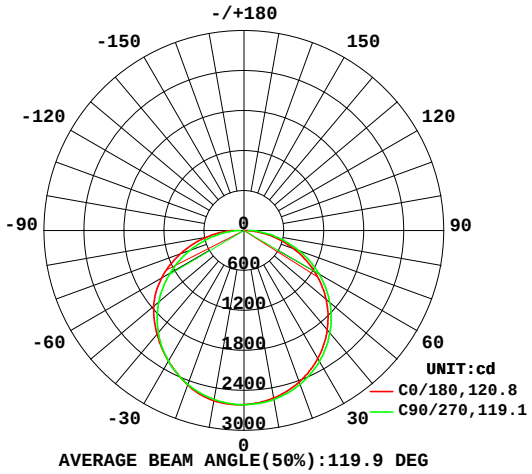
LUMINAIRE PHOTOMETRIC TEST REPORT

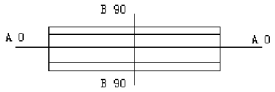
Test:U:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.44 lm/W			
MODEL		Imax(cd)	2617	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)	8208.2	h UP,DN(C0-180)	0.0,48.6
NOMINAL FLUX(lm)	8208.24	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

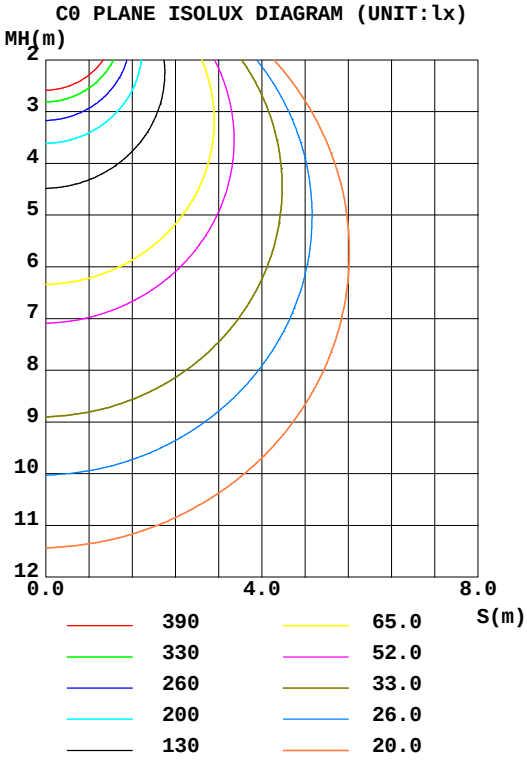
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



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	2554	2575	2596	2575					0- 10	247.7	247.7	3.02,3.02
20	2421	2458	2468	2459					10- 20	712.6	960.2	11.7,11.7
30	2217	2267	2267	2266					20- 30	1089	2049	25,25
40	1946	2007	2031	2002					30- 40	1335	3384	41.2,41.2
50	1611	1683	1772	1670					40- 50	1425	4809	58.6,58.6
60	1218	1300	1429	1280					50- 60	1342	6151	74.9,74.9
70	787.7	871.6	1010	851.4					60- 70	1085	7236	88.2,88.2
80	361.2	438.8	567.1	422.4					70- 80	699.3	7936	96.7,96.7
90	4.800	66.88	151.6	55.66					80- 90	272.7	8208	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

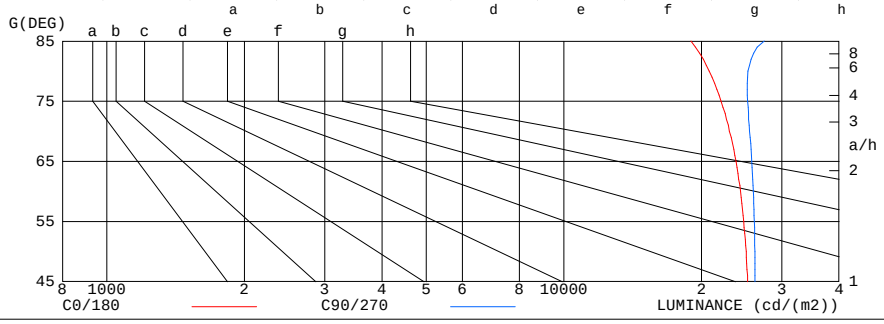
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	**TYPE:**	**WEIGHT:**
SPEC.:72w 4000k	**DIM.:**	**SERIAL No.:**
MFR.:	**SUR.:**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	18979	27434
80	20802	25268
75	22075	25226
70	23031	25485
65	23809	25793
60	24353	25991
55	24767	26111
50	25066	26180
45	25253	26194

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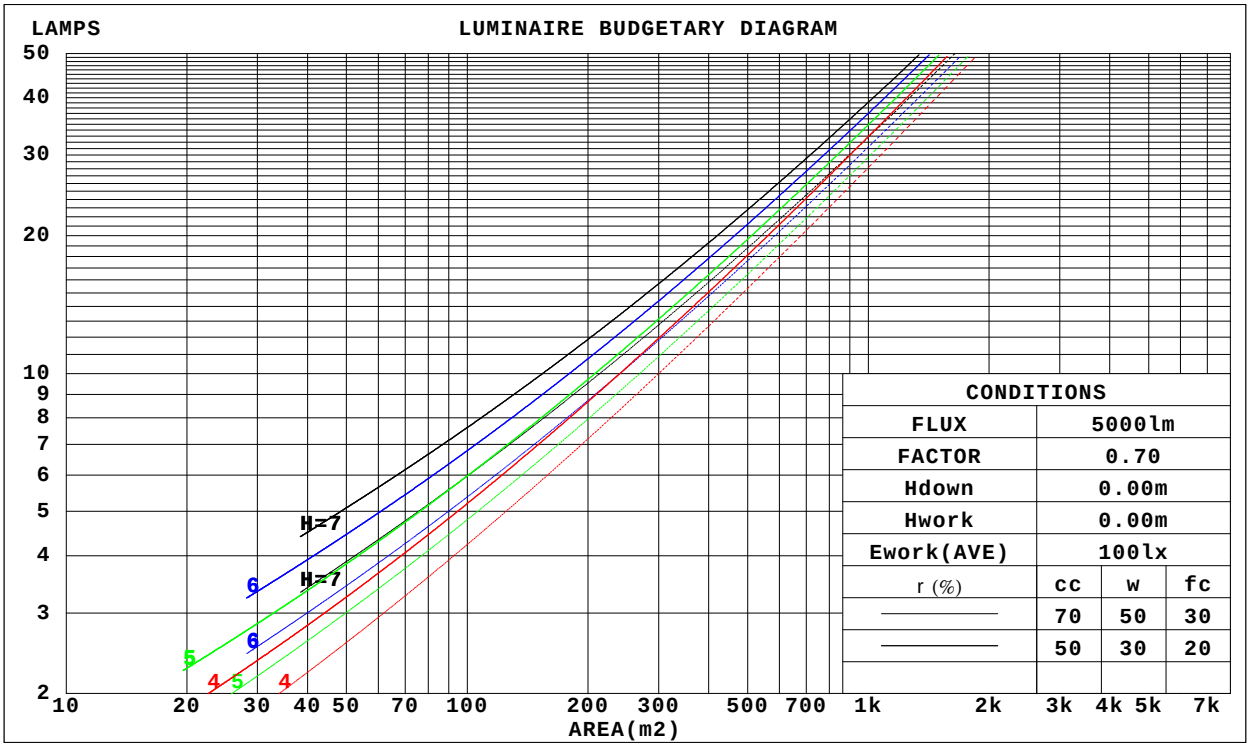
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	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



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:

WEC AND CCEC

Test:U:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	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	.145	.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:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	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	23.9	25.5	24.2	25.7	25.9	24.2	25.8	24.5	26.0	26.2
	3H	25.6	27.0	25.9	27.3	27.5	25.9	27.4	26.2	27.6	27.9
	4H	26.3	27.6	26.6	27.9	28.2	26.7	28.1	27.0	28.3	28.6
	6H	26.8	28.1	27.1	28.4	28.6	27.3	28.6	27.6	28.9	29.2
	8H	27.0	28.2	27.3	28.5	28.8	27.6	28.8	27.9	29.1	29.4
	12H	27.1	28.3	27.4	28.6	28.9	27.8	29.0	28.1	29.3	29.6
4H	2H	24.6	26.0	25.0	26.3	26.5	24.8	26.2	25.1	26.5	26.7
	3H	26.5	27.7	26.8	28.0	28.3	26.7	28.0	27.1	28.3	28.6
	4H	27.3	28.4	27.6	28.7	29.1	27.6	28.8	28.0	29.1	29.4
	6H	27.9	28.9	28.3	29.3	29.7	28.4	29.4	28.8	29.8	30.1
	8H	28.2	29.1	28.6	29.5	29.9	28.7	29.7	29.2	30.0	30.4
	12H	28.3	29.2	28.8	29.6	30.0	29.0	29.9	29.4	30.3	30.7
8H	4H	27.6	28.6	28.0	28.9	29.3	27.9	28.9	28.4	29.2	29.6
	6H	28.5	29.2	28.9	29.7	30.1	28.9	29.7	29.3	30.1	30.5
	8H	28.8	29.5	29.3	29.9	30.4	29.3	30.0	29.8	30.5	30.9
	12H	29.1	29.7	29.6	30.1	30.6	29.7	30.3	30.2	30.8	31.3
12H	4H	27.7	28.5	28.1	28.9	29.3	28.0	28.8	28.4	29.2	29.6
	6H	28.6	29.3	29.0	29.7	30.1	29.0	29.7	29.4	30.1	30.6
	8H	29.0	29.6	29.4	30.0	30.5	29.5	30.1	29.9	30.5	31.0
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, 8208 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 7.3)

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:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	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:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
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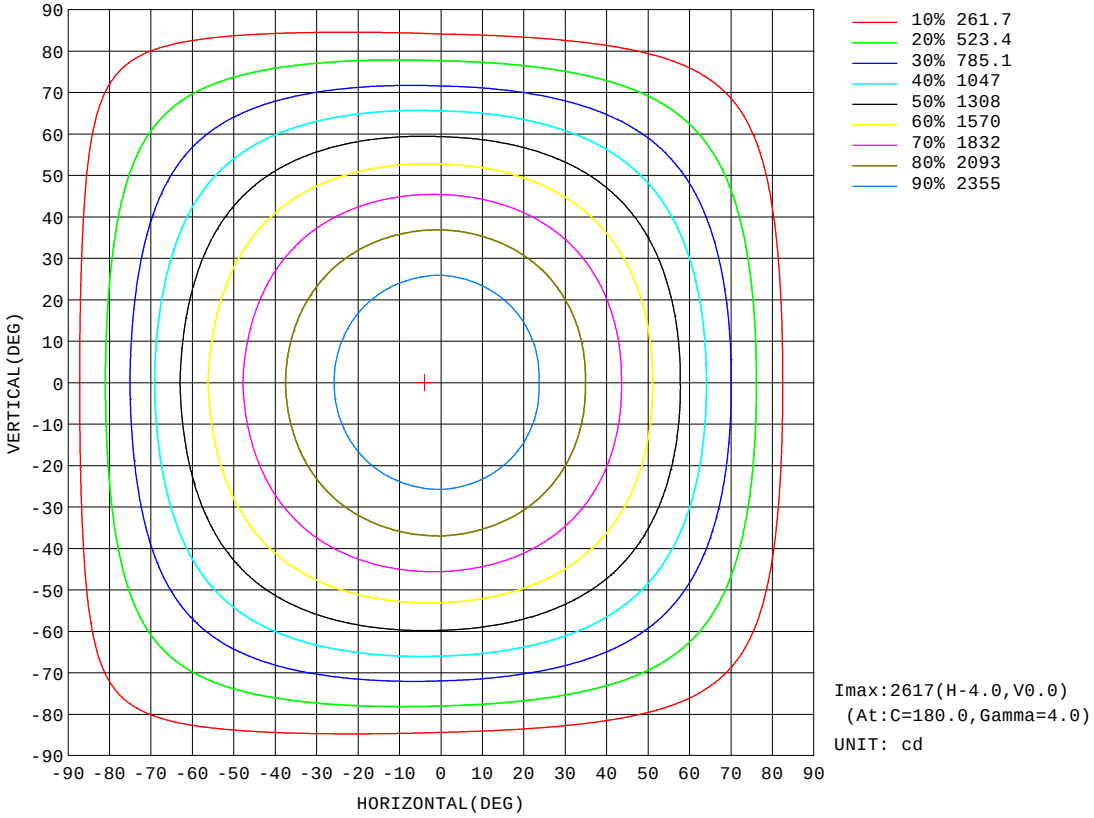

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

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:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	DIM.:	SERIAL No.:
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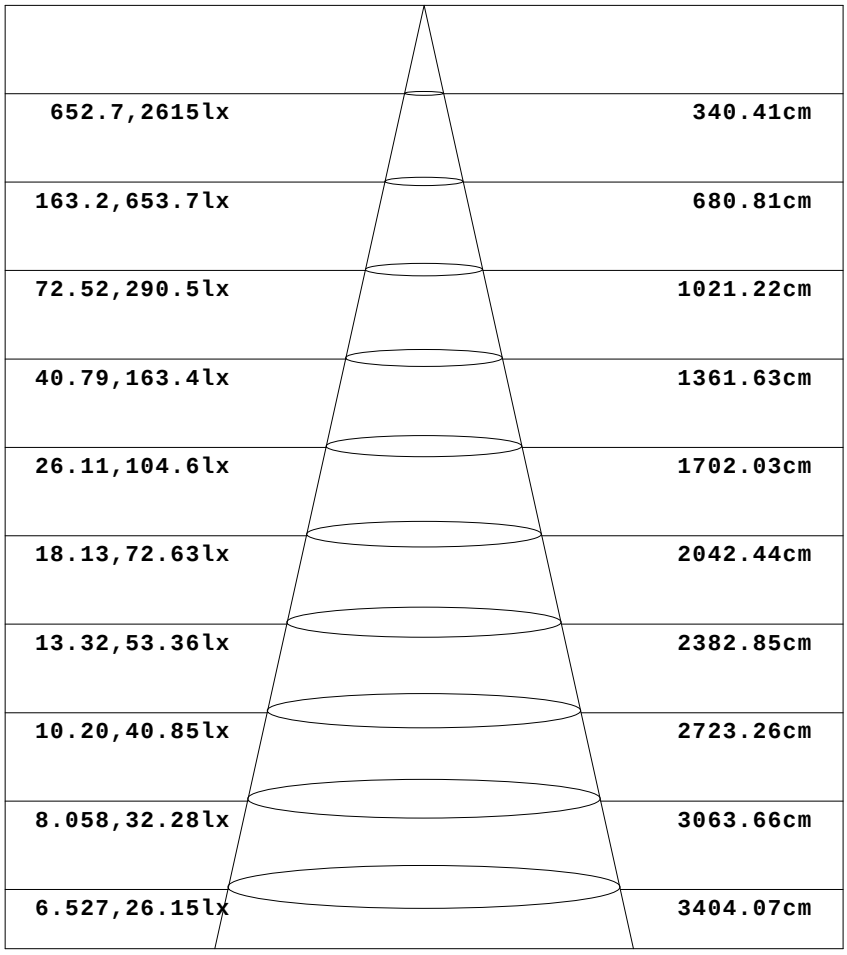
Flux out:6151 lm



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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g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
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ISOLUX DIAGRAM

Test:U:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
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SPEC.:72w 4000k	DIM.:	SERIAL No.:
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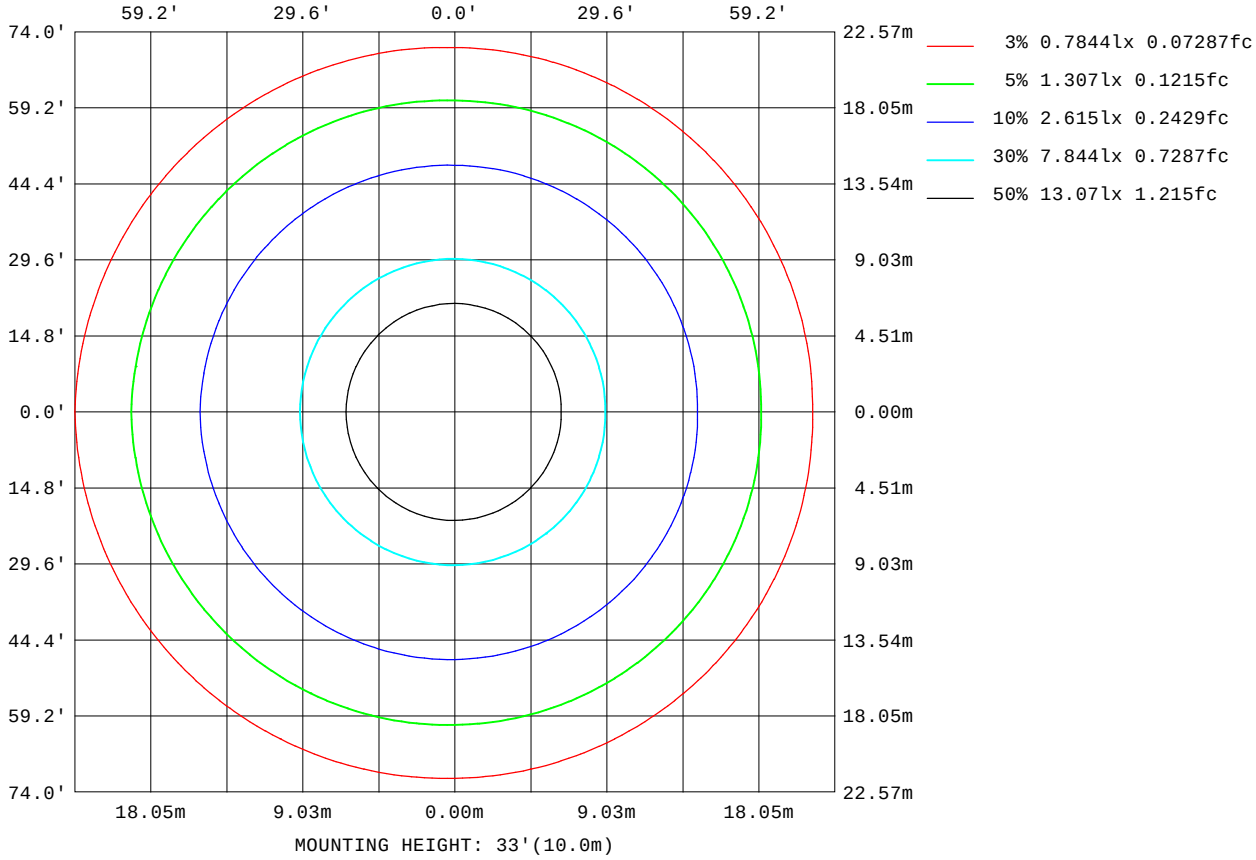

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
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Remarks:

LED Avg.L Report

Test:U:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

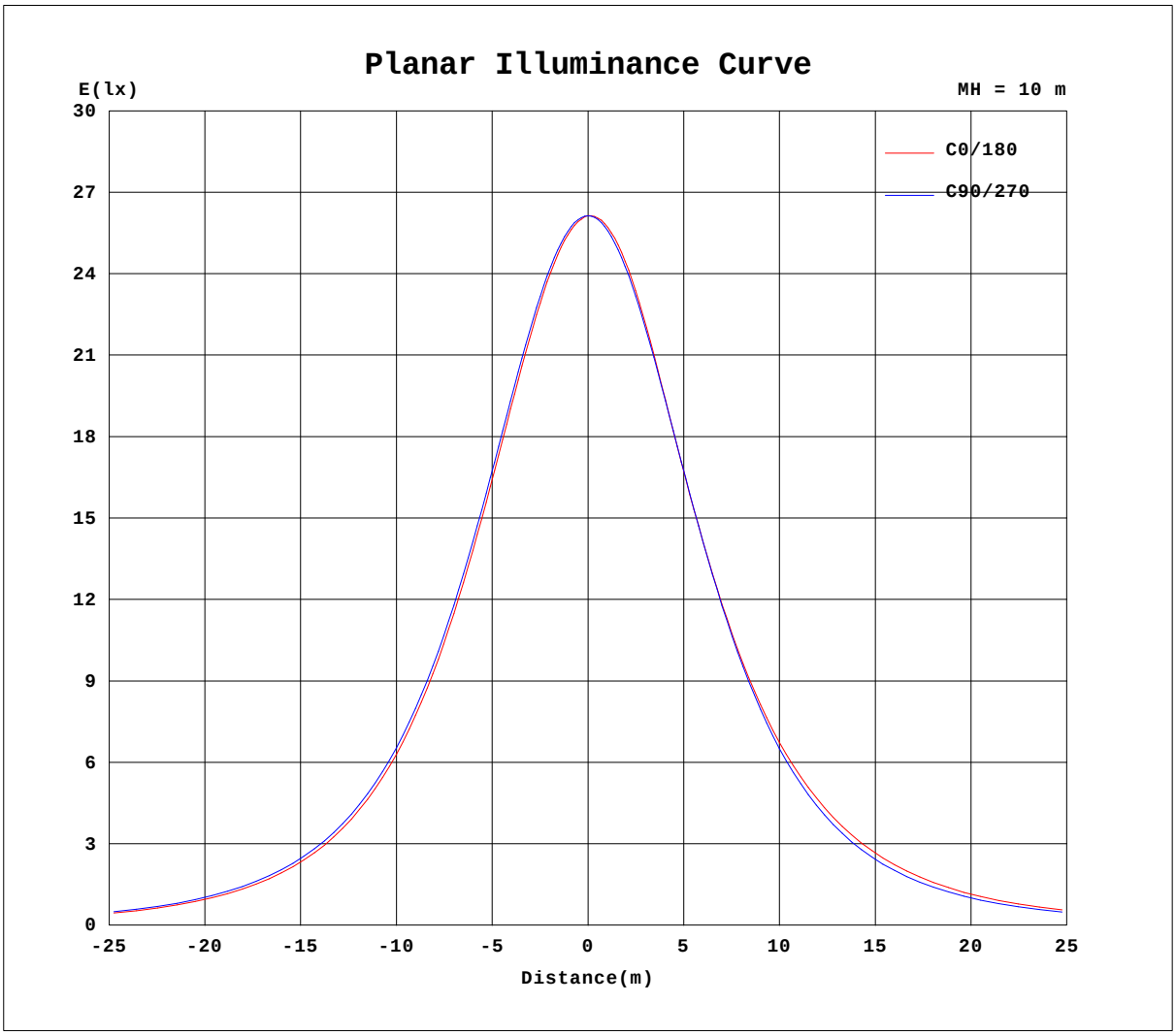
AvgL	cd/m2
L_0~180(65)av	26394
L_0~180(75)av	26266
L_0~180(85)av	29761
L_90~270(65)av	25538
L_90~270(75)av	24852
L_90~270(85)av	26723
L_45(65)av	26021
L_45(75)av	25644
L_45(85)av	28536

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:120.20V I:0.5458A P:65.436W PF:0.9974 Freq:59.98Hz Lamp Flux:8208.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:72w 4000k	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1 UNIT: cd

g (DEG) \ C(DEG)	0	90	180	270
0	2615	2614	2615	2614
5	2594	2604	2615	2605
10	2554	2575	2596	2575
15	2496	2526	2546	2526
20	2421	2458	2468	2459
25	2328	2371	2372	2372
30	2217	2267	2267	2266
35	2089	2145	2152	2143
40	1946	2007	2031	2002
45	1786	1852	1906	1843
50	1611	1683	1772	1670
55	1421	1498	1612	1482
60	1218	1300	1429	1280
65	1006	1090	1225	1069
70	788	872	1010	851
75	571	653	788	634
80	361	439	567	422
85	165	239	353	227
90	4.80	66.9	152	55.7

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

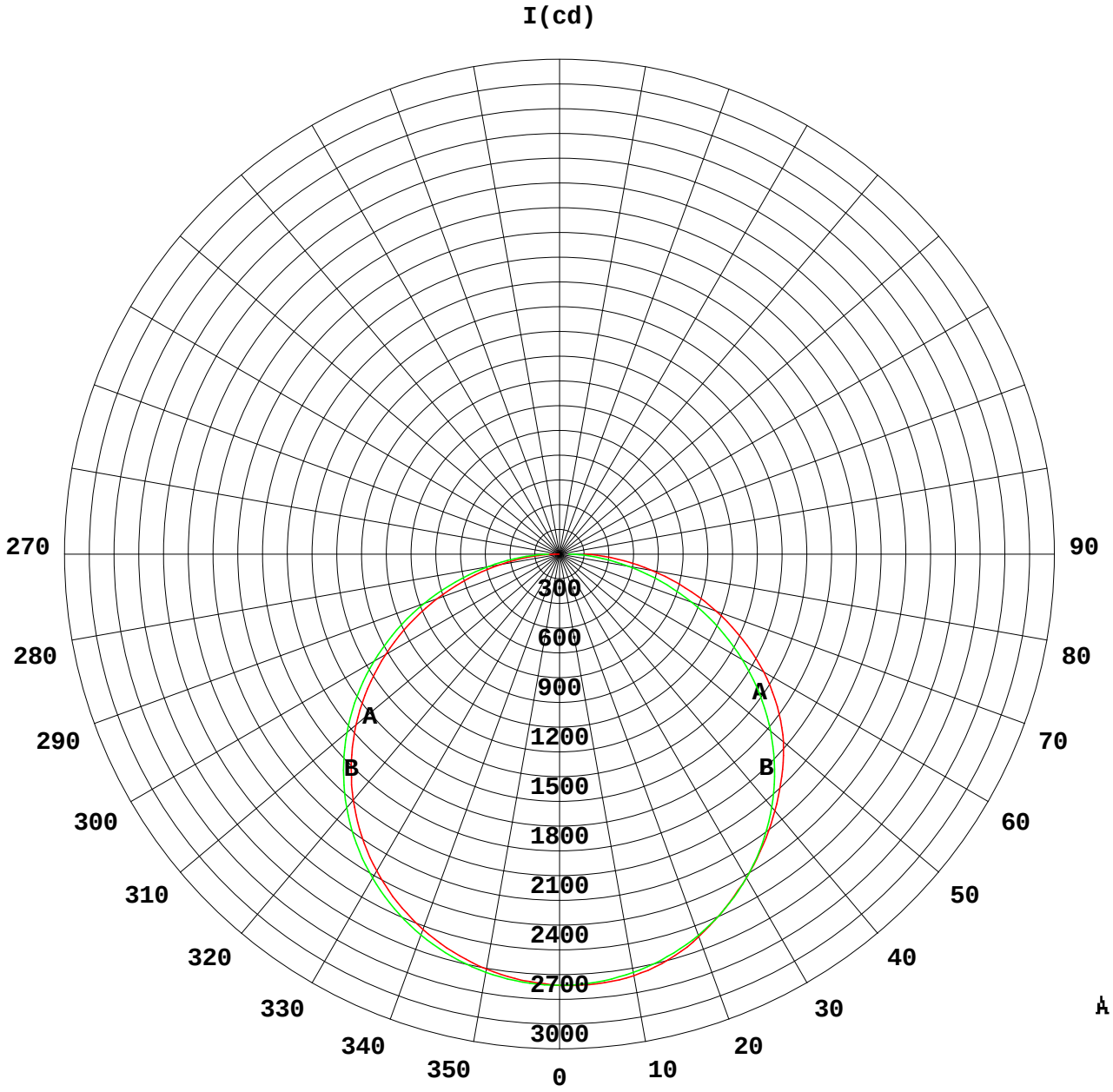
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

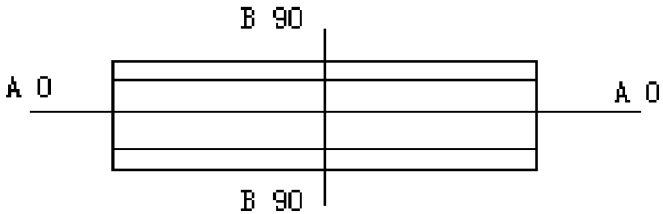
Photometric Data Table [cd]

G/C	0.0	90.0	180.0	270.0
0.0	2615	2614	2615	2614
3.0	2603	2609	2616	2611
6.0	2587	2600	2613	2600
9.0	2564	2582	2601	2583
12.0	2534	2557	2580	2558
15.0	2496	2526	2546	2526
18.0	2454	2486	2504	2489
21.0	2405	2442	2449	2443
24.0	2349	2391	2391	2391
27.0	2286	2332	2329	2333
30.0	2217	2267	2267	2266
33.0	2144	2197	2199	2195
36.0	2063	2120	2130	2116
39.0	1976	2036	2056	2031
42.0	1884	1948	1982	1941
45.0	1786	1852	1906	1843
48.0	1681	1752	1826	1741
51.0	1572	1647	1742	1634
54.0	1459	1536	1646	1520
57.0	1340	1420	1541	1401
60.0	1218	1300	1429	1280
63.0	1092	1174	1308	1153
66.0	962.1	1047	1182	1026
69.0	832.7	916.4	1053	895.5
72.0	701.2	784.4	921.7	763.9
75.0	571.3	652.9	788.3	633.5
78.0	444.4	524.3	656.3	506.1
81.0	320.9	398.4	523.8	382.2
84.0	202.9	276.8	395.2	264.0
87.0	94.01	167.0	270.6	155.3
90.0	4.800	66.88	151.6	55.66

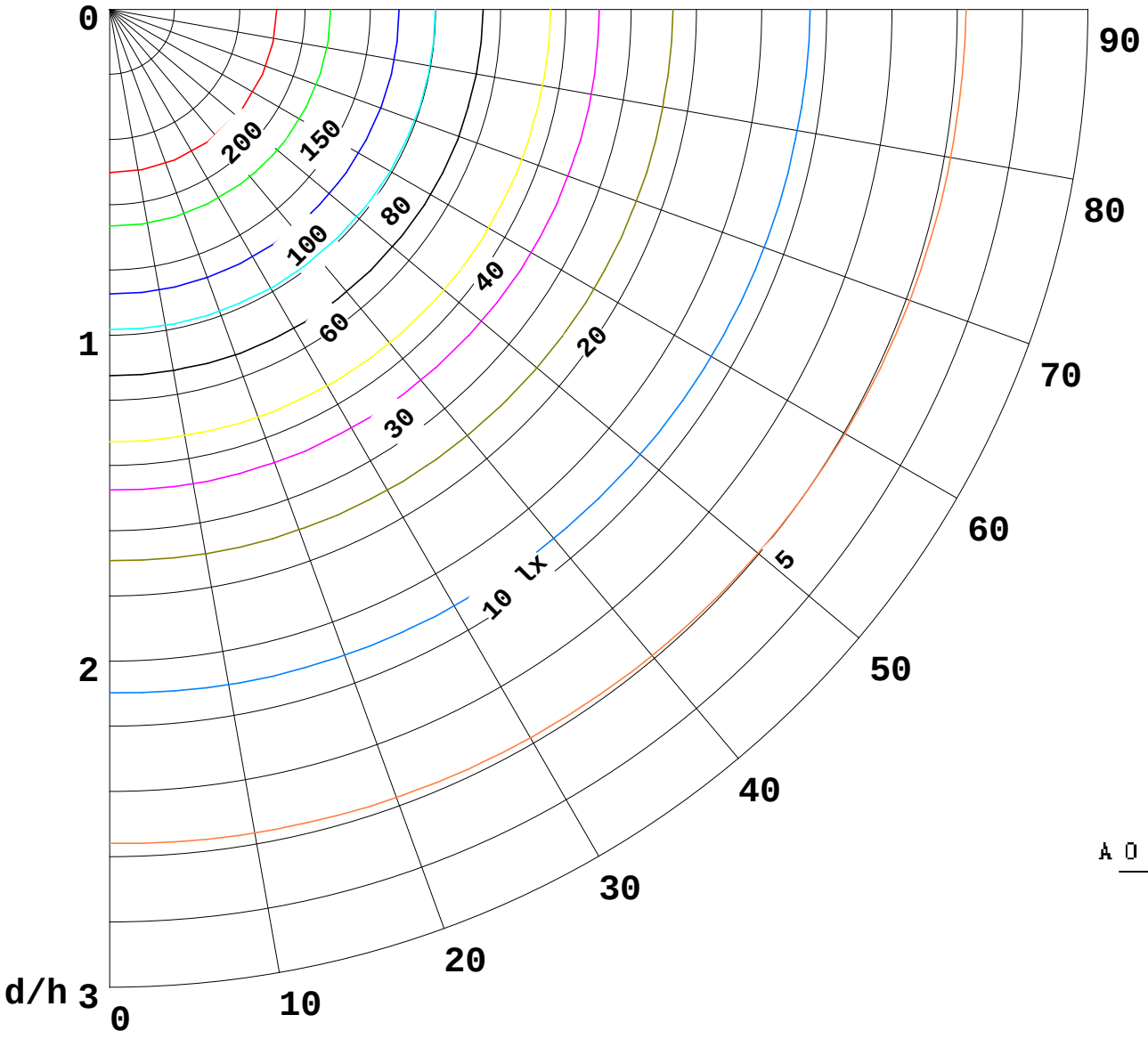
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:赢
Test Date:2024-03-30

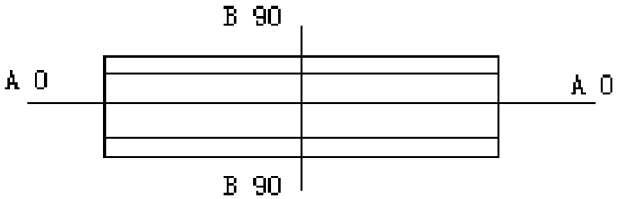
g Range: 0 - 90DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.400
Humidity:65.0%
Test Distance:8.300m [K=1.0000]
Remarks:

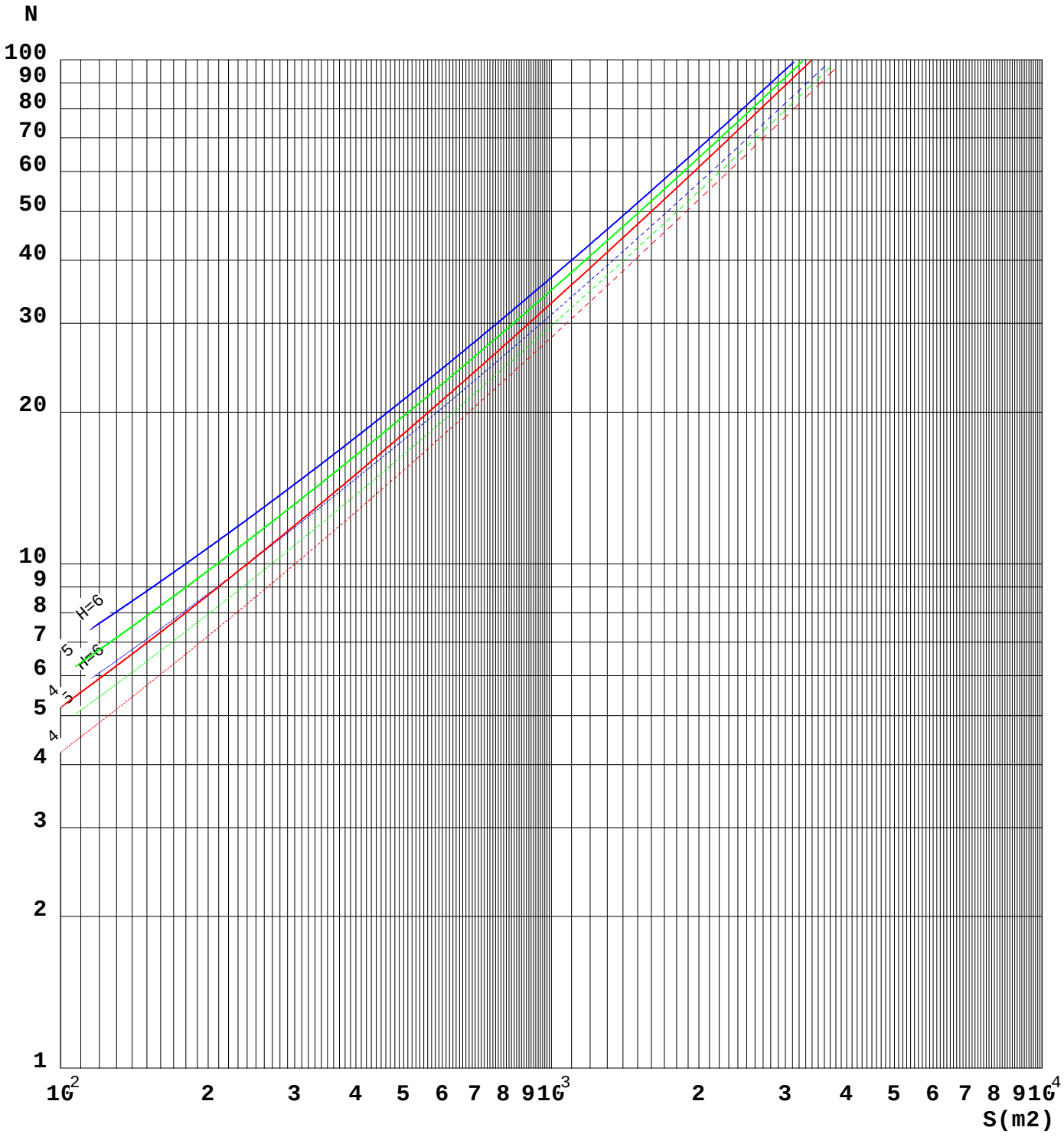

I(cd)
270
90
280
80
290
70
300
60
310
50
320
40
330
30
340
20
350
10
0
300
600
900
1200
1500
1800
2100
2400
2700
3000
A
B
A
B


B 90
A 0
A 0
B 90

1000 lm K = 1


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