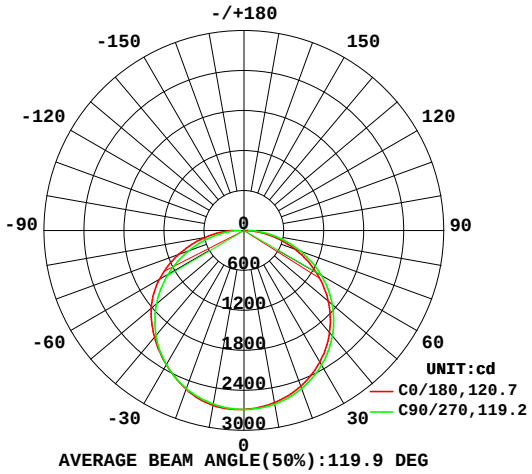
LUMINAIRE PHOTOMETRIC TEST REPORT

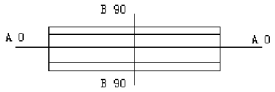
Test:U:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.73 lm/W			
MODEL		Imax(cd)	2687	S/MH(C0/180)	1.29
NOMINAL POWER(W)	72w	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	120-277v	TOTAL FLUX(lm)	8434.8	h UP,DN(C0-180)	0.0,48.6
NOMINAL FLUX(lm)	8434.82	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,51.4
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

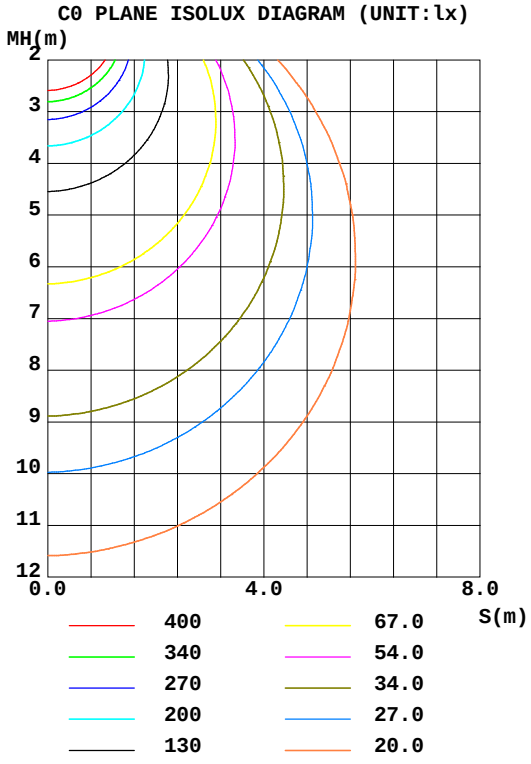
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):119.9 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:

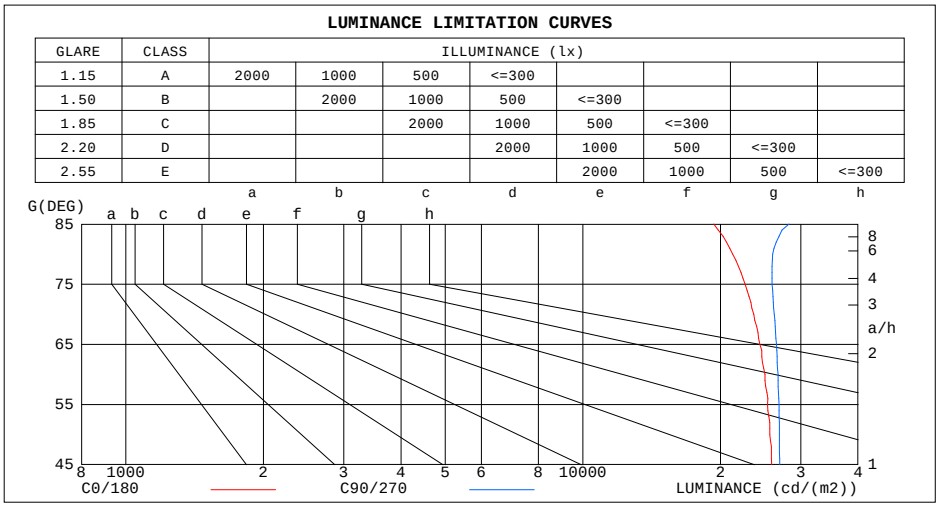
g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	2624	2647	2665	2645					0- 10	254.4	254.4	3.02,3.02
20	2488	2527	2535	2527					10- 20	732.2	986.6	11.7,11.7
30	2279	2332	2330	2329					20- 30	1119	2106	25,25
40	1998	2064	2090	2056					30- 40	1372	3478	41.2,41.2
50	1650	1731	1820	1717					40- 50	1464	4942	58.6,58.6
60	1253	1337	1468	1315					50- 60	1379	6321	74.9,74.9
70	809.6	897.5	1038	874.7					60- 70	1115	7436	88.2,88.2
80	369.7	451.9	583.9	433.4					70- 80	718.5	8155	96.7,96.7
90	4.921	69.15	157.4	56.75					80- 90	280.2	8435	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:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	19353	28274
80	21289	26027
75	22672	25936
70	23671	26240
65	24414	26542
60	25052	26749
55	25385	26873
50	25666	26934
45	25894	26956

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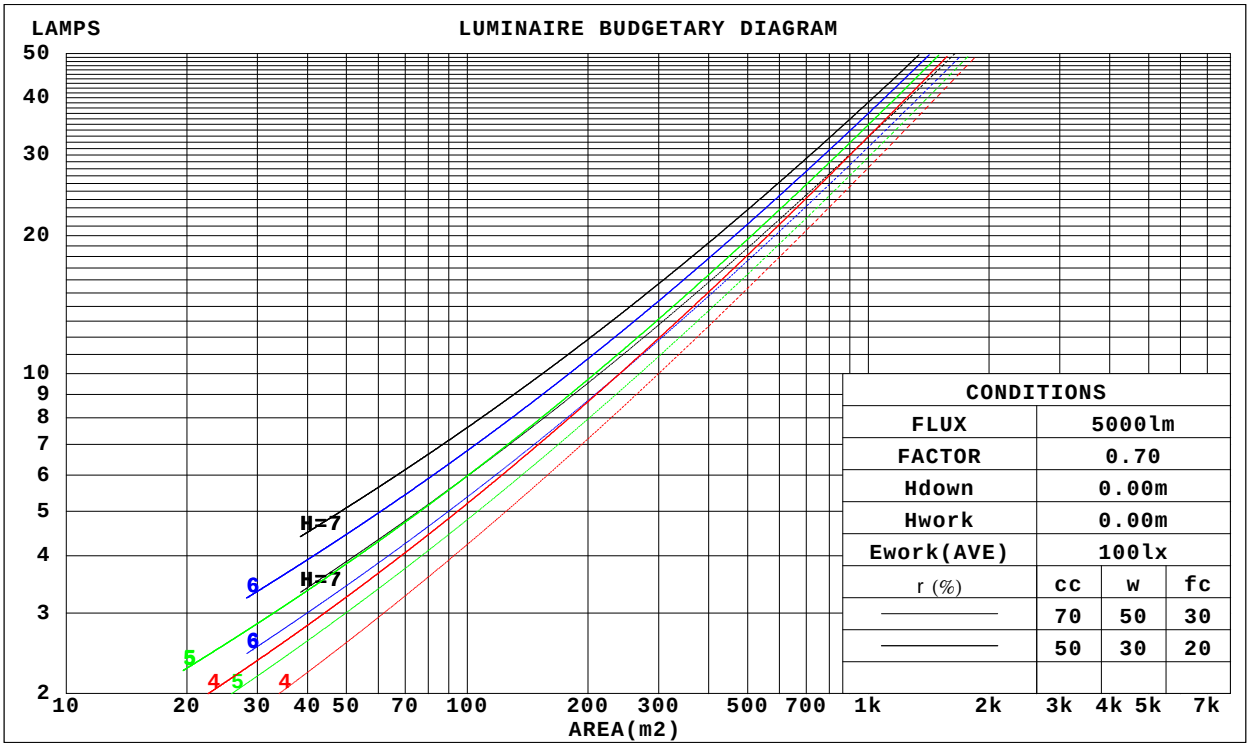
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	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	.49	.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	.38	.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



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C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:贏
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:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	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	.329	.187	.060	.315	.181	.058	.303	.175	.056	.292	.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	.135	.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	.178	.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	.150	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.072	.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:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	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	24.0	25.6	24.3	25.8	26.0	24.3	25.9	24.6	26.1	26.3
	3H	25.7	27.1	26.0	27.4	27.6	26.0	27.5	26.3	27.7	28.0
	4H	26.3	27.7	26.7	28.0	28.2	26.8	28.2	27.1	28.4	28.7
	6H	26.9	28.2	27.2	28.4	28.7	27.4	28.7	27.7	29.0	29.3
	8H	27.0	28.3	27.4	28.6	28.9	27.7	28.9	28.0	29.2	29.5
	12H	27.2	28.4	27.5	28.7	29.0	27.9	29.1	28.2	29.4	29.7
4H	2H	24.7	26.1	25.0	26.4	26.6	24.9	26.3	25.2	26.6	26.8
	3H	26.5	27.8	26.9	28.1	28.4	26.8	28.1	27.2	28.4	28.7
	4H	27.4	28.5	27.7	28.8	29.1	27.7	28.9	28.1	29.2	29.5
	6H	28.0	29.0	28.4	29.4	29.7	28.5	29.5	28.9	29.9	30.2
	8H	28.3	29.2	28.7	29.6	30.0	28.8	29.8	29.3	30.1	30.5
	12H	28.4	29.3	28.9	29.7	30.1	29.1	30.0	29.5	30.4	30.8
8H	4H	27.7	28.6	28.1	29.0	29.4	28.0	29.0	28.5	29.3	29.7
	6H	28.5	29.3	29.0	29.7	30.2	29.0	29.8	29.4	30.2	30.6
	8H	28.9	29.6	29.4	30.0	30.5	29.4	30.1	29.9	30.6	31.0
	12H	29.2	29.8	29.6	30.2	30.7	29.8	30.4	30.3	30.9	31.4
12H	4H	27.7	28.6	28.2	29.0	29.4	28.1	28.9	28.5	29.3	29.7
	6H	28.6	29.3	29.1	29.8	30.2	29.1	29.8	29.5	30.2	30.7
	8H	29.0	29.7	29.5	30.1	30.6	29.6	30.2	30.0	30.6	31.1
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, 8435 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 7.4)

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:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	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 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:

ISOCANDELA DIAGRAM

Test:U:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
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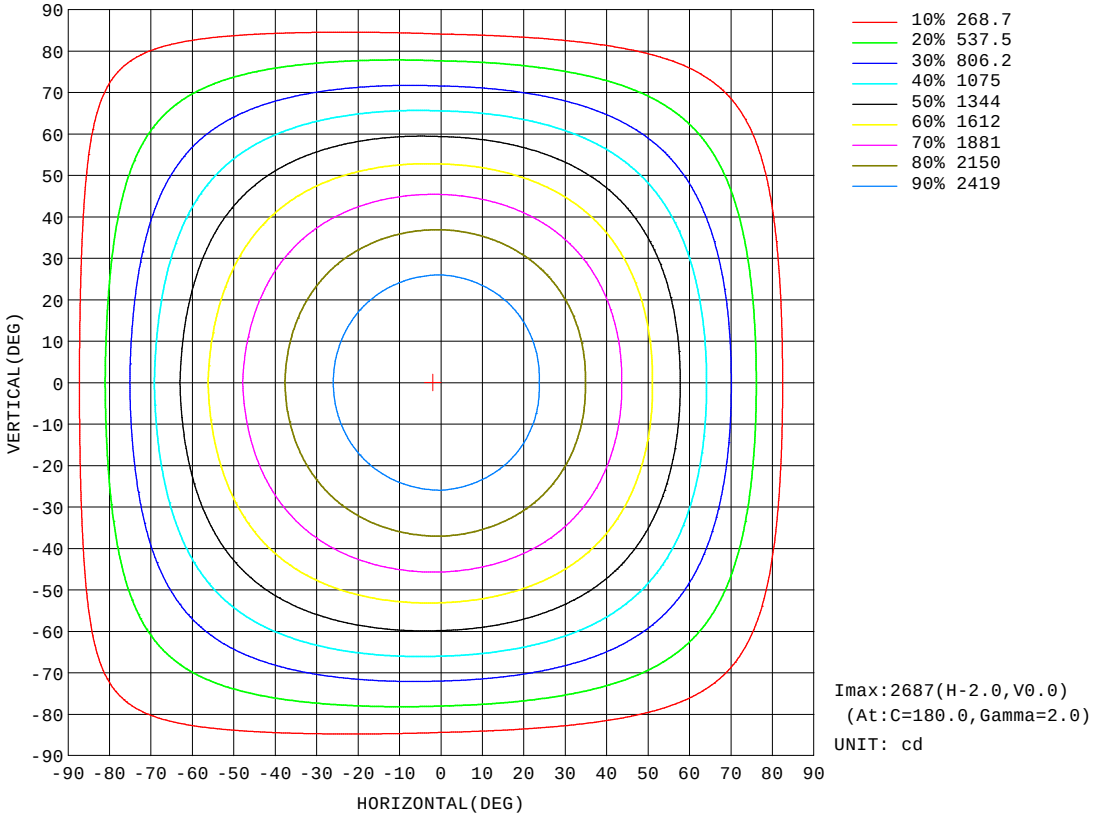
SPEC.:72w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



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

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SPEC.:72w 5000k	DIM.:	SERIAL No.:
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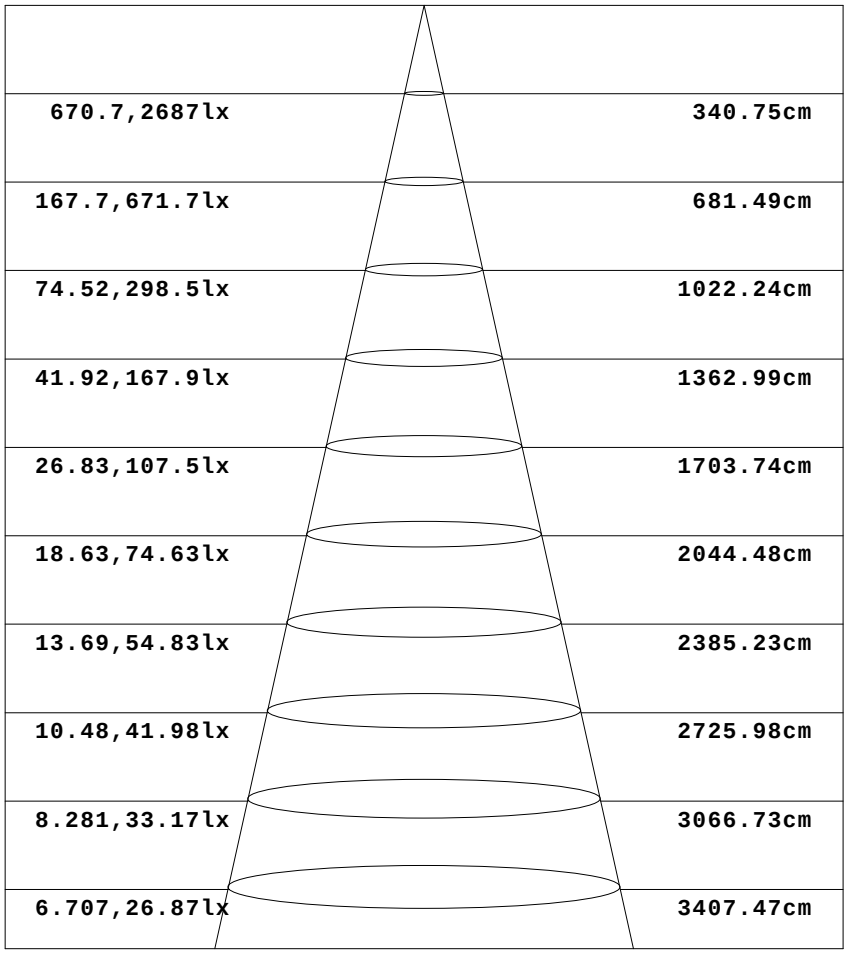
Flux out:6321 lm



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
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Test Date:2024-03-30

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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:

ISOLUX DIAGRAM

Test:U:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
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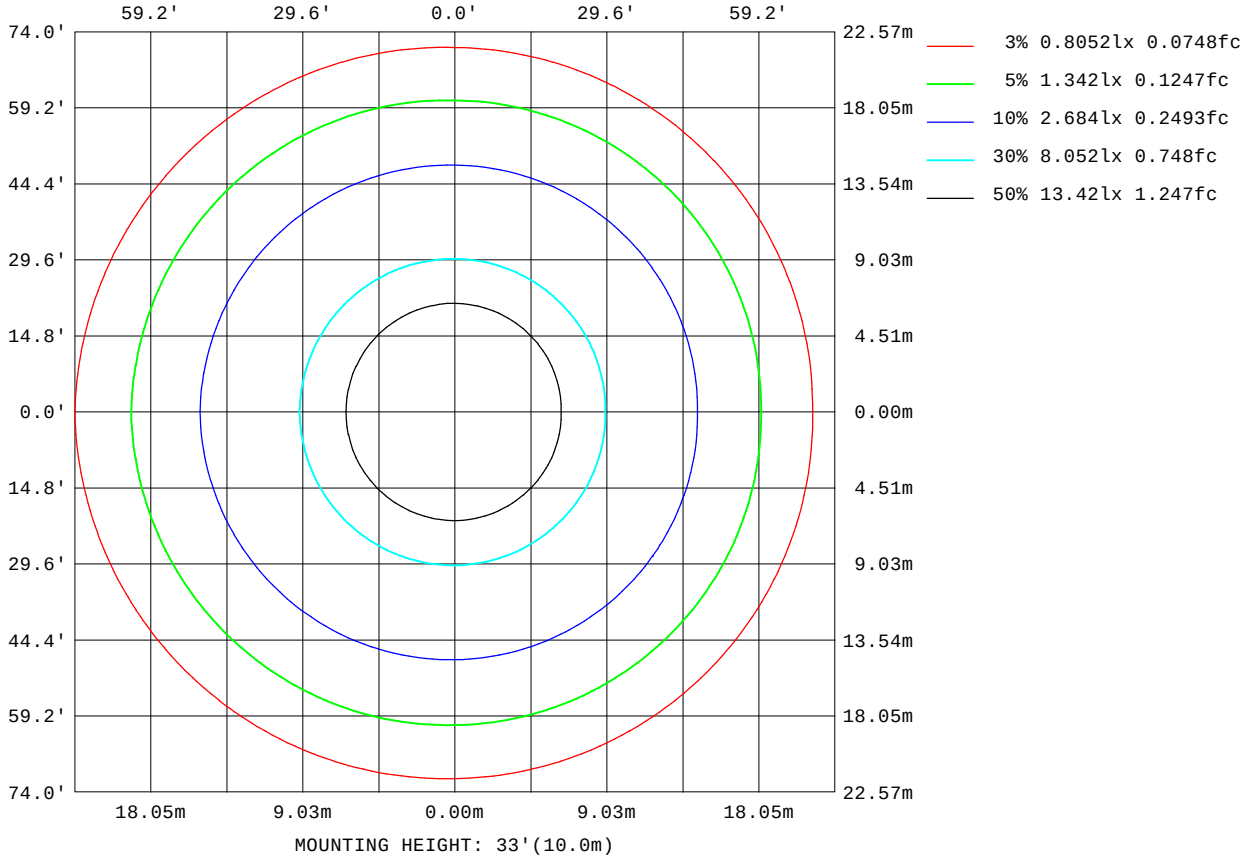
SPEC.:72w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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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:

LED Avg.L Report

Test:U:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

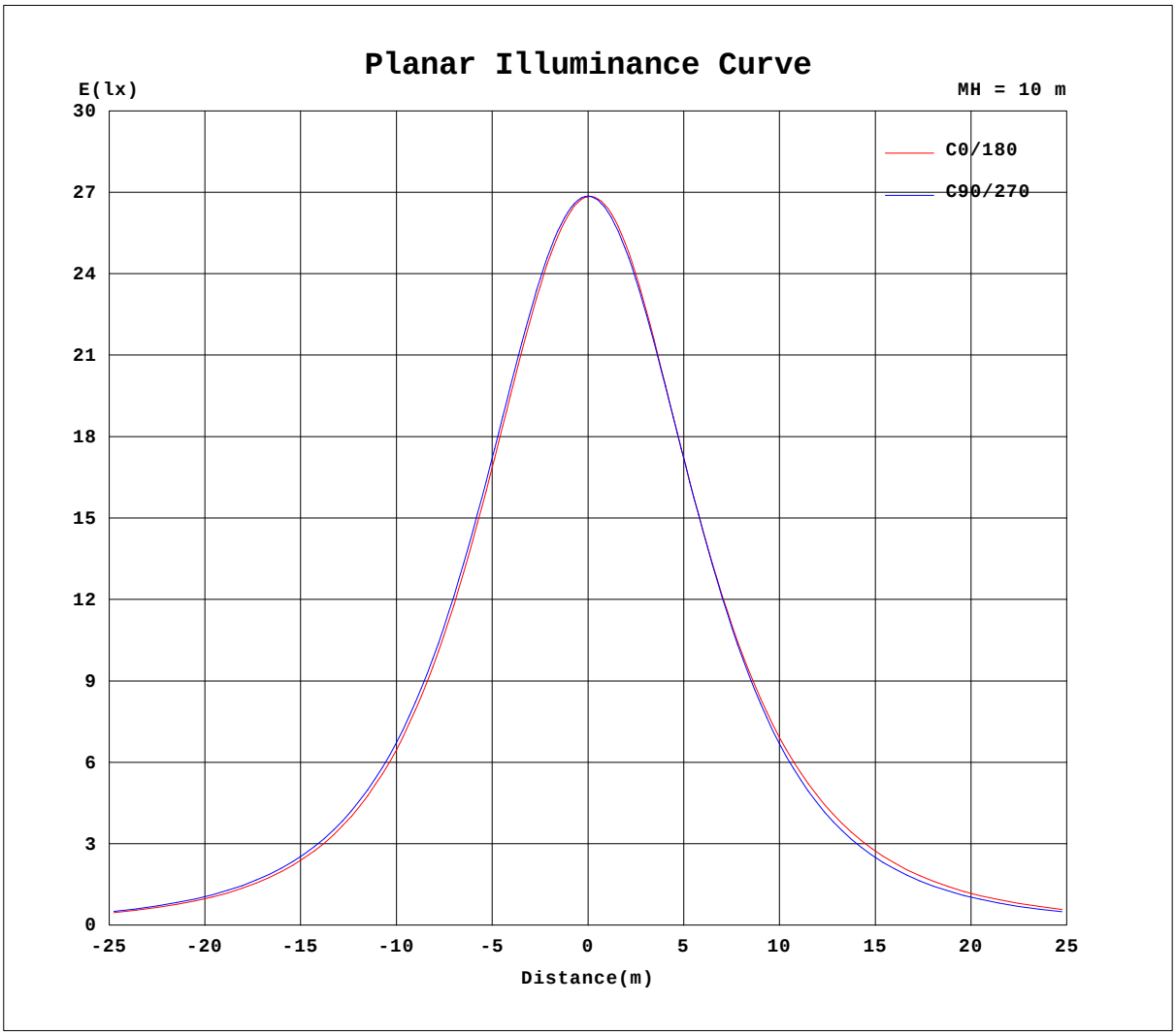
AvgL	cd/m2
L_0~180(65)av	27094
L_0~180(75)av	26992
L_0~180(85)av	30586
L_90~270(65)av	26258
L_90~270(75)av	25537
L_90~270(85)av	27467
L_45(65)av	26739
L_45(75)av	26353
L_45(85)av	29339

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:120.19V I:0.5466A P:65.522W PF:0.9974 Freq:59.98Hz Lamp Flux:8434.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 5000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1 UNIT: cd

g \ C	0	90	180	270
0	2684	2687	2684	2687
5	2664	2677	2686	2677
10	2624	2647	2665	2645
15	2566	2598	2615	2596
20	2488	2527	2535	2527
25	2392	2438	2439	2438
30	2279	2332	2330	2329
35	2145	2207	2214	2202
40	1998	2064	2090	2056
45	1831	1906	1959	1894
50	1650	1731	1820	1717
55	1456	1541	1655	1523
60	1253	1337	1468	1315
65	1032	1122	1258	1098
70	810	897	1038	875
75	587	671	810	651
80	370	452	584	433
85	169	246	364	232
90	4.92	69.1	157	56.7

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

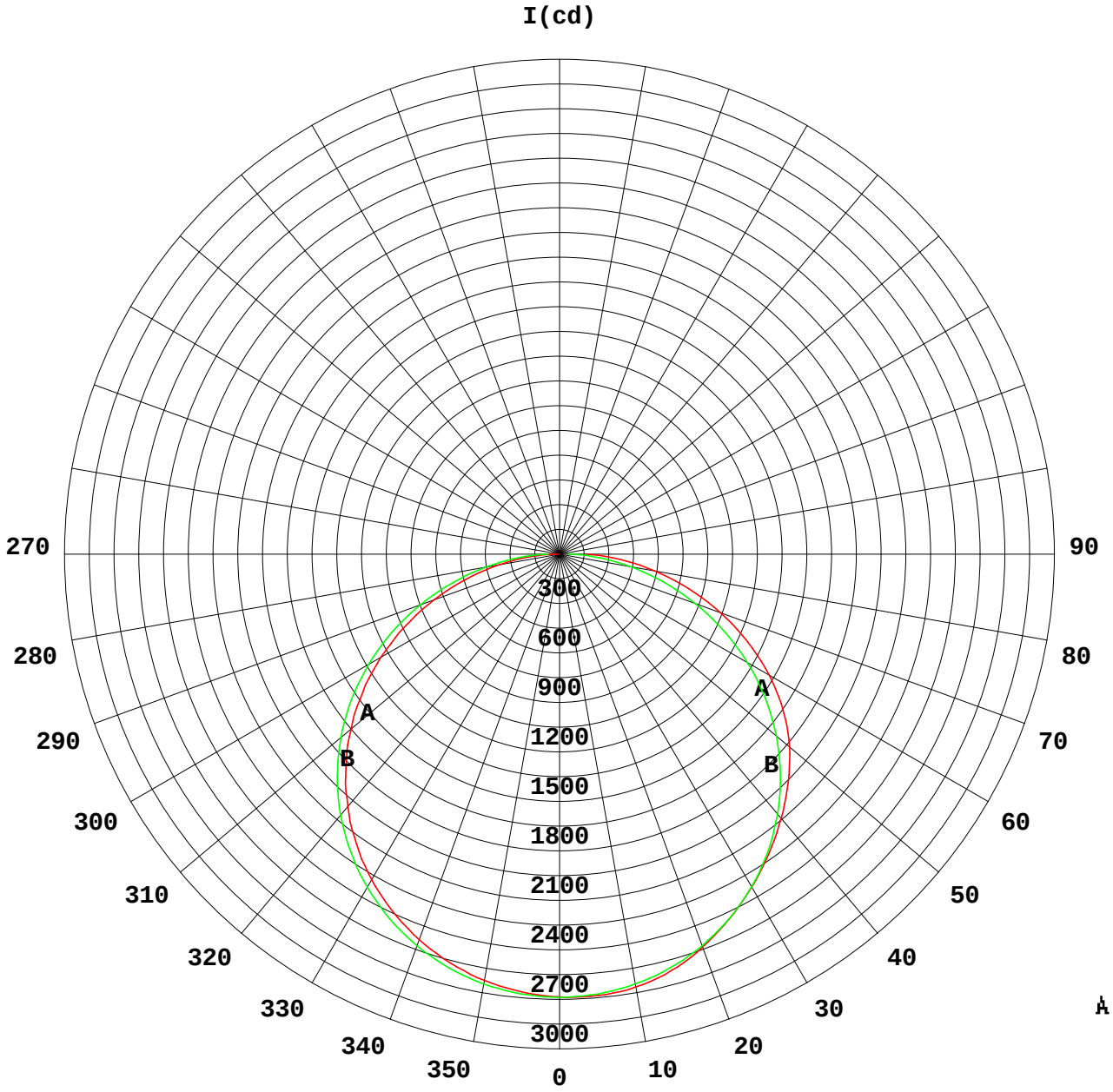
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

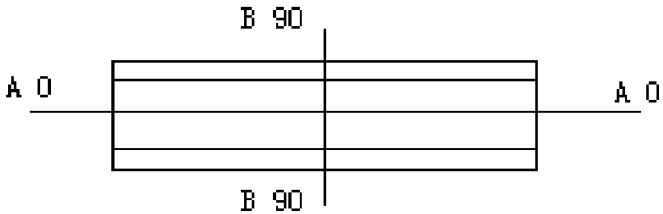
Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	2684	2687	2684	2687
3.0	2674	2682	2687	2683
6.0	2657	2671	2686	2671
9.0	2633	2654	2673	2654
12.0	2604	2628	2648	2628
15.0	2566	2598	2615	2596
18.0	2521	2557	2573	2557
21.0	2471	2511	2516	2509
24.0	2413	2457	2458	2456
27.0	2349	2397	2397	2396
30.0	2279	2332	2330	2329
33.0	2204	2259	2261	2254
36.0	2119	2181	2190	2174
39.0	2030	2094	2114	2086
42.0	1935	2004	2039	1993
45.0	1831	1906	1959	1894
48.0	1730	1802	1877	1788
51.0	1614	1694	1789	1678
54.0	1494	1580	1691	1562
57.0	1376	1460	1582	1440
60.0	1253	1337	1468	1315
63.0	1119	1208	1343	1186
66.0	986.2	1076	1214	1053
69.0	852.8	943.3	1083	919.7
72.0	720.8	807.2	948.0	784.7
75.0	586.8	671.3	810.4	650.7
78.0	455.4	539.7	675.0	519.5
81.0	328.3	409.9	539.6	392.3
84.0	206.9	285.1	407.9	270.7
87.0	95.16	172.1	279.7	159.2
90.0	4.921	69.15	157.4	56.75

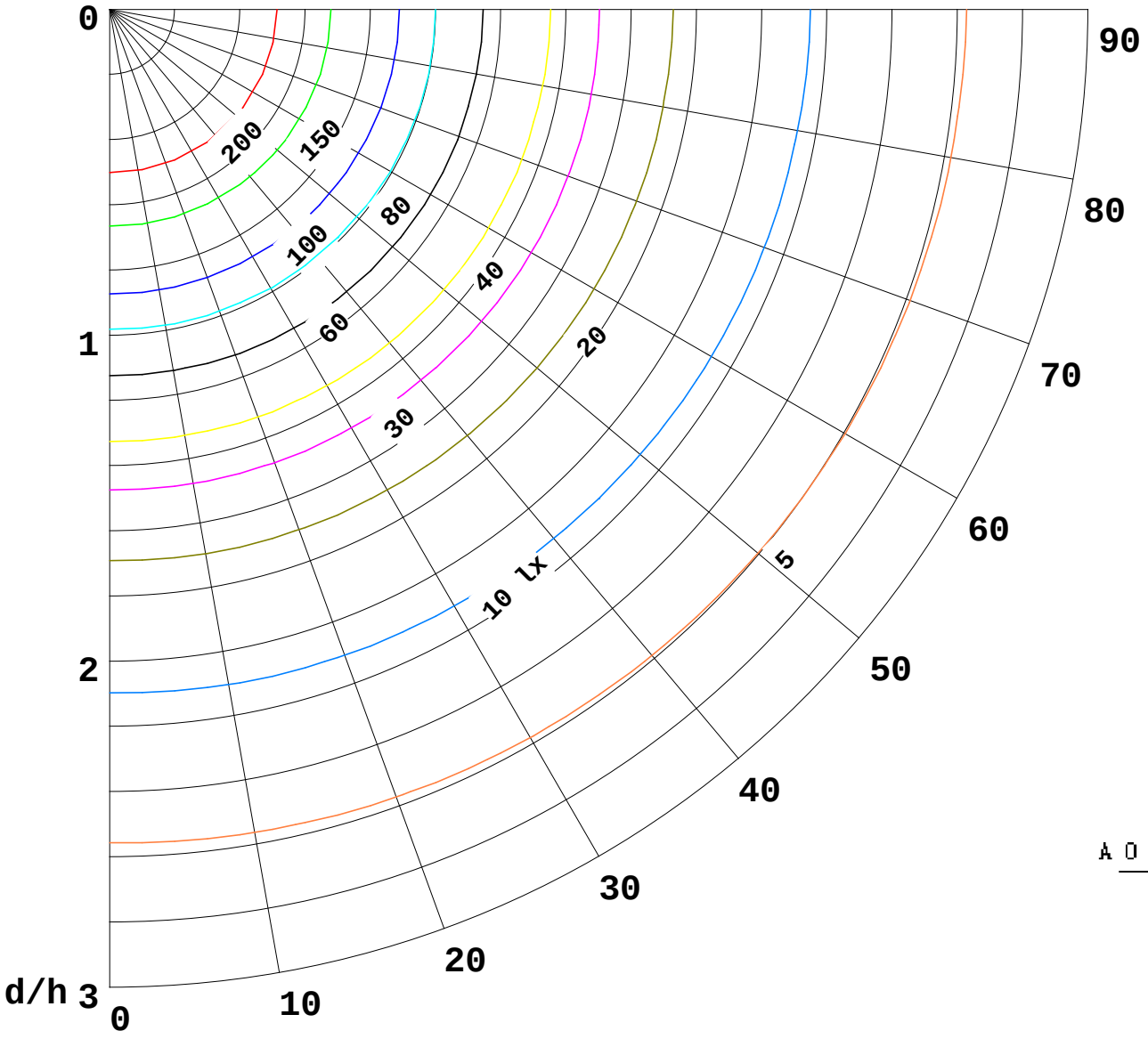
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

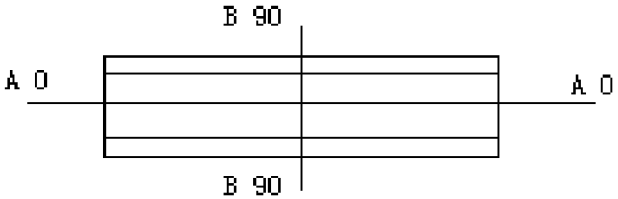
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

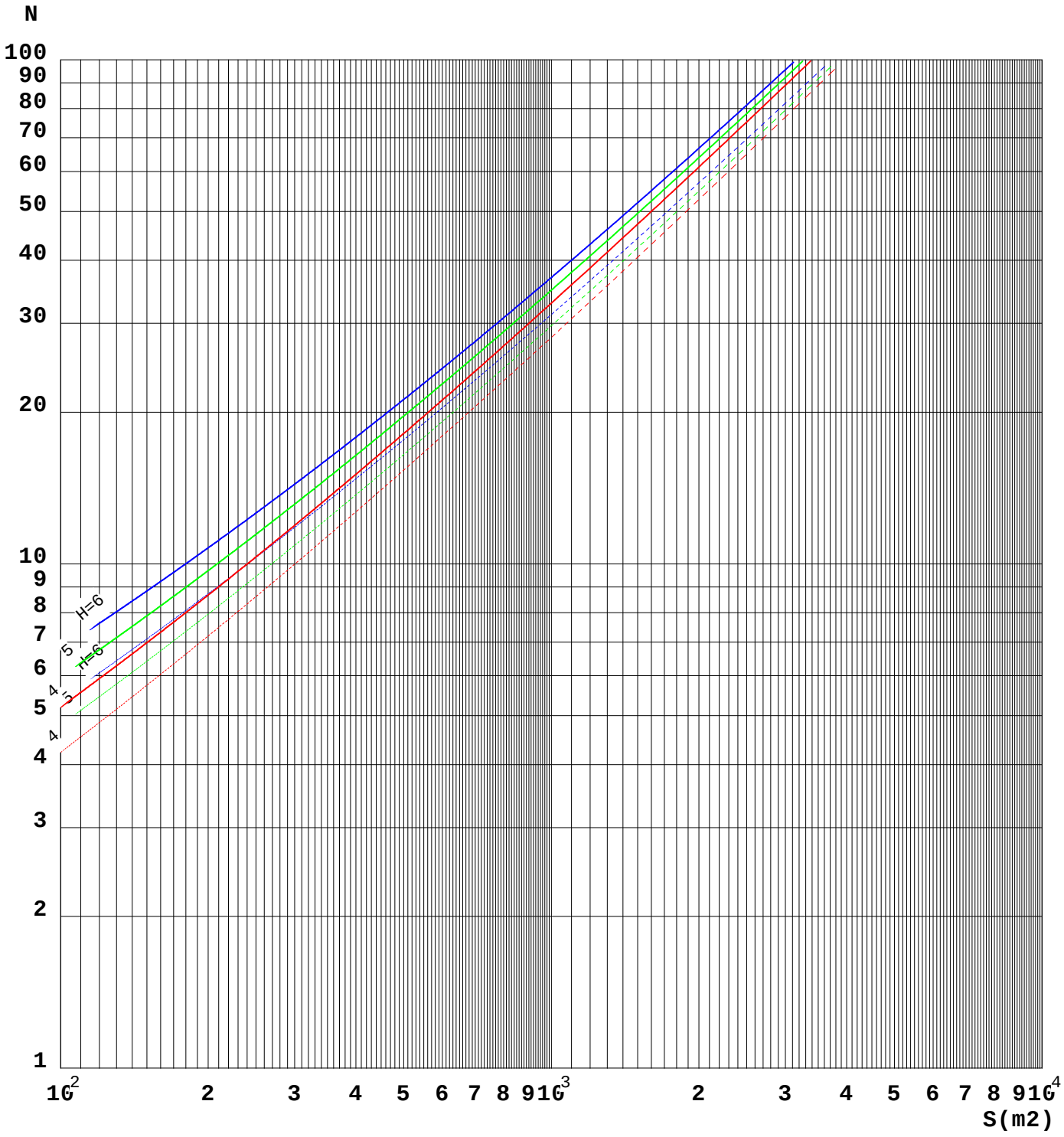

I(cd)
270
90
280
80
290
70
300
60
310
50
320
40
330
30
340
20
350
10
0
300
600
900
1200
1500
1800
2100
2400
2700
3000
A
B
A
B


B 90
A 0
A 0
B 90

1000 lm K = 1


0
90
80
70
60
50
40
30
20
10
0
1
2
3
d/h
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