	.065	.052	.027	.021	.017	
10.0	.232	.176	.138	.200	.152	.120	.139	.107	.086	.081	.063	.051	.026	.021	.017	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

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



# ROSS GARDAM

**UGR(Unified Glare Rating) Table**

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 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	2H	11.6	13.0	12.1	13.4	13.9	12.2	13.6	12.7	14.0	14.5
	3H	12.8	14.0	13.3	14.5	15.0	13.5	14.7	13.9	15.2	15.7
	4H	13.6	14.7	14.1	15.2	15.8	14.2	15.4	14.7	15.9	16.4
	6H	14.6	15.7	15.1	16.2	16.7	15.2	16.3	15.7	16.8	17.4
	8H	15.2	16.2	15.7	16.7	17.3	15.8	16.9	16.4	17.4	18.0
	12H	15.9	16.9	16.4	17.4	18.0	16.6	17.6	17.2	18.2	18.8
4H	2H	12.1	13.3	12.6	13.8	14.3	12.6	13.8	13.1	14.3	14.8
	3H	13.6	14.6	14.1	15.2	15.8	14.1	15.1	14.7	15.7	16.3
	4H	14.6	15.5	15.1	16.1	16.7	15.1	16.0	15.7	16.6	17.2
	6H	15.8	16.6	16.4	17.2	17.9	16.3	17.2	16.9	17.7	18.4
	8H	16.5	17.3	17.1	17.9	18.6	17.1	17.9	17.7	18.5	19.2
	12H	17.4	18.1	18.0	18.7	19.4	18.0	18.7	18.7	19.4	20.1
8H	4H	15.1	15.8	15.7	16.4	17.1	15.5	16.3	16.1	16.9	17.5
	6H	16.6	17.3	17.3	17.9	18.6	17.0	17.7	17.7	18.3	19.1
	8H	17.6	18.1	18.2	18.8	19.5	18.0	18.6	18.7	19.3	20.0
	12H	18.6	19.1	19.3	19.8	20.6	19.2	19.7	19.9	20.4	21.2
12H	4H	15.2	15.9	15.8	16.5	17.2	15.6	16.3	16.2	16.9	17.6
	6H	16.9	17.5	17.5	18.1	18.9	17.3	17.8	17.9	18.5	19.3
	8H	17.9	18.4	18.6	19.1	19.9	18.4	18.9	19.1	19.6	20.3
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					

CIE Pub.117, 127.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -7.2)  
Area: 0.0346185 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

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



# ROSS GARDAM

## UTILIZATION FACTORS TABLE

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 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	52	40	33	50	39	32	49	38	32	25
0.80	61	49	42	60	48	41	57	47	40	33
1.00	70	58	50	68	57	49	64	57	48	40
1.25	77	65	57	74	64	57	70	61	55	46
1.50	82	71	63	79	69	62	75	66	60	50
2.00	88	79	71	86	77	70	80	73	67	57
2.50	92	84	77	89	81	75	84	77	72	60
3.00	96	88	81	93	85	79	86	81	76	63
4.00	100	93	87	96	90	85	90	85	81	67
5.00	103	97	91	99	93	89	92	88	84	70
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:2022-12-01

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

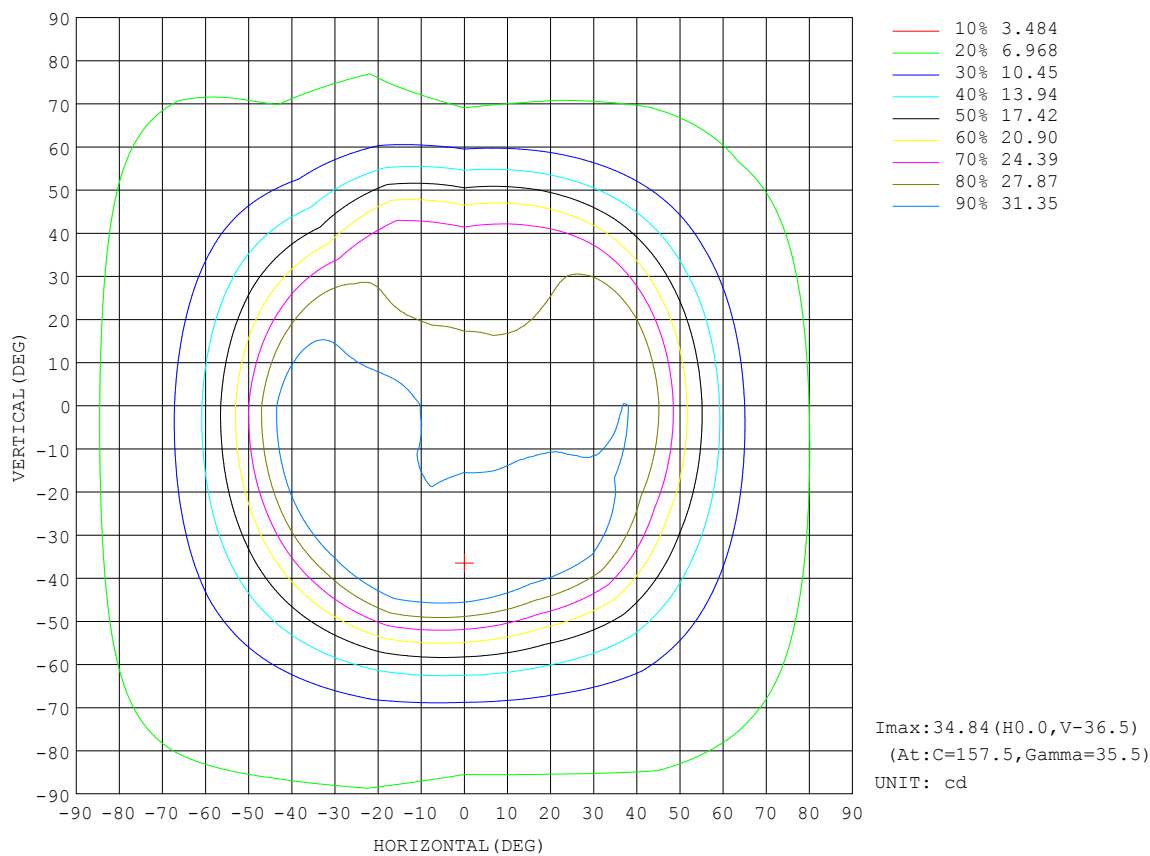
Assessor: Akin Xu



# ROSS GARDAM

## ISOCANDELA DIAGRAM

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz		
Lamp Flux:127.016x1 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:2022-12-01

Checker: Near Gao

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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

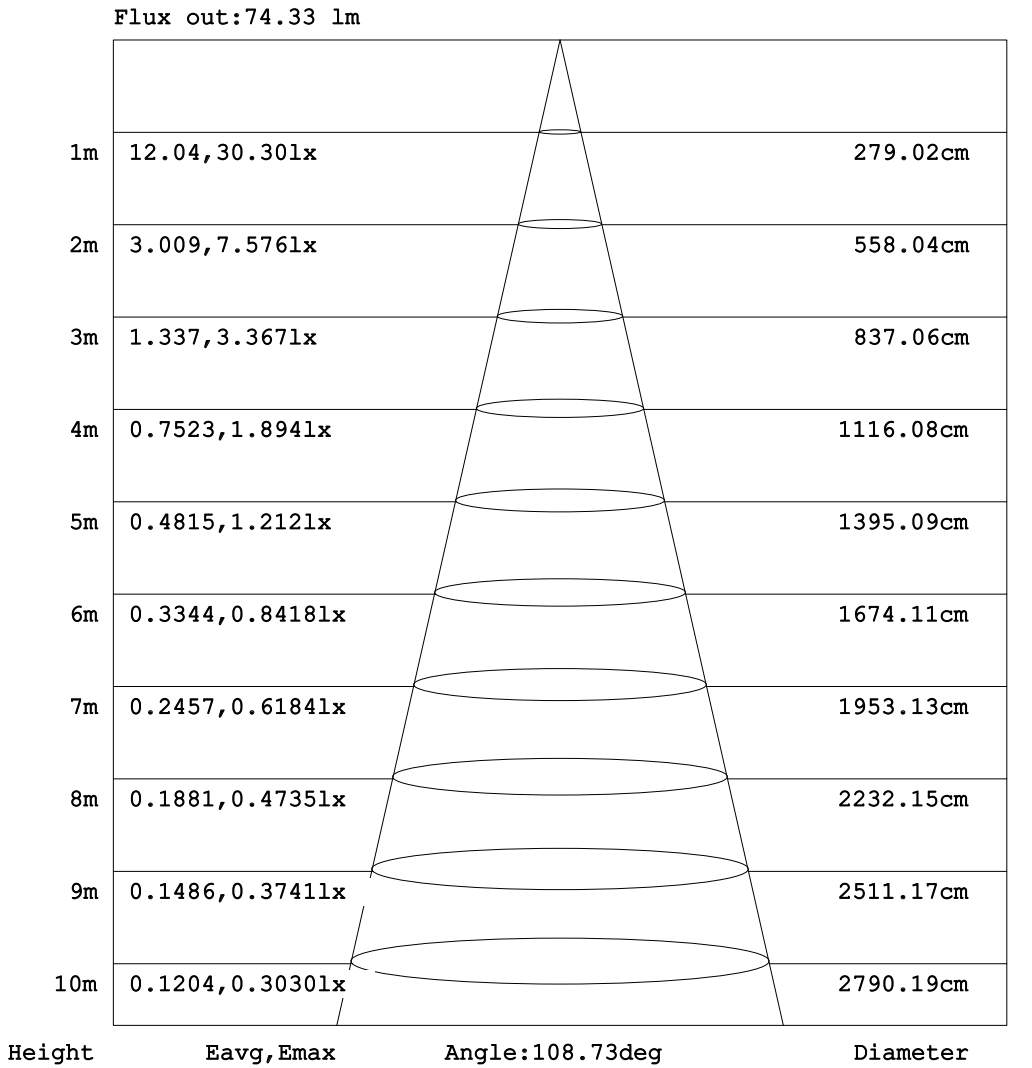




# ROSS GARDAM

AAI Figure

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 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.

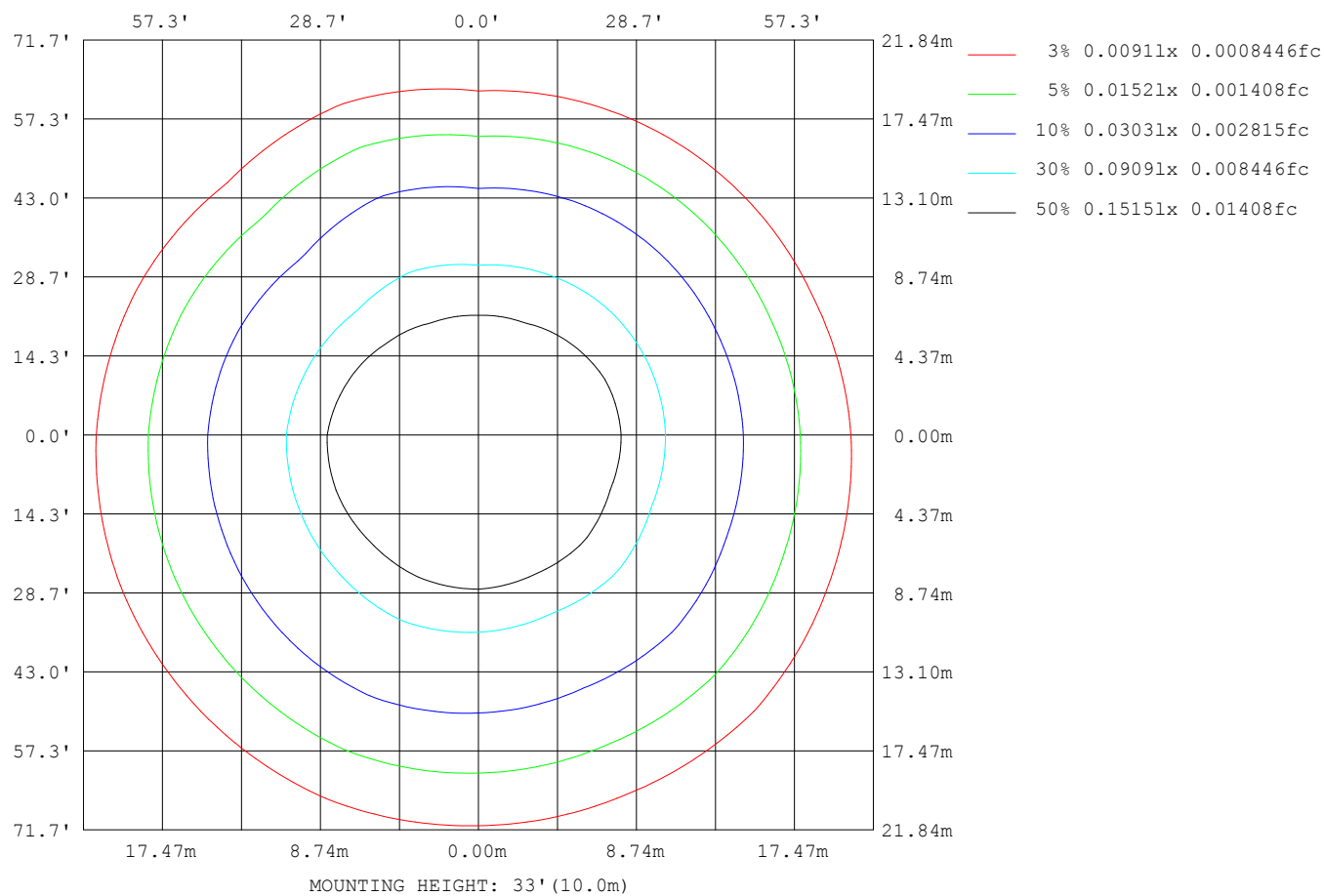
C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 22.5DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Temperature:25.1DEG	Humidity:60.5%
Operators:Wilson	Test Distance:2.617m [K=1.0000]
Test Date:2022-12-01	Remarks: File No.: WT-F-504-3206-01-A
Checker: Near Gao	Assessor: Akin Xu



# ROSS GARDAM

## ISOLUX DIAGRAM

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz		
Lamp Flux:127.016x1 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:2022-12-01

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



# ROSS GARDAM

## LED Avg.L Report

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz Lamp Flux:127.016x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	747
L_0~180 (75) av	902
L_0~180 (85) av	2135
L_90~270 (65) av	694
L_90~270 (75) av	823
L_90~270 (85) av	1979
L_45 (65) av	732
L_45 (75) av	888
L_45 (85) av	2155

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

Checker: Near Gao

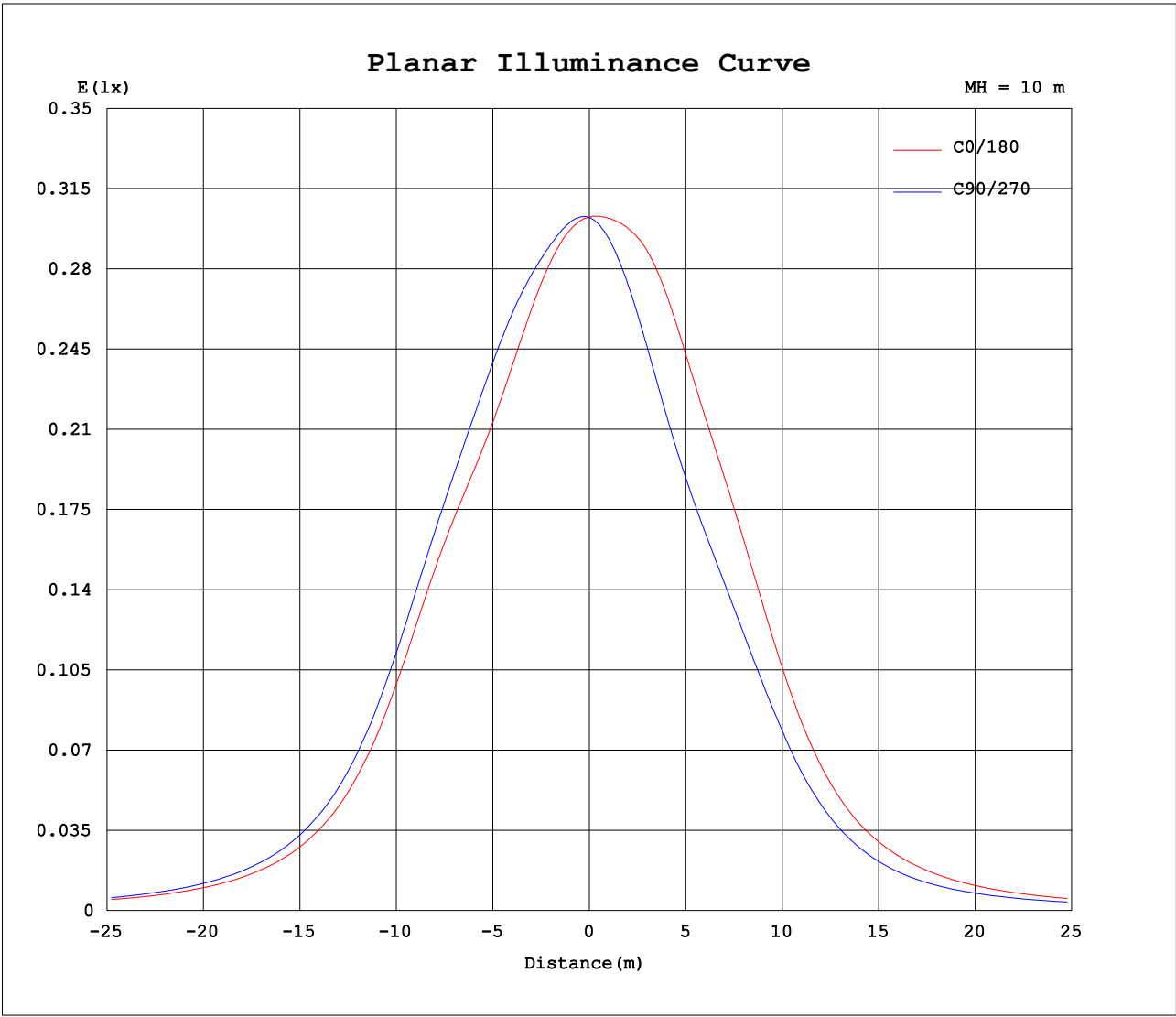
γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.444  
Humidity:60.5%  
Test Distance:2.617m [K=1.0000]  
Remarks: File No.: WT-F-504-3206-01-A

Assessor: Akin Xu



# ROSS GARDAM

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

Checker: Near Gao

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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



# ROSS GARDAM

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.10V I:0.0255A P:5.3477W PF:0.9099 Freq:50.00Hz																	
Lamp Flux:127.016x1 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	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2			
5	30.1	30.3	30.4	30.4	30.4	30.5	30.5	30.6	30.5	30.4	30.2	30.0	29.8	29.8	29.8	29.9			
10	30.0	30.5	30.7	30.7	30.7	30.7	30.9	31.3	31.3	30.7	30.0	29.5	29.2	29.1	29.2	29.5			
15	29.9	30.8	31.1	31.2	31.3	31.0	31.3	32.3	32.3	31.1	29.7	28.8	28.3	28.3	28.6	29.1			
20	29.7	31.2	31.5	31.8	32.2	31.4	31.6	33.4	33.3	31.1	29.2	27.9	27.3	27.5	28.3	28.7			
25	29.6	31.3	31.7	32.4	33.1	31.8	32.0	34.1	33.8	31.1	28.7	27.1	26.5	26.9	28.2	28.7			
30	30.2	31.4	32.1	33.1	34.0	32.6	32.7	34.5	34.1	31.3	28.5	26.6	26.2	26.6	28.2	29.3			
35	31.1	31.5	32.9	33.7	34.7	33.8	33.7	34.8	34.3	31.4	28.3	26.5	26.0	26.5	28.3	30.2			
40	31.0	30.9	33.1	33.2	34.5	34.5	33.8	34.1	33.5	30.0	26.8	26.2	24.9	26.0	27.8	30.0			
45	27.9	28.0	30.8	30.2	31.8	33.0	31.4	30.8	29.9	26.4	23.2	24.5	22.2	23.8	25.6	27.0			
50	22.7	23.3	25.8	25.1	26.6	28.3	26.5	25.3	24.3	21.5	18.5	20.8	17.9	19.5	20.9	21.7			
55	17.5	18.2	20.3	19.6	20.8	22.2	20.8	19.7	18.8	16.8	14.4	15.9	13.6	14.8	15.7	16.4			
60	13.3	14.2	15.7	15.4	15.9	16.7	16.1	15.3	14.5	13.1	11.2	11.8	10.2	10.9	11.6	12.2			
65	10.4	11.3	12.3	12.1	12.4	12.8	12.5	12.1	11.4	10.4	9.06	9.16	7.97	8.48	8.98	9.48			
70	8.66	9.38	10.1	9.95	9.97	10.4	10.1	10.0	9.51	8.82	7.77	7.90	6.79	7.28	7.64	7.96			
75	7.66	8.27	8.86	8.66	8.64	9.12	8.98	8.87	8.51	7.99	7.02	7.25	6.10	6.69	6.96	7.09			
80	6.95	7.50	8.07	7.88	7.84	8.49	8.30	8.17	7.81	7.36	6.40	6.72	5.62	6.27	6.52	6.47			
85	6.04	6.55	7.23	7.12	7.06	7.83	7.52	7.27	6.85	6.42	5.54	5.84	4.88	5.46	5.72	5.63			
90	4.99	5.37	6.02	6.00	5.95	6.66	6.26	6.01	5.58	5.24	4.56	4.79	4.04	4.47	4.73	4.69			
95	4.06	4.28	4.76	4.75	4.74	5.25	4.90	4.72	4.33	4.14	3.68	3.83	3.31	3.58	3.82	3.87			
100	3.37	3.48	3.74	3.68	3.70	4.01	3.76	3.65	3.34	3.28	3.05	3.10	2.78	2.96	3.17	3.26			
105	2.95	3.00	3.10	2.98	2.98	3.13	2.96	2.90	2.66	2.69	2.64	2.62	2.44	2.64	2.79	2.89			
110	2.71	2.74	2.73	2.59	2.58	2.62	2.52	2.49	2.30	2.38	2.43	2.33	2.26	2.46	2.54	2.66			
115	2.61	2.61	2.54	2.45	2.41	2.37	2.33	2.33	2.19	2.29	2.42	2.19	2.21	2.37	2.39	2.56			
120	2.63	2.60	2.49	2.51	2.43	2.31	2.36	2.40	2.29	2.39	2.57	2.18	2.29	2.35	2.34	2.57			
125	2.71	2.67	2.59	2.71	2.59	2.45	2.60	2.64	2.53	2.59	2.75	2.27	2.39	2.39	2.38	2.62			
130	2.79	2.76	2.73	2.94	2.79	2.68	2.93	2.91	2.75	2.77	2.84	2.39	2.47	2.44	2.43	2.67			
135	2.82	2.79	2.82	3.07	2.92	2.89	3.20	3.09	2.88	2.85	2.84	2.49	2.52	2.49	2.49	2.69			
140	2.81	2.77	2.84	3.08	2.97	3.00	3.30	3.16	2.93	2.85	2.80	2.56	2.57	2.57	2.57	2.71			
145	2.78	2.76	2.84	3.02	2.95	3.03	3.28	3.16	2.94	2.83	2.78	2.61	2.62	2.66	2.67	2.74			
150	2.75	2.76	2.82	2.88	2.82	3.02	3.22	3.12	2.92	2.80	2.77	2.64	2.67	2.72	2.76	2.75			
155	2.71	2.72	2.65	2.76	2.81	2.97	3.12	3.05	2.87	2.77	2.74	2.67	2.68	2.73	2.75	2.73			
160	2.59	2.62	2.51	2.57	2.73	2.85	2.96	2.92	2.76	2.68	2.66	2.57	2.59	2.62	2.65	2.62			
165	2.35	2.40	2.42	2.37	2.49	2.62	2.72	2.72	2.58	2.51	2.48	2.30	2.31	2.33	2.25	2.22			
170	1.85	1.93	2.14	2.06	2.14	2.28	2.32	2.39	2.27	2.19	2.14	1.96	1.76	1.72	1.78	1.79			
175	1.09	1.22	1.28	1.36	1.44	1.54	1.57	1.56	1.56	1.44	1.27	1.21	1.11	0.99	1.00	1.05			
180	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07			

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
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Temperature:25.1DEG  
Operators:Wilson  
Test Date:2022-12-01

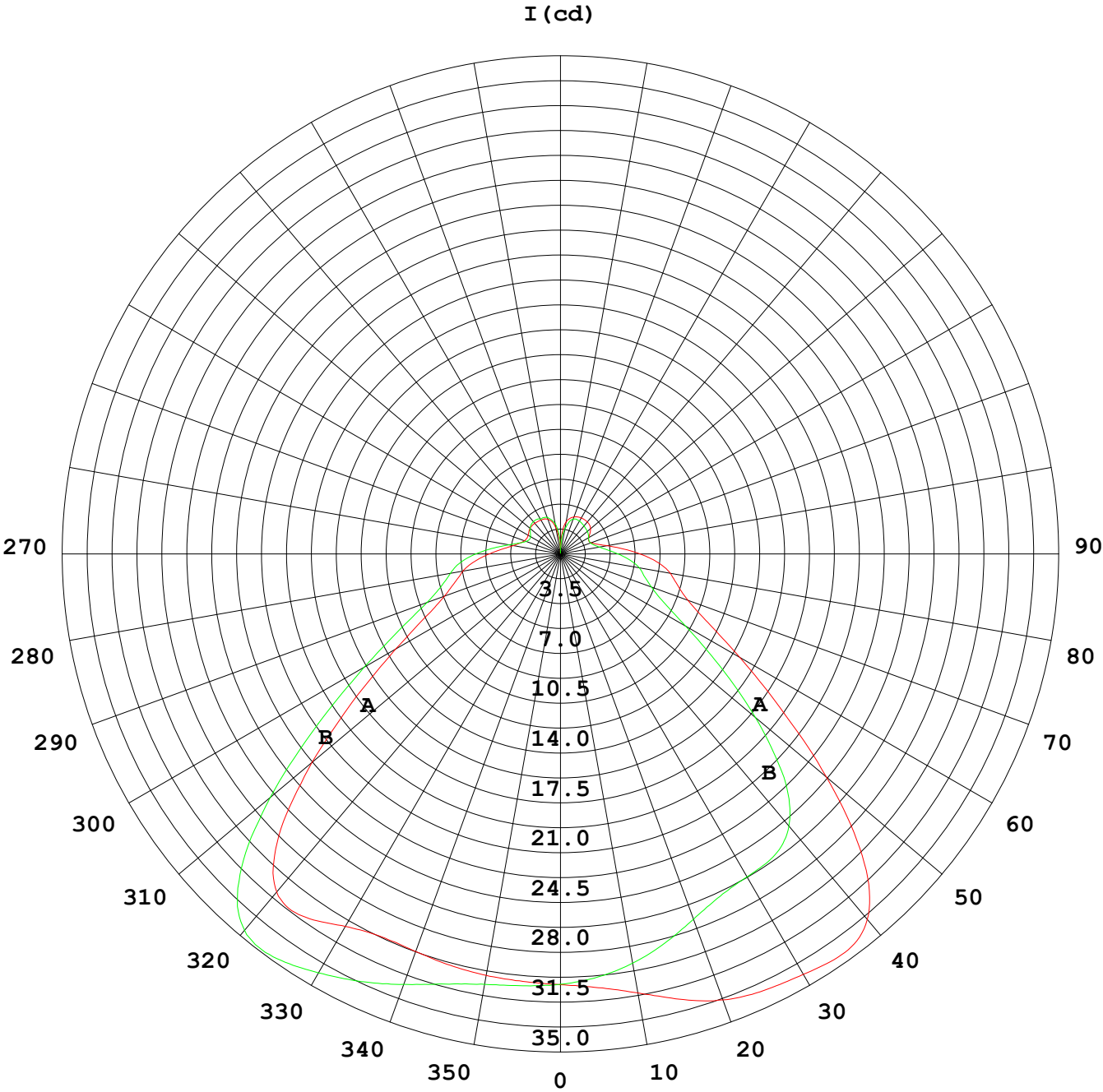
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Humidity:60.5%  
Test Distance:2.617m [K=1.0000]  
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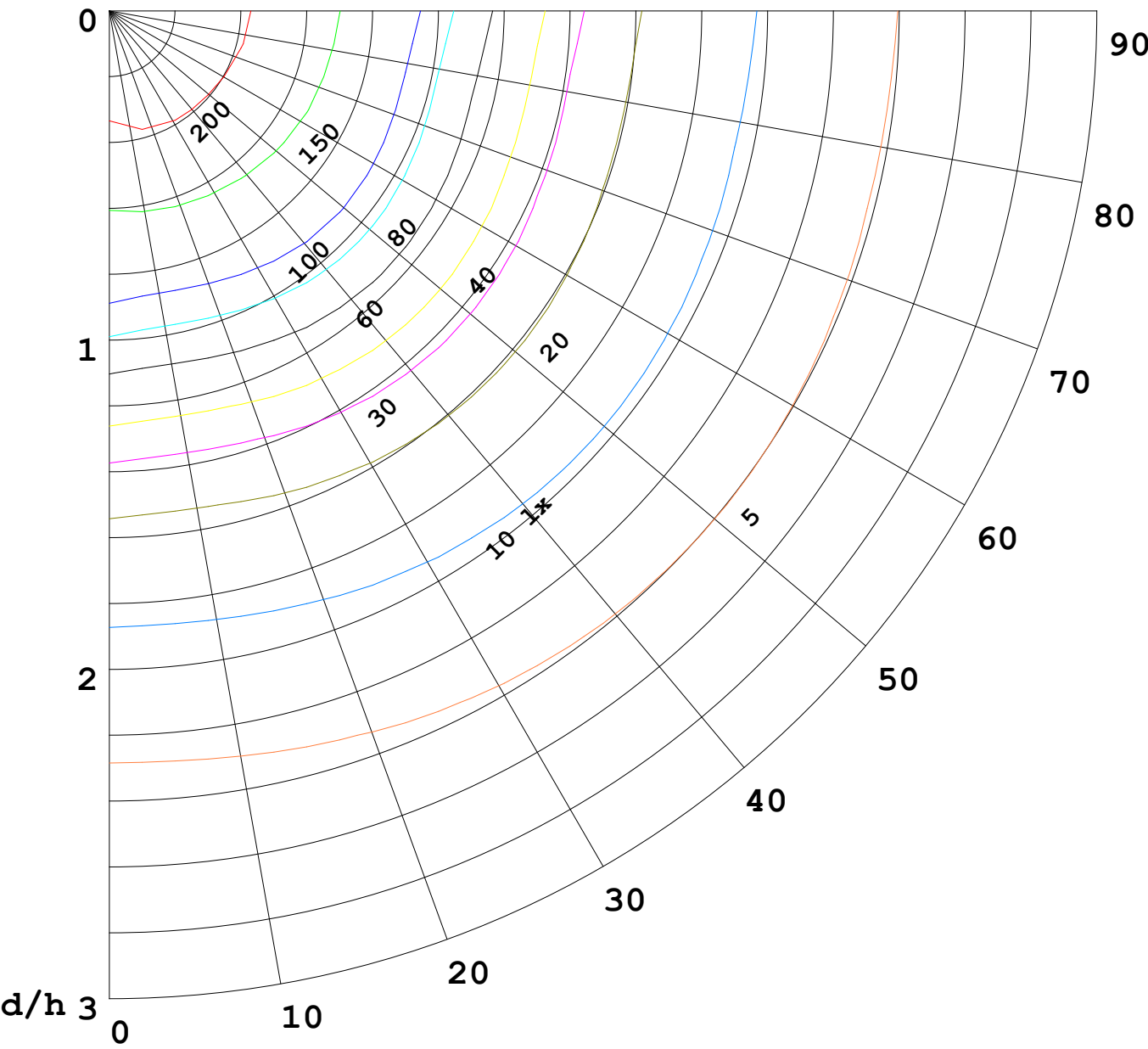


# ROSS GARDAM



# ROSS GARDAM

1000 lm       $\kappa = 1$



# ROSS GARDAM

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

