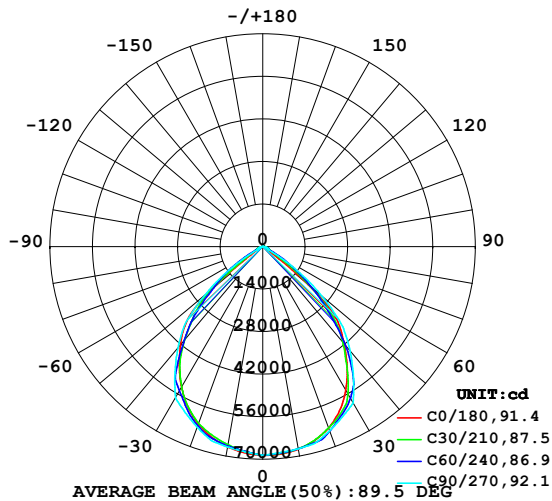


LUMINAIRE PHOTOMETRIC TEST REPORT

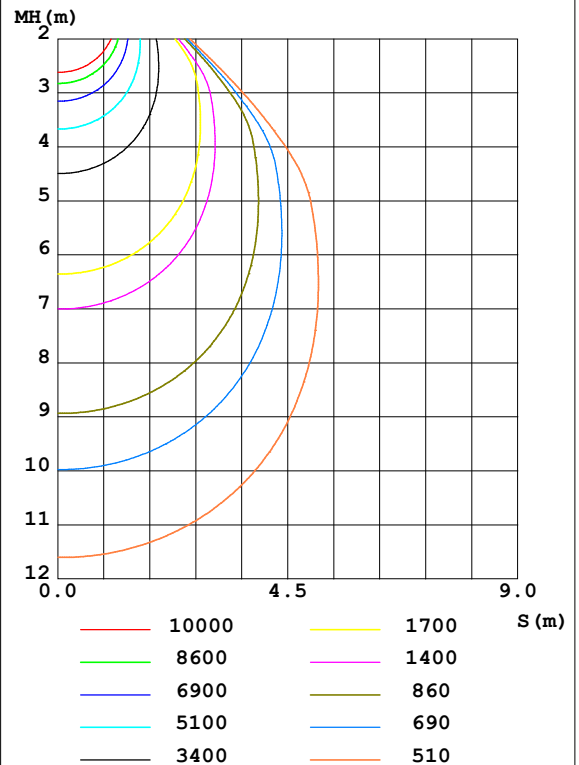
Test:U:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 5000K		
MFR.: ASD LIGHTING CORP		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.40 lm/W			
MODEL	ASD-UHB2AHV-ST-750BK	I _{max} (cd)	68667	S/MH(C0/180)	1.17
NOMINAL POWER(W)	750	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	120692	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	120692	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277	η down(%)	100.0	CIBSE SHR MAX	1.25

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:

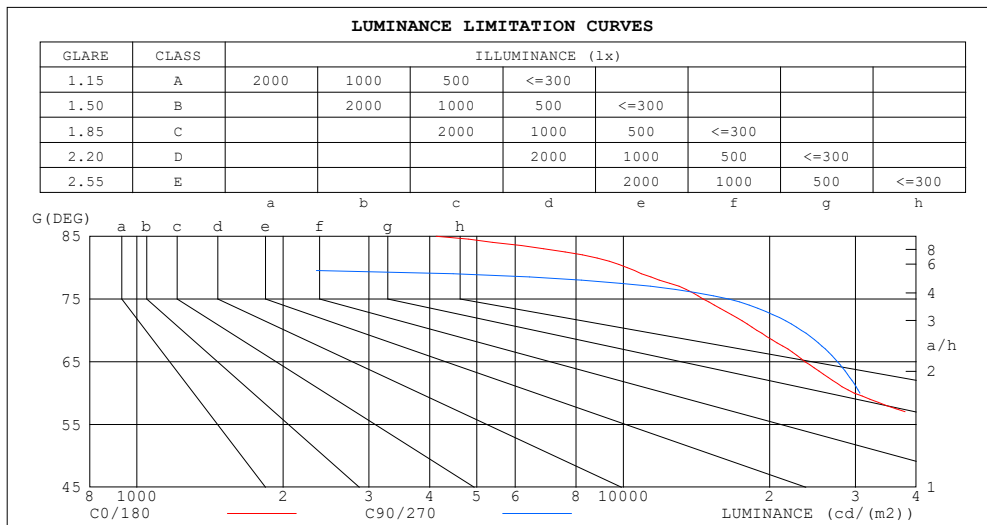
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	6768	6750	6755	6679	6693	6634	6693	6707	0- 10	6460	6460	5.35,5.35
20	6350	6481	6450	6322	6209	6238	6321	6396	10- 20	18496	24956	20.7,20.7
30	5467	5599	5948	5446	5346	5361	5746	5517	20- 30	27493	52450	43.5,43.5
40	4169	4235	4473	4190	4213	4140	4337	4217	30- 40	30702	83152	68.9,68.9
50	1963	1661	2568	1826	2227	1866	2498	1776	40- 50	24995	108147	89.6,89.6
60	226.0	358.3	232.4	401.9	262.7	393.4	230.6	359.4	50- 60	9495	117642	97.5,97.5
70	97.65	155.9	120.5	157.1	110.2	140.1	118.6	138.4	60- 70	2091	119732	99.2,99.2
80	26.83	53.98	0	54.67	29.69	44.14	0	43.27	70- 80	877.7	120610	99.9,99.9
90	3.997	0	0	0	0.6944	0	0	0	80- 90	81.69	120692	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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 5000K		
MFR.: ASD LIGHTING CORP		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4125	0
80	10191	0
75	14601	16477
70	18830	23244
65	23639	27579
60	29815	30655
55	48600	160814
50	201371	263496
45	327111	347918

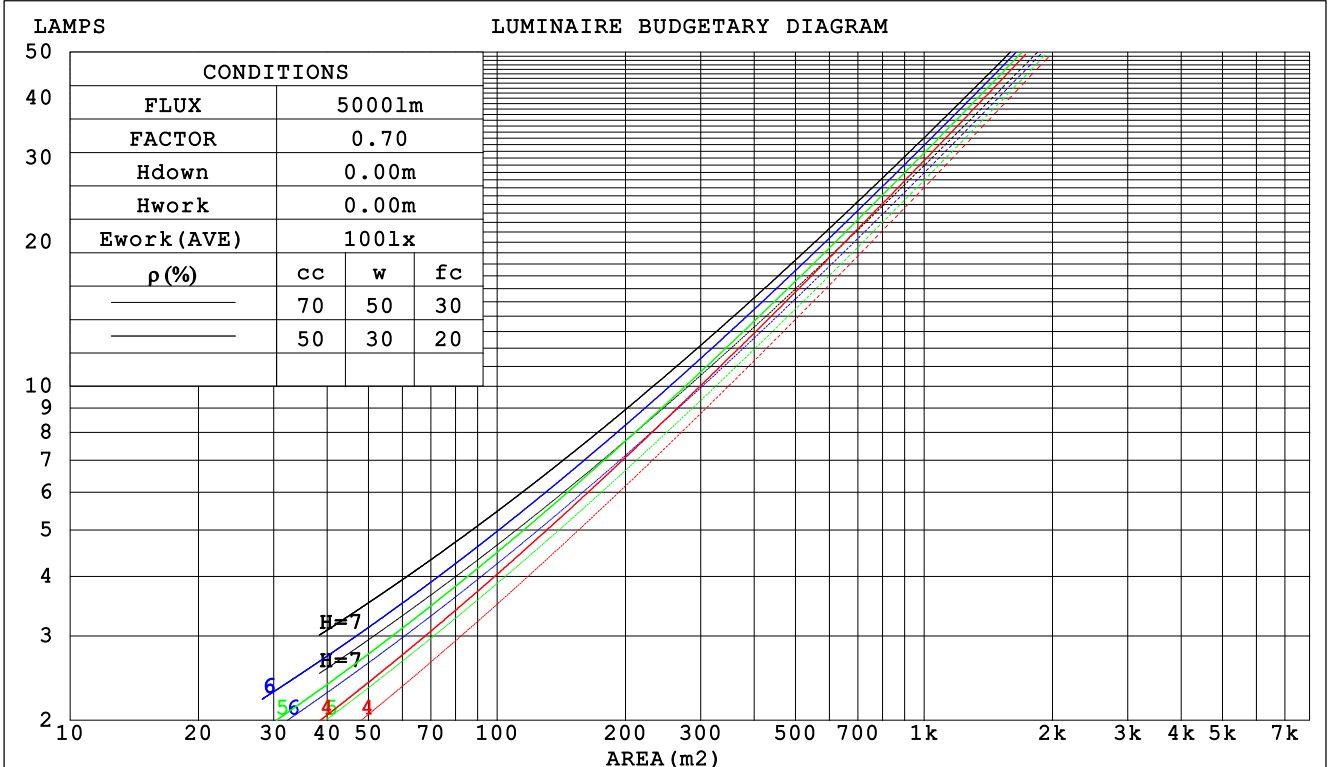
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz		
Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 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	1.09	1.06	1.03	1.07	1.04	1.01	1.02	1.00	.98	.99	.97	.95	.95	.94	.92	.91
2.0	.99	.94	.89	.97	.92	.88	.94	.90	.86	.90	.87	.85	.88	.85	.83	.81
3.0	.90	.83	.78	.88	.82	.78	.85	.81	.77	.83	.79	.75	.80	.77	.74	.72
4.0	.82	.75	.69	.80	.74	.69	.78	.73	.68	.76	.71	.67	.74	.70	.66	.65
5.0	.75	.67	.62	.73	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.60	.58
6.0	.68	.61	.56	.67	.60	.55	.66	.60	.55	.64	.59	.54	.63	.58	.54	.52
7.0	.63	.55	.50	.62	.55	.50	.61	.54	.50	.59	.54	.49	.58	.53	.49	.47
8.0	.58	.51	.46	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.49	.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	.47	.42	.38	.47	.41	.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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz		
Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 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	.217	.124	.039	.210	.120	.038	.198	.113	.036	.186	.107	.034	.175	.101	.033		
2.0	.213	.117	.036	.207	.114	.035	.196	.109	.034	.186	.104	.033	.176	.100	.031		
3.0	.204	.109	.033	.199	.107	.032	.189	.103	.031	.181	.099	.030	.172	.095	.030		
4.0	.195	.101	.030	.190	.099	.029	.182	.096	.029	.174	.093	.028	.167	.091	.028		
5.0	.185	.094	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026	.160	.086	.026		
6.0	.176	.088	.025	.172	.087	.025	.166	.085	.025	.159	.083	.024	.154	.081	.024		
7.0	.167	.083	.023	.164	.082	.023	.158	.080	.023	.152	.078	.023	.147	.076	.022		
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	.144	.071	.020	.139	.070	.020	.135	.069	.020		
10.0	.144	.069	.019	.142	.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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.108	.138	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.084	.130	.098	.072	.089	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.143	.100	.066	.123	.086	.058	.085	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.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:2025-4-15

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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz										
Lamp Flux:120692x1 lm										
NAME: ASD-UHB2AHV-ST-750BK					TYPE: UHB2A ST					
SPEC.: 750W 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	19.7	21.0	20.1	21.3	21.6	26.1	27.4	26.4	27.7	28.0
3H	20.4	21.5	20.7	21.8	22.2	26.1	27.2	26.5	27.6	27.9
4H	20.5	21.6	20.9	21.9	22.3	26.1	27.1	26.5	27.5	27.9
6H	20.6	21.5	21.0	21.9	22.3	26.0	27.0	26.4	27.4	27.7
8H	20.6	21.5	21.0	21.9	22.3	26.0	26.9	26.4	27.3	27.7
12H	20.5	21.4	21.0	21.8	22.2	25.9	26.8	26.4	27.2	27.6
4H 2H	20.2	21.3	20.6	21.6	22.0	26.0	27.0	26.4	27.4	27.8
3H	21.3	22.1	21.7	22.5	22.9	26.1	26.9	26.5	27.3	27.7
4H	21.5	22.3	22.0	22.7	23.2	26.1	26.8	26.5	27.2	27.7
6H	21.7	22.3	22.2	22.8	23.3	26.0	26.7	26.5	27.1	27.6
8H	21.7	22.3	22.1	22.7	23.2	25.9	26.6	26.4	27.0	27.5
12H	21.6	22.2	22.1	22.7	23.1	25.9	26.4	26.4	26.9	27.4
8H 4H	21.8	22.4	22.2	22.8	23.3	26.0	26.6	26.5	27.1	27.6
6H	22.1	22.6	22.6	23.1	23.5	25.9	26.4	26.4	26.9	27.4
8H	22.1	22.6	22.6	23.1	23.6	25.9	26.3	26.4	26.8	27.3
12H	22.1	22.5	22.6	23.0	23.6	25.8	26.2	26.3	26.7	27.3
12H 4H	21.7	22.2	22.2	22.7	23.2	26.0	26.5	26.5	27.0	27.5
6H	22.0	22.5	22.6	23.0	23.5	25.9	26.4	26.4	26.8	27.4
8H	22.1	22.5	22.6	23.0	23.6	25.8	26.2	26.4	26.7	27.3
CIE190: 2010										

CIE190: 2010
Area: 0.15163 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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz		
Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 5000K		
MFR.: ASD LIGHTING CORP		

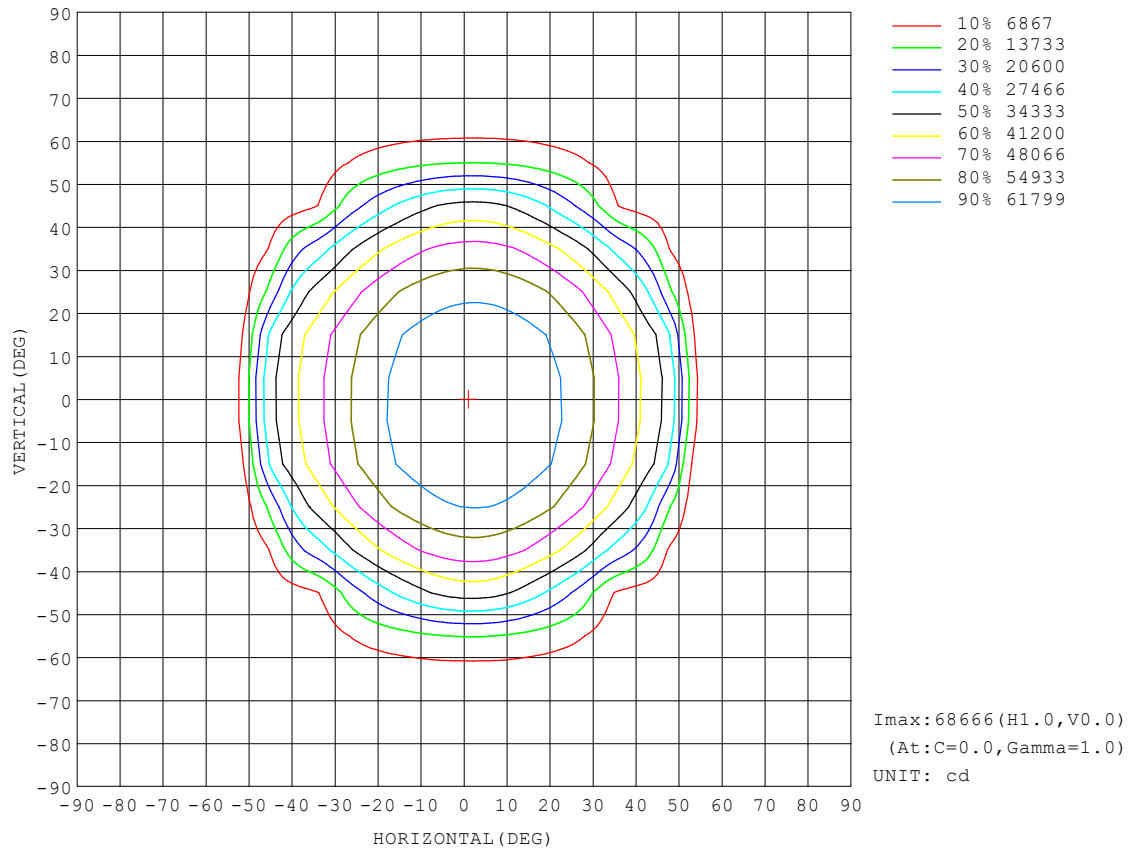
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	62	57	71	62	57	70	62	57	52
0.80	81	73	67	81	72	67	79	72	67	61
1.00	89	81	76	88	81	76	86	81	75	70
1.25	95	88	83	94	87	82	92	86	82	76
1.50	99	92	88	98	92	87	95	90	86	80
2.00	104	98	94	102	97	93	99	95	92	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	107	102	99	103	100	97	90
4.00	111	107	104	109	105	103	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	94
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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 5000K		
MFR.: ASD LIGHTING CORP		

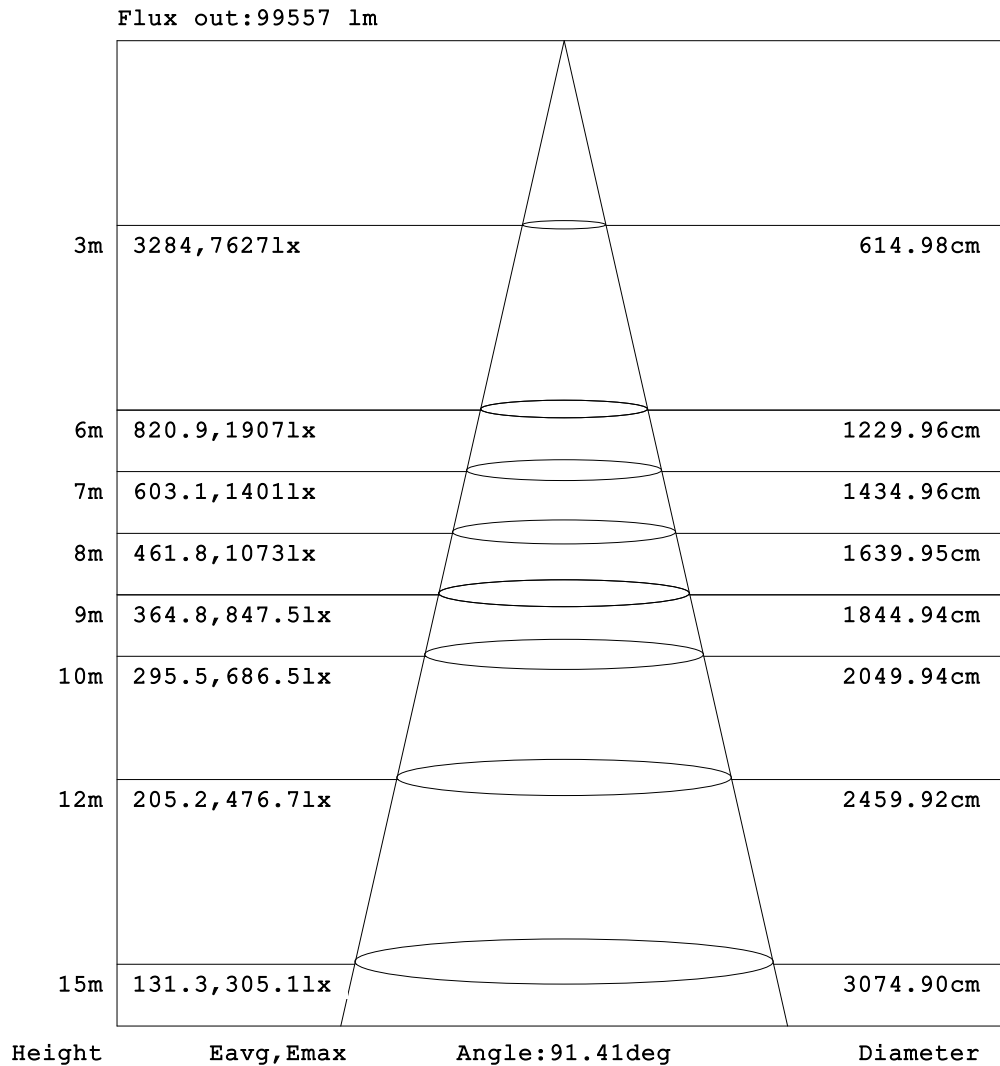


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:2025-4-15

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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 5000K		
MFR.: ASD LIGHTING CORP		



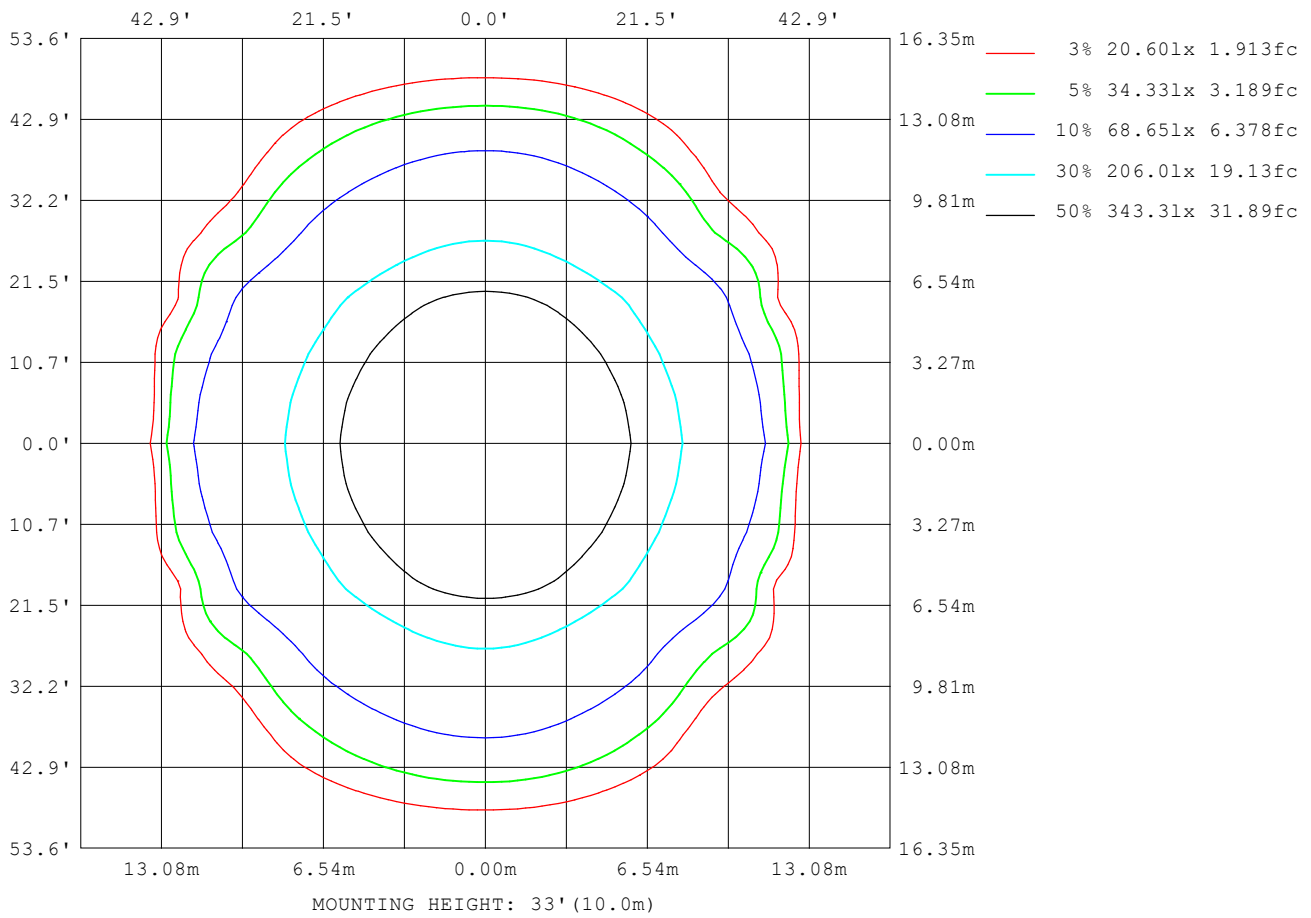
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 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:276.93V I:2.7091A P:743.19W PF:0.9906 Freq:50.01Hz Lamp Flux:120692x1 lm		
NAME: ASD-UHB2AHV-ST-750BK	TYPE: UHB2A ST	
SPEC.: 750W 5000K		
MFR.: ASD LIGHTING CORP		

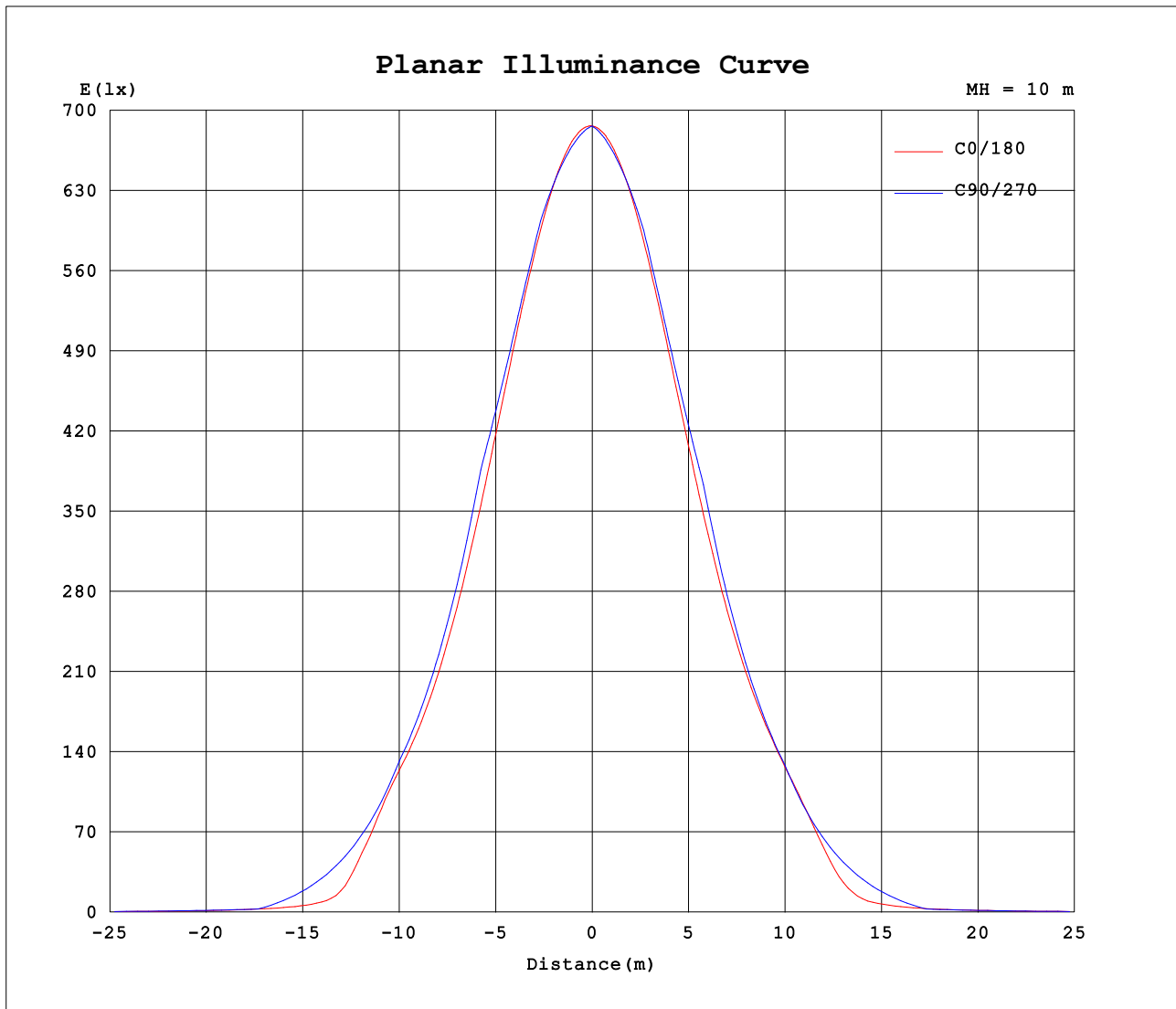
AvgL	cd/m2
L_0~180 (65) av	25062
L_0~180 (75) av	15585
L_0~180 (85) av	3927
L_90~270 (65) av	27444
L_90~270 (75) av	16197
L_90~270 (85) av	0
L_45 (65) av	35783
L_45 (75) av	25627
L_45 (85) av	0

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:

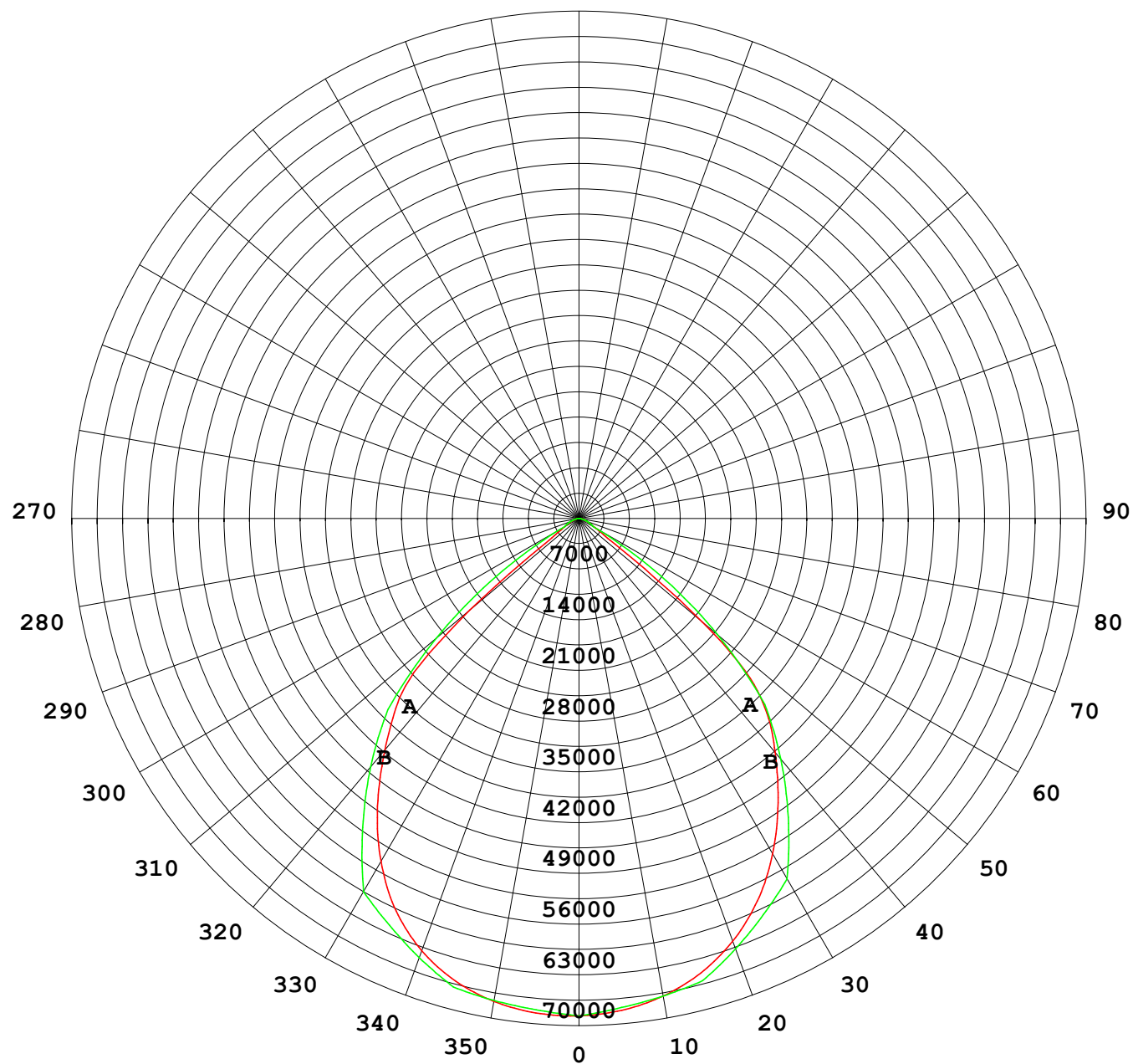
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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:

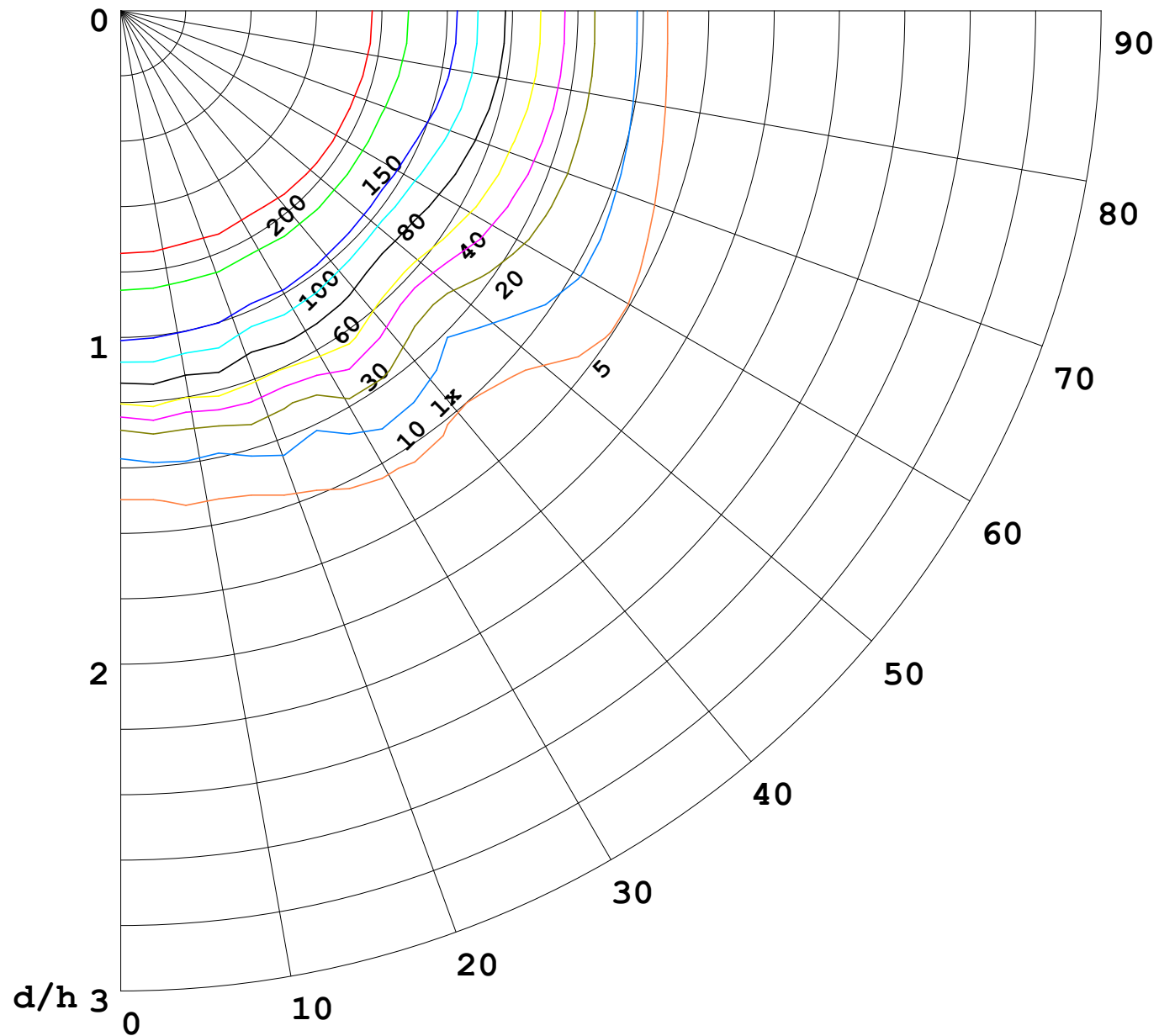
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

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

