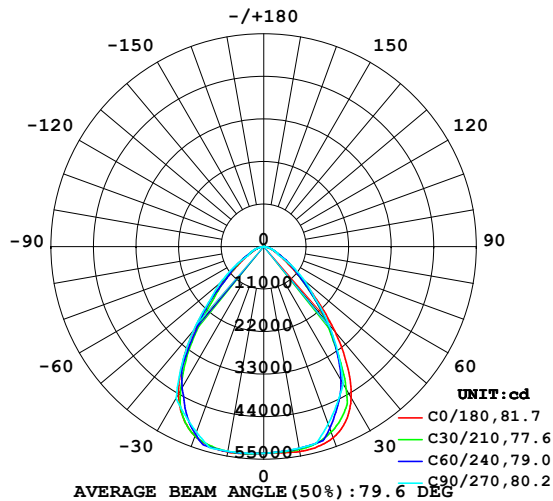


LUMINAIRE PHOTOMETRIC TEST REPORT

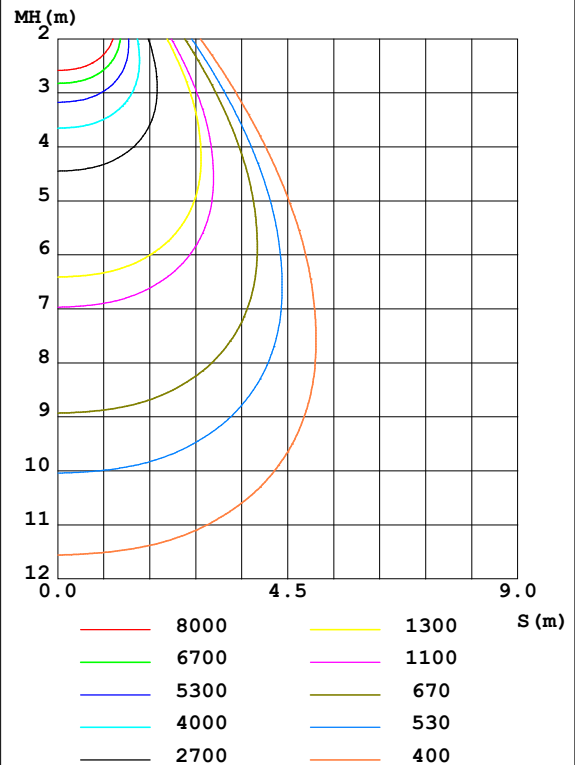
Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 180.31 lm/W			
MODEL	ASD-UHB2A-NEOX-500BK	I _{max} (cd)	53930	S/MH(C0/180)	1.17
NOMINAL POWER(W)	500	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	91082	η UP,DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	91082.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.15

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

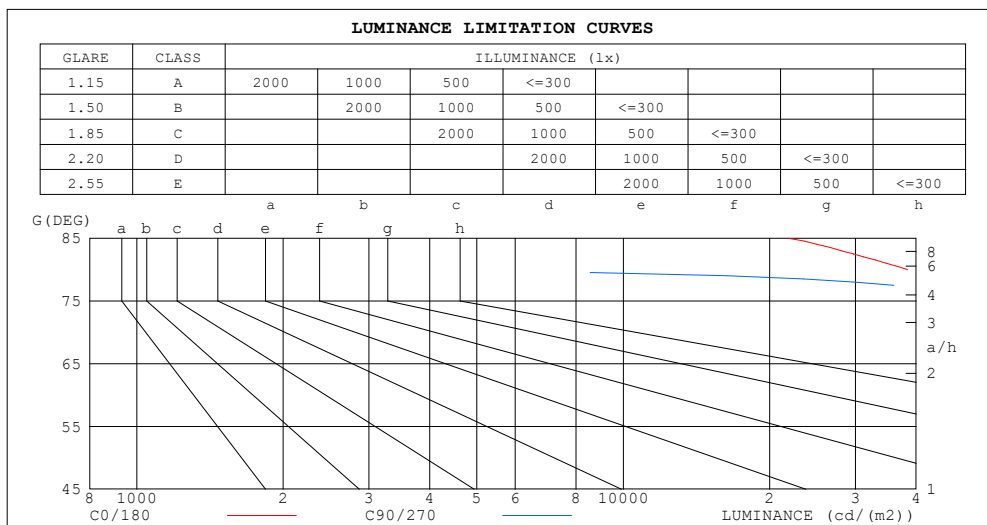
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5381	5306	5292	5314	5392	5381	5372	5374	0- 10	5106	5106	5.61,5.61
20	5256	5153	4879	5081	5211	5259	5102	5340	10- 20	14947	20053	22,22
30	4527	3992	4105	3876	4409	4129	4533	4304	20- 30	21772	41825	45.9,45.9
40	2870	2325	2601	2303	2792	2448	2827	2497	30- 40	21378	63202	69.4,69.4
50	1217	1190	1383	1213	1221	1265	1478	1257	40- 50	14325	77528	85.1,85.1
60	495.0	561.9	452.0	578.1	509.2	598.4	485.0	585.2	50- 60	7923	85451	93.8,93.8
70	224.7	246.3	262.1	245.1	233.7	250.4	271.2	251.6	60- 70	3828	89279	98,98
80	71.69	74.13	0	72.18	80.03	70.07	0	72.77	70- 80	1669	90949	99.9,99.9
90	3.645	0	0	0	0.9612	0	0	0	80- 90	133.5	91082	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:X10cd									UNIT:lm		

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21865	0
80	38416	0
75	52408	60192
70	61139	71316
65	72040	79332
60	92122	84121
55	124218	149291
50	176205	200215
45	254921	243084

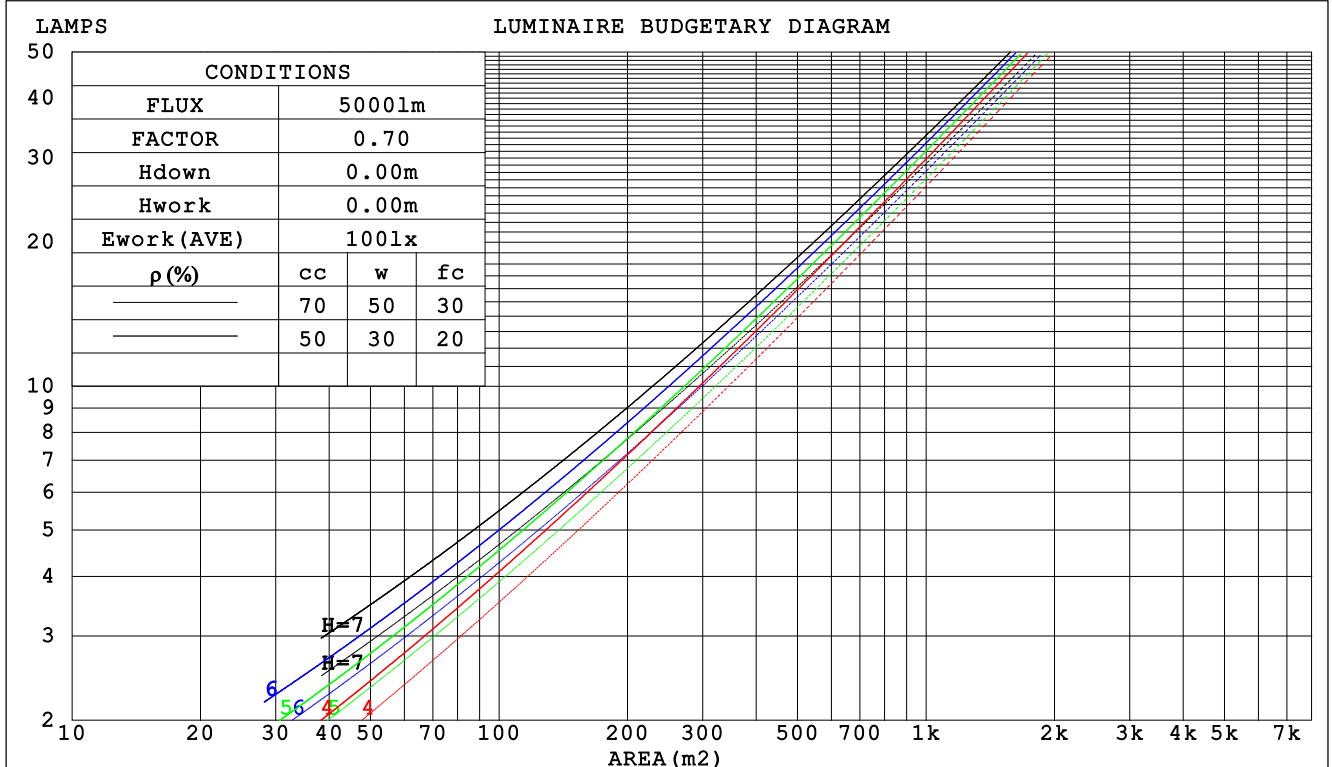
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz		
Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.97	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.88	.96	.91	.87	.93	.89	.85	.90	.86	.83	.87	.84	.82	.80
3.0	.89	.82	.77	.87	.81	.77	.85	.80	.75	.82	.78	.74	.80	.76	.73	.71
4.0	.81	.74	.68	.80	.73	.68	.77	.72	.67	.75	.70	.66	.73	.69	.65	.64
5.0	.74	.67	.61	.73	.66	.61	.71	.65	.60	.69	.64	.60	.67	.63	.59	.57
6.0	.68	.60	.55	.67	.60	.55	.65	.59	.54	.64	.58	.54	.62	.57	.54	.52
7.0	.62	.55	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.58	.53	.49	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.45	.43
9.0	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
10.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.42	.38	.36



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz		
Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

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	.227	.129	.041	.220	.125	.040	.207	.119	.038	.195	.113	.036	.184	.107	.034		
2.0	.220	.121	.037	.214	.118	.036	.203	.113	.035	.193	.108	.034	.184	.104	.033		
3.0	.210	.112	.033	.204	.110	.033	.195	.106	.032	.186	.102	.031	.178	.098	.030		
4.0	.198	.103	.030	.194	.101	.030	.185	.098	.029	.178	.095	.029	.170	.093	.028		
5.0	.187	.095	.028	.183	.094	.027	.176	.092	.027	.169	.089	.027	.163	.087	.026		
6.0	.177	.089	.025	.174	.088	.025	.167	.086	.025	.161	.084	.025	.155	.082	.024		
7.0	.168	.083	.023	.164	.082	.023	.159	.080	.023	.153	.078	.023	.148	.077	.023		
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.021	.146	.074	.021	.141	.072	.021		
9.0	.151	.073	.020	.148	.072	.020	.143	.071	.020	.139	.070	.020	.135	.068	.020		
10.0	.143	.069	.019	.141	.068	.019	.137	.067	.019	.133	.066	.019	.129	.065	.019		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.107	.139	.114	.092	.095	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.054	.117	.077	.047	.081	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.113	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.108	.058	.025	.093	.050	.021	.064	.035	.015	.038	.021	.009	.012	.007	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz										
Lamp Flux:91082.1x1 lm										
NAME: ASD-UHB2A-NEOX-500BK					TYPE: NEOX					
SPEC.: 500W 5000K										
MFR.: ASD LIGHTING CORP										
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	26.5	27.8	26.9	28.1	28.4	27.2	28.5	27.6	28.8	29.1
3H	27.3	28.5	27.7	28.8	29.1	28.1	29.3	28.5	29.6	30.0
4H	27.6	28.6	28.0	29.0	29.4	28.4	29.5	28.8	29.8	30.2
6H	27.7	28.7	28.1	29.0	29.4	28.4	29.4	28.8	29.7	30.1
8H	27.7	28.6	28.1	29.0	29.4	28.3	29.3	28.8	29.7	30.1
12H	27.7	28.6	28.1	28.9	29.4	28.3	29.2	28.7	29.6	30.0
4H 2H	26.8	27.9	27.2	28.2	28.6	27.4	28.4	27.8	28.8	29.2
3H	27.8	28.6	28.2	29.0	29.4	28.4	29.3	28.9	29.7	30.1
4H	28.1	28.9	28.5	29.3	29.7	28.8	29.6	29.2	30.0	30.4
6H	28.3	29.0	28.8	29.4	29.9	28.8	29.5	29.3	29.9	30.4
8H	28.3	28.9	28.8	29.4	29.9	28.8	29.4	29.2	29.8	30.3
12H	28.3	28.9	28.8	29.3	29.8	28.7	29.3	29.2	29.7	30.2
8H 4H	28.2	28.8	28.7	29.3	29.7	28.8	29.5	29.3	29.9	30.4
6H	28.5	29.0	29.0	29.5	29.9	28.9	29.4	29.4	29.9	30.3
8H	28.5	29.0	29.0	29.5	30.0	28.8	29.2	29.3	29.8	30.3
12H	28.5	28.9	29.0	29.4	30.0	28.7	29.2	29.3	29.6	30.2
12H 4H	28.2	28.7	28.6	29.2	29.7	28.8	29.4	29.3	29.9	30.3
6H	28.4	28.9	28.9	29.3	29.9	28.8	29.3	29.4	29.7	30.3
8H	28.5	28.9	29.0	29.4	29.9	28.8	29.2	29.3	29.7	30.2
CIE190: 2010										

CIE190: 2010
Area: 0.10746 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz		
Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

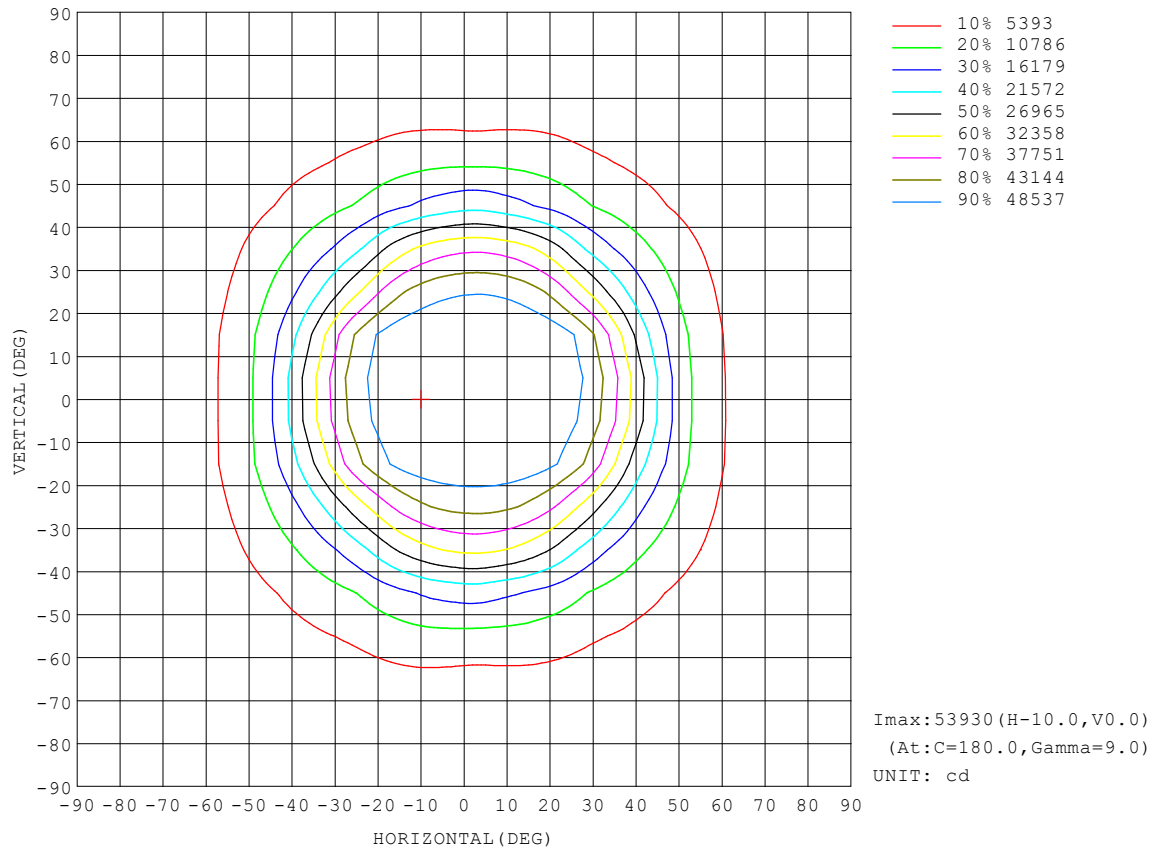
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	58	72	63	58	71	63	57	52
0.80	82	73	67	81	73	67	79	72	67	62
1.00	89	81	75	88	80	75	86	81	74	69
1.25	94	87	82	93	86	81	91	85	81	75
1.50	98	91	87	97	91	86	94	89	85	79
2.00	103	97	93	102	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	93
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:S
 Test Date:2025-2-25

$V(B)$ Range:-75 - 75DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

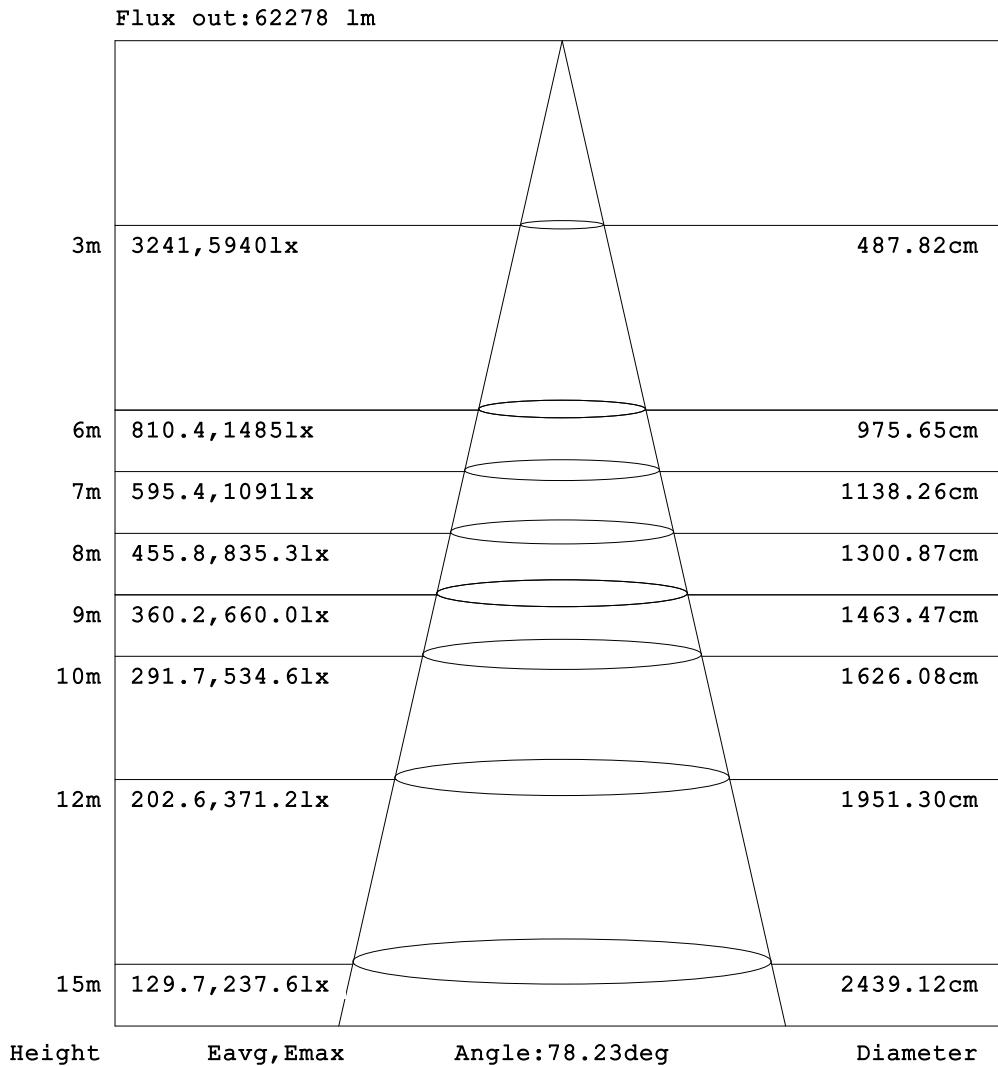


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

AAI Figure

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



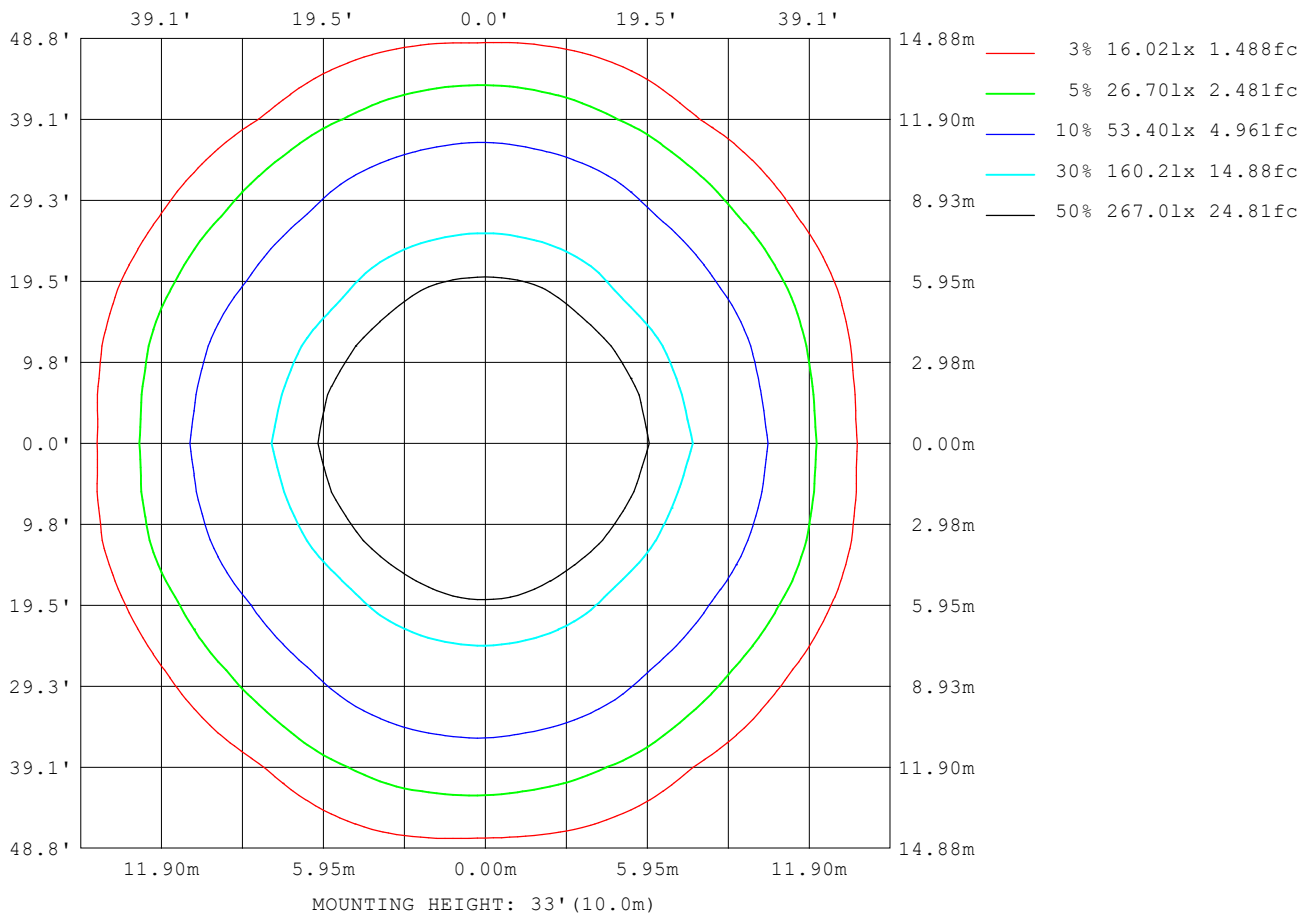
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:122.41V I:4.1406A P:505.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91082.1x1 lm		
NAME: ASD-UHB2A-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

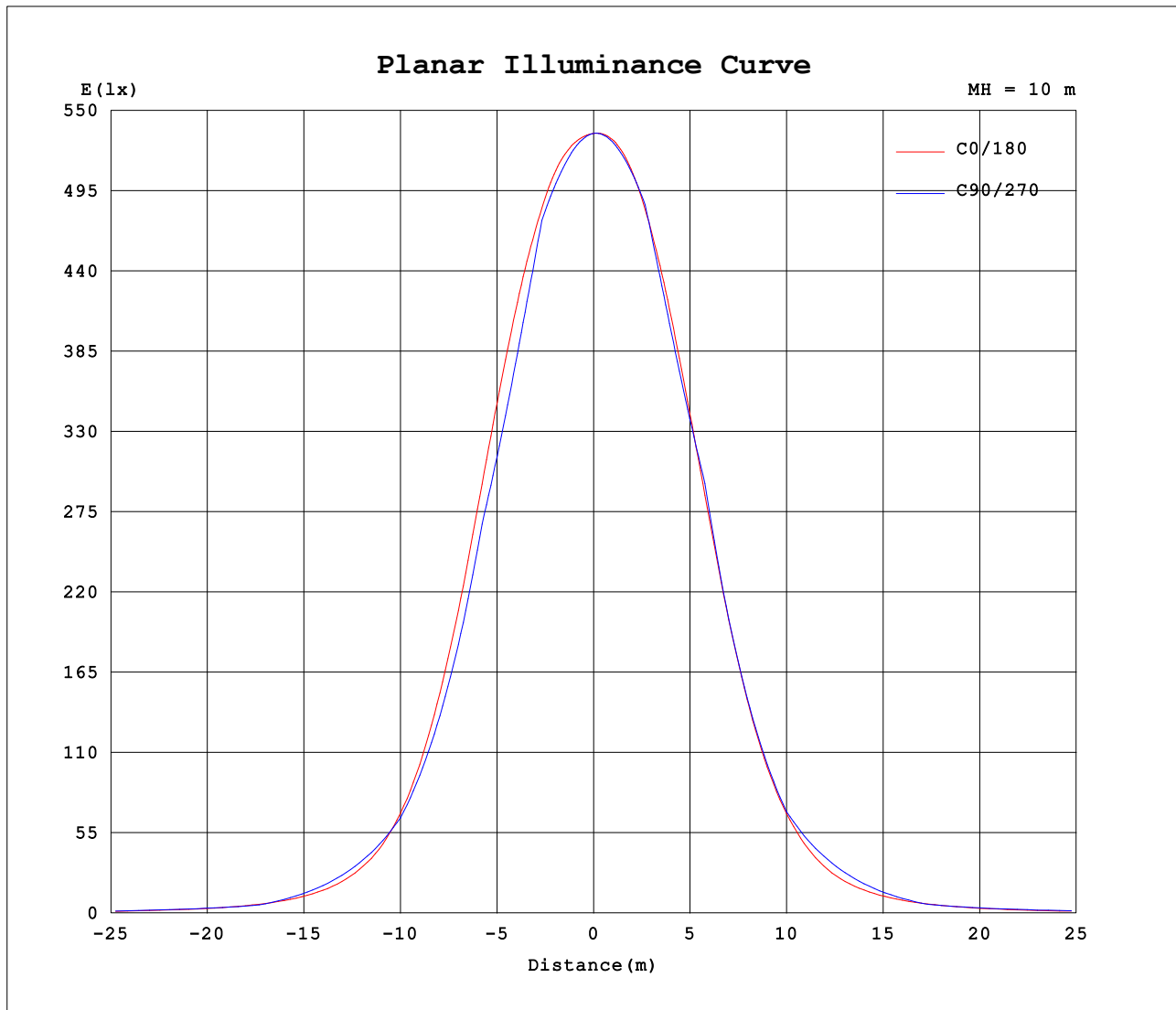
AvgL	cd/m2
L_0~180 (65) av	73319
L_0~180 (75) av	53832
L_0~180 (85) av	24732
L_90~270 (65) av	81581
L_90~270 (75) av	59656
L_90~270 (85) av	0
L_45 (65) av	84872
L_45 (75) av	58190
L_45 (85) av	0

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

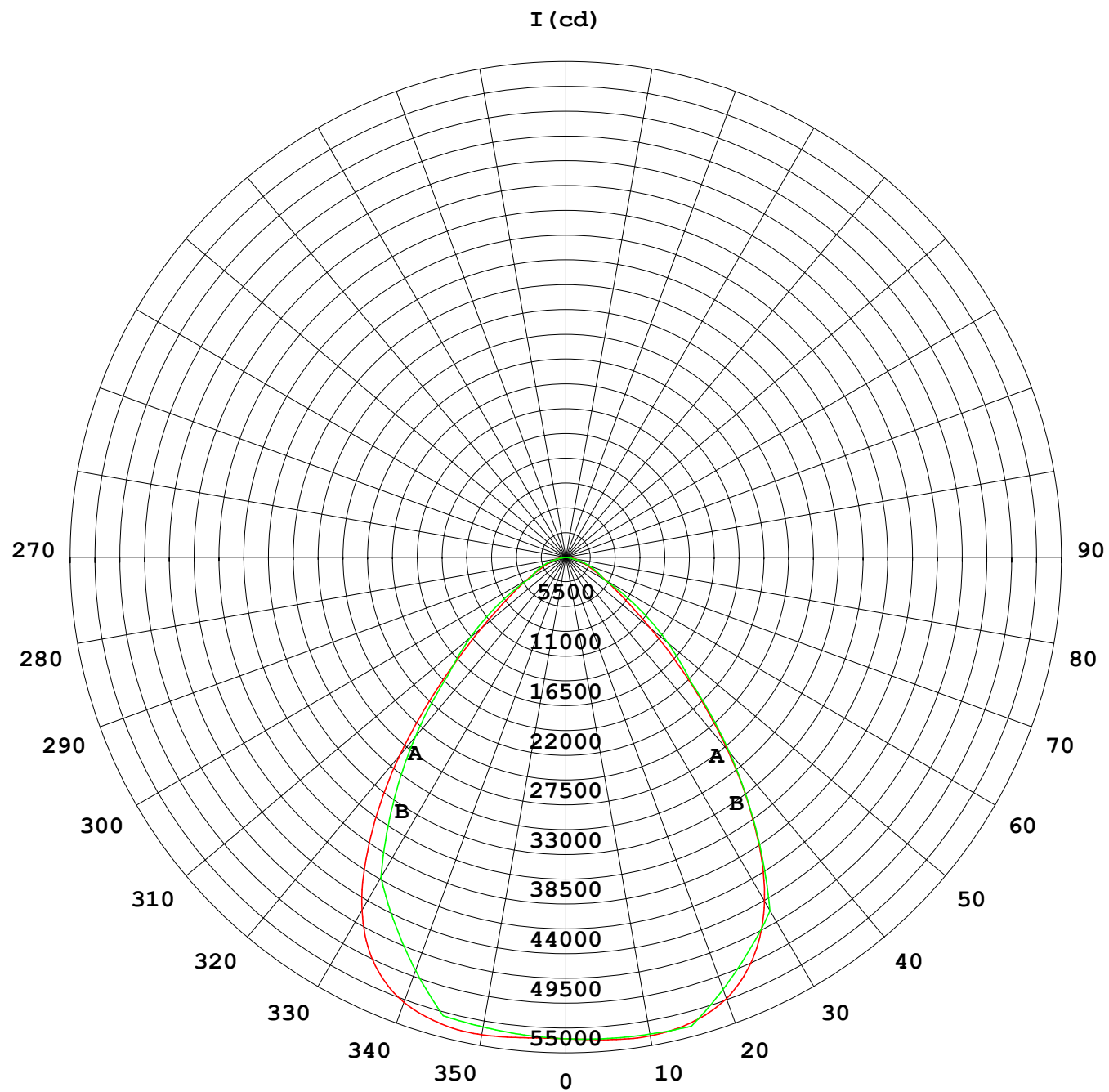
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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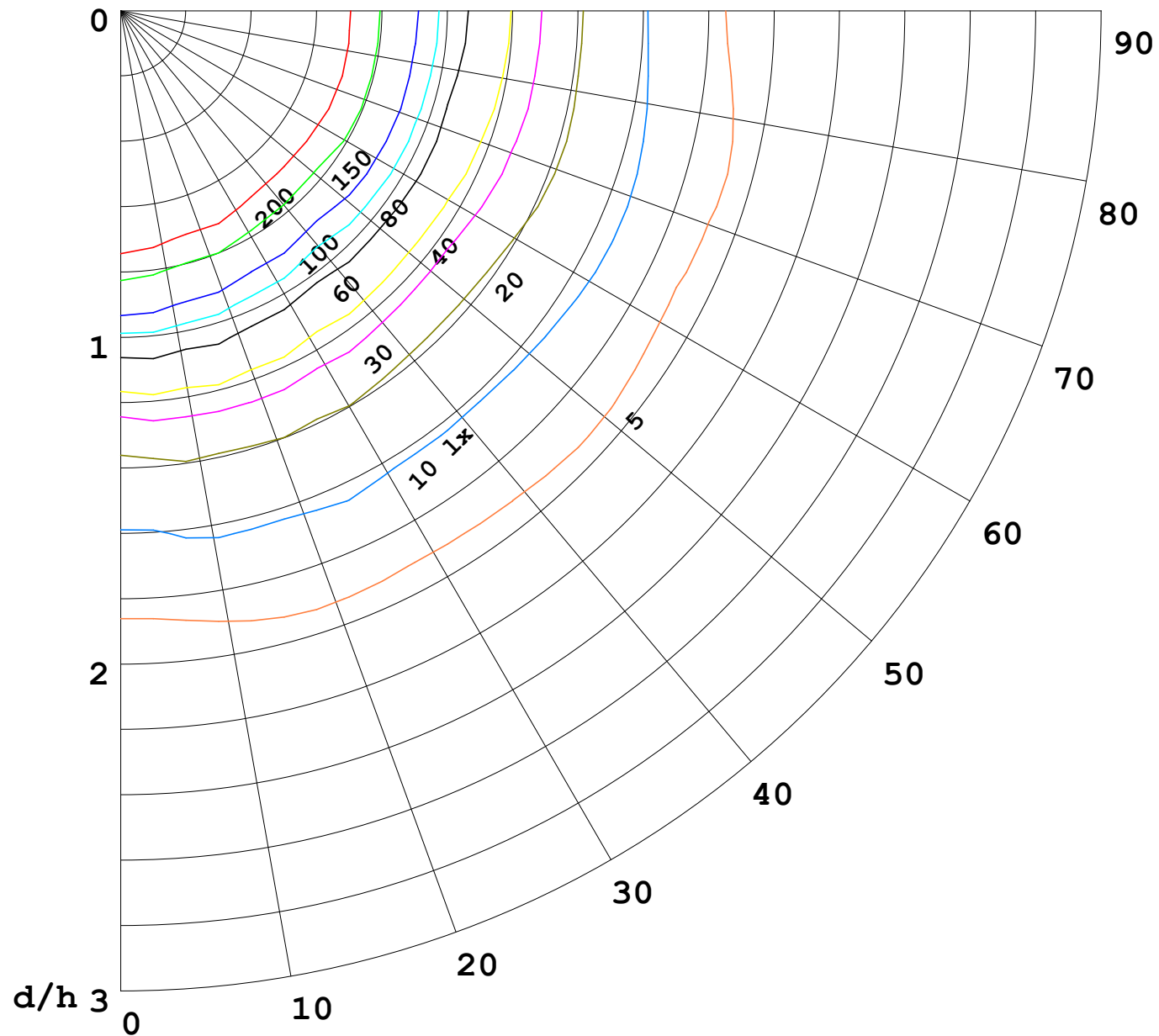
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Remarks:



1000 lm

$\kappa = 1$



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

