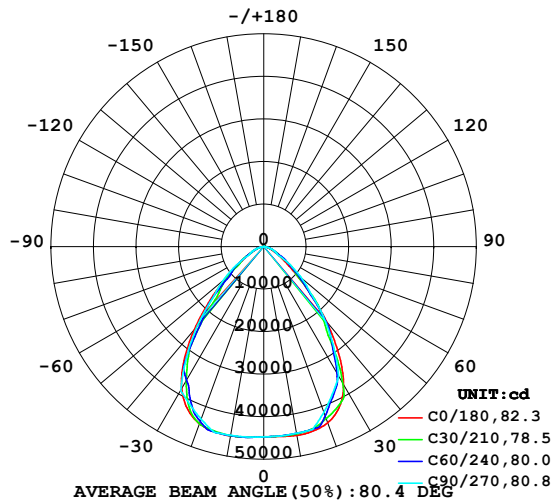


LUMINAIRE PHOTOMETRIC TEST REPORT

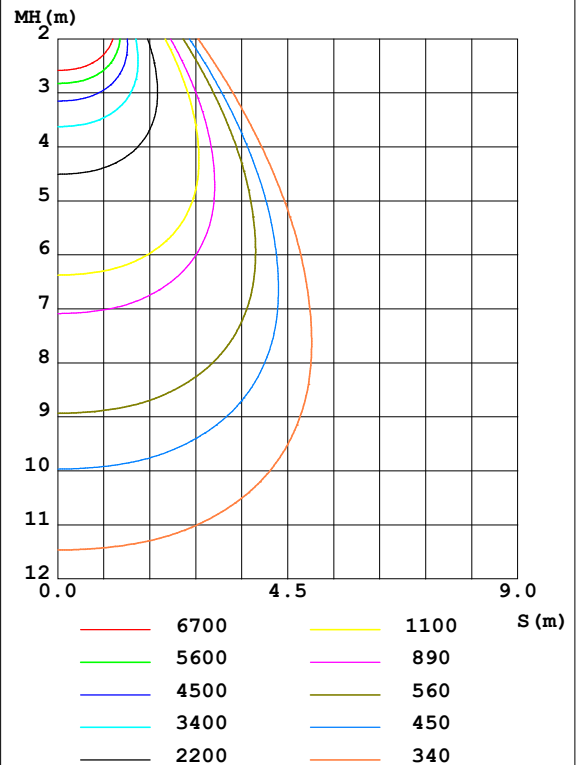
Test:U:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.48 lm/W			
MODEL	ASD-UHB2AHV-ST-500BK	I _{max} (cd)	45224	S/MH(C0/180)	1.20
NOMINAL POWER(W)	500	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	77718	η UP,DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	77718.4	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)	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:2025-4-15

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:

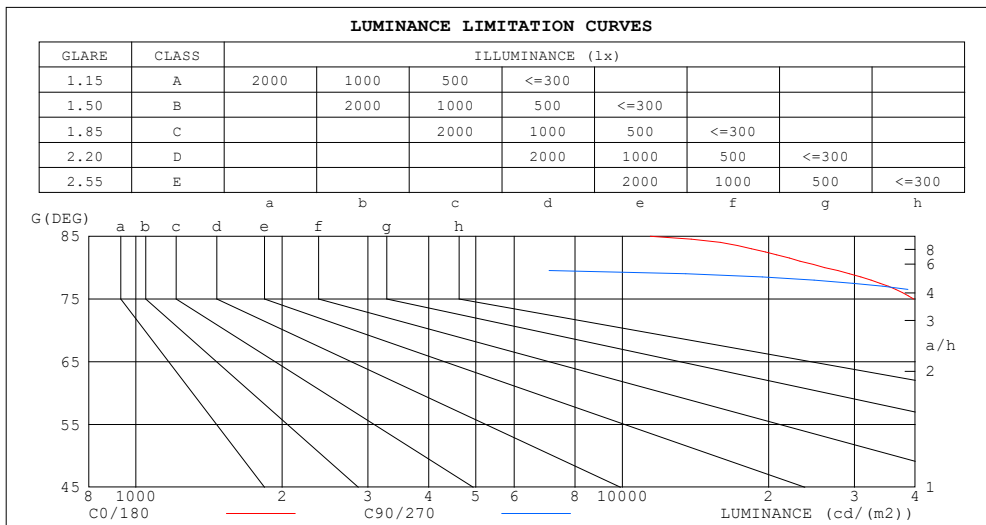
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4506	4459	4457	4471	4517	4515	4503	4500	0- 10	4281	4281	5.51,5.51
20	4405	4386	4142	4289	4430	4430	4315	4504	10- 20	12590	16871	21.7,21.7
30	3759	3430	3524	3338	3859	3561	3907	3708	20- 30	18552	35423	45.6,45.6
40	2285	1967	2221	2074	2536	2229	2423	2133	30- 40	18446	53869	69.3,69.3
50	956.7	976.7	1172	1074	1173	1129	1258	1042	40- 50	12316	66185	85.2,85.2
60	390.9	462.1	376.5	500.1	473.2	518.1	410.8	485.4	50- 60	6765	72950	93.9,93.9
70	178.1	206.6	217.2	205.1	212.5	210.9	227.0	214.5	60- 70	3258	76208	98.1,98.1
80	48.65	62.94	0	57.44	78.42	54.81	0	61.56	70- 80	1398	77606	99.9,99.9
90	4.388	0	0	0	2.096	0	0	0	80- 90	112.4	77718	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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11414	0
80	26073	0
75	39739	49789
70	48450	59107
65	57072	67579
60	72755	70070
55	98037	126944
50	138506	169674
45	200353	205969

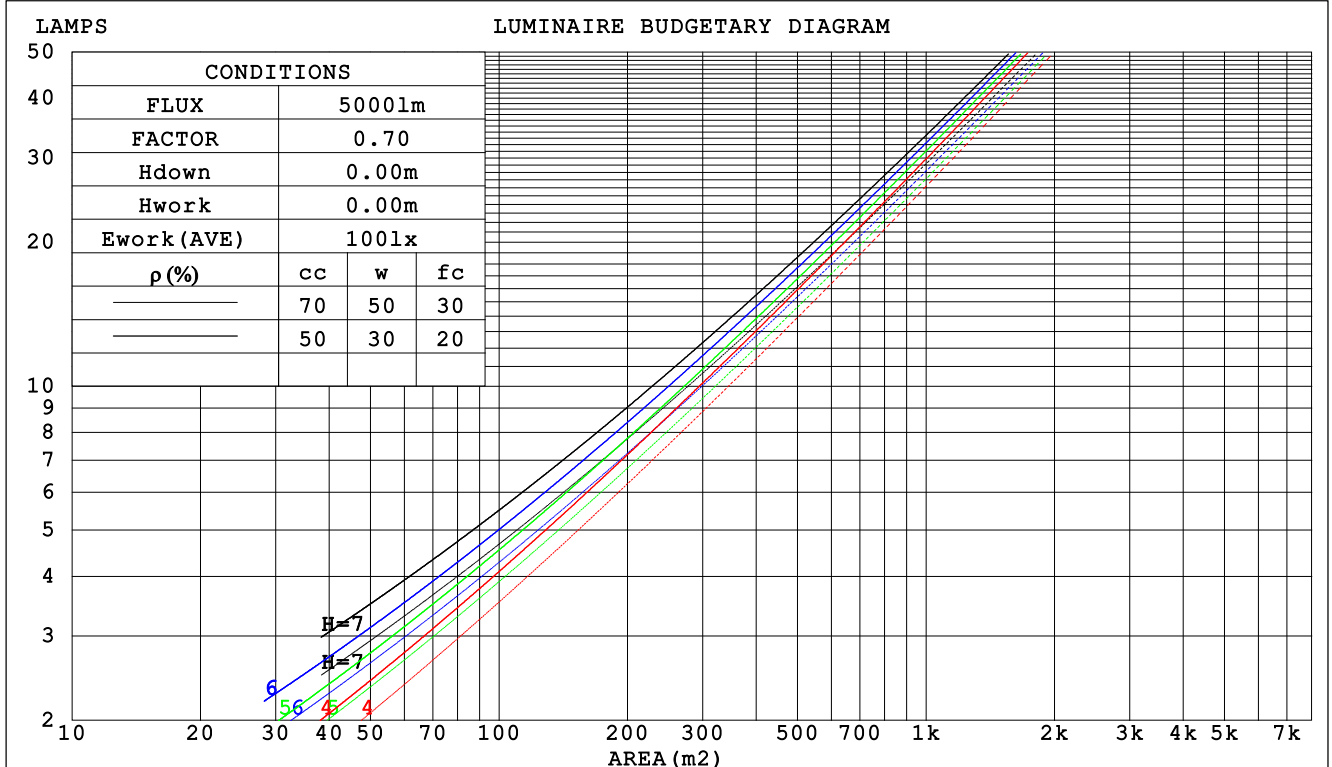
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz		
Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz		
Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz										
Lamp Flux:77718.4x1 lm										
NAME: ASD-UHB2AHV-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	26.8	28.1	28.4
3H	26.7	27.8	27.1	28.2	28.5	27.4	28.6	27.8	28.9	29.3
4H	26.9	28.0	27.3	28.4	28.7	27.7	28.8	28.1	29.1	29.5
6H	27.1	28.1	27.5	28.4	28.8	27.7	28.6	28.1	29.0	29.4
8H	27.1	28.0	27.5	28.4	28.8	27.6	28.5	28.0	28.9	29.3
12H	27.1	27.9	27.5	28.3	28.8	27.6	28.5	28.0	28.8	29.3
4H 2H	26.1	27.2	26.5	27.5	27.9	26.6	27.7	27.0	28.1	28.4
3H	27.2	28.1	27.6	28.5	28.9	27.7	28.6	28.2	29.0	29.4
4H	27.5	28.3	27.9	28.7	29.1	28.1	28.9	28.5	29.3	29.7
6H	27.7	28.4	28.2	28.8	29.3	28.1	28.8	28.6	29.2	29.7
8H	27.7	28.3	28.2	28.8	29.3	28.0	28.7	28.5	29.1	29.6
12H	27.7	28.2	28.2	28.7	29.2	28.0	28.5	28.5	29.0	29.5
8H 4H	27.6	28.2	28.1	28.7	29.1	28.1	28.8	28.6	29.2	29.7
6H	27.9	28.4	28.4	28.9	29.3	28.1	28.6	28.6	29.1	29.6
8H	27.9	28.3	28.4	28.9	29.3	28.1	28.5	28.6	29.0	29.5
12H	27.9	28.3	28.4	28.8	29.4	28.0	28.4	28.5	28.9	29.5
12H 4H	27.5	28.1	28.0	28.6	29.1	28.1	28.6	28.6	29.1	29.6
6H	27.8	28.3	28.3	28.7	29.3	28.1	28.6	28.6	29.0	29.6
8H	27.9	28.3	28.4	28.8	29.3	28.0	28.4	28.6	28.9	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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

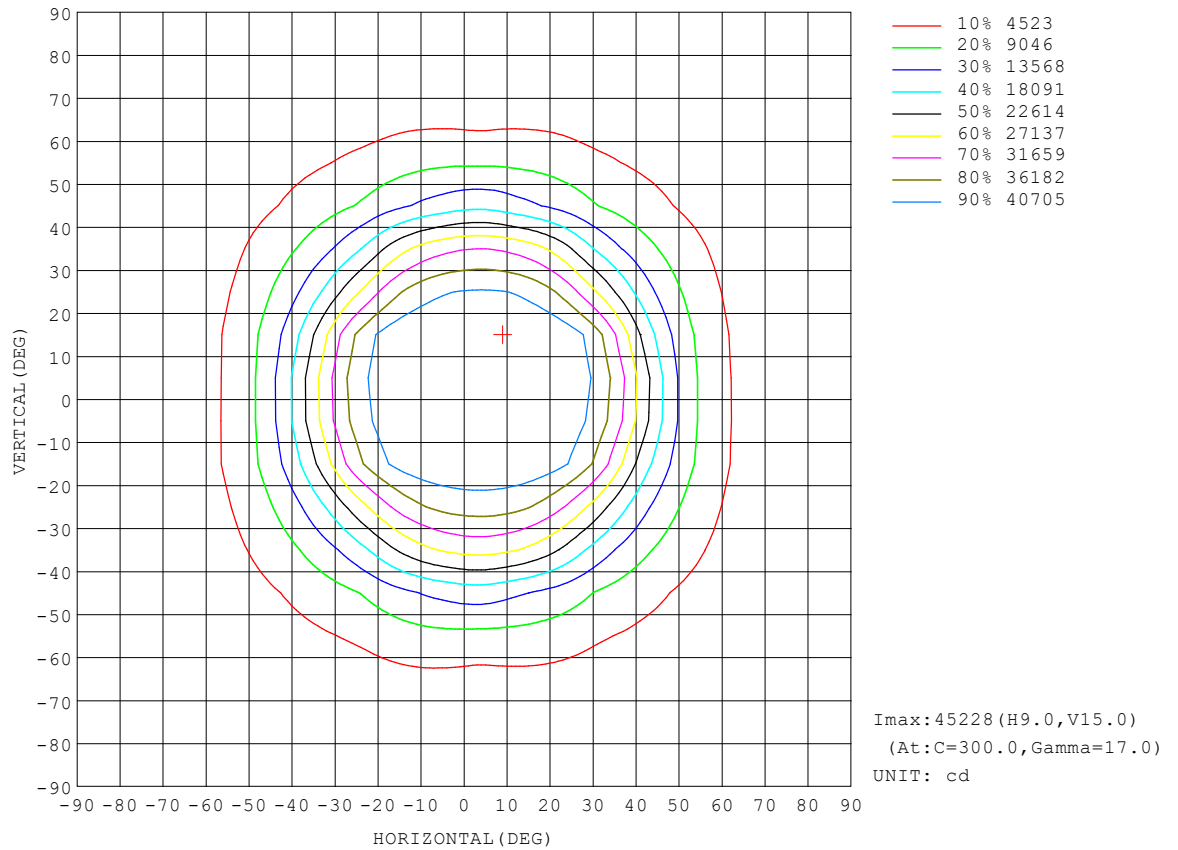
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	58	71	63	58	71	62	57	52
0.80	82	73	67	81	72	67	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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

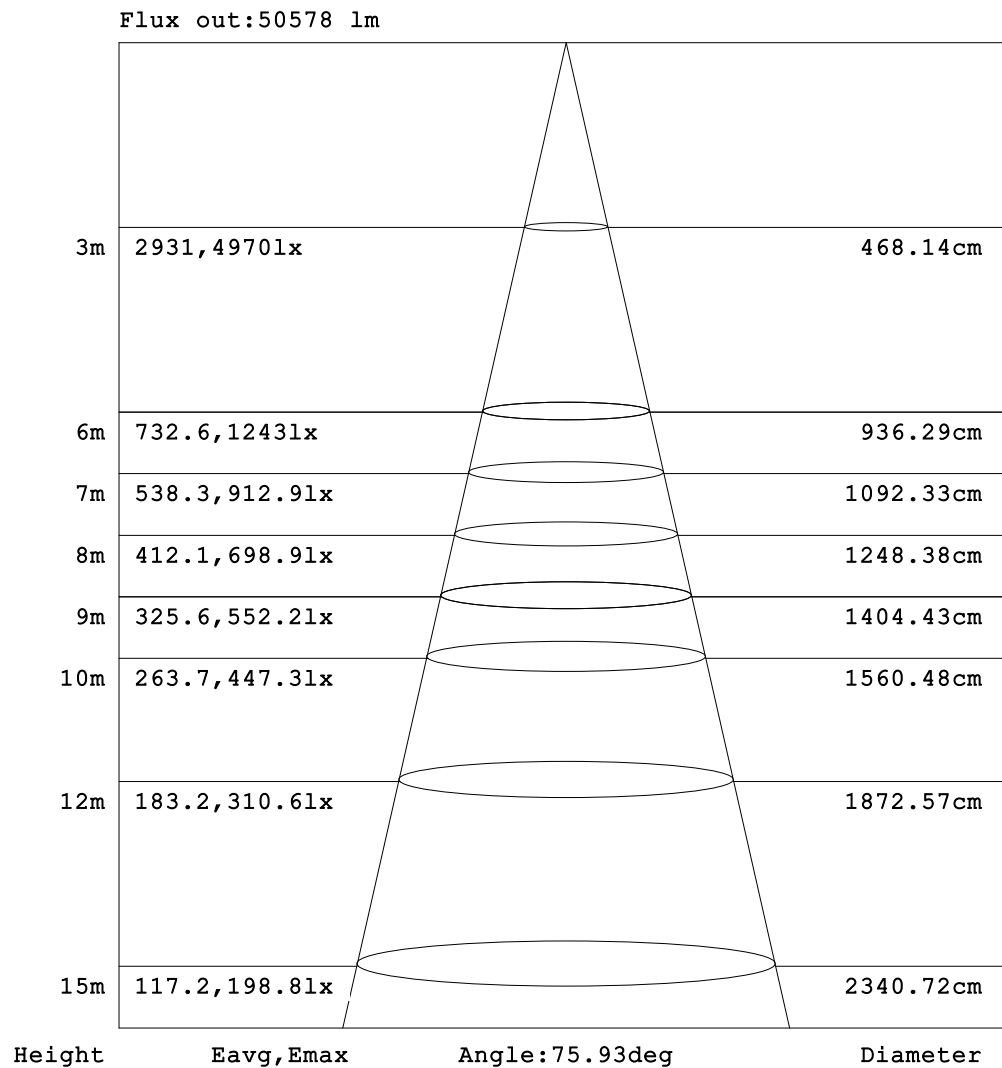


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		



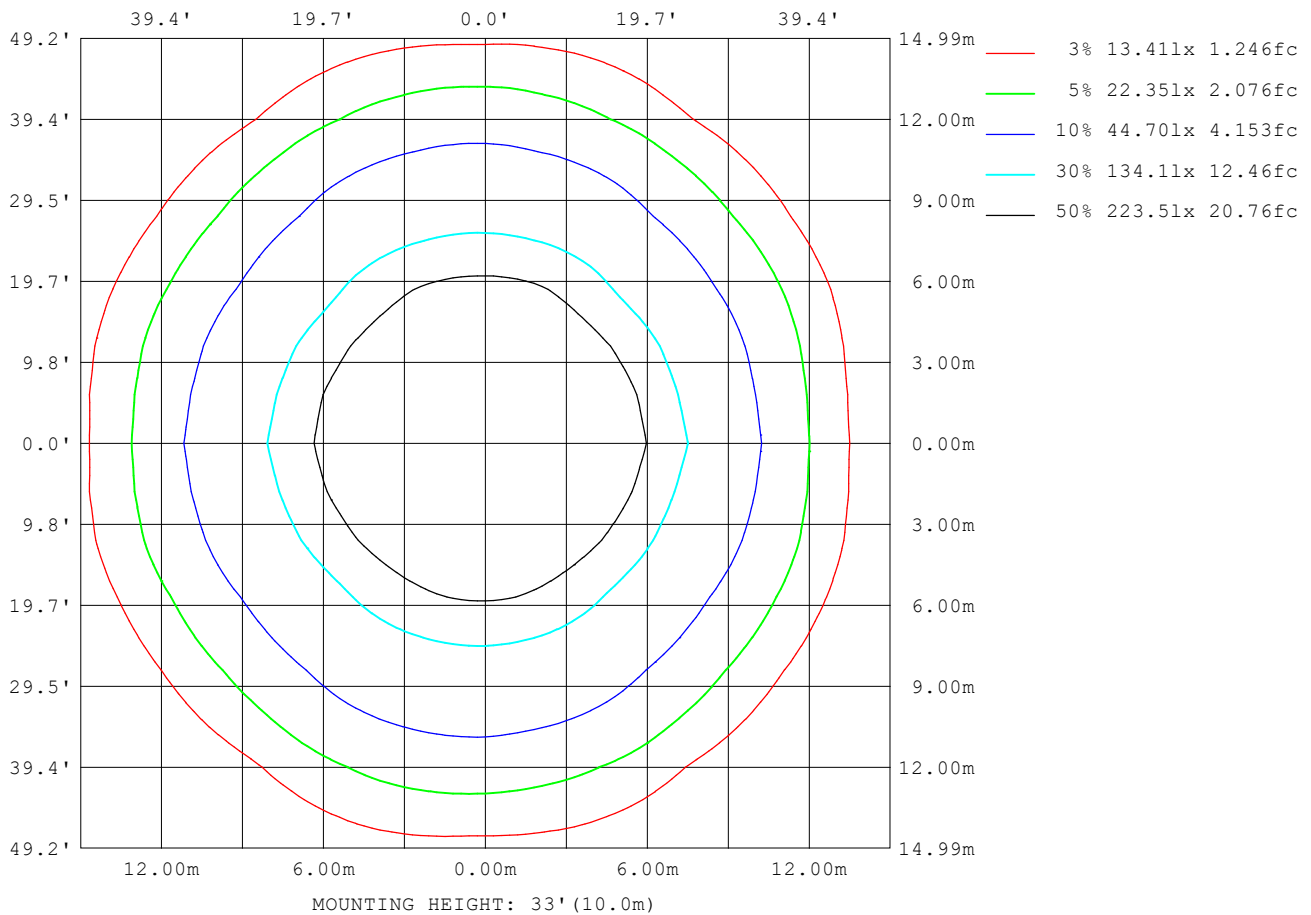
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-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:282.05V I:1.7901A P:503.10W PF:0.9965 Freq:49.98Hz Lamp Flux:77718.4x1 lm		
NAME: ASD-UHB2AHV-ST-500BK	TYPE: UHB2A ST	
SPEC.: 500W 5000K		
MFR.: ASD LIGHTING CORP		

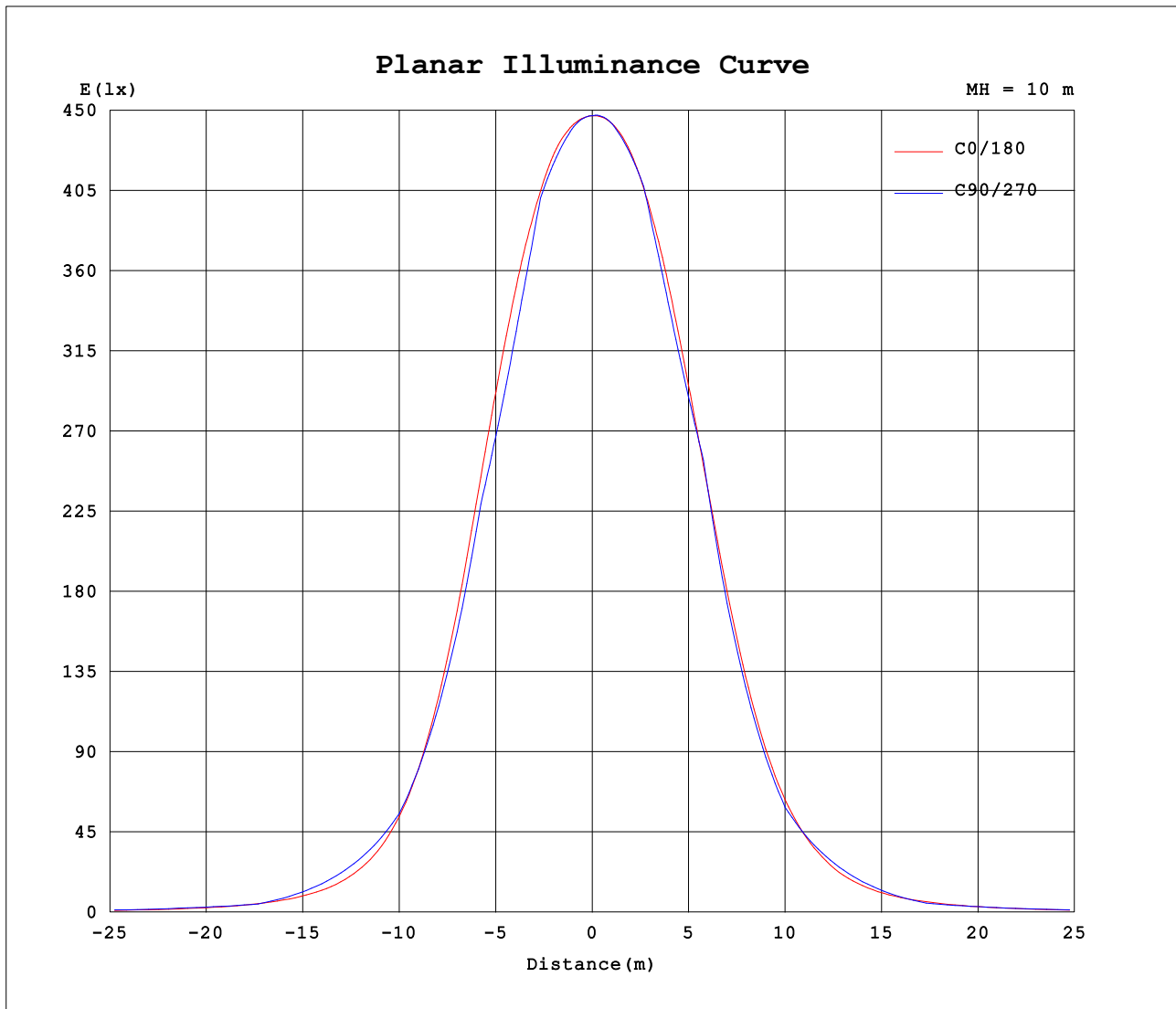
AvgL	cd/m2
L_0~180 (65) av	62853
L_0~180 (75) av	45568
L_0~180 (85) av	21145
L_90~270 (65) av	69690
L_90~270 (75) av	49297
L_90~270 (85) av	0
L_45 (65) av	71703
L_45 (75) av	48590
L_45 (85) av	0

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

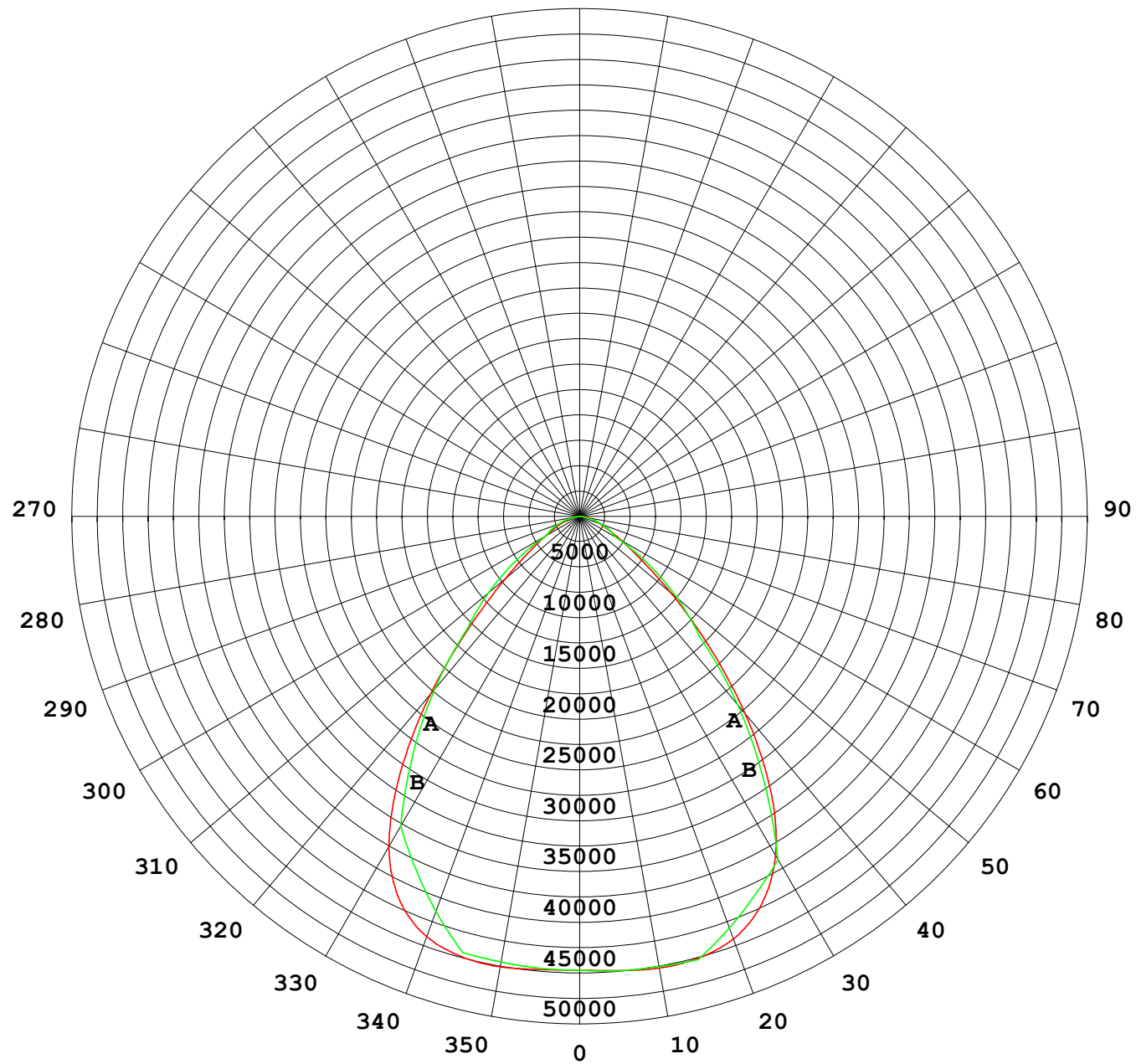
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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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]
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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:

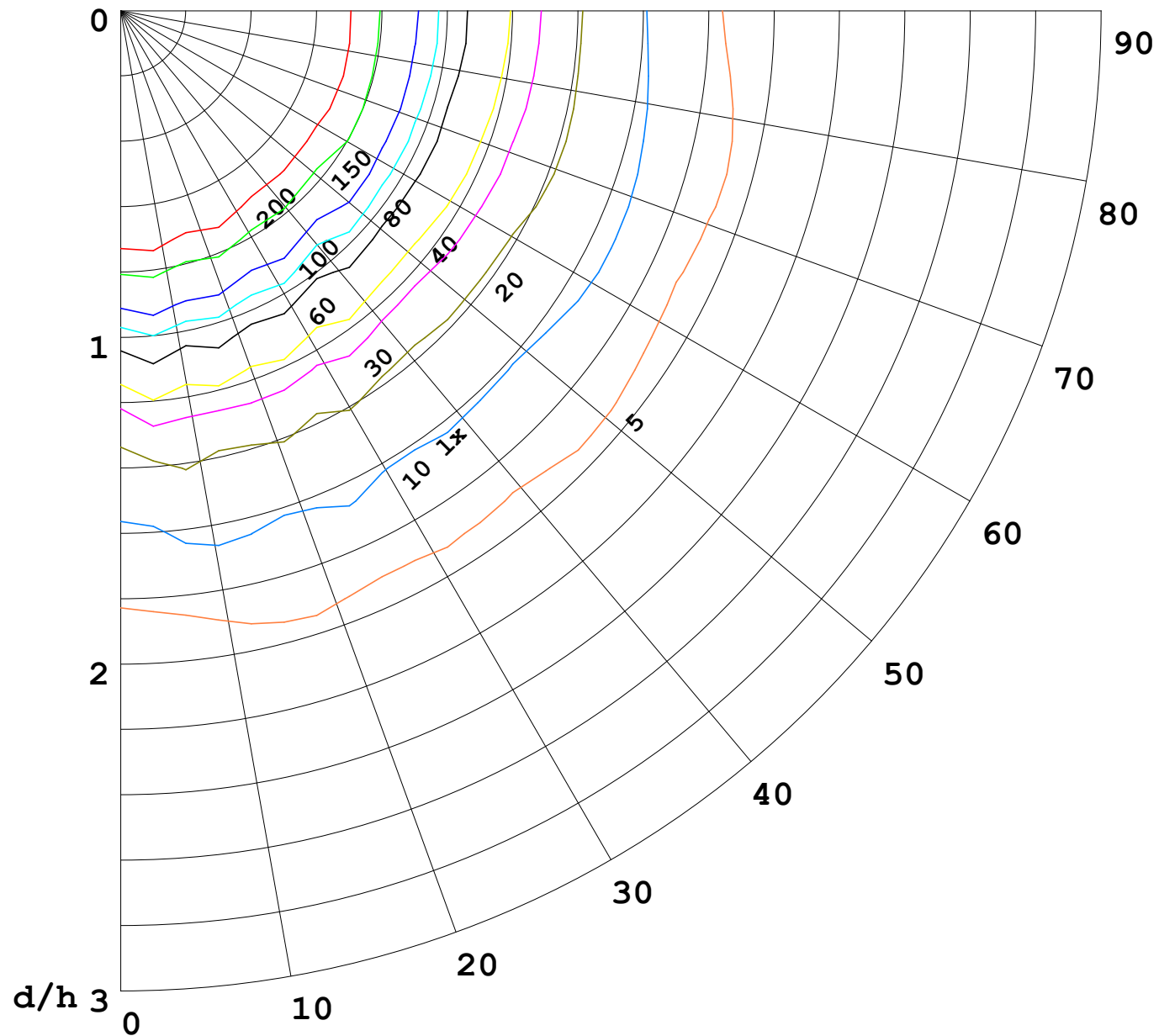
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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

