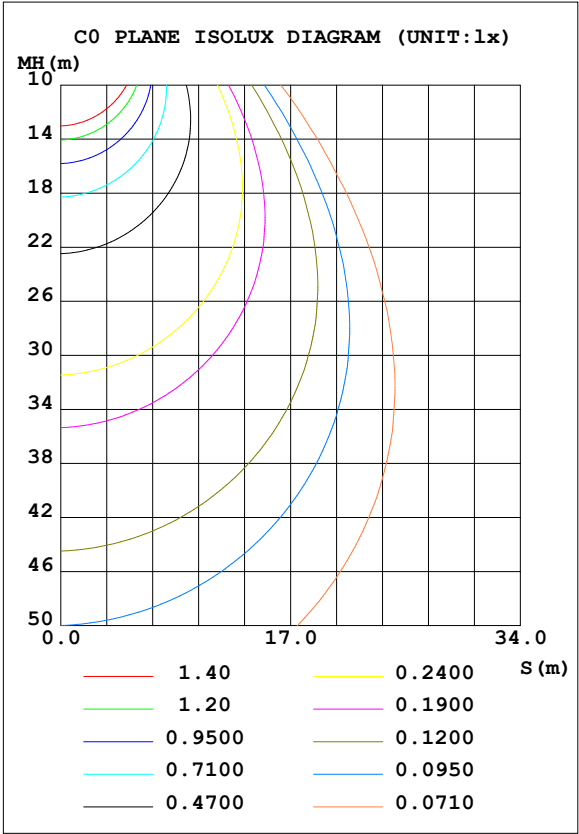
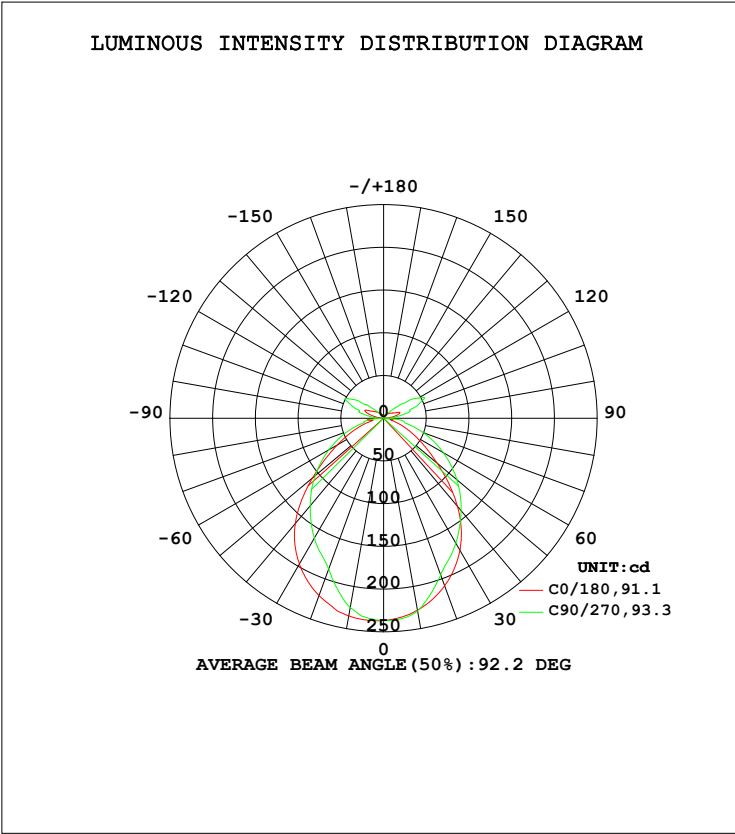


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 56.46 lm/W
Model	Light-Fluted clear glass	Beam angle (cd)	237.4	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	1.04	
RATED VOLTAGE (V)	230	TOTAL FLUX(lm)	649.90	η UP,DN (C0-180)	8.8,41.6	
NOMINAL FLUX(lm)	649.901	CIE CLASS	SEMI-D.	η UP,DN (C180-360)	8.5,41.0	
LAMPS INSIDE	1	η up (%)	17.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	230	η down (%)	82.7	CIBSE SHR MAX	1.30	



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:2022-12-02	Remarks: File No.: WT-F-504-3206-01-A
Checker: Near Gao	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	228.1	228.6	228.9	233.5	234.8	230.5	224.9	225.5	0- 10	22.27	22.27	3.43,3.43
20	208.7	197.9	195.3	209.2	220.8	202.6	187.9	194.8	10- 20	61.17	83.43	12.8,12.8
30	178.7	162.4	169.1	174.4	197.1	167.9	162.1	157.3	20- 30	85.87	169.3	26.1,26.1
40	134.5	133.9	141.1	147.3	160.9	141.8	133.6	129.2	30- 40	96.83	266.1	41,41
50	82.11	101.8	112.2	116.2	108.7	110.6	104.6	98.15	40- 50	93.74	359.9	55.4,55.4
60	44.54	69.89	80.88	82.71	62.64	78.64	74.02	66.82	50- 60	78.43	438.3	67.4,67.4
70	19.34	39.66	49.55	50.54	31.34	47.74	44.46	37.42	60- 70	55.55	493.9	76,76
80	11.25	19.39	24.64	26.15	14.38	25.09	23.22	18.59	70- 80	29.82	523.7	80.6,80.6
90	2.212	4.402	2.395	3.869	4.946	3.455	3.277	4.642	80- 90	13.50	537.2	82.7,82.7
100	12.07	21.75	21.14	19.07	8.563	17.57	20.32	20.59	90-100	11.15	548.3	84.4,84.4
110	20.19	33.85	40.39	34.13	22.60	37.81	37.25	25.48	100-110	28.27	576.6	88.7,88.7
120	12.47	30.17	47.51	34.78	17.03	30.94	45.14	32.57	110-120	35.31	611.9	94.2,94.2
130	9.122	15.28	22.69	23.62	11.75	24.10	21.47	12.22	120-130	22.84	634.7	97.7,97.7
140	6.824	6.181	7.841	7.681	8.718	7.461	7.800	6.019	130-140	8.391	643.1	99,99
150	4.746	4.288	4.472	5.251	6.359	4.818	4.192	4.099	140-150	3.763	646.9	99.5,99.5
160	3.342	3.451	3.400	4.050	4.306	3.712	3.095	3.004	150-160	1.923	648.8	99.8,99.8
170	2.628	2.441	2.456	2.826	2.959	2.594	2.170	2.129	160-170	0.8834	649.7	100,100
180	0.5773	0.5800	0.6473	0.5710	0.5791	0.5818	0.6459	0.5692	170-180	0.1920	649.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 314.26 lm

%lum = 48.4%
%lamp = 48.4%

Conical surface Flux(120deg): 438.31 lm

%lum = 67.4%
%lamp = 67.4%

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

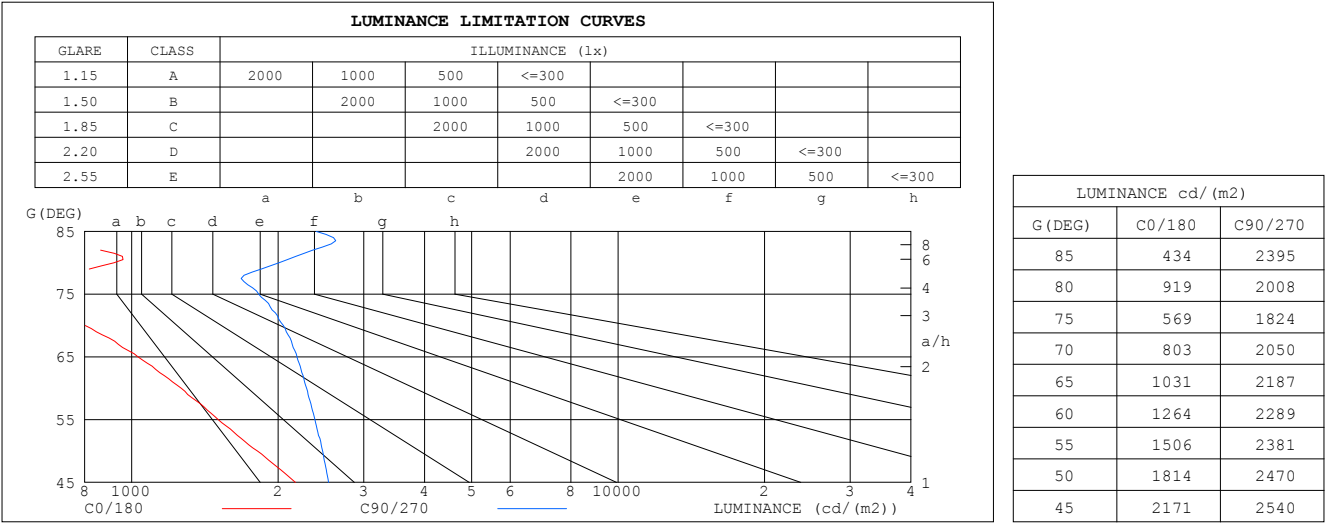
Assessor: Akin Xu



ROSS GARDAM

LUMINANCE LIMITATION CURVES

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz		
Lamp Flux:649.901x1 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

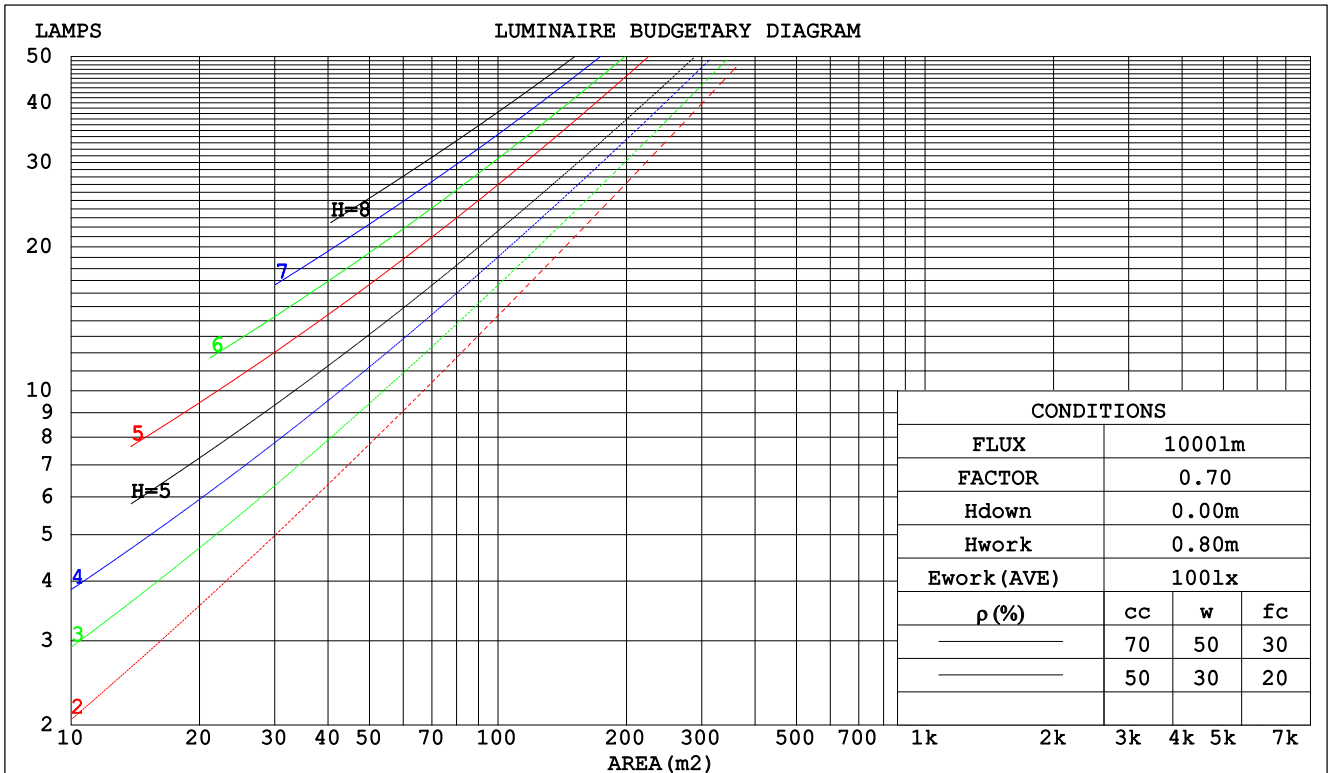


ROSS GARDAM

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz		
Lamp Flux:649.901x1 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	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.93	.93	.93	.86	.86	.86	.83
1.0	1.01	.97	.93	.97	.93	.90	.89	.86	.84	.83	.80	.78	.76	.75	.73	.70
2.0	.88	.82	.77	.85	.79	.74	.79	.74	.70	.73	.69	.66	.68	.65	.62	.59
3.0	.78	.70	.64	.75	.68	.63	.70	.64	.59	.65	.60	.56	.60	.56	.53	.50
4.0	.69	.61	.55	.67	.59	.54	.62	.56	.51	.58	.53	.49	.54	.50	.46	.44
5.0	.62	.54	.48	.60	.52	.47	.56	.50	.45	.52	.47	.42	.49	.44	.41	.38
6.0	.56	.48	.42	.54	.47	.41	.51	.44	.39	.48	.42	.38	.45	.40	.36	.34
7.0	.51	.43	.37	.50	.42	.36	.46	.40	.35	.44	.38	.34	.41	.36	.32	.30
8.0	.47	.39	.33	.45	.38	.33	.43	.36	.31	.40	.34	.30	.38	.33	.29	.27
9.0	.43	.35	.30	.42	.34	.29	.39	.33	.28	.37	.31	.27	.35	.30	.26	.24
10.0	.40	.32	.27	.39	.31	.27	.36	.30	.26	.34	.29	.25	.33	.28	.24	.22



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



ROSS GARDAM

WEC AND CCEC

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 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			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.292	.166	.053	.280	.160	.051	.257	.147	.047	.236	.136	.044	.216	.125	.040	
2.0	.272	.149	.046	.261	.144	.044	.240	.134	.041	.221	.124	.039	.204	.115	.036	
3.0	.251	.134	.040	.241	.129	.039	.223	.121	.037	.206	.113	.035	.190	.105	.032	
4.0	.232	.121	.036	.224	.117	.035	.207	.110	.033	.191	.103	.031	.176	.096	.029	
5.0	.216	.110	.032	.207	.106	.031	.192	.100	.029	.178	.094	.028	.165	.088	.026	
6.0	.200	.100	.029	.193	.098	.028	.179	.092	.027	.166	.086	.025	.154	.081	.024	
7.0	.187	.092	.026	.180	.090	.026	.168	.085	.024	.156	.080	.023	.144	.075	.022	
8.0	.175	.086	.024	.169	.083	.024	.157	.079	.022	.146	.074	.021	.136	.070	.020	
9.0	.165	.080	.022	.159	.077	.022	.148	.073	.021	.138	.069	.020	.128	.065	.019	
10.0	.155	.074	.021	.150	.072	.020	.140	.068	.019	.130	.065	.018	.121	.061	.018	

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.323	.323	.323	.276	.276	.276	.188	.188	.188	.108	.108	.108	.035	.035	.035	
1.0	.312	.290	.269	.267	.248	.232	.183	.171	.160	.105	.099	.093	.034	.032	.030	
2.0	.304	.266	.235	.260	.229	.203	.178	.158	.141	.103	.092	.083	.033	.030	.027	
3.0	.296	.249	.212	.254	.215	.184	.174	.149	.129	.101	.087	.076	.032	.028	.025	
4.0	.288	.236	.196	.247	.204	.170	.170	.142	.120	.098	.083	.071	.032	.027	.023	
5.0	.281	.226	.185	.241	.195	.161	.166	.137	.114	.096	.080	.068	.031	.026	.022	
6.0	.274	.218	.177	.236	.189	.154	.163	.132	.109	.094	.078	.065	.030	.025	.021	
7.0	.268	.211	.171	.230	.183	.149	.159	.128	.106	.092	.076	.063	.030	.025	.021	
8.0	.262	.205	.167	.225	.178	.146	.156	.125	.103	.091	.074	.062	.029	.024	.020	
9.0	.256	.201	.163	.220	.174	.143	.153	.122	.101	.089	.072	.060	.029	.024	.020	
10.0	.250	.197	.161	.216	.171	.140	.150	.120	.100	.087	.071	.059	.028	.023	.020	

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



ROSS GARDAM

UGR(Unified Glare Rating) Table

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 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	13.2	14.4	13.7	14.9	15.4	14.6	15.8	15.1	16.3	16.8	
	3H	13.9	15.0	14.4	15.5	16.1	16.0	17.1	16.5	17.7	
	4H	14.0	15.1	14.6	15.6	16.2	16.6	17.6	17.1	18.1	
	6H	14.2	15.2	14.7	15.7	16.3	17.0	18.0	17.5	18.5	
	8H	14.3	15.2	14.8	15.8	16.4	17.3	18.2	17.9	18.8	
	12H	14.3	15.2	14.8	15.7	16.4	17.6	18.5	18.2	19.1	
4H	2H	13.8	14.9	14.4	15.4	16.0	14.9	16.0	15.5	16.5	
	3H	14.8	15.7	15.4	16.3	16.9	16.5	17.4	17.1	18.0	
	4H	15.0	15.9	15.7	16.5	17.1	17.2	18.0	17.8	18.6	
	6H	15.3	16.1	16.0	16.7	17.4	17.7	18.5	18.4	19.1	
	8H	15.5	16.2	16.1	16.8	17.5	18.2	18.8	18.8	19.5	
	12H	15.5	16.1	16.2	16.8	17.5	18.5	19.1	19.2	19.8	
8H	4H	15.3	16.0	16.0	16.6	17.4	17.2	17.9	17.9	18.5	
	6H	15.9	16.4	16.6	17.1	17.9	18.0	18.6	18.7	19.2	
	8H	16.1	16.6	16.8	17.3	18.1	18.6	19.1	19.3	19.8	
	12H	16.2	16.6	16.9	17.3	18.1	19.0	19.5	19.8	20.2	
12H	4H	15.4	16.0	16.0	16.6	17.4	17.2	17.8	17.9	18.5	
	6H	16.0	16.5	16.7	17.2	18.0	18.0	18.5	18.7	19.2	
	8H	16.3	16.7	17.0	17.5	18.3	18.7	19.1	19.4	19.8	
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.2					
1.5H	+ 0.3 / - 0.4					+ 0.1 / - 0.2					
2.0H	+ 0.4 / - 1.1					+ 0.2 / - 0.4					

CIE Pub.117, 649.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.5)
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



ROSS GARDAM

UTILIZATION FACTORS TABLE

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 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	55	43	37	53	43	37	52	42	36	30
0.80	64	53	46	63	52	45	60	51	44	37
1.00	72	61	54	70	60	53	67	60	52	44
1.25	79	69	61	77	67	61	73	65	59	50
1.50	84	74	67	81	72	66	77	69	64	54
2.00	91	82	75	88	80	74	82	76	71	60
2.50	95	87	80	91	84	78	85	79	75	63
3.00	98	91	85	94	88	83	88	83	79	66
4.00	102	96	91	98	93	88	91	87	83	70
5.00	104	99	95	100	96	92	93	89	86	72
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

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

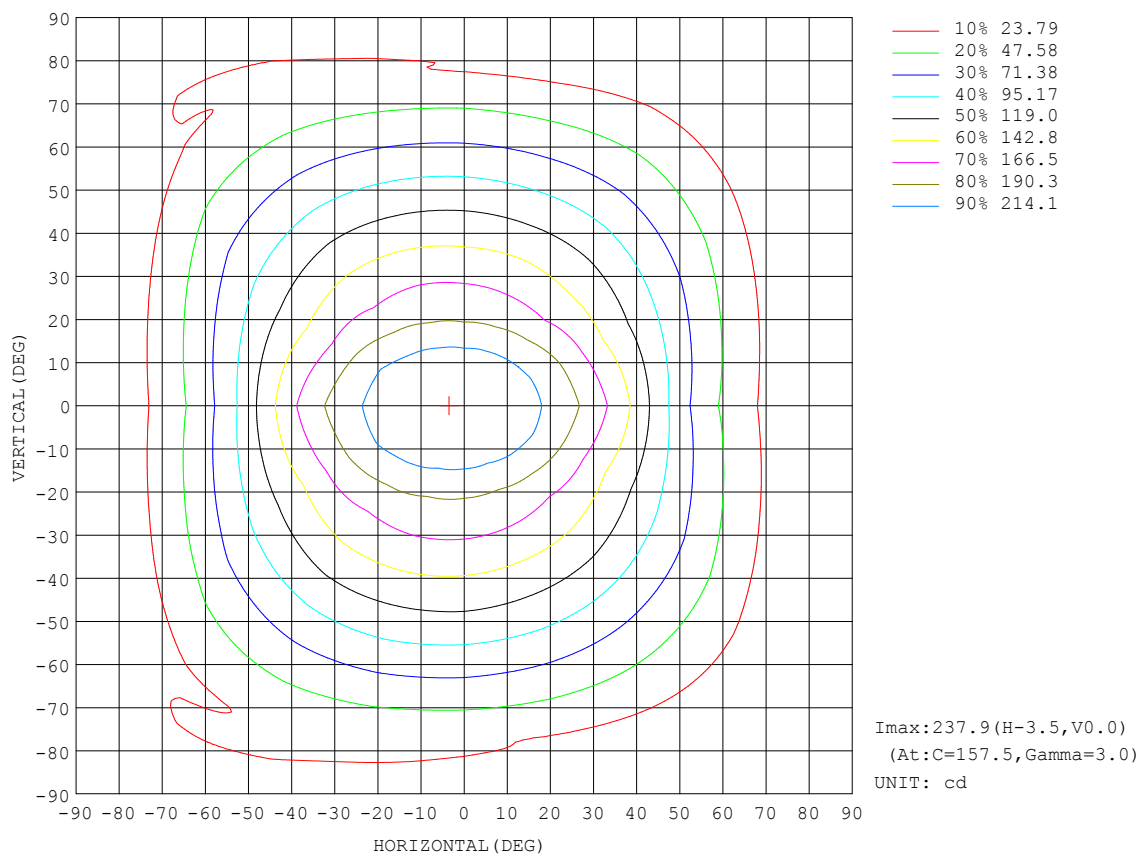
Assessor: Akin Xu



ROSS GARDAM

ISOCANDELA DIAGRAM

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.90lx1 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

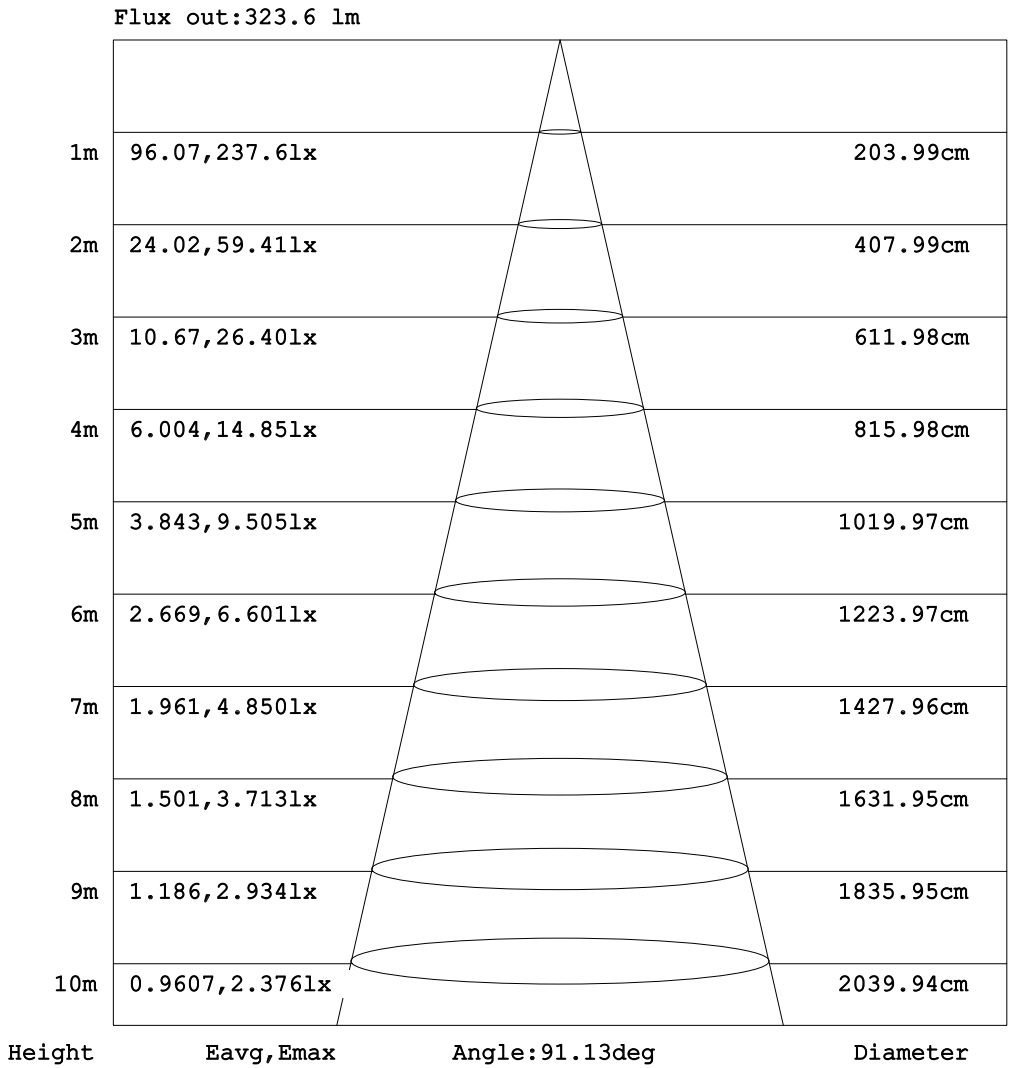
Assessor: Akin Xu



ROSS GARDAM

AAI Figure

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 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

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

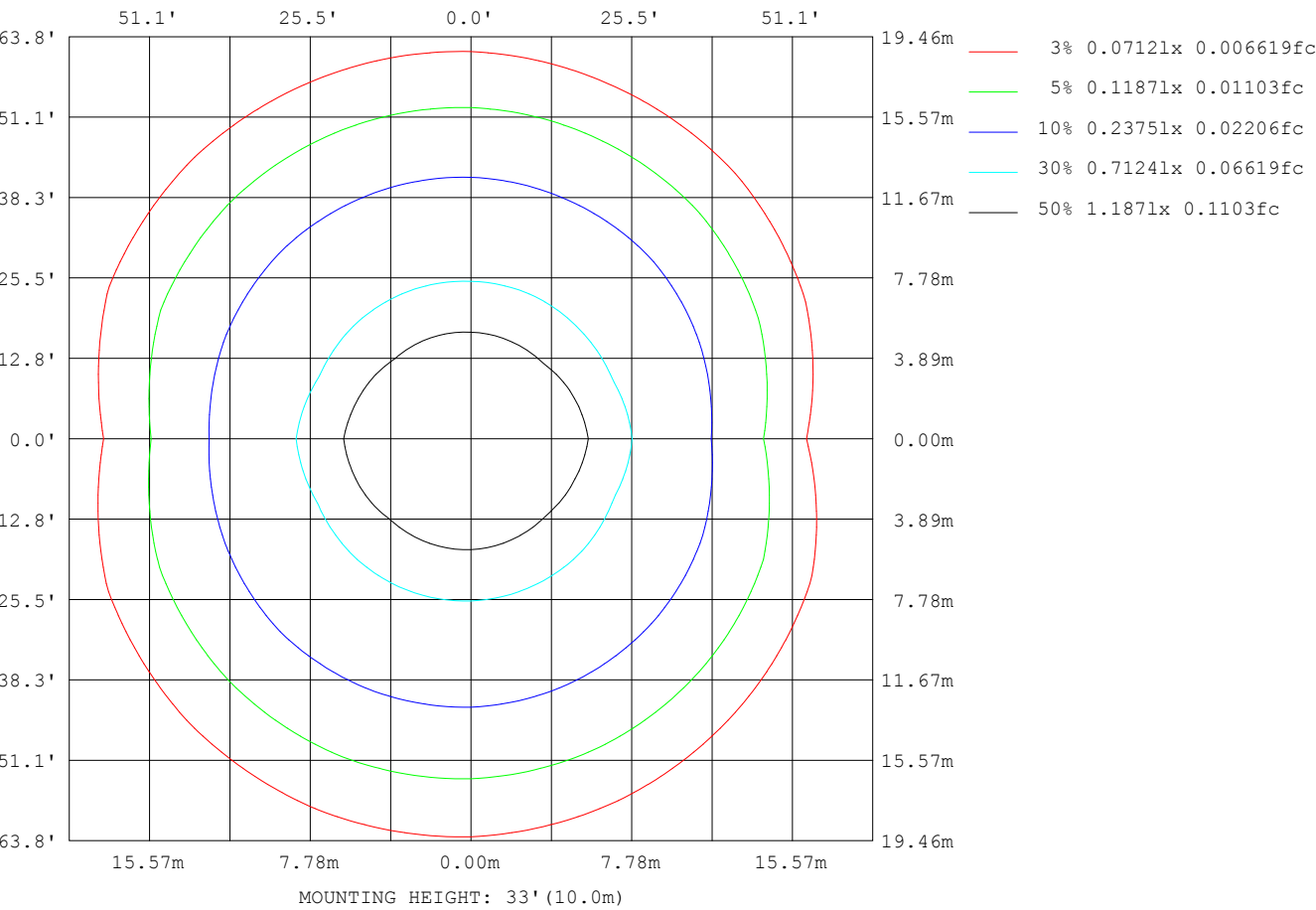
Assessor: Akin Xu



ROSS GARDAM

ISOLUX DIAGRAM

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.90lx1 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



ROSS GARDAM

LED Avg.L Report

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 lm		
NAME: LED Light	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ross Gardam	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	1280
L_0~180 (75) av	804
L_0~180 (85) av	1730
L_90~270 (65) av	2085
L_90~270 (75) av	1723
L_90~270 (85) av	2099
L_45 (65) av	1976
L_45 (75) av	1601
L_45 (85) av	2121

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

Checker: Near Gao

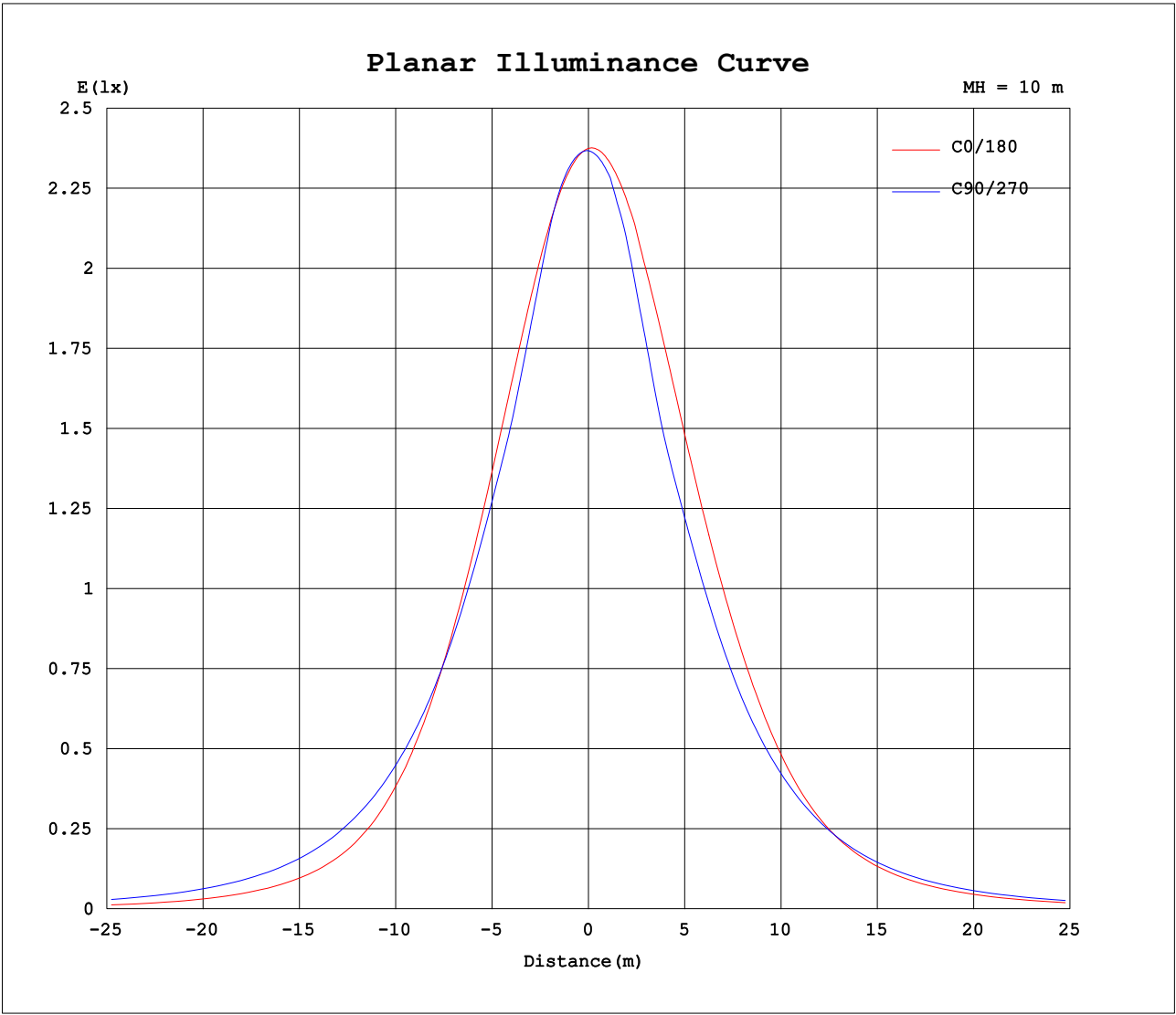
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.444
Humidity:60.5%
Test Distance:2.617m [K=1.0000]
Remarks: File No.: WT-F-504-3206-01-A

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:2022-12-02

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



ROSS GARDAM

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.16V I:0.0513A P:11.512W PF:0.9755 Freq:50.00Hz Lamp Flux:649.901x1 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	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237	237			
5	234	234	235	235	236	236	237	237	237	236	236	235	234	234	234	234			
10	228	228	229	227	229	231	233	235	235	233	230	228	225	226	226	227			
15	220	219	216	212	213	217	225	228	229	227	220	212	208	209	214	218			
20	209	206	198	194	195	200	209	220	221	217	203	193	188	189	195	206			
25	195	187	178	178	182	184	192	206	210	201	183	178	174	173	174	187			
30	179	166	162	166	169	172	174	187	197	181	168	166	162	160	157	166			
35	159	146	149	152	155	159	161	167	181	160	155	152	148	146	143	144			
40	135	128	134	137	141	145	147	147	161	143	142	138	134	131	129	126			
45	108	110	118	122	127	130	132	129	136	126	127	123	120	116	114	108			
50	82.1	94.2	102	107	112	115	116	112	109	110	111	108	105	101	98.2	91.3			
55	60.9	78.5	85.5	91.9	96.5	99.1	99.6	94.9	83.5	93.3	94.5	92.1	89.3	85.4	82.3	75.2			
60	44.5	63.1	69.9	76.3	80.9	83.5	82.7	78.7	62.6	77.5	78.6	76.4	74.0	70.0	66.8	59.5			
65	30.7	47.9	54.6	60.7	65.3	67.3	66.6	62.2	45.7	61.7	63.1	61.0	59.2	54.9	51.8	44.3			
70	19.3	33.7	39.7	45.5	49.6	51.4	50.5	46.3	31.3	46.1	47.7	46.1	44.5	40.4	37.4	30.2			
75	10.4	20.8	25.5	30.1	33.4	35.4	34.8	30.9	19.0	31.2	32.8	31.4	29.6	26.2	24.0	17.8			
80	11.2	16.3	19.4	22.3	24.6	26.3	26.1	22.6	14.4	23.7	25.1	24.7	23.2	20.8	18.6	15.1			
85	2.66	4.44	6.80	10.6	14.8	19.2	21.9	20.6	18.6	20.6	18.2	15.0	11.1	7.89	5.34	3.51			
90	2.21	4.13	4.40	3.48	2.39	3.05	3.87	4.96	4.95	4.25	3.45	3.09	3.28	4.60	4.64	4.53			
95	5.76	11.5	11.7	12.5	12.0	10.6	9.09	7.80	3.18	7.89	8.99	11.4	11.7	12.4	11.6	11.5			
100	12.1	19.5	21.8	21.1	21.1	19.3	19.1	17.0	8.56	16.4	17.6	19.9	20.3	19.9	20.6	19.1			
105	17.7	26.6	32.4	28.1	32.0	27.2	30.6	25.8	16.5	25.3	30.7	25.1	30.2	29.1	29.6	26.4			
110	20.2	33.0	33.8	42.2	40.4	43.0	34.1	33.9	22.6	33.7	37.8	39.5	37.3	41.5	25.5	29.5			
115	15.4	31.8	29.1	49.4	50.7	51.8	32.2	34.9	22.9	38.5	29.9	51.0	48.0	44.5	28.1	27.5			
120	12.5	26.2	30.2	41.2	47.5	43.9	34.8	31.0	17.0	33.6	30.9	43.2	45.1	36.2	32.6	20.7			
125	10.6	13.6	31.9	28.1	36.6	30.7	38.2	19.6	14.0	23.1	35.4	28.5	33.8	26.4	30.1	9.90			
130	9.12	8.26	15.3	21.7	22.7	27.1	23.6	10.6	11.7	10.9	24.1	24.1	21.5	20.8	12.2	8.07			
135	7.91	7.06	8.36	10.9	12.6	13.1	10.8	9.05	10.1	8.58	10.6	12.2	11.9	10.1	7.81	7.17			
140	6.82	6.21	6.18	7.23	7.84	8.18	7.68	8.03	8.72	7.61	7.46	7.89	7.80	6.81	6.02	6.50			
145	5.75	5.54	4.91	5.43	5.77	6.09	5.99	7.23	7.51	6.84	5.93	5.81	5.52	5.08	4.72	5.73			
150	4.75	4.68	4.29	4.43	4.47	4.98	5.25	6.12	6.36	6.01	4.82	4.58	4.19	4.10	4.10	4.75			
155	3.89	3.93	3.90	3.63	3.64	4.04	4.68	5.06	5.20	4.95	4.26	3.60	3.33	3.33	3.61	3.80			
160	3.34	3.39	3.45	3.40	3.40	3.72	4.05	4.20	4.31	4.06	3.71	3.38	3.09	3.07	3.00	3.17			
165	2.97	3.02	2.96	2.97	3.07	3.25	3.41	3.54	3.55	3.40	3.14	2.90	2.75	2.65	2.64	2.73			
170	2.63	2.54	2.44	2.42	2.46	2.63	2.83	2.89	2.96	2.80	2.59	2.35	2.17	2.16	2.13	2.43			
175	1.52	1.66	1.81	1.92	1.96	1.97	1.88	1.88	1.86	1.79	1.77	1.76	1.70	1.60	1.51	1.49			
180	0.58	0.57	0.58	0.62	0.65	0.60	0.57	0.56	0.58	0.58	0.58	0.62	0.65	0.61	0.57	0.56			

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

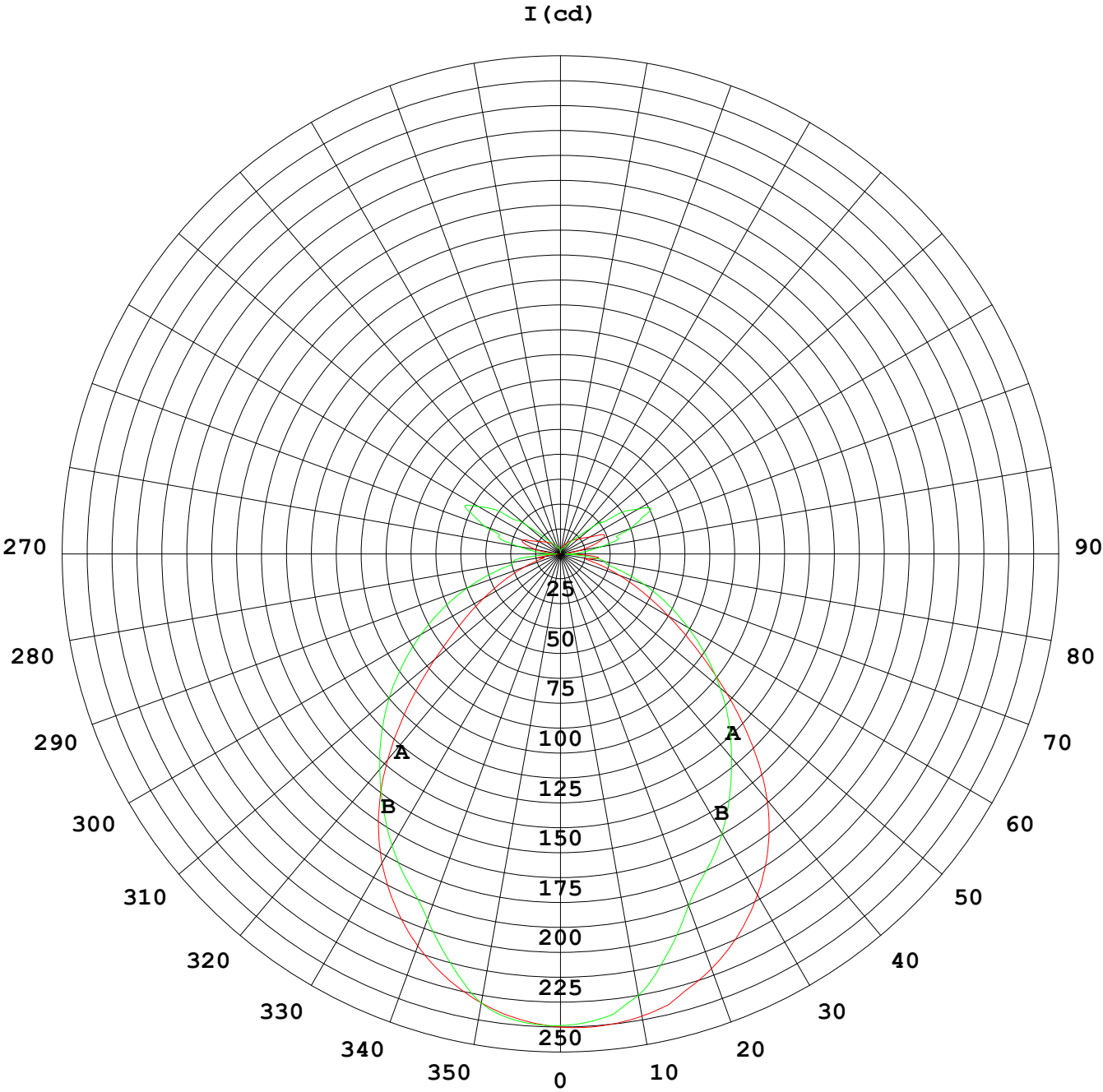
γ Range: 0 - 180DEG
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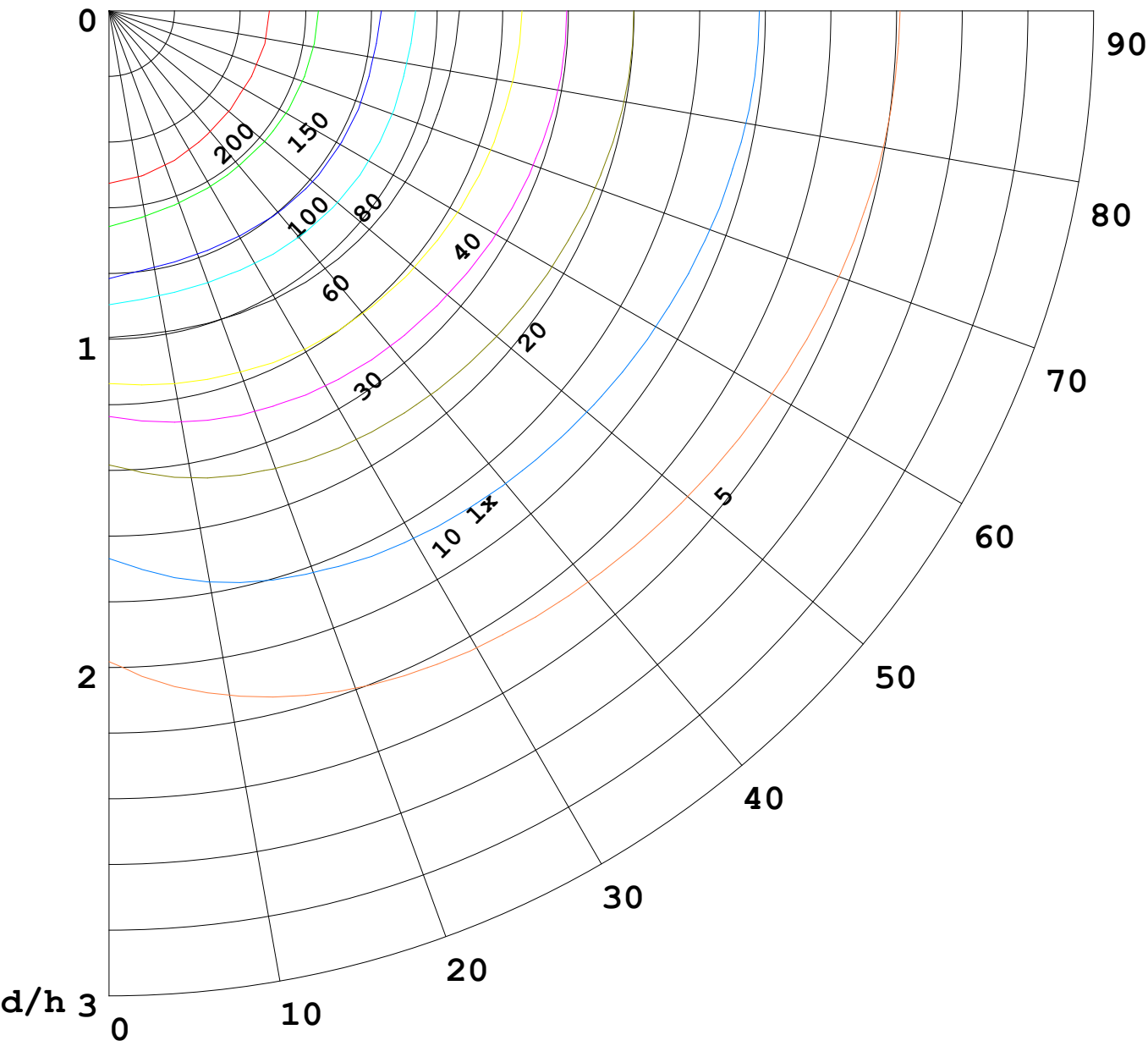


ROSS GARDAM



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

