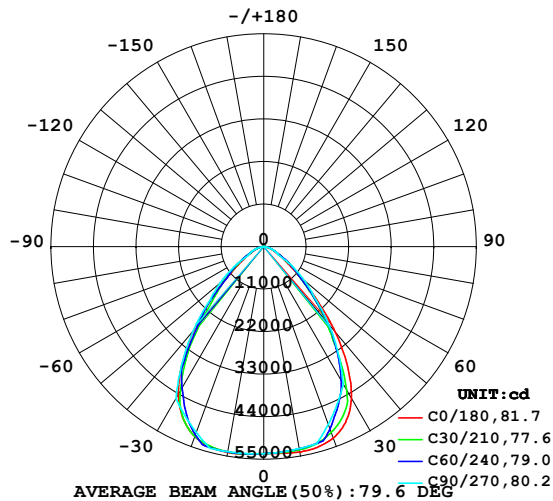


LUMINAIRE PHOTOMETRIC TEST REPORT

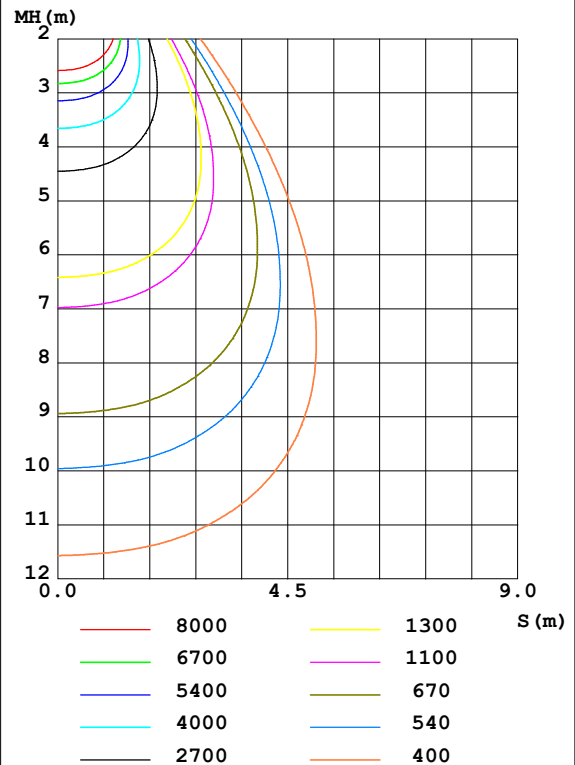
Test:U:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 181.03 lm/W			
MODEL	ASD-UHB2A-HV-NEOX-500BK	I _{max} (cd)	54038	S/MH (C0/180)	1.17
NOMINAL POWER (W)	500	LOR (%)	100.0	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	91264	η UP, DN (C0-180)	0.0, 48.9
NOMINAL FLUX (lm)	91264.2	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)	277	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:

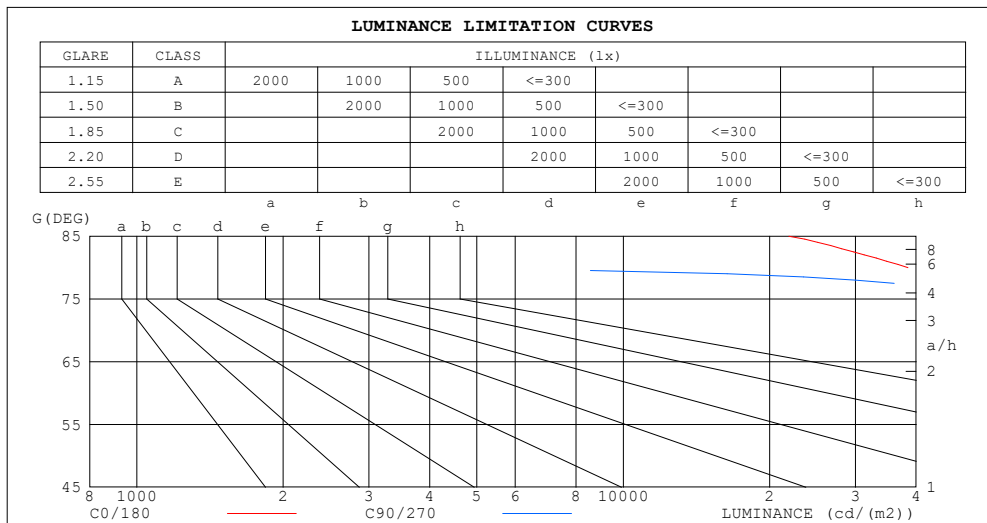
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5392	5316	5303	5324	5403	5392	5383	5384	0- 10	5116	5116	5.61,5.61
20	5266	5164	4889	5091	5221	5269	5112	5351	10- 20	14977	20093	22,22
30	4537	4000	4113	3884	4418	4137	4542	4313	20- 30	21815	41908	45.9,45.9
40	2876	2330	2606	2308	2797	2453	2833	2502	30- 40	21420	63329	69.4,69.4
50	1220	1193	1386	1216	1223	1268	1481	1260	40- 50	14354	77683	85.1,85.1
60	496.0	563.0	452.9	579.3	510.2	599.6	485.9	586.4	50- 60	7939	85622	93.8,93.8
70	225.2	246.8	262.6	245.6	234.2	250.9	271.7	252.1	60- 70	3836	89458	98,98
80	71.83	74.28	0	72.33	80.19	70.22	0	72.92	70- 80	1673	91130	99.9,99.9
90	3.653	0	0	0	0.9631	0	0	0	80- 90	133.8	91264	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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21908	0
80	38493	0
75	52513	60313
70	61261	71459
65	72184	79491
60	92306	84290
55	124466	149589
50	176558	200616
45	255430	243570

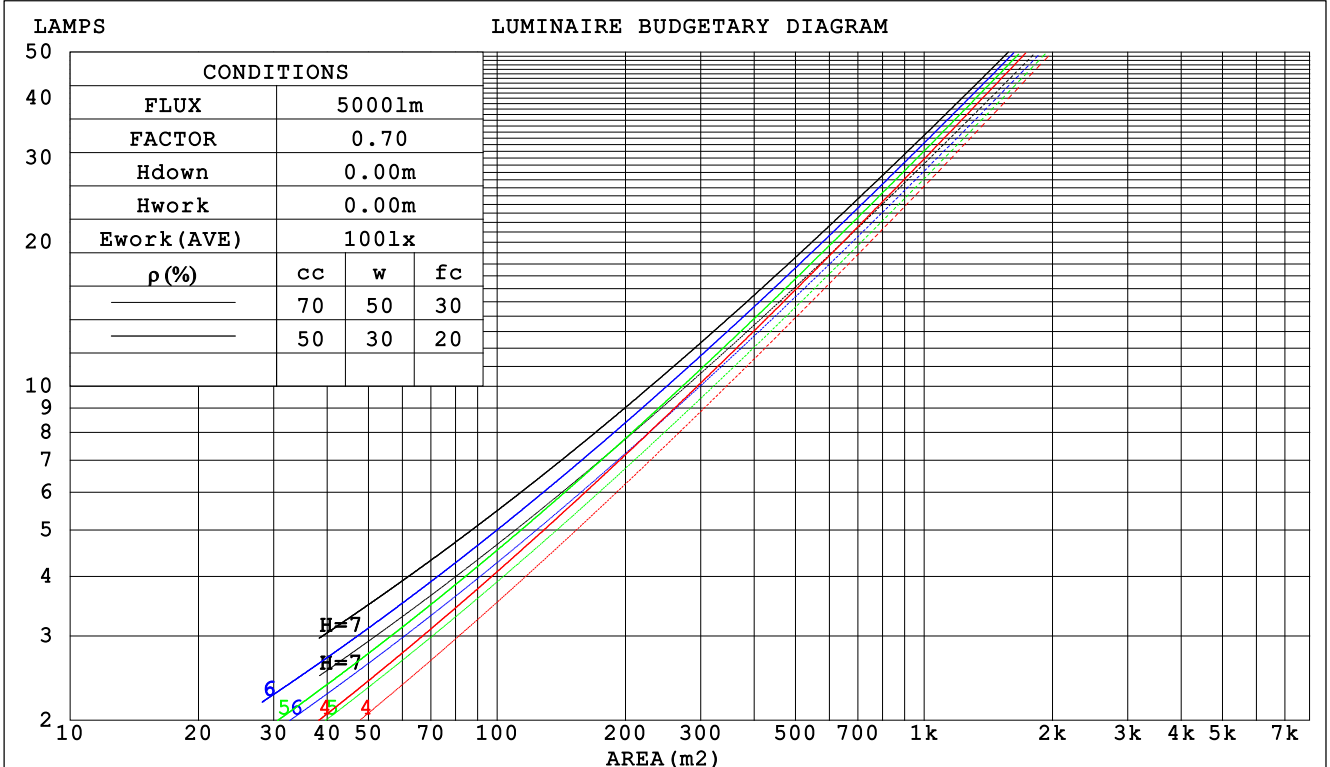
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz		
Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz		
Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz										
Lamp Flux:91264.2x1 lm										
NAME: ASD-UHB2A-HV-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	29.2	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	29.1	29.5	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	29.0	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	28.5	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	30.5
6H	28.3	29.0	28.8	29.4	29.9	28.8	29.5	29.3	29.9	30.4
8H	28.3	29.0	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	29.8	30.2
8H 4H	28.2	28.8	28.7	29.3	29.7	28.9	29.5	29.3	29.9	30.4
6H	28.5	29.0	29.0	29.5	30.0	28.9	29.4	29.4	29.9	30.4
8H	28.5	29.0	29.0	29.5	30.0	28.8	29.3	29.3	29.8	30.3
12H	28.5	28.9	29.0	29.4	30.0	28.8	29.2	29.3	29.7	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	29.0	29.4	29.9	28.8	29.3	29.4	29.8	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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

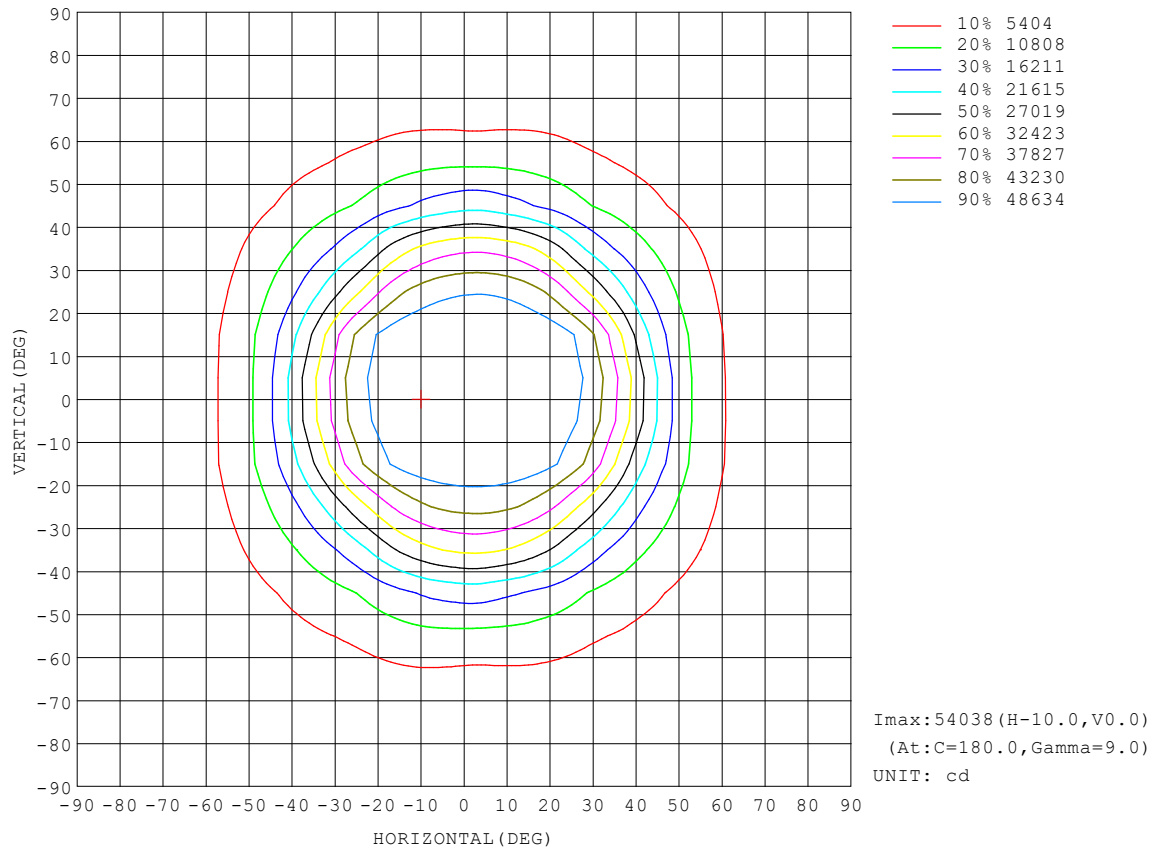
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	58	72	63	58	71	63	57	52
0.80	82	73	67	81	73	67	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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

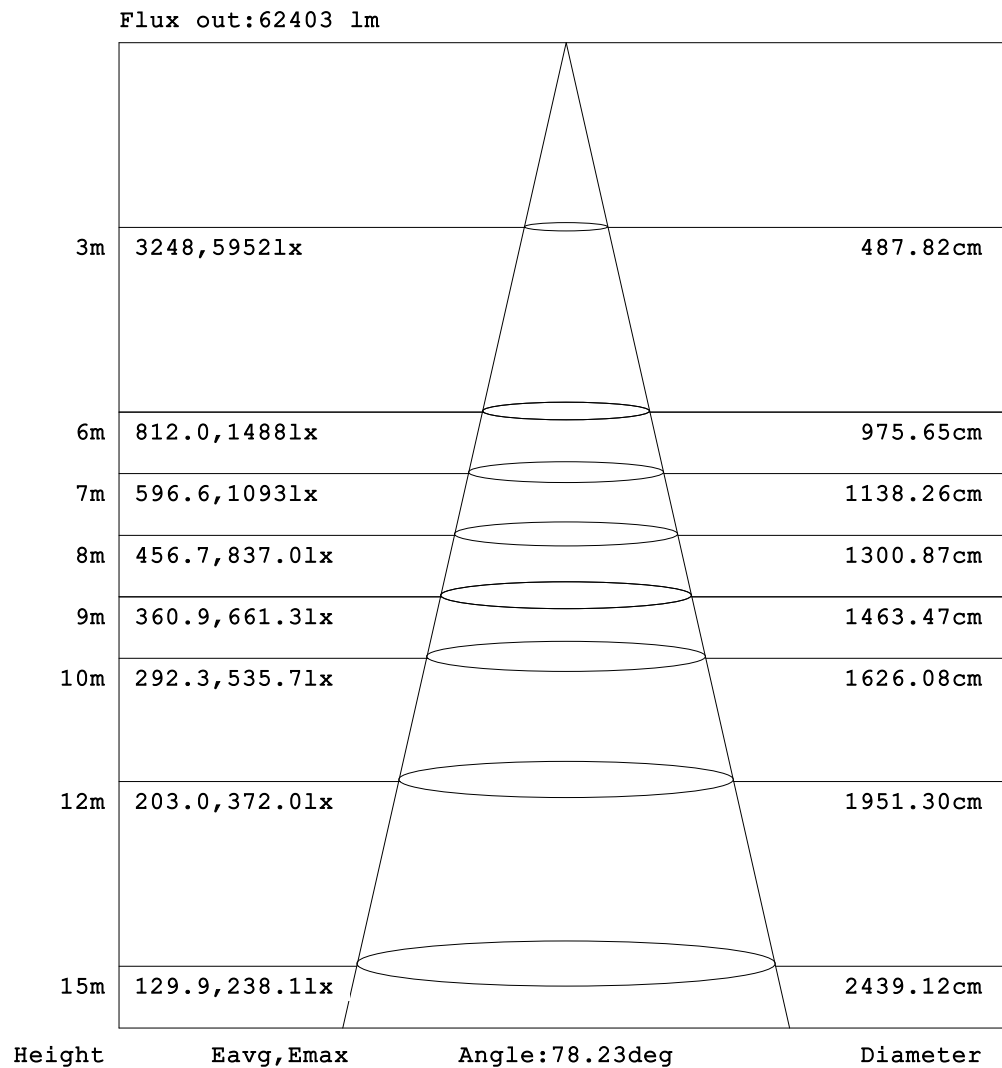


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-2-25

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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



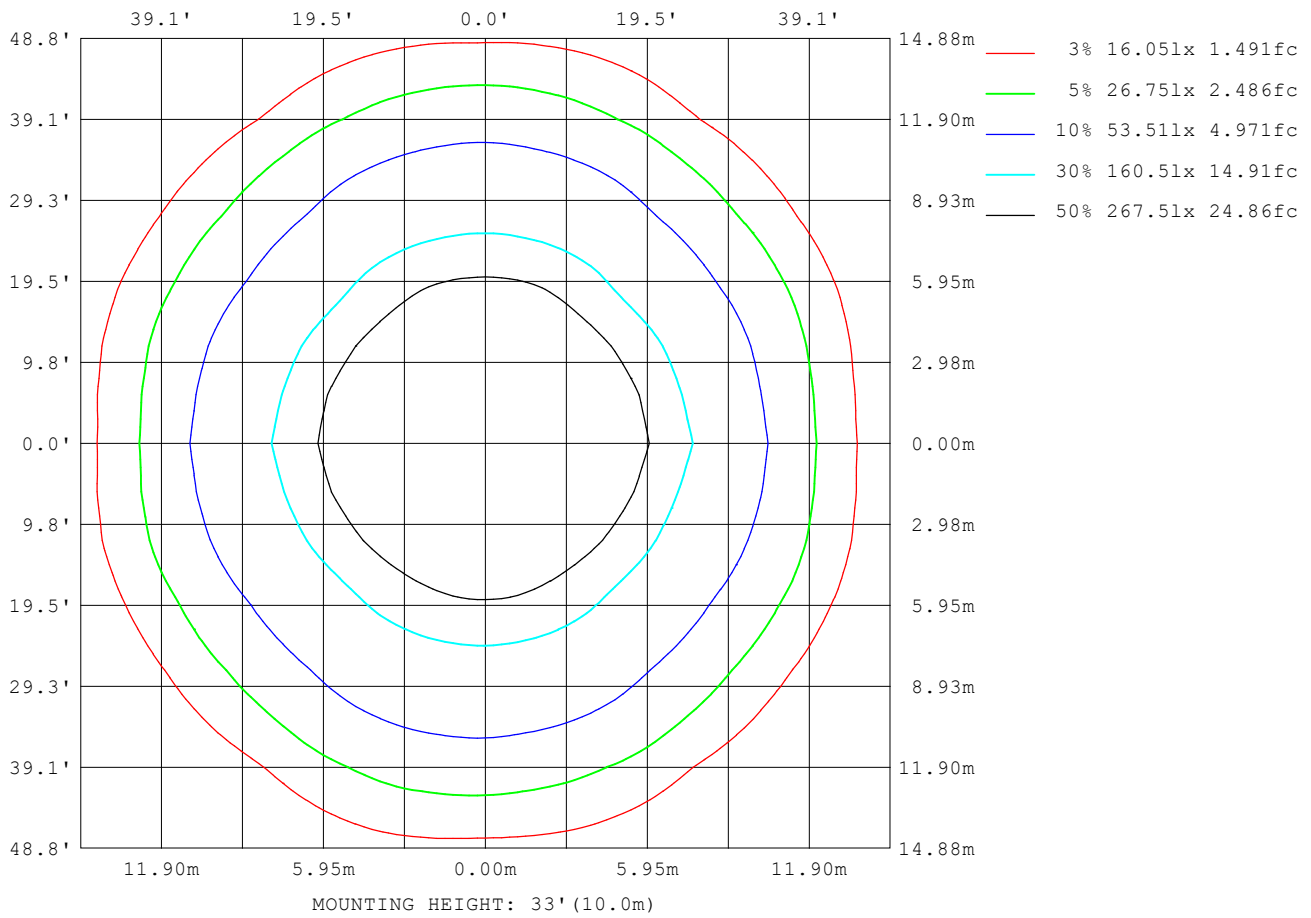
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-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:280.00V I:1.8066A P:504.15W PF:0.9966 Freq:50.01Hz Lamp Flux:91264.2x1 lm		
NAME: ASD-UHB2A-HV-NEOX-500BK	TYPE: NEOX	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

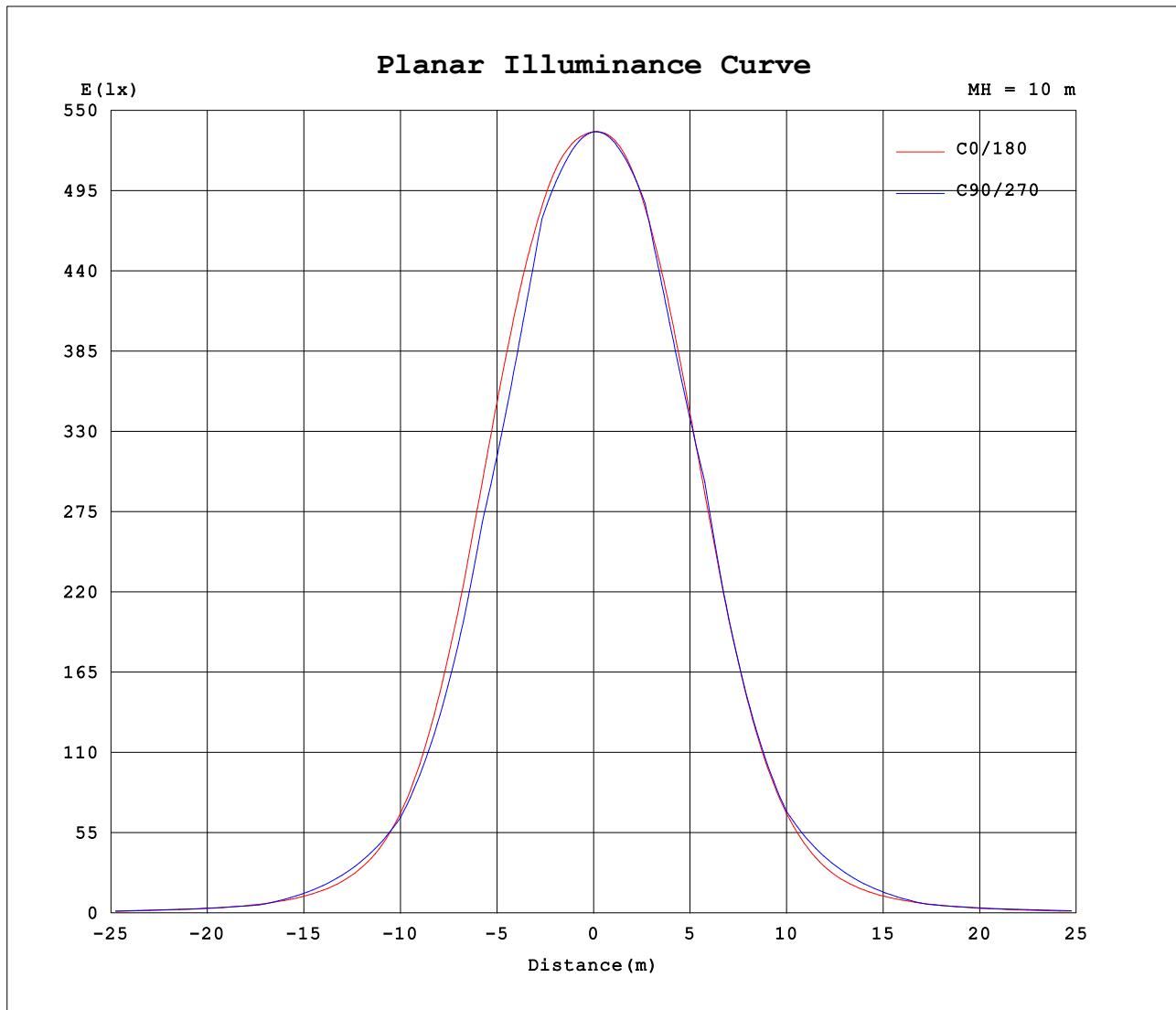
AvgL	cd/m2
L_0~180 (65) av	73466
L_0~180 (75) av	53940
L_0~180 (85) av	24781
L_90~270 (65) av	81745
L_90~270 (75) av	59776
L_90~270 (85) av	0
L_45 (65) av	85041
L_45 (75) av	58307
L_45 (85) av	0

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:

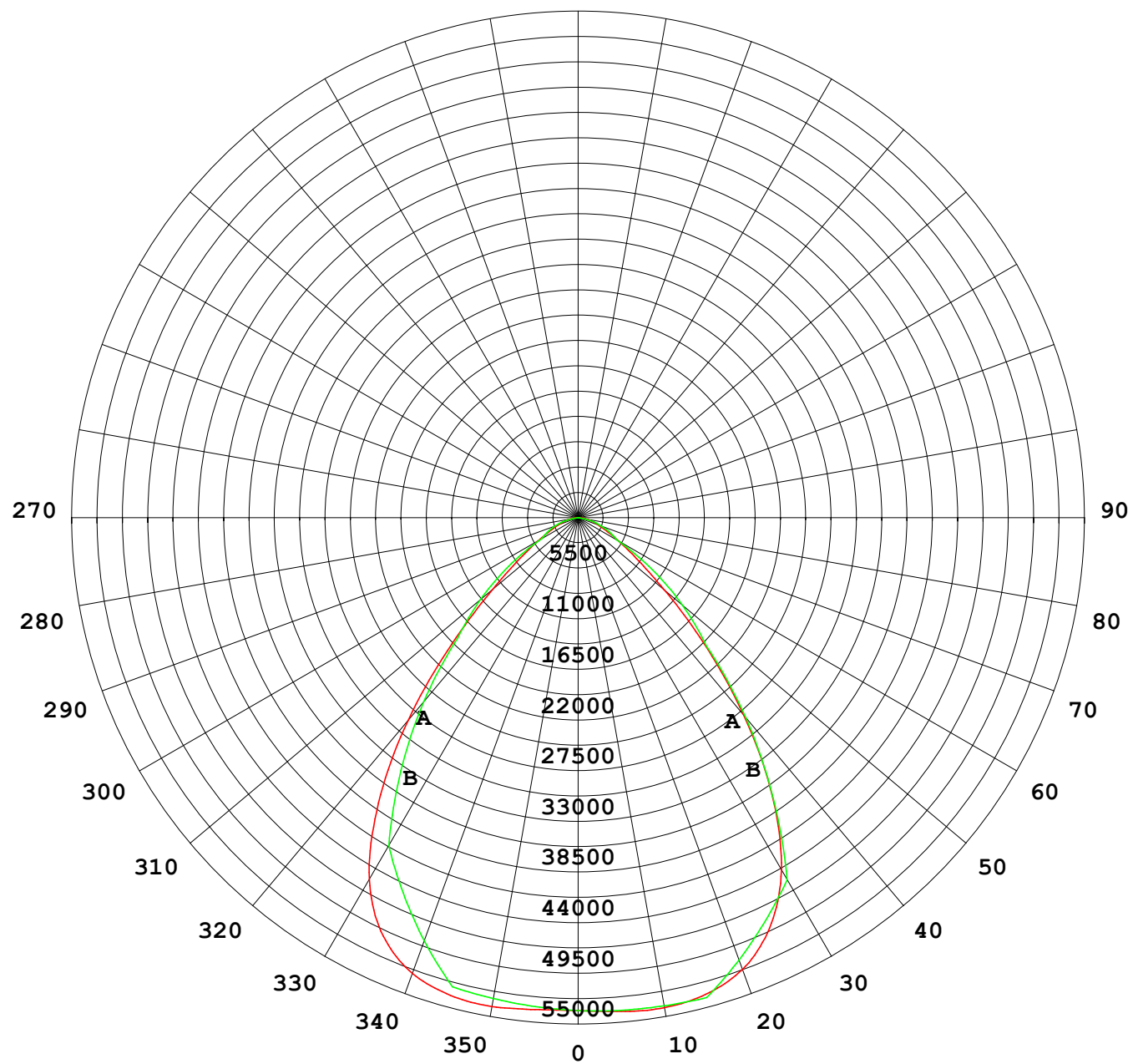
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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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Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

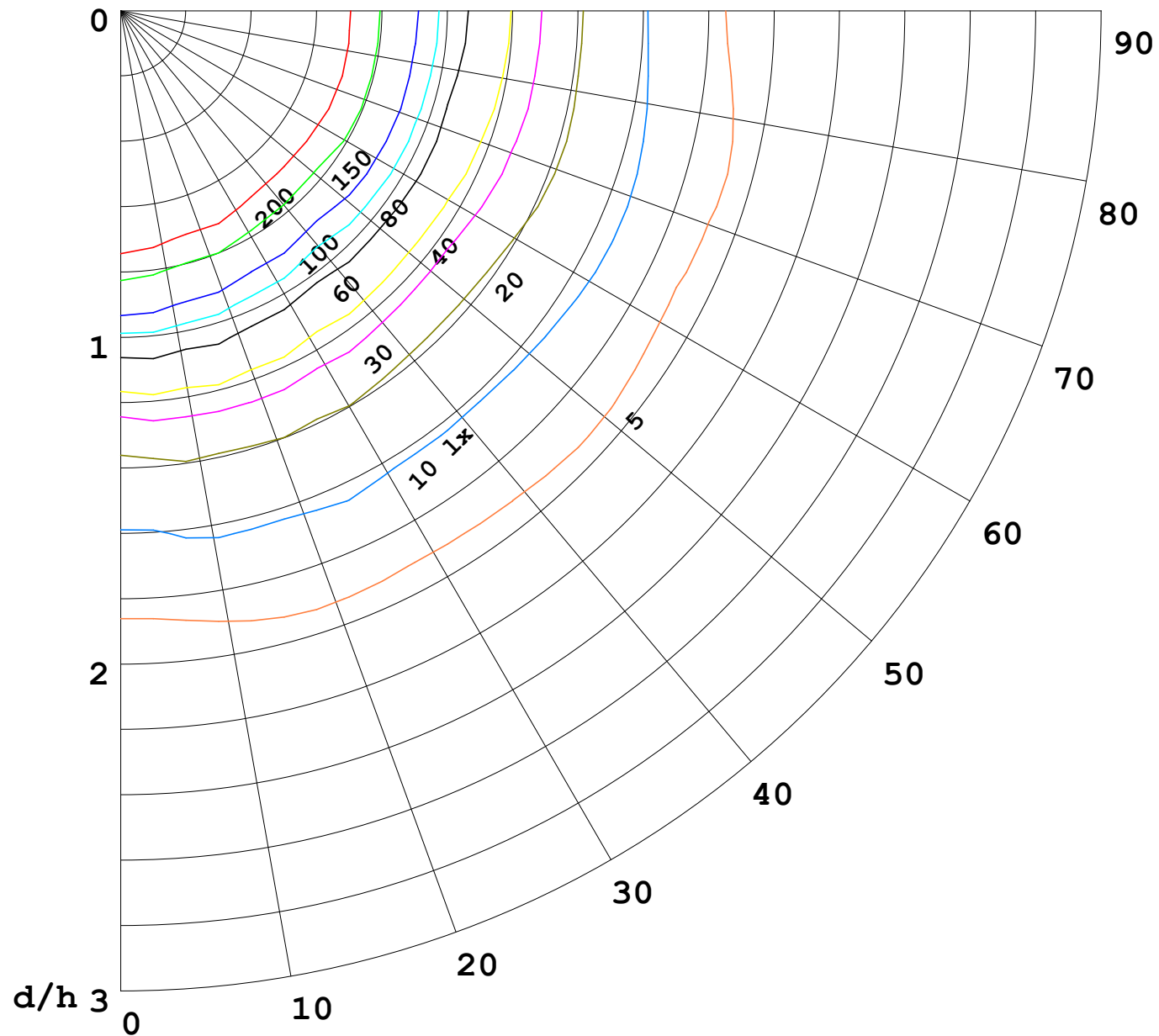
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

I (cd)



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

