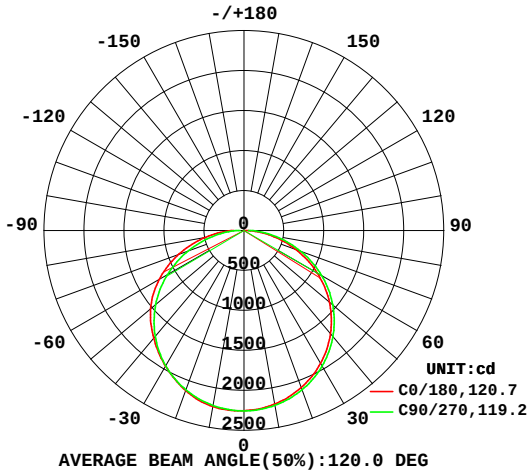
LUMINAIRE PHOTOMETRIC TEST REPORT

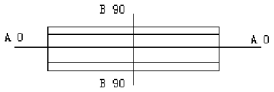
Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA		Eff: 128.61 lm/W	
MODEL		Imax(cd)	2256	S/MH(C0/180)	1.30
NOMINAL POWER(W)	60w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	7085.6	h UP,DN(C0-180)	0.0,48.7
NOMINAL FLUX(lm)	7085.6	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,51.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	h down(%)	100.0	CIBSE SHR MAX	1.50

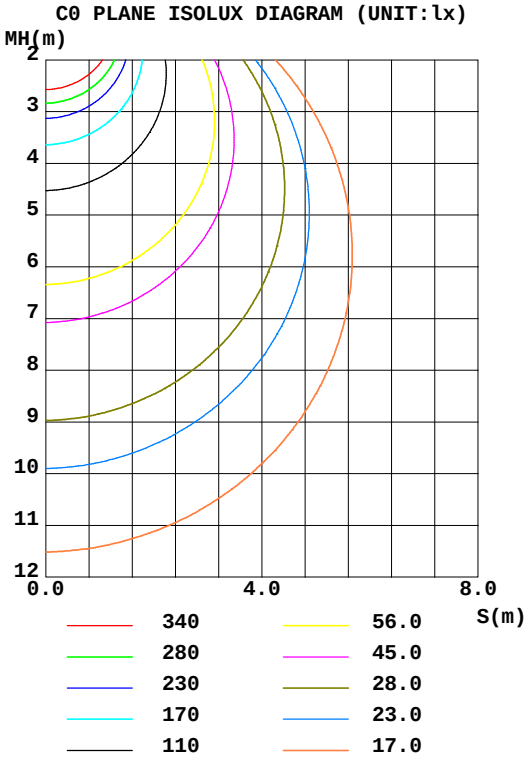
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):120.0 DEG



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

α Range: 0 - 90DEG
α Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

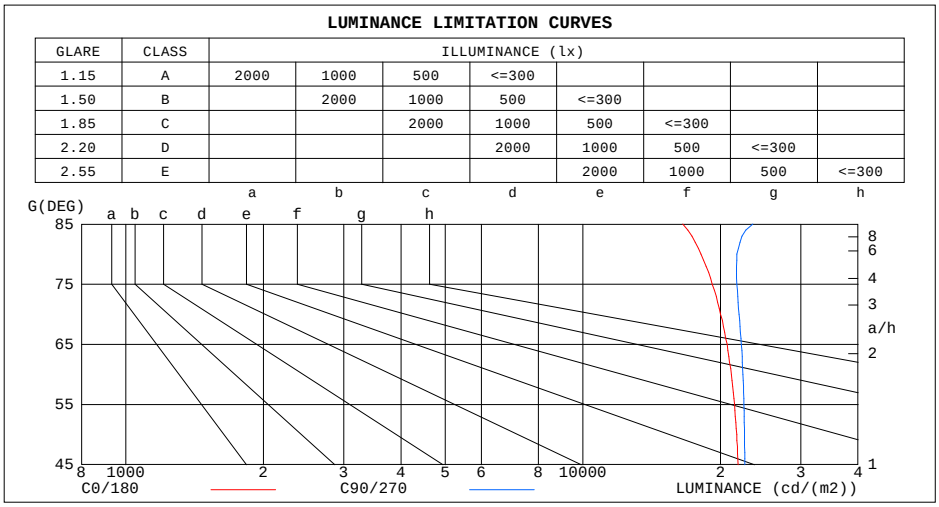
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	2205	2222	2238	2223					0- 10	213.7	213.7	3.02,3.02
20	2093	2120	2133	2122					10- 20	615.0	828.7	11.7,11.7
30	1917	1956	1962	1956					20- 30	940.5	1769	25,25
40	1684	1732	1757	1728					30- 40	1154	2923	41.3,41.3
50	1396	1452	1527	1442					40- 50	1231	4154	58.6,58.6
60	1056	1121	1225	1106					50- 60	1159	5313	75,75
70	684.8	751.7	864.8	735.9					60- 70	935.8	6249	88.2,88.2
80	314.9	377.5	484.0	365.2					70- 80	602.8	6851	96.7,96.7
90	4.371	56.42	127.6	48.15					80- 90	234.2	7086	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		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	16554	23533
80	18134	21739
75	19197	21716
70	20023	21978
65	20685	22234
60	21129	22419
55	21470	22526
50	21714	22592
45	21872	22606

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g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

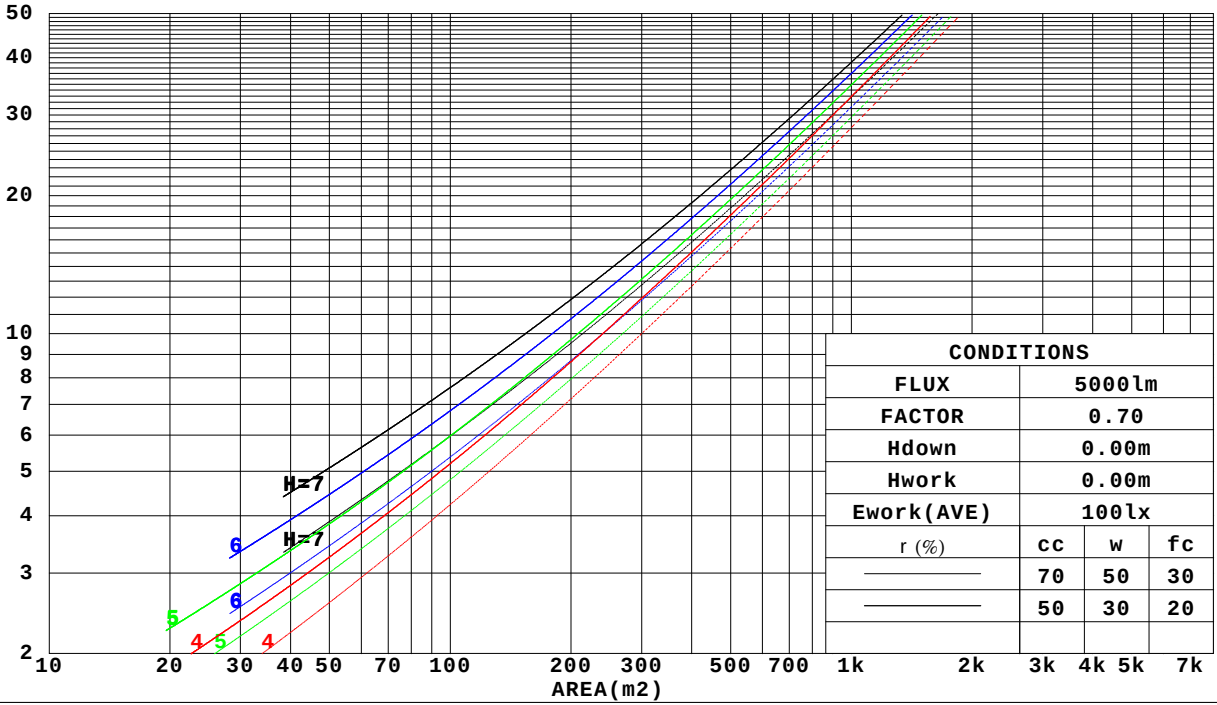
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	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			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	.98	.94	1.00	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.84	.82
2.0	.89	.81	.75	.87	.80	.74	.83	.77	.73	.80	.75	.71	.77	.73	.69	.67
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.50	.47
5.0	.61	.51	.45	.60	.51	.44	.57	.50	.44	.55	.49	.43	.54	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.49	.40	.34	.49	.40	.34	.47	.39	.34	.46	.39	.33	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.37	.30	.24	.36	.29	.24	.36	.29	.24	.35	.29	.24	.22

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	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 Coeffcients(WEC)									
0.0																
1.0	.336	.191	.060	.328	.187	.060	.315	.181	.058	.303	.175	.056	.291	.169	.054	
2.0	.309	.169	.052	.303	.167	.051	.291	.162	.050	.280	.157	.049	.270	.153	.048	
3.0	.283	.150	.045	.277	.148	.045	.267	.144	.044	.257	.141	.043	.248	.137	.042	
4.0	.259	.134	.040	.254	.133	.039	.245	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.238	.121	.035	.234	.120	.035	.225	.117	.035	.218	.115	.034	.210	.112	.034	
6.0	.220	.110	.032	.216	.109	.031	.208	.107	.031	.202	.105	.031	.195	.103	.031	
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.188	.096	.028	.182	.094	.028	
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.177	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.024	.160	.081	.023	
10.0	.167	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.151	.076	.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	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.175	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.072	.033	.086	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	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	23.5	25.0	23.7	25.2	25.4	23.7	25.2	23.9	25.4	25.7
	3H	25.1	26.6	25.4	26.8	27.0	25.4	26.9	25.7	27.1	27.3
	4H	25.8	27.2	26.1	27.4	27.7	26.2	27.6	26.5	27.8	28.1
	6H	26.3	27.6	26.6	27.9	28.2	26.8	28.1	27.1	28.4	28.7
	8H	26.5	27.8	26.8	28.0	28.3	27.0	28.3	27.4	28.6	28.9
	12H	26.6	27.8	27.0	28.1	28.4	27.2	28.5	27.6	28.8	29.1
4H	2H	24.1	25.5	24.5	25.8	26.1	24.3	25.7	24.6	25.9	26.2
	3H	26.0	27.2	26.3	27.5	27.8	26.2	27.5	26.6	27.8	28.1
	4H	26.8	27.9	27.2	28.2	28.6	27.1	28.2	27.5	28.6	28.9
	6H	27.5	28.5	27.9	28.8	29.2	27.9	28.9	28.3	29.3	29.6
	8H	27.7	28.6	28.1	29.0	29.4	28.2	29.2	28.6	29.5	29.9
	12H	27.9	28.7	28.3	29.1	29.5	28.5	29.4	28.9	29.7	30.1
8H	4H	27.1	28.1	27.6	28.4	28.8	27.4	28.4	27.8	28.7	29.1
	6H	28.0	28.8	28.4	29.2	29.6	28.4	29.2	28.8	29.6	30.0
	8H	28.3	29.0	28.8	29.5	29.9	28.8	29.5	29.3	29.9	30.4
	12H	28.6	29.2	29.1	29.7	30.1	29.2	29.8	29.7	30.3	30.7
12H	4H	27.2	28.0	27.6	28.4	28.8	27.5	28.3	27.9	28.7	29.1
	6H	28.1	28.8	28.5	29.2	29.7	28.5	29.2	28.9	29.6	30.0
	8H	28.5	29.1	29.0	29.5	30.0	28.9	29.6	29.4	30.0	30.5
Variations with the observer position at spacings:											
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, 7086 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.8)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	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	56	44	37	55	44	36	54	43	36	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	62	55	73	62	54	70	63	54	46
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	93	88	99	92	86	94	89	84	75
4.00	105	99	94	103	97	92	98	94	90	81
5.00	108	102	98	105	100	96	101	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
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SPEC.:60w 5700k	DIM.:	SERIAL No.:
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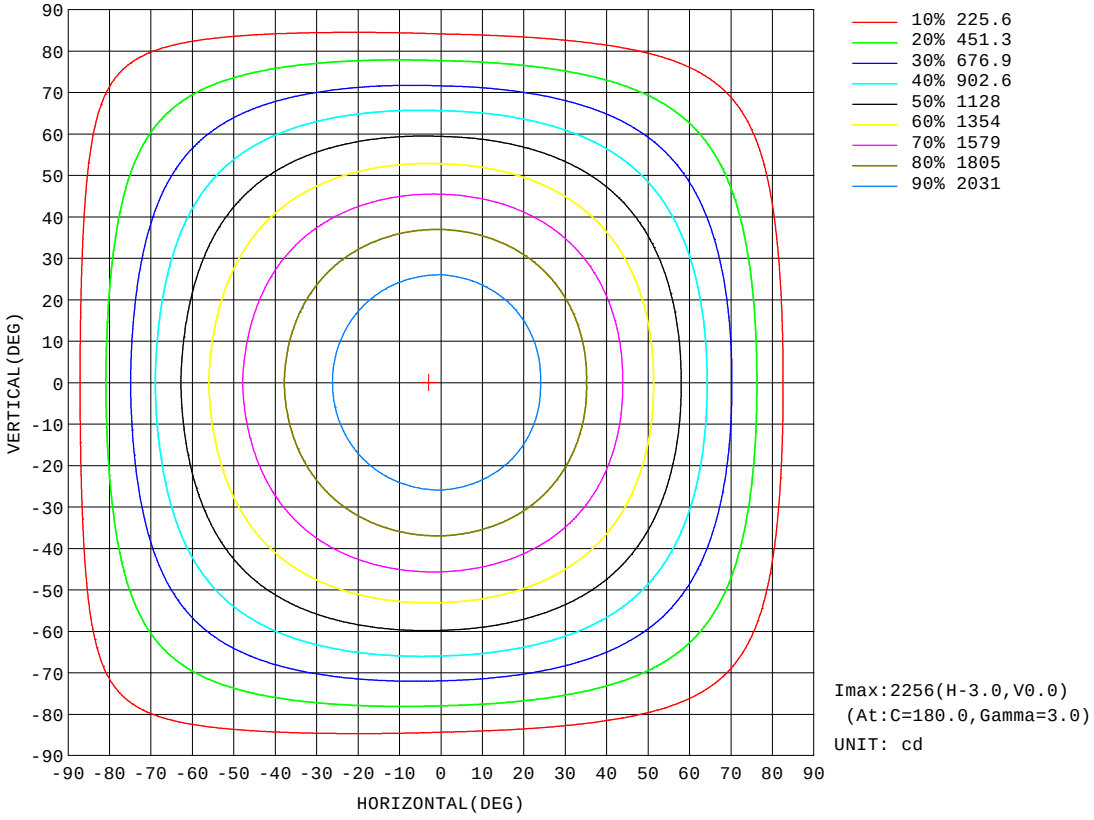

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
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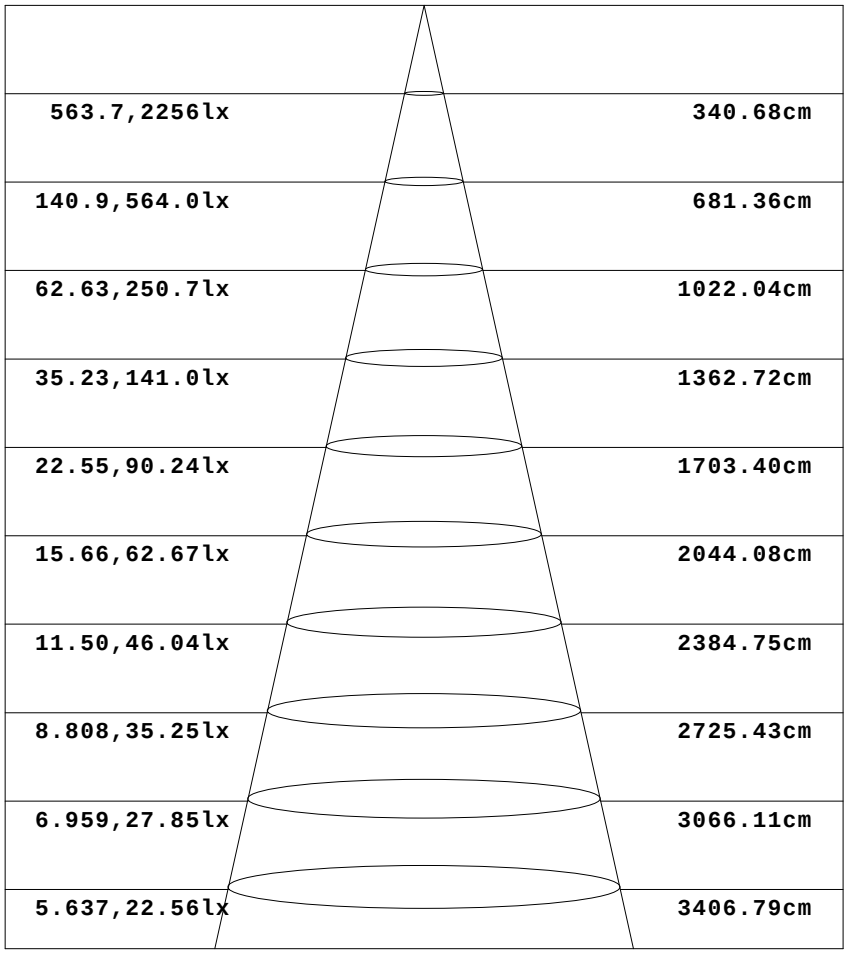
Flux out:5313 lm



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

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C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
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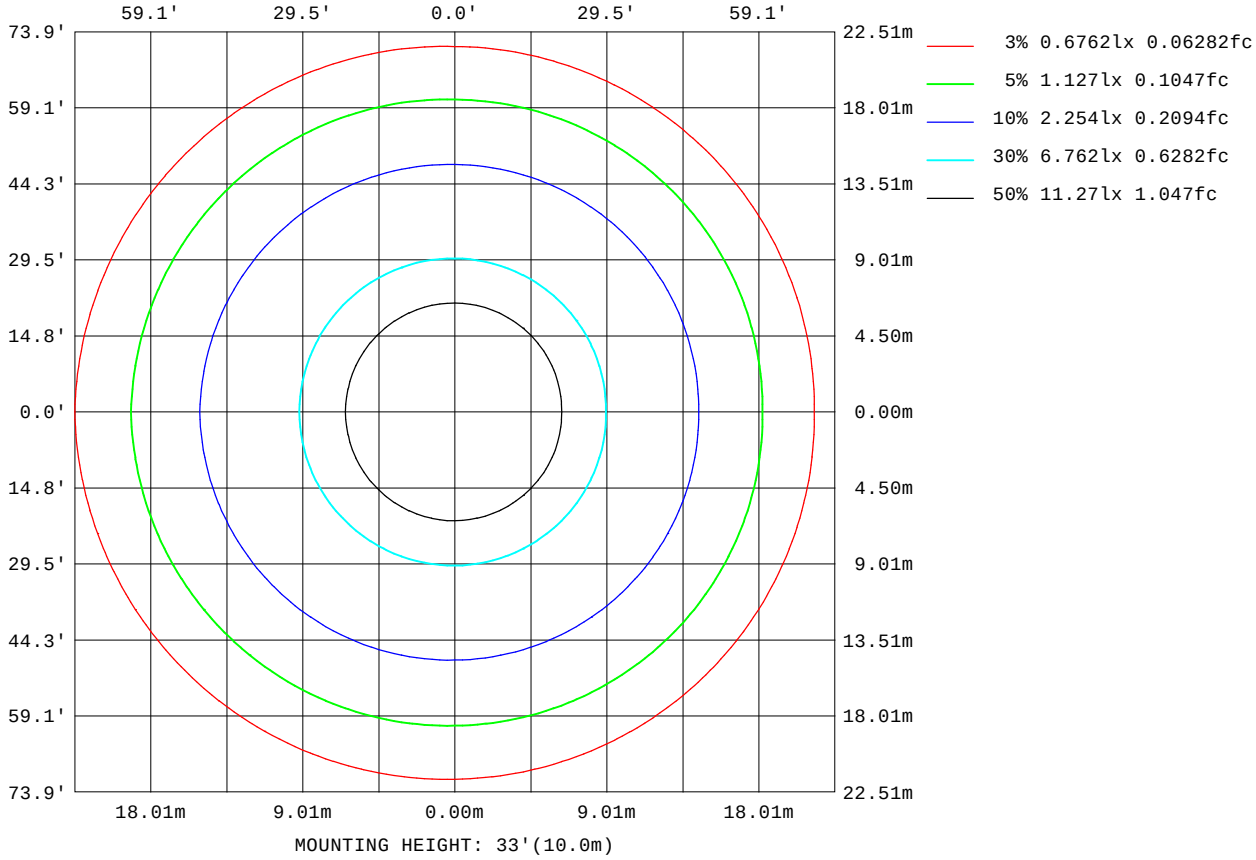

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Remarks:

LED Avg.L Report

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

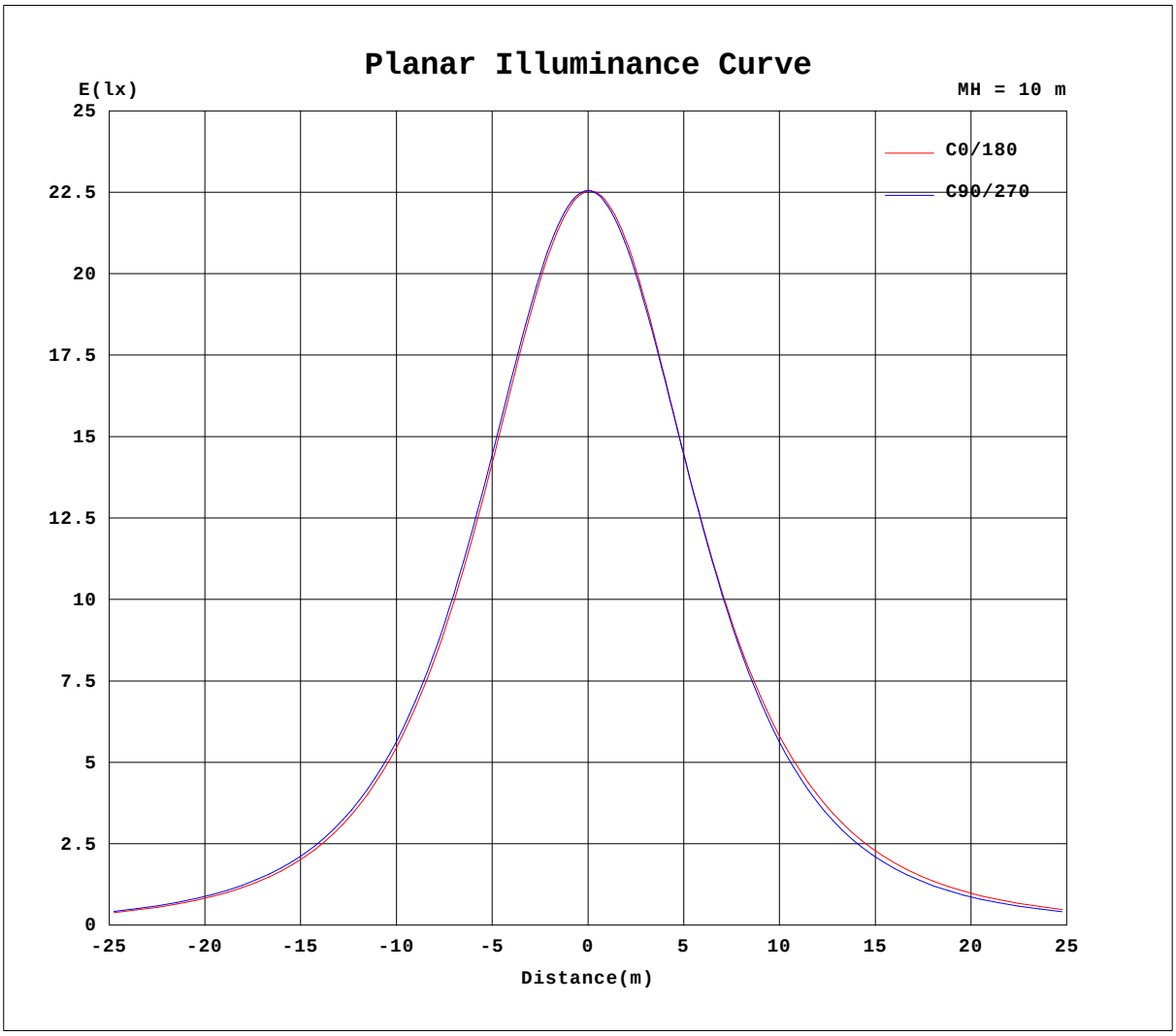
AvgL	cd/m2
L_0~180(65)av	22755
L_0~180(75)av	22616
L_0~180(85)av	25442
L_90~270(65)av	22041
L_90~270(75)av	21441
L_90~270(85)av	22999
L_45(65)av	22438
L_45(75)av	22095
L_45(85)av	24471

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.21V I:0.4598A P:55.094W PF:0.9967 Freq:59.98Hz Lamp Flux:7085.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:60w 5700k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1 UNIT: cd

g \ C	0	90	180	270															
0	2254	2256	2254	2256															
5	2239	2248	2255	2247															
10	2205	2222	2238	2223															
15	2157	2179	2196	2180															
20	2093	2120	2133	2122															
25	2013	2047	2052	2047															
30	1917	1956	1962	1956															
35	1808	1851	1862	1850															
40	1684	1732	1757	1728															
45	1547	1599	1647	1592															
50	1396	1452	1527	1442															
55	1231	1292	1385	1280															
60	1056	1121	1225	1106															
65	874	940	1049	923															
70	685	752	865	736															
75	497	562	674	548															
80	315	377	484	365															
85	144	205	299	196															
90	4.37	56.4	128	48.1															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

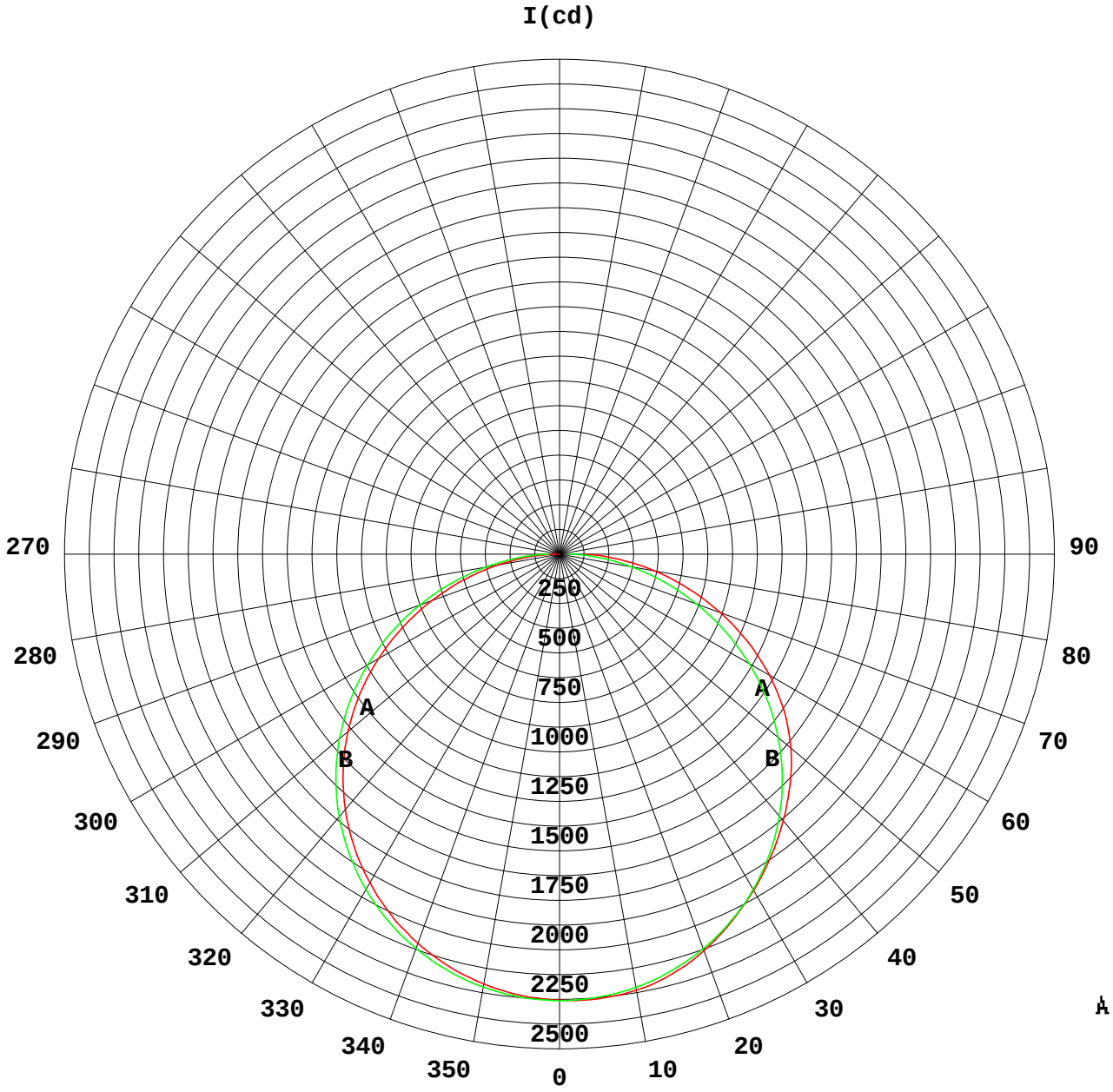
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

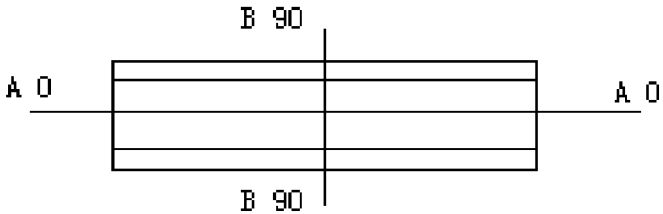
Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	2254	2256	2254	2256
3.0	2246	2253	2256	2253
6.0	2233	2244	2252	2244
9.0	2213	2228	2242	2229
12.0	2188	2208	2225	2207
15.0	2157	2179	2196	2180
18.0	2120	2146	2162	2147
21.0	2078	2107	2117	2108
24.0	2031	2063	2069	2065
27.0	1976	2012	2016	2012
30.0	1917	1956	1962	1956
33.0	1854	1895	1903	1895
36.0	1785	1830	1842	1826
39.0	1711	1758	1779	1753
42.0	1631	1681	1714	1675
45.0	1547	1599	1647	1592
48.0	1458	1512	1576	1503
51.0	1364	1420	1500	1411
54.0	1264	1325	1415	1313
57.0	1163	1225	1322	1211
60.0	1056	1121	1225	1106
63.0	947.9	1013	1121	996.5
66.0	835.6	901.9	1012	885.9
69.0	724.0	790.0	901.7	773.9
72.0	609.8	675.9	788.4	660.1
75.0	496.9	562.0	673.8	547.8
78.0	387.0	451.3	560.6	437.4
81.0	280.1	342.5	447.2	330.2
84.0	177.6	237.6	336.8	228.3
87.0	82.79	142.6	229.7	133.1
90.0	4.371	56.42	127.6	48.15

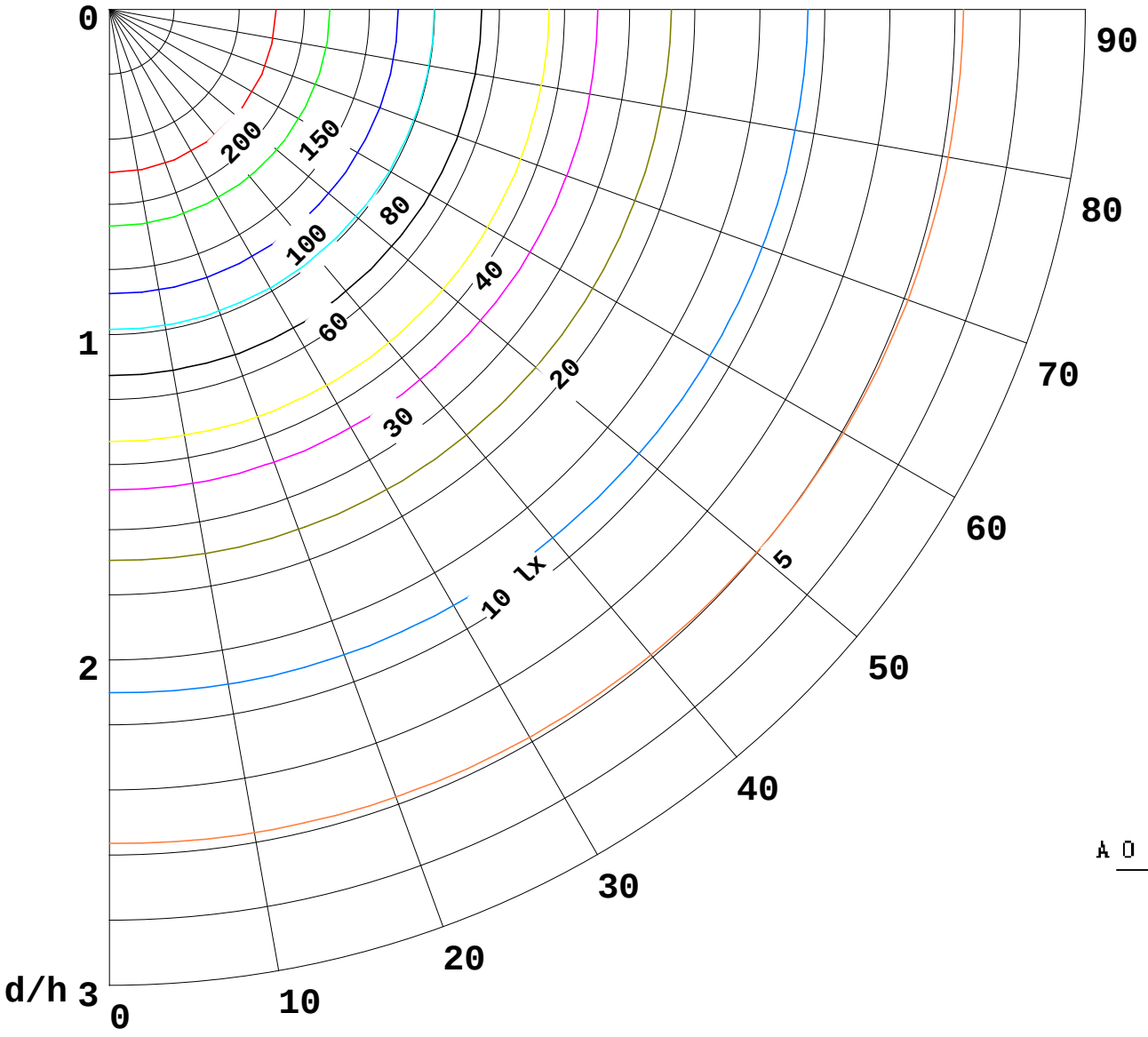
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

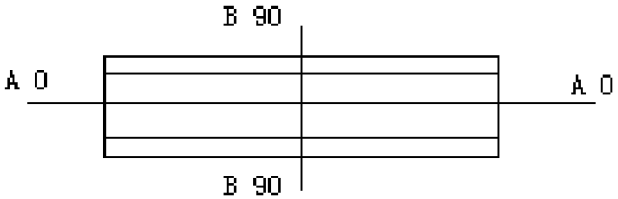
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

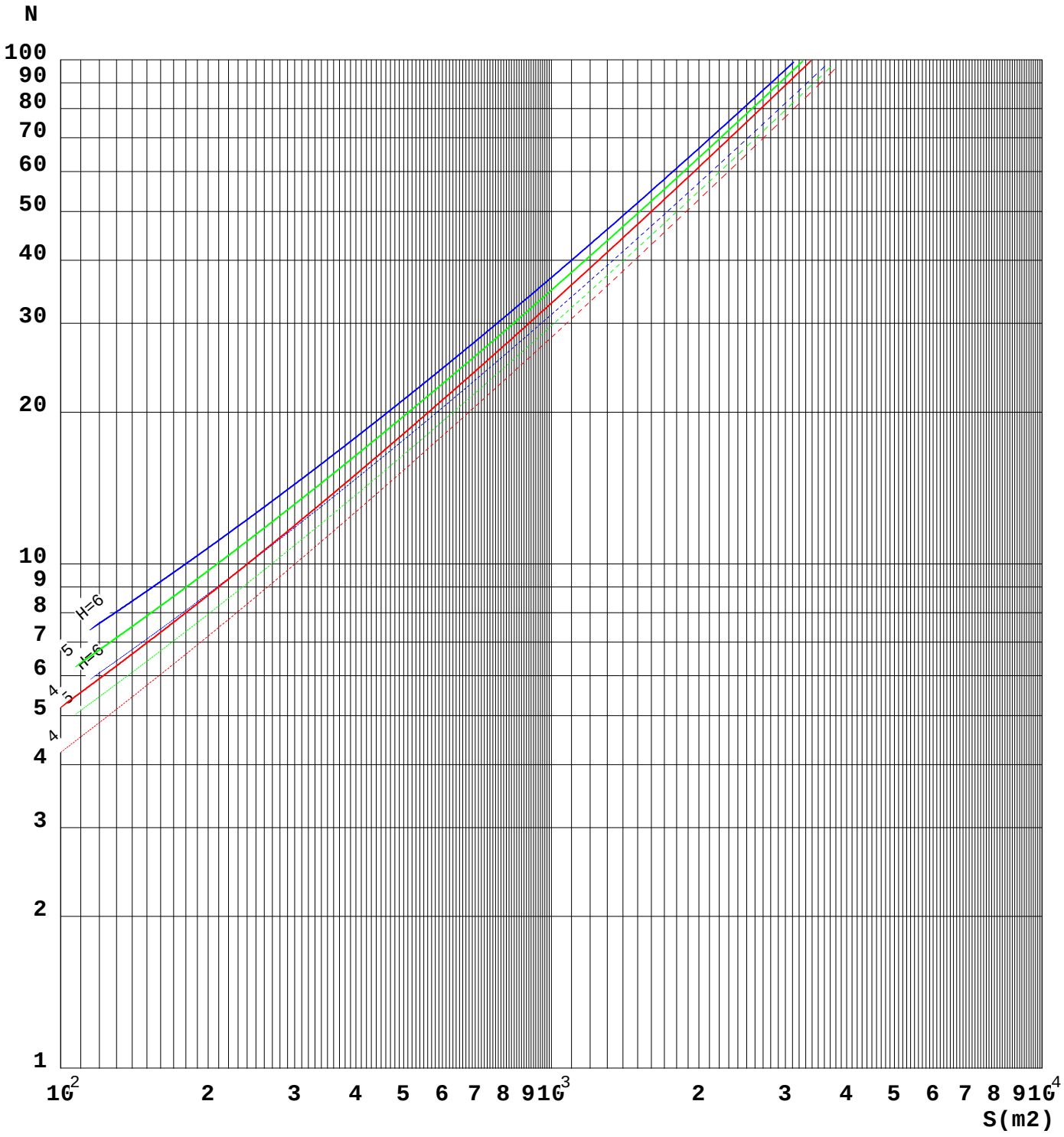

I(cd)
270
90
280
80
290
70
300
60
310
50
320
40
330
30
340
20
350
10
0
250
500
750
1000
1250
1500
1750
2000
2250
2500
A
B
A
B


B 90
A 0
A 0
B 90

1000 lm K = 1


0
1
2
3
d/h
0
10
20
30
40
50
60
70
80
90
200
150
100
80
60
40
30
20
10 lx
5


B 90
A 0
A 0
B 90

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

	Pcc	Pw	Pfc
———	70	50	30
———	50	30	20