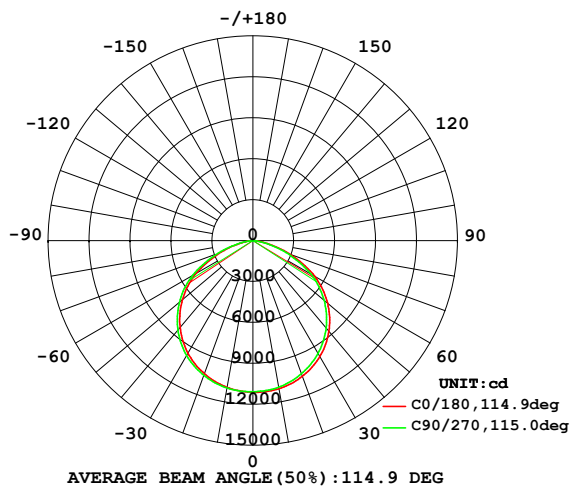


LUMINAIRE PHOTOMETRIC TEST REPORT

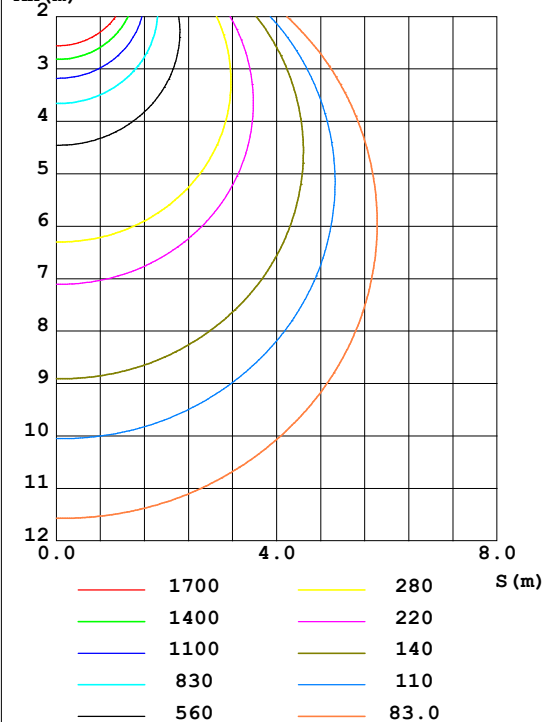
Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.90 lm/W			
MODEL	SMD3030 (757G P20D41)	I _{max} (cd)	11119	S/MH(C0/180)	1.27
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	31539	η UP,DN(C0-180)	0.2,49.9
NOMINAL FLUX(lm)	31538.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,49.7
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277	η down(%)	99.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



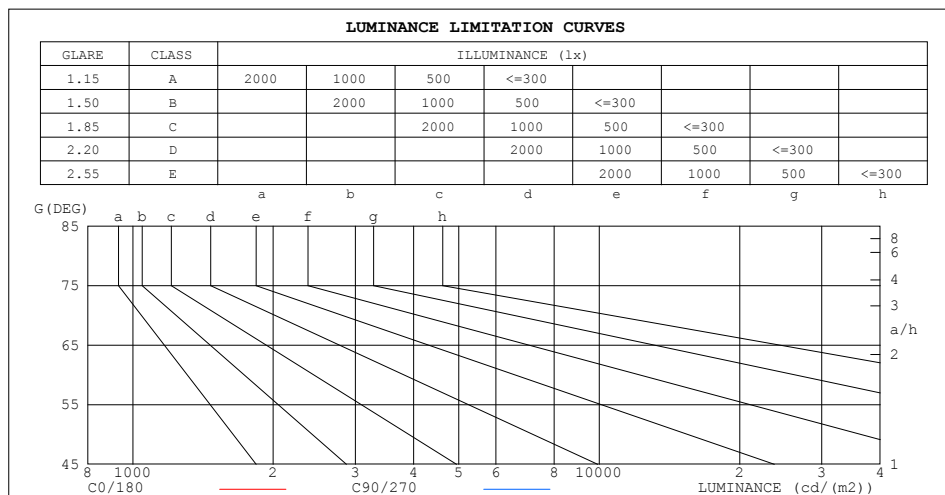
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:DEG
 Operators:GUANLINGAO
 Test Date:2017-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity:65.0%
 Test Distance:9.390m [K=1.0000]
 Remarks: 0-180°

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1102	1097	1091	1087	1093	1094	1097	1097	0- 10	1052	1052	3.34, 3.34
20	1059	1050	1039	1034	1039	1043	1051	1054	10- 20	3035	4087	13, 13
30	981.6	971.0	955.6	948.7	953.0	959.6	972.7	976.6	20- 30	4656	8742	27.7, 27.7
40	867.1	854.7	835.9	827.4	830.7	838.5	855.6	860.9	30- 40	5693	14435	45.8, 45.8
50	716.0	702.6	682.5	672.8	674.5	683.3	702.6	708.7	40- 50	5966	20401	64.7, 64.7
60	524.5	513.0	491.6	482.6	481.2	488.4	510.4	514.9	50- 60	5372	25773	81.7, 81.7
70	285.7	275.4	259.1	249.2	246.1	253.2	270.2	277.7	60- 70	3764	29537	93.7, 93.7
80	74.48	71.93	61.76	58.75	55.19	55.71	65.57	68.15	70- 80	1665	31202	98.9, 98.9
90	0.5215	0.6424	0.5015	0.4815	0.3569	0.3581	0.3418	0.3493	80- 90	206.4	31409	99.6, 99.6
100	0.8440	0.8535	0.9033	0.9089	0.6834	0.6746	0.6324	0.6224	90-100	6.089	31415	99.6, 99.6
110	1.463	1.482	1.553	1.562	1.258	1.248	1.178	1.164	100-110	11.11	31426	99.6, 99.6
120	2.133	2.163	2.239	2.251	1.908	1.885	1.807	1.794	110-120	16.77	31443	99.7, 99.7
130	2.745	2.772	2.842	2.859	2.521	2.482	2.417	2.392	120-130	20.88	31464	99.8, 99.8
140	3.262	3.289	3.346	3.368	3.026	2.982	2.926	2.875	130-140	22.36	31486	99.8, 99.8
150	3.660	3.671	3.731	3.745	3.357	3.317	3.246	3.230	140-150	20.84	31507	99.9, 99.9
160	3.964	3.995	4.024	4.029	3.722	3.681	3.630	3.612	150-160	16.93	31524	100, 100
170	4.221	4.252	4.257	4.256	4.012	3.987	3.951	3.912	160-170	11.22	31535	100, 100
180	4.358	4.357	4.342	4.319	4.361	4.351	4.345	4.317	170-180	4.009	31539	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$ MAX (Ii - Iavg)/Iavg (0-135) = 148.4 %									UNIT: lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	39643	33181
80	94862	78660
75	147588	128255
70	184748	167573
65	210456	194986
60	232010	217459
55	241358	228522
50	246355	234812
45	249133	238906

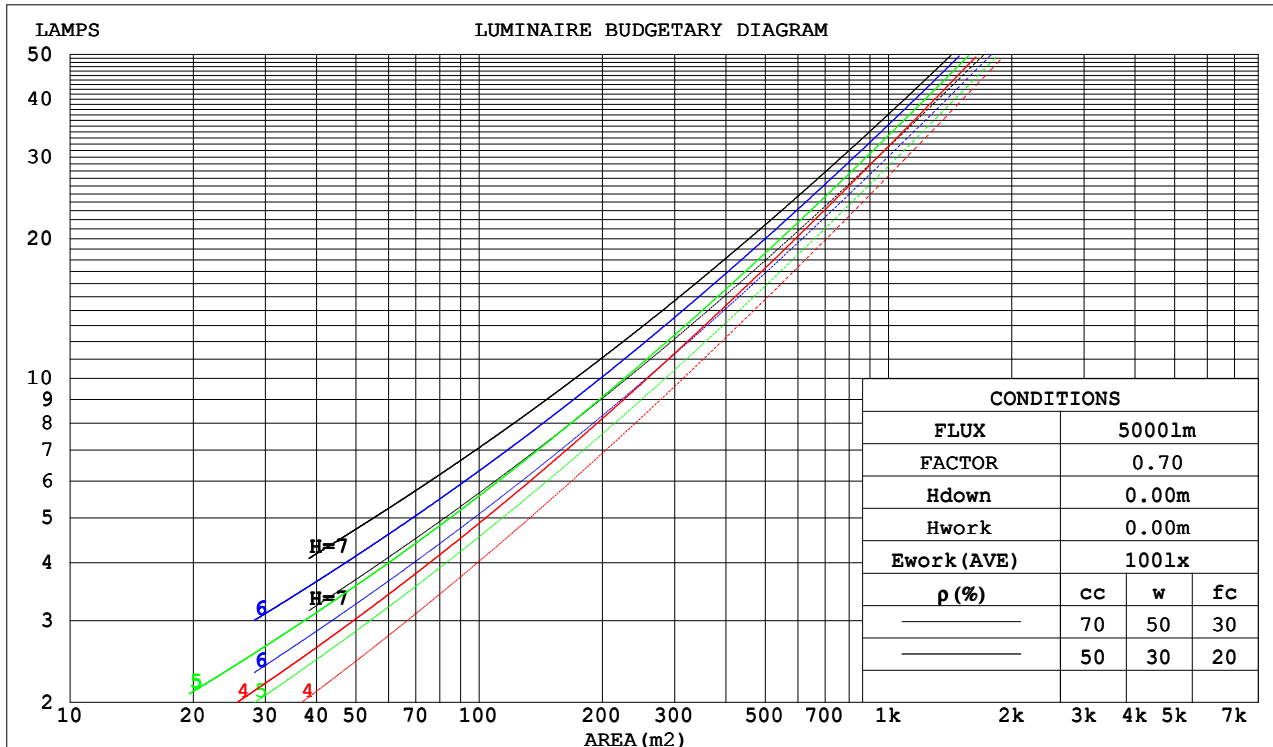
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: GUANLINGAO
 Test Date: 2017-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks: 0-180°

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION 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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.46	.44
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.38	.32	.27	.38	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: GUANLINGAO
 Test Date: 2017-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks: 0-180°

WEC AND CCEC

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm														
NAME: LM-200W					TYPE:120°GLASS					WEIGHT:4.868kg				
SPEC.:5000k R80 480L					DIM.: D280mm*200mm					SERIAL No.:				
MFR.:					SUR.:0.12m*0.12m*3.14					PROTECTION 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	.289	.164	.052	.281	.161	.051	.268	.154	.049	.256	.148	.047	.244	.142	.046	
2.0	.278	.153	.047	.272	.150	.046	.260	.145	.045	.249	.140	.044	.239	.135	.043	
3.0	.261	.139	.042	.256	.137	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039	
4.0	.243	.126	.037	.238	.125	.037	.229	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.226	.115	.033	.222	.114	.033	.213	.111	.033	.206	.108	.032	.198	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.028	.193	.096	.027	.186	.094	.027	.180	.092	.027	.174	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.173	.083	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.146	.074	.021	

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			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.182	.159	.139	.156	.137	.120	.107	.094	.083	.061	.054	.048	.020	.018	.016	
2.0	.174	.135	.103	.149	.116	.089	.102	.080	.062	.059	.047	.036	.019	.015	.012	
3.0	.166	.117	.079	.142	.101	.068	.098	.070	.048	.056	.041	.028	.018	.013	.009	
4.0	.159	.104	.062	.136	.090	.054	.094	.063	.038	.054	.037	.023	.017	.012	.007	
5.0	.151	.094	.051	.130	.081	.044	.090	.057	.031	.052	.033	.019	.017	.011	.006	
6.0	.144	.085	.043	.124	.074	.037	.086	.052	.026	.050	.030	.016	.016	.010	.005	
7.0	.138	.078	.037	.118	.068	.032	.082	.048	.023	.048	.028	.014	.015	.009	.004	
8.0	.131	.073	.032	.113	.063	.028	.078	.044	.020	.046	.026	.012	.015	.009	.004	
9.0	.125	.068	.029	.108	.059	.025	.075	.041	.018	.044	.024	.011	.014	.008	.004	
10.0	.120	.063	.026	.103	.055	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: GUANLINGAO
Test Date: 2017-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks: 0-180°

UGR(Unified Glare Rating) Table

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm										
NAME: LM-200W					TYPE:120°GLASS			WEIGHT:4.868kg		
SPEC.:5000k R80 480L					DIM.: D280mm*200mm			SERIAL No.:		
MFR.:					SUR.:0.12m*0.12m*3.14			PROTECTION 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	32.1	33.6	32.4	33.8	34.0	31.9	33.4	32.1	33.6	33.8
3H	33.4	34.7	33.7	35.0	35.2	33.0	34.4	33.3	34.7	34.9
4H	33.7	35.0	34.1	35.3	35.6	33.4	34.7	33.7	34.9	35.2
6H	33.9	35.1	34.2	35.4	35.7	33.5	34.7	33.8	35.0	35.3
8H	33.9	35.1	34.2	35.3	35.6	33.5	34.6	33.8	34.9	35.2
12H	33.8	35.0	34.2	35.3	35.6	33.4	34.6	33.8	34.9	35.2
4H 2H	32.6	33.9	32.9	34.2	34.4	32.4	33.7	32.8	34.0	34.3
3H	34.0	35.2	34.4	35.5	35.8	33.8	34.9	34.1	35.2	35.5
4H	34.5	35.5	34.9	35.9	36.2	34.2	35.2	34.6	35.5	35.9
6H	34.7	35.6	35.1	36.0	36.3	34.4	35.3	34.8	35.6	36.0
8H	34.7	35.6	35.1	35.9	36.3	34.4	35.2	34.8	35.6	36.0
12H	34.7	35.5	35.1	35.9	36.3	34.3	35.1	34.8	35.5	35.9
8H 4H	34.6	35.5	35.0	35.8	36.2	34.3	35.2	34.7	35.5	35.9
6H	34.9	35.6	35.3	36.0	36.4	34.6	35.3	35.0	35.7	36.1
8H	34.9	35.6	35.4	36.0	36.4	34.6	35.2	35.1	35.6	36.1
12H	34.9	35.5	35.4	35.9	36.4	34.6	35.1	35.1	35.6	36.1
12H 4H	34.6	35.4	35.0	35.8	36.2	34.3	35.1	34.7	35.5	35.9
6H	34.9	35.5	35.4	35.9	36.4	34.6	35.2	35.0	35.6	36.1
8H	34.9	35.5	35.4	35.9	36.4	34.6	35.1	35.1	35.6	36.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 31539 lm Total Lamp Luminous Flux. (8log(F/F0) = 12.0)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: GUANLINGAO
 Test Date: 2017-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks: 0-180°

UTILIZATION FACTORS TABLE

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION ANGLE:

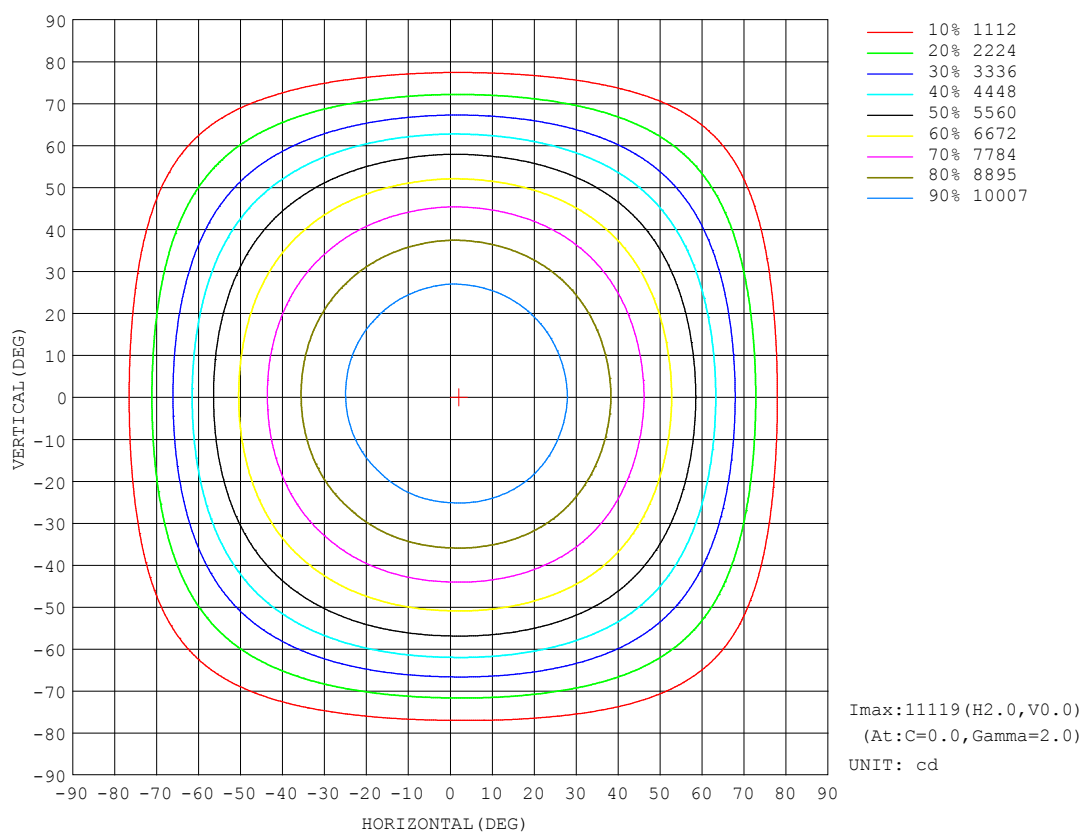
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	56	49	42
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	87	79	72	84	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: GUANLINGAO
 Test Date: 2017-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks: 0-180°

ISOCANDELA DIAGRAM

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION ANGLE:

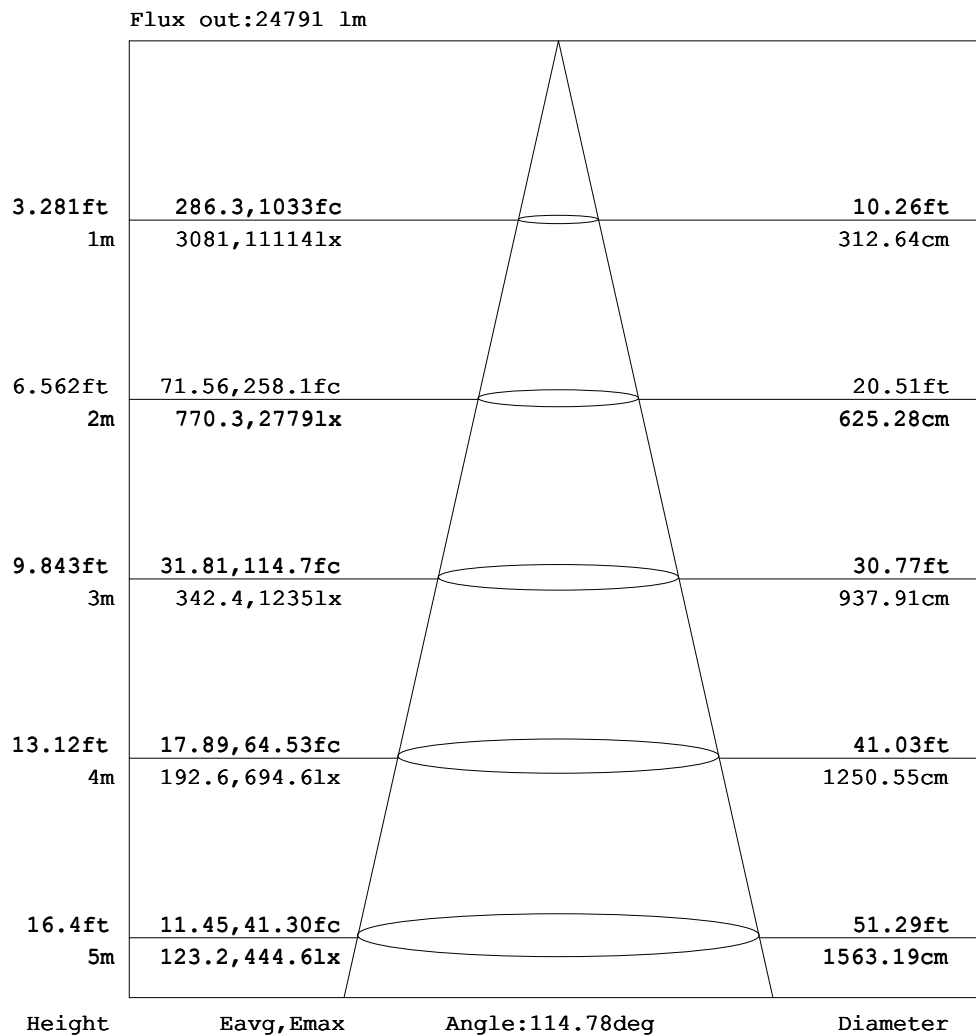


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: GUANLINGAO
Test Date: 2017-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks: 0-180°

AAI Figure

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION ANGLE:



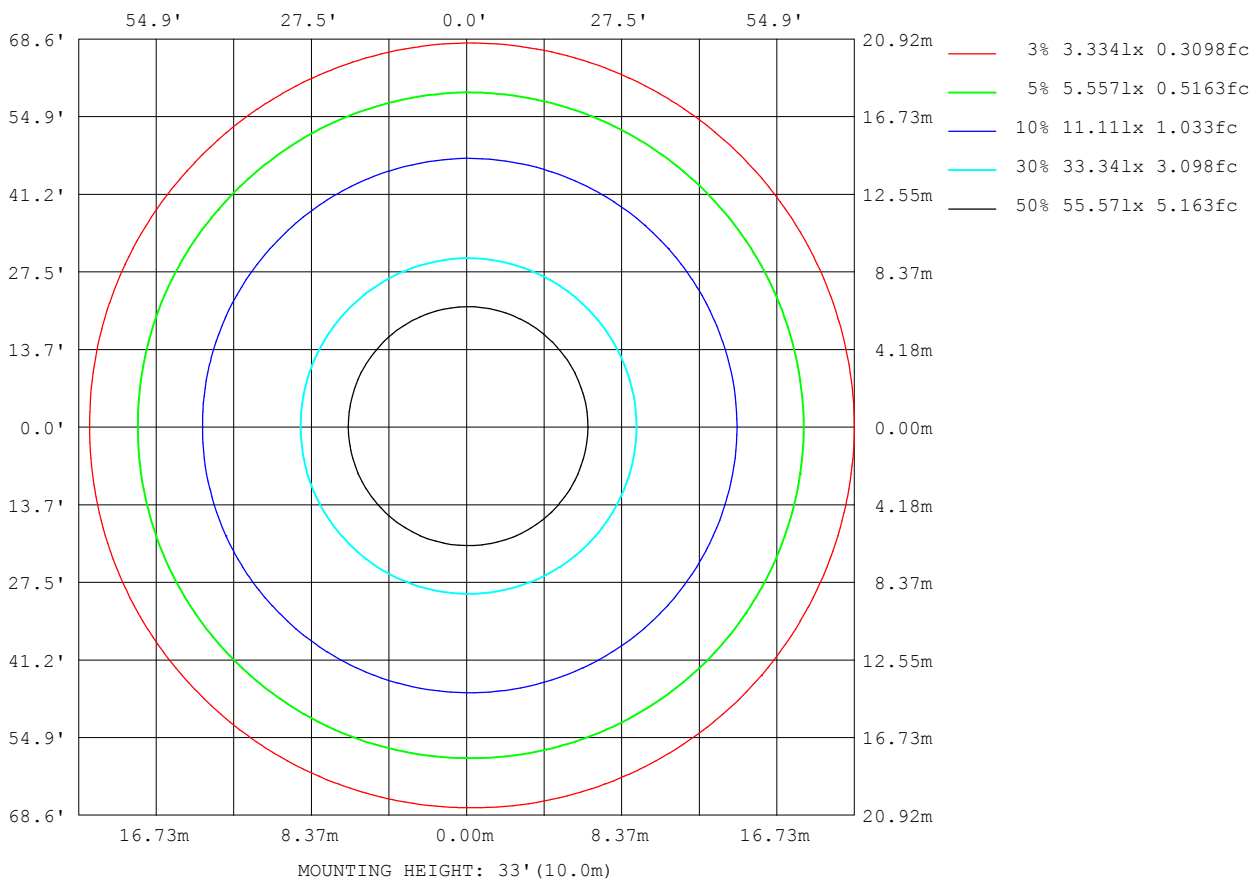
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:DEG
Operators:GUANLINGAO
Test Date:2017-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity:65.0%
Test Distance:9.390m [K=1.0000]
Remarks: 0-180°

ISOLUX DIAGRAM

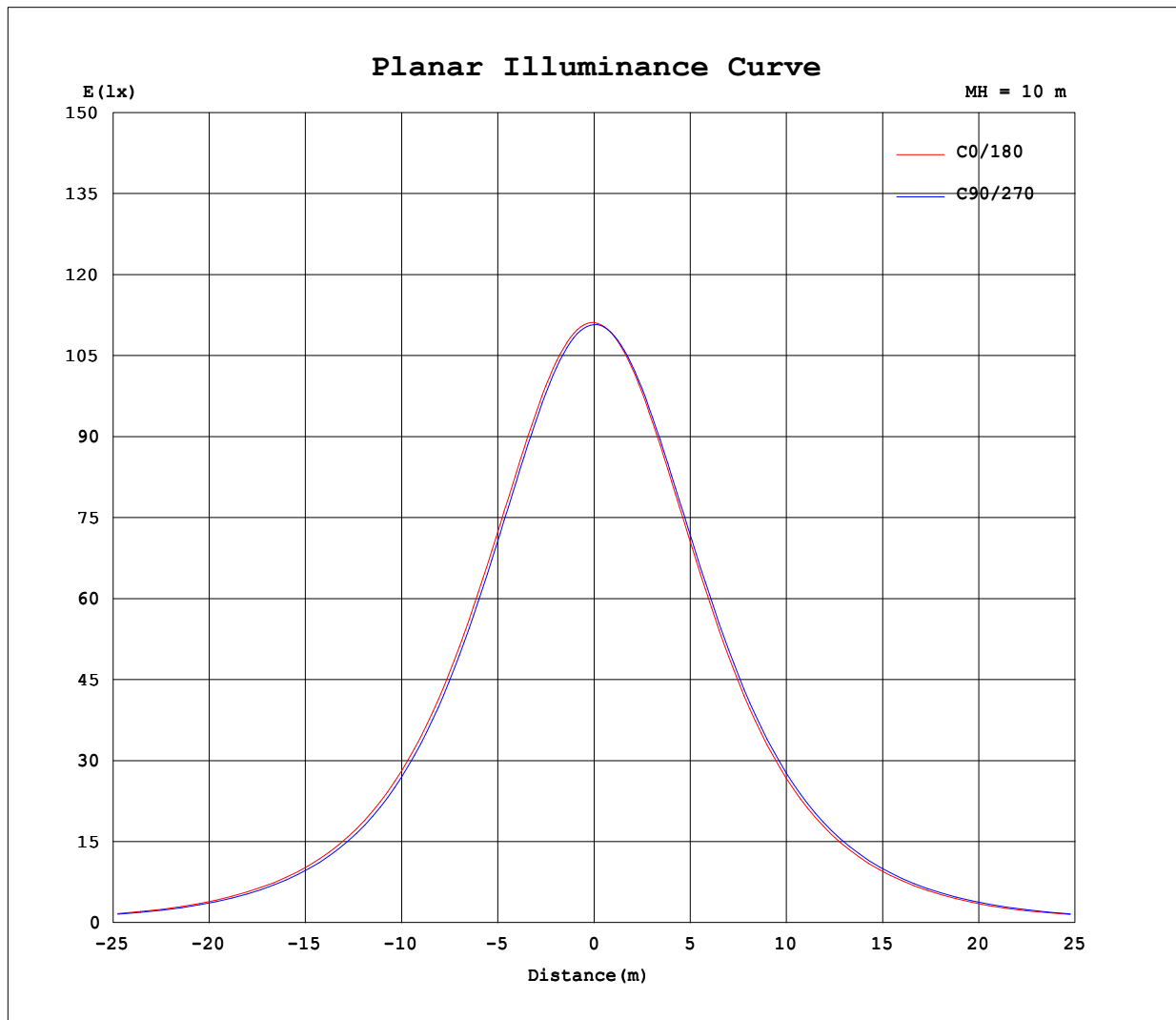
Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: GUANLINGAO
Test Date: 2017-12-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks: 0-180°

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: DEG
Operators: GUANLINGAO
Test Date: 2017-12-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
Humidity: 65.0%
Test Distance: 9.390m [K=1.0000]
Remarks: 0-180°

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.1V I:0.7604A P:199.7W PF:0.9480 Lamp Flux:31538.9x1 lm		
NAME: LM-200W	TYPE:120°GLASS	WEIGHT:4.868kg
SPEC.:5000k R80 480L	DIM.: D280mm*200mm	SERIAL No.:
MFR.:	SUR.:0.12m*0.12m*3.14	PROTECTION ANGLE:

Table--1

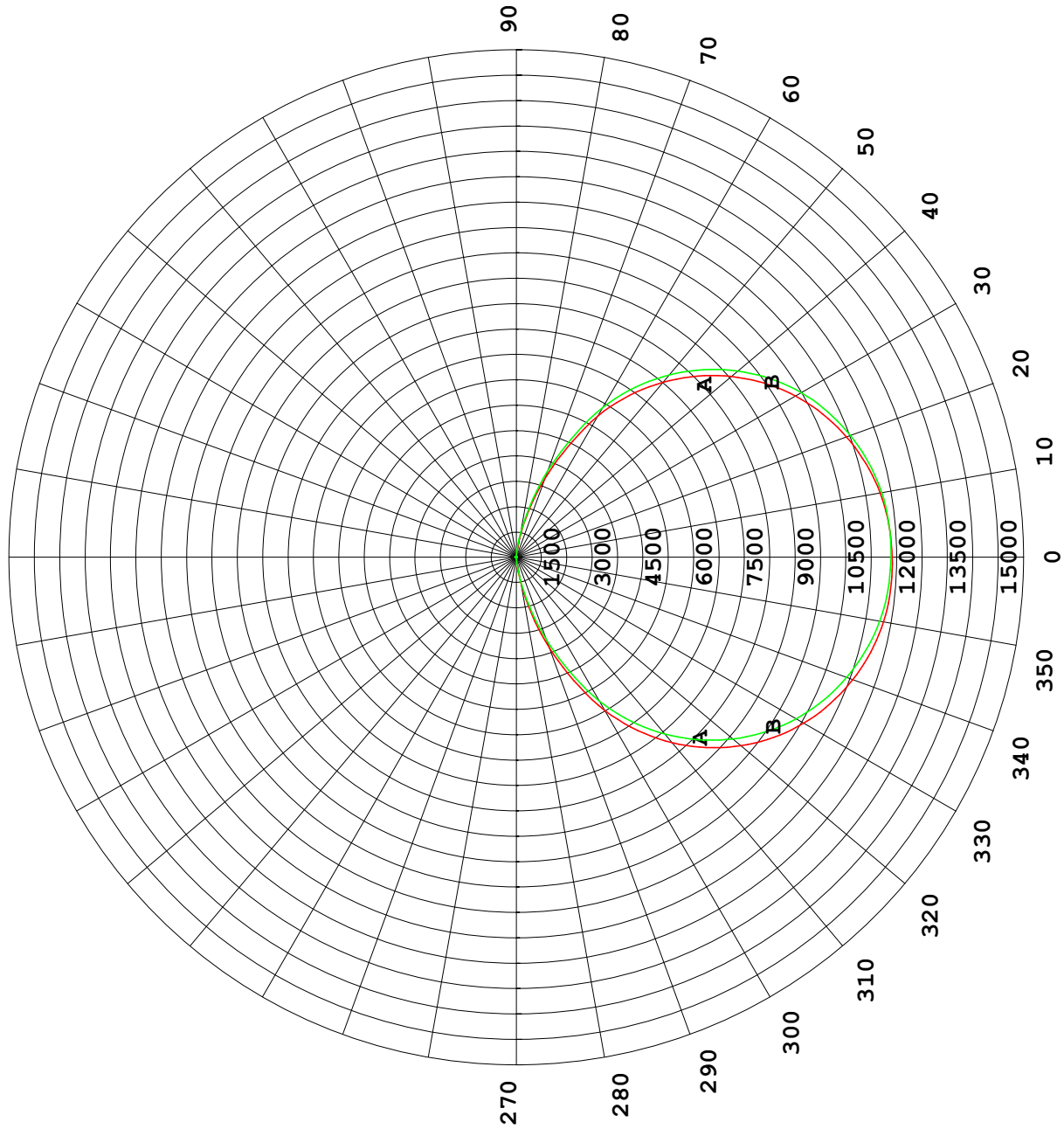
UNIT: ×10cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1111	1109	1108	1106	1111	1109	1108	1106										
5	1111	1107	1103	1100	1106	1105	1106	1105										
10	1102	1097	1091	1087	1093	1094	1097	1097										
15	1085	1078	1069	1065	1070	1072	1078	1080										
20	1059	1050	1039	1034	1039	1043	1051	1054										
25	1025	1015	1002	995	1000	1006	1016	1020										
30	982	971	956	949	953	960	973	977										
35	929	917	900	892	896	903	919	924										
40	867	855	836	827	831	838	856	861										
45	797	783	764	754	757	766	784	790										
50	716	703	682	673	674	683	703	709										
55	626	613	593	583	583	592	613	618										
60	525	513	492	483	481	488	510	515										
65	402	390	373	361	359	367	386	393										
70	286	275	259	249	246	253	270	278										
75	173	166	150	144	140	143	158	164										
80	74.5	71.9	61.8	58.7	55.2	55.7	65.6	68.1										
85	15.6	14.0	13.1	10.4	8.82	8.48	10.9	12.8										
90	0.52	0.64	0.50	0.48	0.36	0.36	0.34	0.35										
95	0.60	0.61	0.64	0.65	0.48	0.47	0.44	0.43										
100	0.84	0.85	0.90	0.91	0.68	0.67	0.63	0.62										
105	1.14	1.15	1.22	1.22	0.95	0.94	0.88	0.87										
110	1.46	1.48	1.55	1.56	1.26	1.25	1.18	1.16										
115	1.80	1.83	1.90	1.91	1.58	1.56	1.49	1.47										
120	2.13	2.16	2.24	2.25	1.91	1.89	1.81	1.79										
125	2.45	2.48	2.56	2.57	2.22	2.20	2.12	2.10										
130	2.74	2.77	2.84	2.86	2.52	2.48	2.42	2.39										
135	3.01	3.04	3.11	3.13	2.80	2.76	2.69	2.67										
140	3.26	3.29	3.35	3.37	3.03	2.98	2.93	2.87										
145	3.48	3.51	3.56	3.58	3.19	3.16	3.10	3.07										
150	3.66	3.67	3.73	3.75	3.36	3.32	3.25	3.23										
155	3.81	3.85	3.89	3.90	3.54	3.50	3.44	3.43										
160	3.96	4.00	4.02	4.03	3.72	3.68	3.63	3.61										
165	4.11	4.15	4.16	4.16	3.85	3.81	3.76	3.75										
170	4.22	4.25	4.26	4.26	4.01	3.99	3.95	3.91										
175	4.27	4.28	4.28	4.27	4.28	4.26	4.24	4.22										
180	4.36	4.36	4.34	4.32	4.36	4.35	4.34	4.32										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: DEG
 Operators: GUANLINGAO
 Test Date: 2017-12-28

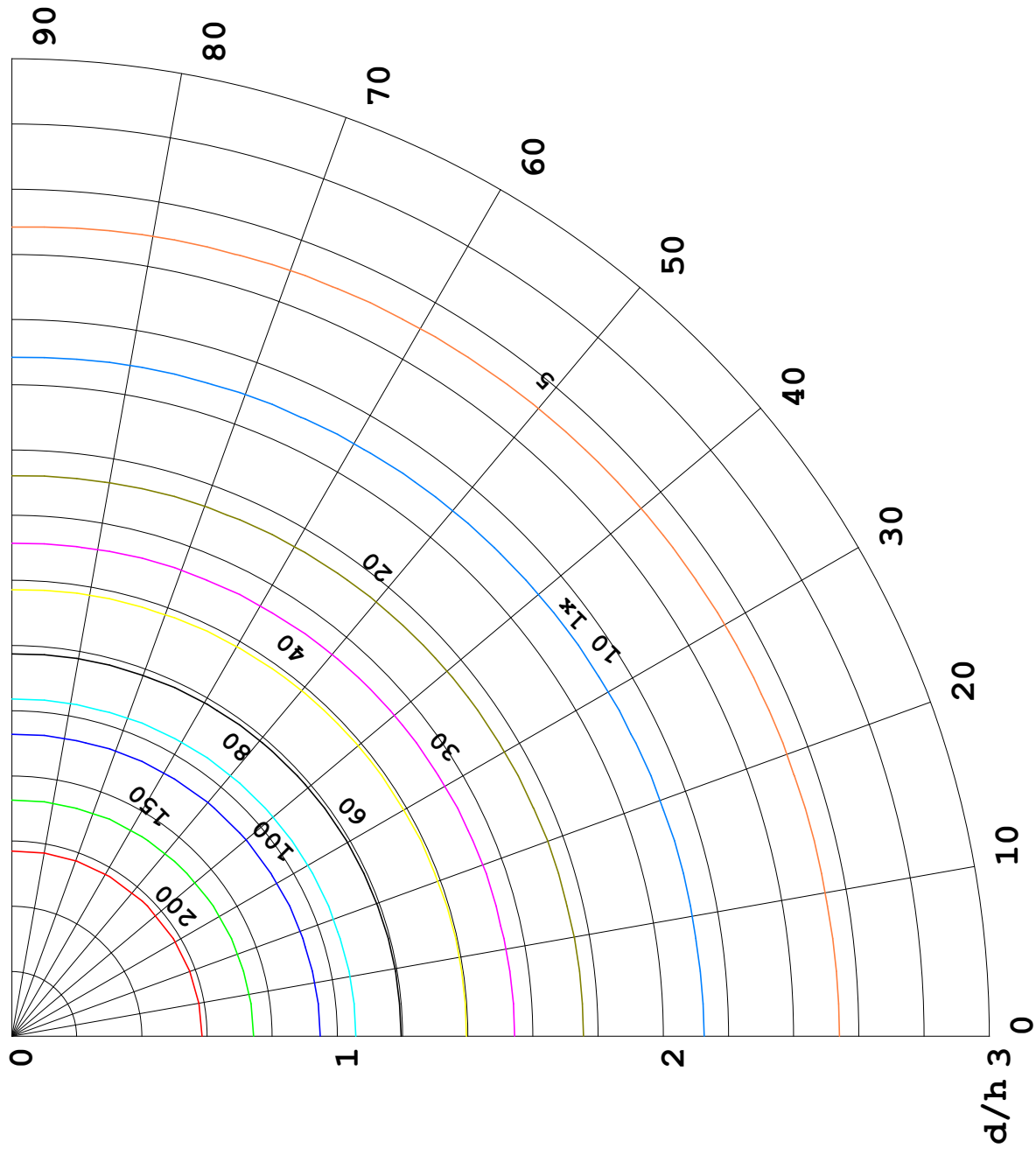
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.284
 Humidity: 65.0%
 Test Distance: 9.390m [K=1.0000]
 Remarks: 0-180°

I (cd)



$\kappa = 1$

1000 lm



F = 5000 lm
K = 0.7
Hcc = 0.0 m
Hfc = 0.0 m
Eave = 100 lx

Pcc
70
50

Pw
50
30

Pfc
30
20

