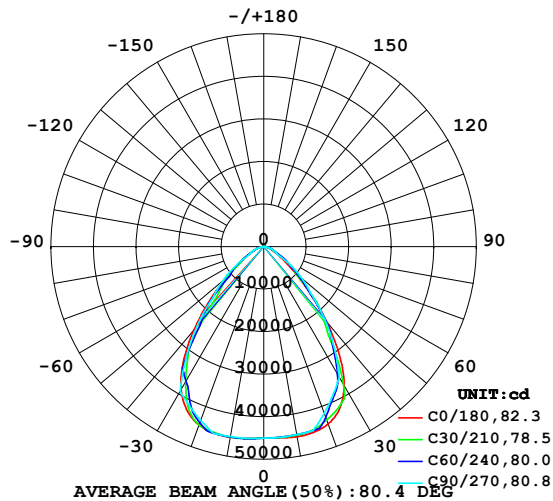


LUMINAIRE PHOTOMETRIC TEST REPORT

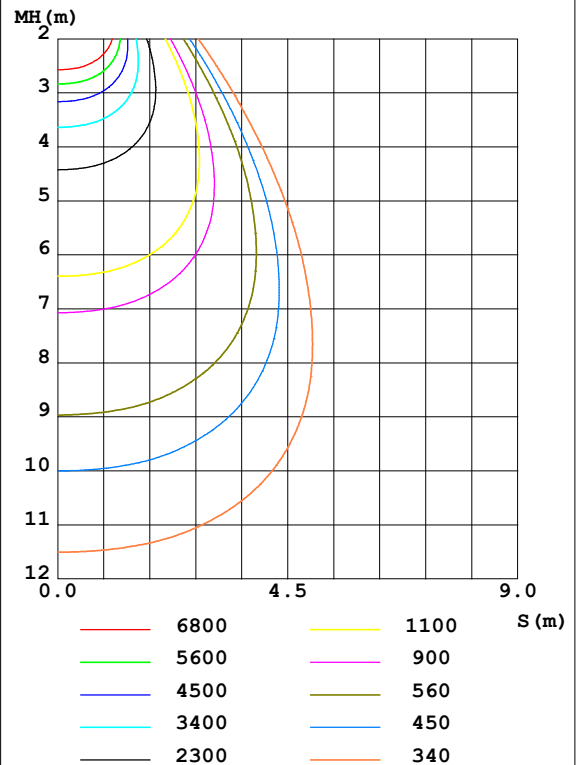
Test:U:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz Lamp Flux:78273.1lx1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.81 lm/W			
MODEL	ASD-UHB2A-ST-500BK	I _{max} (cd)	45547	S/MH(C0/180)	1.20
NOMINAL POWER(W)	500	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	78273	η UP,DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	78273.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.2
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:2025-4-15

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:

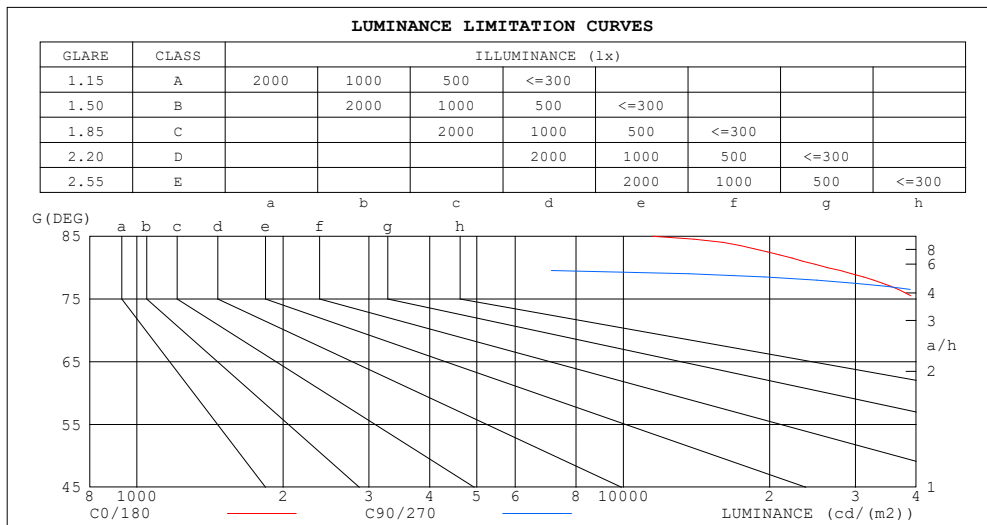
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4538	4491	4489	4503	4549	4547	4535	4532	0- 10	4312	4312	5.51,5.51
20	4437	4417	4171	4320	4461	4462	4346	4536	10- 20	12680	16992	21.7,21.7
30	3785	3455	3549	3362	3886	3587	3935	3734	20- 30	18684	35676	45.6,45.6
40	2301	1981	2237	2088	2554	2245	2441	2148	30- 40	18578	54254	69.3,69.3
50	963.5	983.7	1180	1081	1182	1137	1267	1049	40- 50	12404	66657	85.2,85.2
60	393.7	465.4	379.2	503.7	476.6	521.8	413.7	488.9	50- 60	6813	73470	93.9,93.9
70	179.3	208.1	218.8	206.5	214.0	212.4	228.6	216.0	60- 70	3282	76752	98.1,98.1
80	49.00	63.39	0	57.85	78.98	55.20	0	62.00	70- 80	1408	78160	99.9,99.9
90	4.419	0	0	0	2.111	0	0	0	80- 90	113.2	78273	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:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11495	0
80	26259	0
75	40023	50145
70	48795	59529
65	57479	68061
60	73275	70570
55	98737	127850
50	139494	170885
45	201783	207439

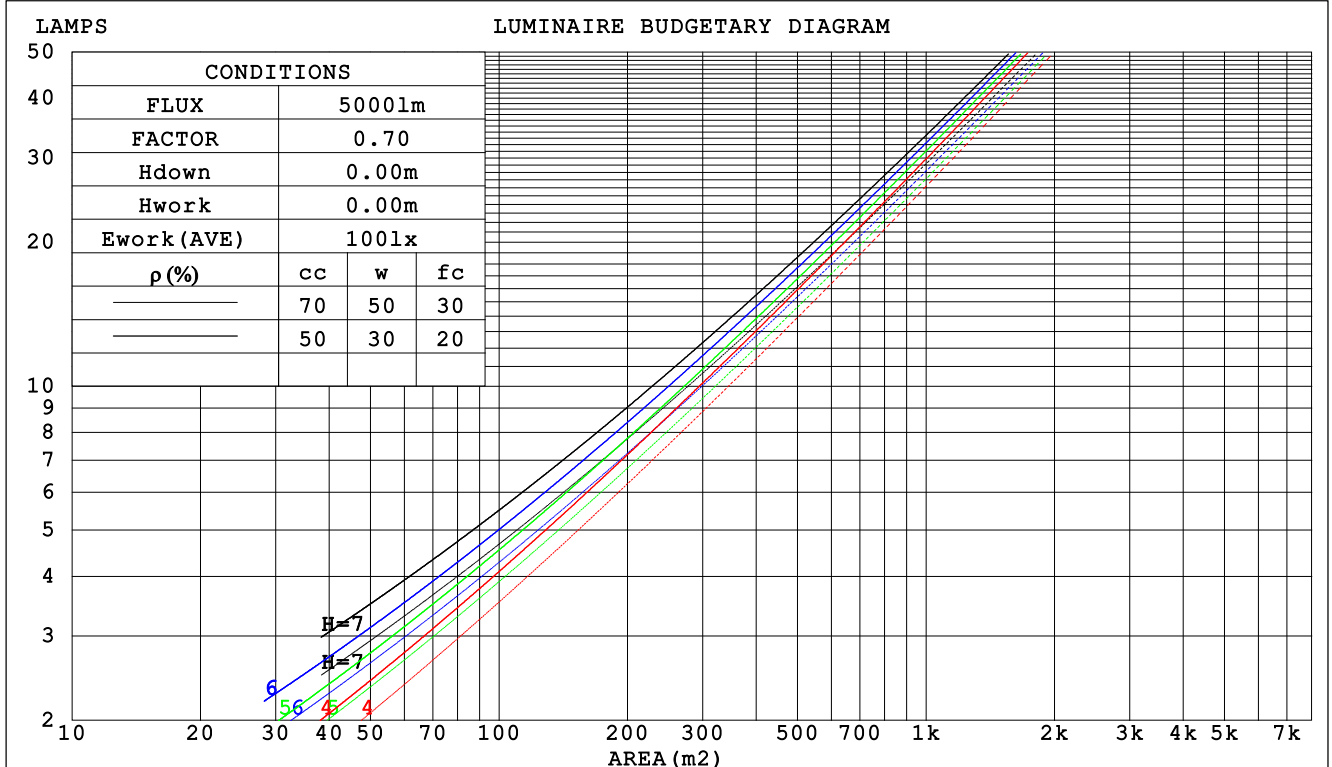
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz		
Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	.84	.79	.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	.66	.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	.53	.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	.49	.45	.55	.49	.45	.54	.48	.45	.43
9.0	.54	.46	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
10.0	.50	.43	.38	.49	.43	.38	.48	.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:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz		
Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
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	.215	.118	.036	.203	.113	.035	.193	.108	.034	.184	.104	.033		
3.0	.210	.112	.033	.205	.110	.033	.195	.106	.032	.186	.102	.031	.178	.099	.030		
4.0	.199	.103	.030	.194	.102	.030	.186	.098	.029	.178	.095	.029	.171	.093	.028		
5.0	.188	.096	.028	.184	.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	.024	.165	.082	.023	.159	.080	.023	.153	.079	.023	.148	.077	.023		
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.146	.074	.021	.141	.073	.021		
9.0	.151	.073	.020	.148	.072	.020	.144	.071	.020	.139	.070	.020	.135	.069	.020		
10.0	.144	.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	.096	.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	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.102	.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:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz										
Lamp Flux:78273.1x1 lm										
NAME: ASD-UHB2A-ST-500BK					TYPE: UHB2A ST					
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	25.8	27.1	26.2	27.4	27.7	26.5	27.8	26.9	28.1	28.4
3H	26.7	27.9	27.1	28.2	28.6	27.4	28.6	27.8	28.9	29.3
4H	27.0	28.0	27.4	28.4	28.8	27.7	28.8	28.1	29.1	29.5
6H	27.1	28.1	27.5	28.5	28.9	27.7	28.7	28.1	29.0	29.4
8H	27.1	28.0	27.5	28.4	28.8	27.6	28.6	28.1	29.0	29.4
12H	27.1	28.0	27.5	28.4	28.8	27.6	28.5	28.0	28.9	29.3
4H 2H	26.1	27.2	26.5	27.5	27.9	26.6	27.7	27.1	28.1	28.5
3H	27.2	28.1	27.6	28.5	28.9	27.8	28.6	28.2	29.0	29.4
4H	27.5	28.3	28.0	28.7	29.2	28.1	28.9	28.5	29.3	29.8
6H	27.7	28.4	28.2	28.9	29.3	28.1	28.8	28.6	29.2	29.7
8H	27.7	28.4	28.2	28.8	29.3	28.1	28.7	28.5	29.1	29.6
12H	27.7	28.3	28.2	28.8	29.2	28.0	28.6	28.5	29.0	29.5
8H 4H	27.6	28.2	28.1	28.7	29.2	28.1	28.8	28.6	29.2	29.7
6H	27.9	28.4	28.4	28.9	29.4	28.2	28.7	28.7	29.2	29.6
8H	27.9	28.4	28.4	28.9	29.4	28.1	28.5	28.6	29.1	29.6
12H	27.9	28.3	28.4	28.8	29.4	28.0	28.4	28.6	28.9	29.5
12H 4H	27.6	28.1	28.1	28.6	29.1	28.1	28.7	28.6	29.2	29.6
6H	27.8	28.3	28.4	28.8	29.3	28.1	28.6	28.6	29.0	29.6
8H	27.9	28.3	28.4	28.8	29.4	28.1	28.5	28.6	29.0	29.5
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:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz		
Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

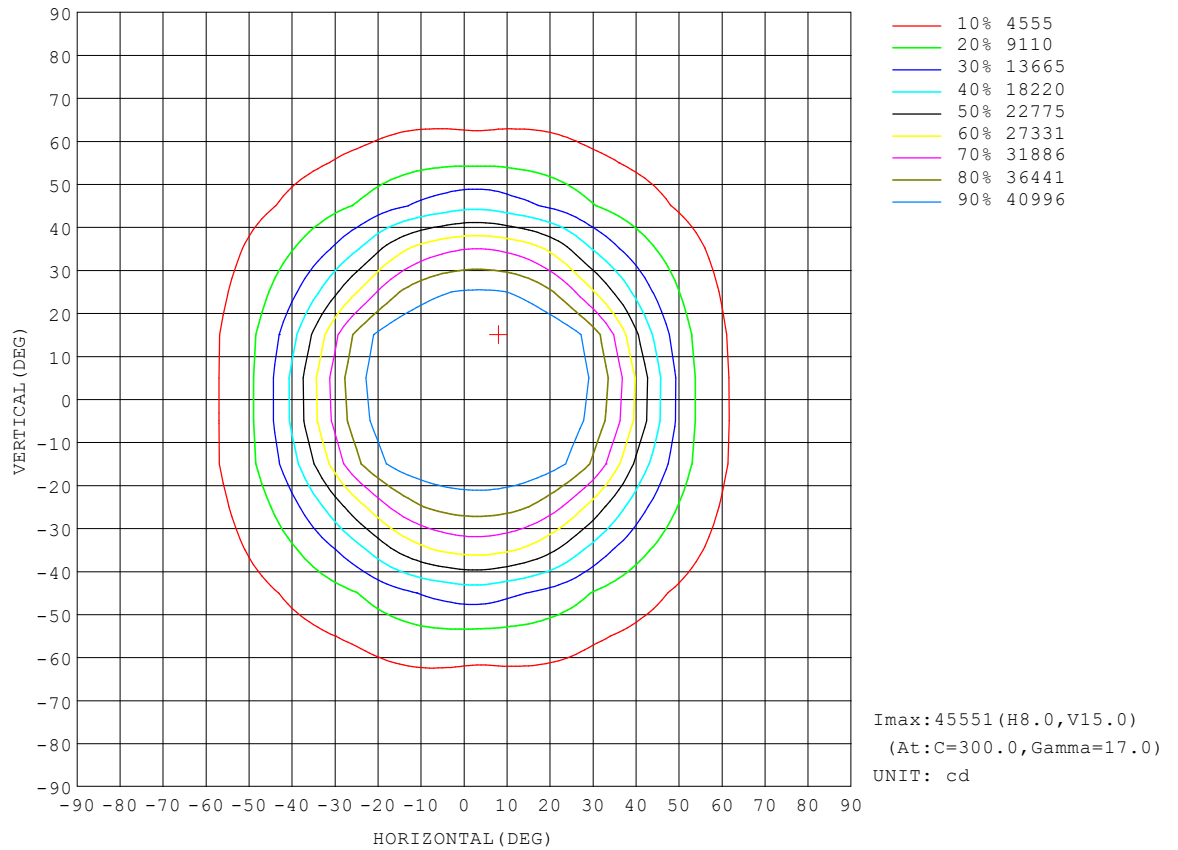
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	58	71	63	58	71	62	57	52
0.80	82	73	67	81	72	67	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	101	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:2025-4-15

$V(B)$ 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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

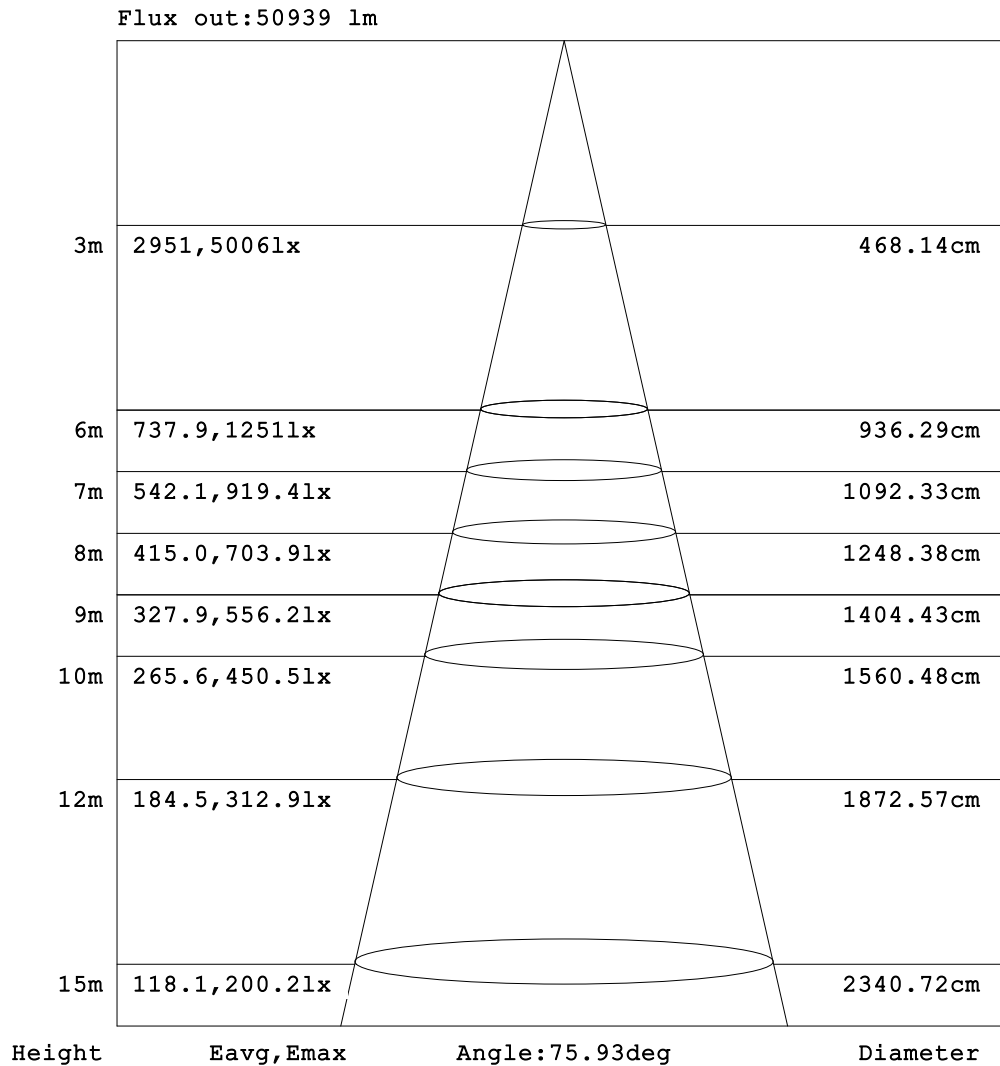


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



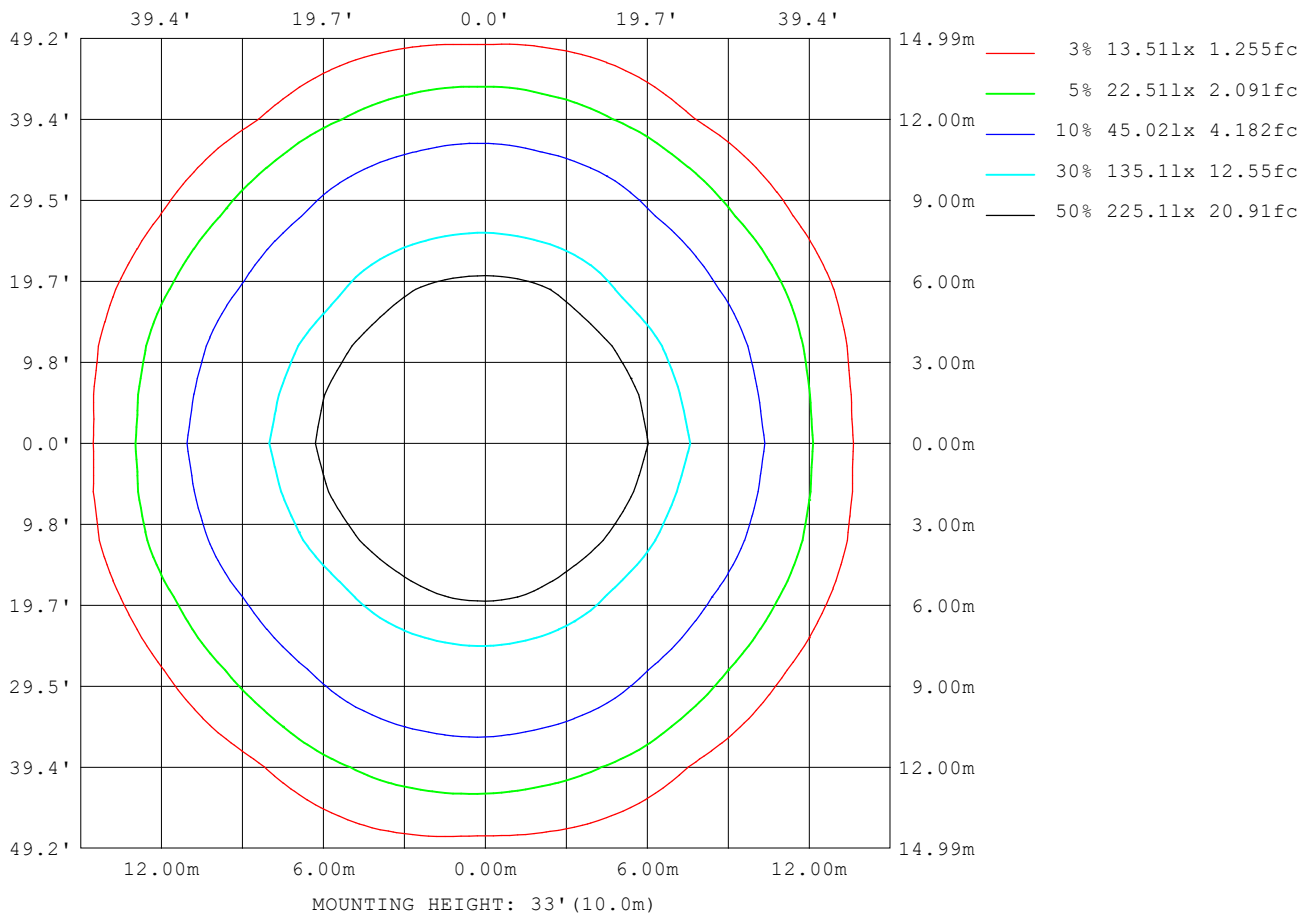
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
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:2025-4-15

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:121.85V I:4.1374A P:502.36W PF:0.9965 Freq:49.98Hz Lamp Flux:78273.1x1 lm		
NAME: ASD-UHB2A-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

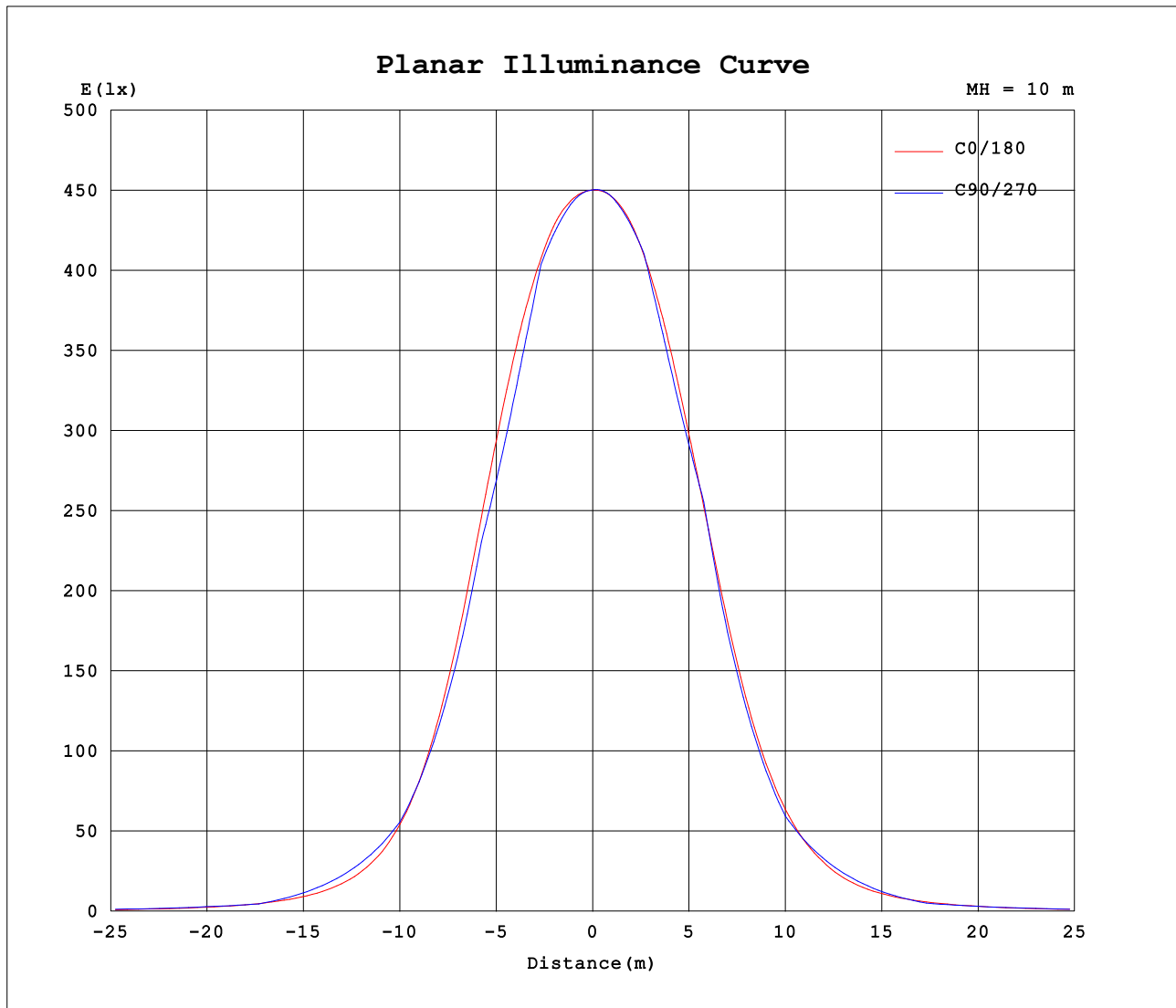
AvgL	cd/m2
L_0~180 (65) av	63302
L_0~180 (75) av	45893
L_0~180 (85) av	21296
L_90~270 (65) av	70188
L_90~270 (75) av	49649
L_90~270 (85) av	0
L_45 (65) av	72214
L_45 (75) av	48937
L_45 (85) av	0

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:2025-4-15

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:2025-4-15

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:

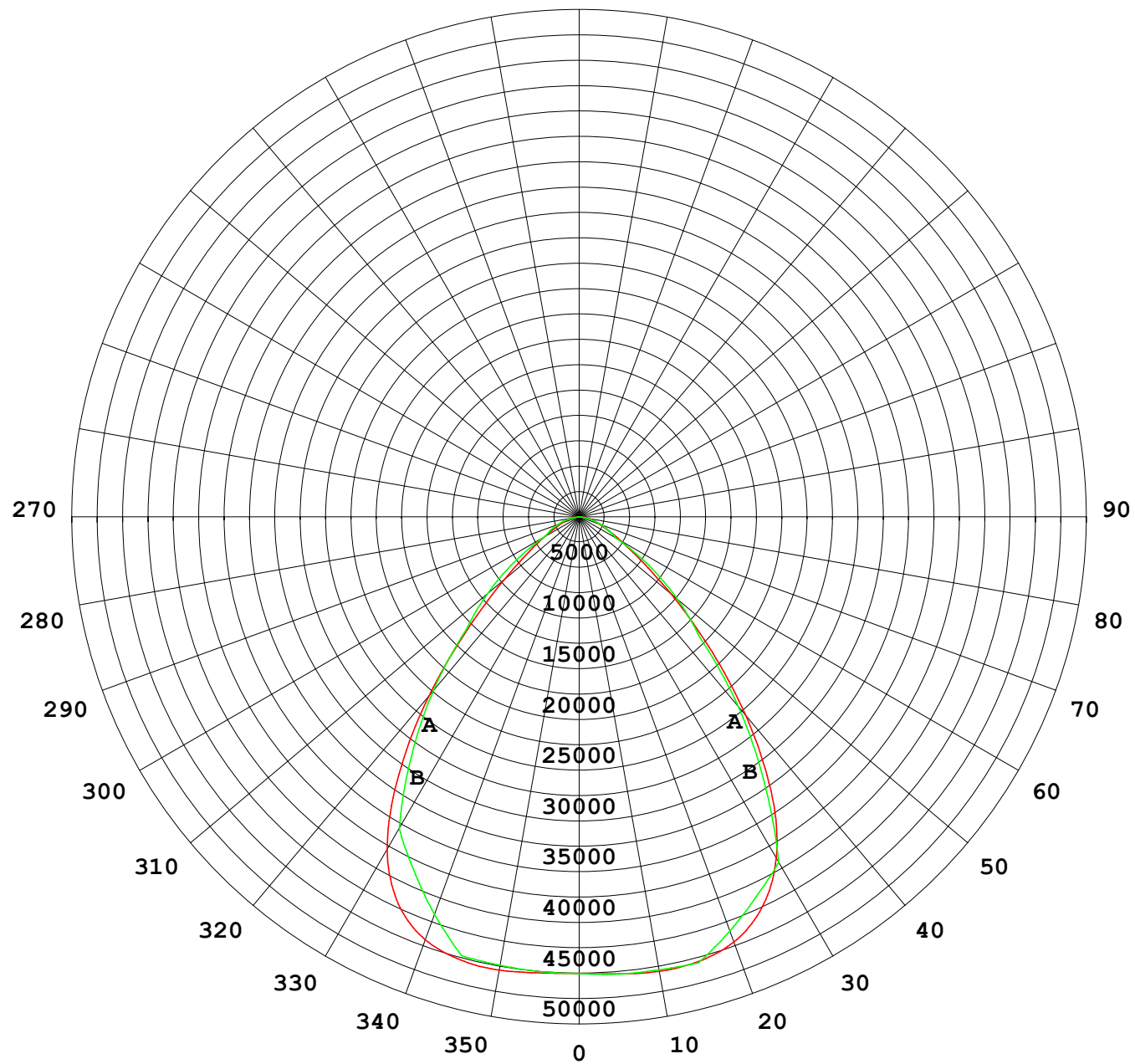
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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:

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:

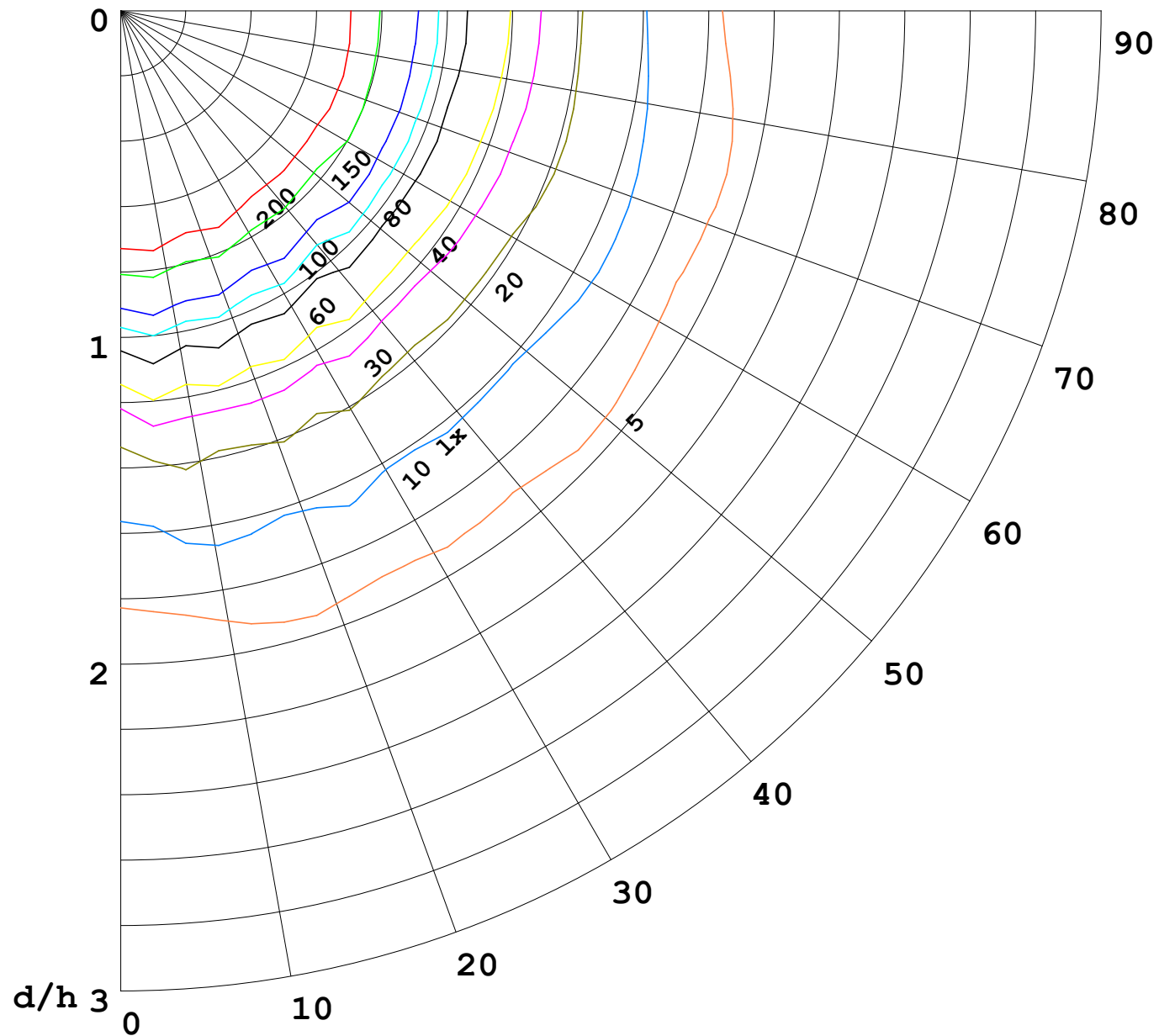
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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

