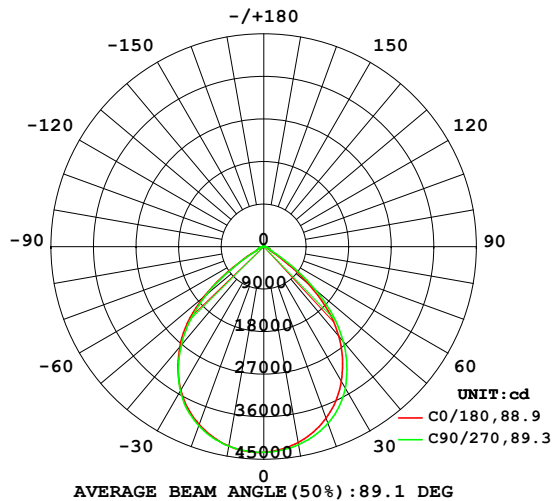


LUMINAIRE PHOTOMETRIC TEST REPORT

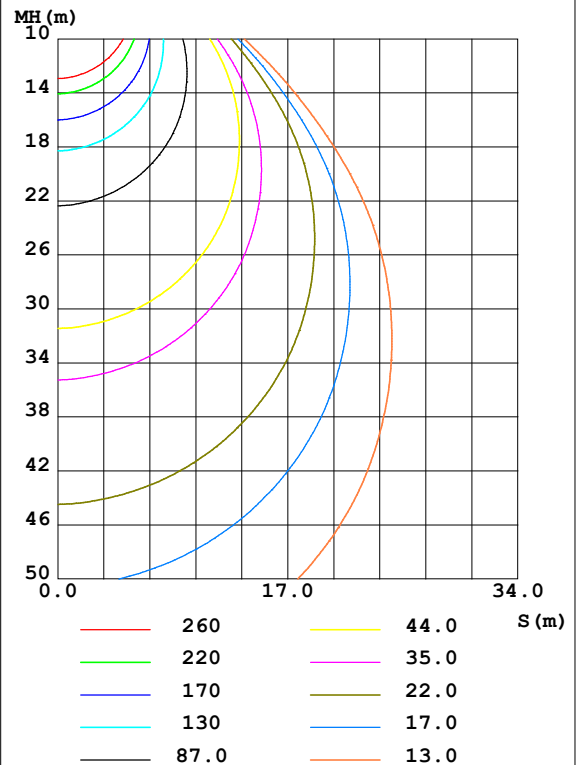
Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm		
NAME: ASD-WHB5BHV-ST-500	TYPE:	WEIGHT:
SPEC.:500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.89 lm/W			
MODEL	ASD-WHB5BHV-ST-500	I _{max} (cd)	43555	S/MH(C0/180)	1.20
NOMINAL POWER(W)	500	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	200	TOTAL FLUX(lm)	78609	□ UP,DN(C0-180)	0.3,48.4
NOMINAL FLUX(lm)	78608.5	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.4,50.9
LAMPS INSIDE	1	□ up(%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	200	□ down(%)	99.3	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-05-28

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	4206	4214	4252	4268	4280	4288	4285	4242	0- 10	4106	4106	5.22,5.22
20	3859	3888	3974	3996	4002	4023	4029	3942	10- 20	11652	15759	20,20
30	3288	3320	3453	3482	3511	3520	3530	3392	20- 30	17161	32920	41.9,41.9
40	2468	2512	2617	2702	2768	2733	2715	2562	30- 40	19085	52005	66.2,66.2
50	1248	1343	1439	1569	1661	1618	1591	1435	40- 50	16129	68134	86.7,86.7
60	160.1	243.7	245.9	373.8	308.8	328.5	245.9	256.2	50- 60	7197	75330	95.8,95.8
70	102.2	111.3	120.9	139.6	125.9	145.5	124.1	115.6	60- 70	1631	76962	97.9,97.9
80	33.61	41.18	48.57	50.83	49.87	54.46	53.82	43.77	70- 80	891.0	77853	99,99
90	0.7911	0.7246	0.6351	0.9970	1.865	1.422	2.126	1.178	80- 90	222.2	78075	99.3,99.3
100	1.034	1.042	1.097	0.9832	1.589	1.894	2.257	2.354	90-100	11.45	78087	99.3,99.3
110	2.407	2.370	2.469	2.262	4.250	4.685	5.309	5.474	100-110	26.18	78113	99.4,99.4
120	4.623	4.500	4.642	4.366	8.592	8.992	9.619	9.879	110-120	51.54	78164	99.4,99.4
130	7.194	7.151	7.374	6.974	13.23	13.42	13.92	14.16	120-130	77.48	78242	99.5,99.5
140	10.27	10.35	10.54	10.01	17.05	17.17	17.61	17.84	130-140	93.67	78335	99.7,99.7
150	14.54	14.65	14.81	13.88	20.47	20.31	20.77	20.97	140-150	97.94	78433	99.8,99.8
160	19.32	19.17	19.26	18.42	23.19	22.69	23.16	23.21	150-160	89.14	78523	99.9,99.9
170	23.09	22.50	22.76	22.11	24.76	24.03	24.53	24.31	160-170	63.08	78586	100,100
180	24.82	24.14	24.66	24.15	24.82	24.13	24.65	24.14	170-180	22.89	78609	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 60823 lm

%lum = 77.4%

%lamp = 77.4%

Conical surface Flux(120deg): 75330 lm

%lum = 95.8%

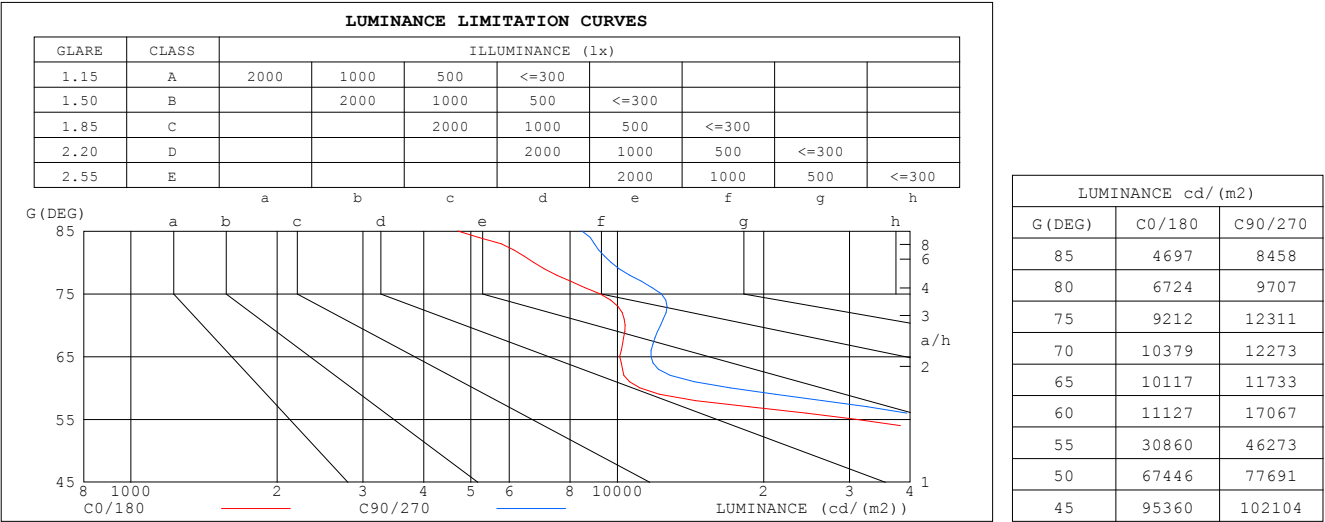
%lamp = 95.8%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-05-28

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm		
NAME: ASD-WHB5BHV-ST-500	TYPE:	WEIGHT:
SPEC.:500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm					
NAME: ASD-WHB5BHV-ST-500			TYPE:		WEIGHT:
SPEC.:500W-5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp.			SUR.:0.9*0.32		Shielding Angle:

☐ cc	80%			70%			50%			30%			10%			0														
☐ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
☐ fc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients (WEC)														
0.0																														
1.0	.225	.128	.040	.218	.124	.039	.205	.117	.037	.192	.111	.036	.181	.105	.034															
2.0	.219	.120	.037	.213	.117	.036	.201	.112	.035	.191	.107	.034	.181	.102	.032															
3.0	.209	.111	.033	.204	.109	.033	.194	.105	.032	.185	.101	.031	.176	.098	.030															
4.0	.199	.103	.030	.194	.102	.030	.185	.098	.029	.177	.095	.029	.170	.092	.028															
5.0	.189	.096	.028	.184	.095	.028	.177	.092	.027	.169	.089	.027	.163	.087	.026															
6.0	.179	.090	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024															
7.0	.169	.084	.024	.166	.083	.024	.160	.081	.023	.154	.079	.023	.149	.077	.023															
8.0	.161	.079	.022	.158	.078	.022	.152	.076	.022	.147	.074	.021	.142	.073	.021															
9.0	.153	.074	.021	.150	.073	.021	.145	.072	.020	.140	.070	.020	.136	.069	.020															
10.0	.145	.070	.019	.143	.069	.019	.138	.068	.019	.134	.067	.019	.130	.065	.019															

☐ cc	80%			70%			50%			30%			10%			0
☐ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
☐ fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.196	.196	.196	.167	.167	.167	.114	.114	.114	.066	.066	.066	.021	.021	.021	
1.0	.180	.162	.146	.154	.139	.126	.105	.096	.087	.061	.055	.051	.019	.018	.016	
2.0	.168	.138	.112	.144	.118	.097	.098	.082	.068	.057	.048	.040	.018	.015	.013	
3.0	.158	.119	.088	.135	.103	.076	.093	.071	.054	.054	.042	.032	.017	.014	.010	
4.0	.150	.105	.071	.128	.091	.062	.088	.063	.044	.051	.037	.026	.016	.012	.008	
5.0	.142	.094	.059	.122	.082	.051	.084	.057	.036	.049	.033	.021	.016	.011	.007	
6.0	.136	.086	.050	.117	.074	.043	.080	.052	.031	.047	.031	.018	.015	.010	.006	
7.0	.130	.078	.043	.112	.068	.037	.077	.048	.026	.045	.028	.016	.014	.009	.005	
8.0	.124	.073	.037	.107	.063	.032	.074	.044	.023	.043	.026	.014	.014	.009	.005	
9.0	.119	.068	.033	.102	.059	.029	.071	.041	.020	.041	.024	.012	.013	.008	.004	
10.0	.114	.063	.030	.098	.055	.026	.068	.039	.018	.040	.023	.011	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm										
NAME: ASD-WHB5BHV-ST-500					TYPE:			WEIGHT:		
SPEC.:500W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.9*0.32			Shielding Angle:		
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	25.0	26.2	25.2	26.4	26.6	25.5	26.7	25.7	26.9	27.1
3H	24.9	26.0	25.2	26.2	26.5	25.4	26.5	25.7	26.7	27.0
4H	24.8	25.9	25.1	26.1	26.4	25.4	26.4	25.7	26.7	26.9
6H	24.8	25.8	25.1	26.0	26.3	25.3	26.3	25.7	26.6	26.9
8H	24.7	25.7	25.1	26.0	26.3	25.3	26.3	25.6	26.5	26.8
12H	24.7	25.6	25.0	25.9	26.2	25.3	26.2	25.6	26.5	26.8
4H 2H	24.8	25.9	25.1	26.1	26.4	25.3	26.3	25.6	26.6	26.8
3H	24.8	25.7	25.1	26.0	26.3	25.3	26.2	25.6	26.5	26.8
4H	24.8	25.6	25.1	25.9	26.2	25.3	26.1	25.6	26.4	26.8
6H	24.7	25.5	25.1	25.8	26.2	25.3	26.0	25.7	26.4	26.7
8H	24.7	25.4	25.1	25.8	26.1	25.3	25.9	25.7	26.3	26.7
12H	24.7	25.3	25.1	25.7	26.1	25.2	25.9	25.7	26.2	26.7
8H 4H	24.7	25.4	25.1	25.7	26.1	25.2	25.8	25.6	26.2	26.6
6H	24.7	25.2	25.1	25.6	26.1	25.2	25.8	25.7	26.2	26.6
8H	24.7	25.2	25.1	25.6	26.0	25.2	25.7	25.7	26.1	26.6
12H	24.6	25.1	25.1	25.5	26.0	25.2	25.6	25.7	26.1	26.6
12H 4H	24.6	25.3	25.1	25.6	26.1	25.1	25.7	25.6	26.1	26.5
6H	24.7	25.1	25.1	25.6	26.0	25.2	25.7	25.6	26.1	26.5
8H	24.6	25.1	25.1	25.5	26.0	25.2	25.6	25.7	26.1	26.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.1 / - 4.5					+ 1.7 / - 3.0				
1.5H	+ 1.1 / - 3.1					+ 1.0 / - 2.6				
2.0H	+ 4.3 / - 6.3					+ 3.9 / - 5.8				

CIE Pub.117, 78609 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 15.2$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm		
NAME: ASD-WHB5BHV-ST-500	TYPE:	WEIGHT:
SPEC.:500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

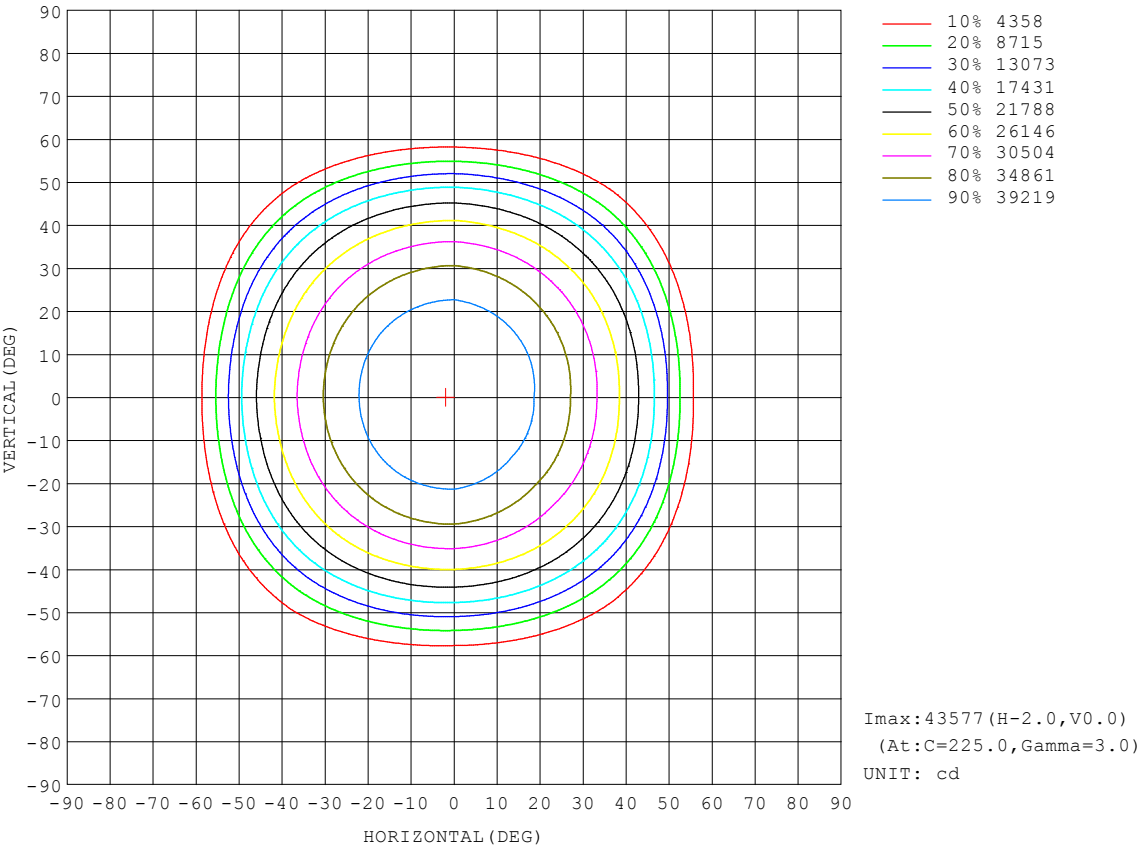
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	55	68	60	54	49
0.80	80	71	65	79	70	65	77	70	65	59
1.00	88	79	74	87	79	74	85	79	73	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	96	92	98	94	90	84
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	99	96	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	108	106	110	106	104	105	103	101	92
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu-1
 Test Date: 2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 8.340m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm		
NAME: ASD-WHB5BHV-ST-500	TYPE:	WEIGHT:
SPEC.:500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

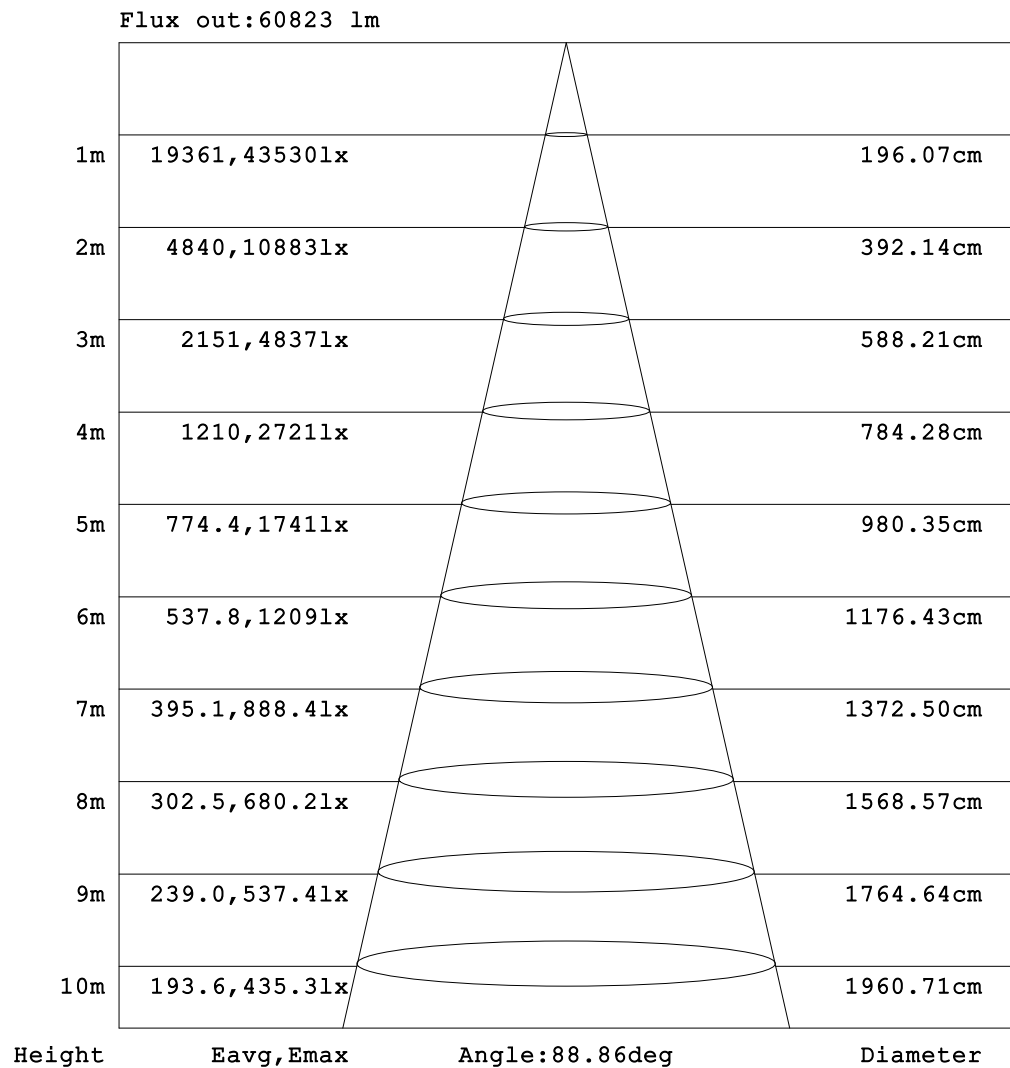


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

AAI Figure

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm		
NAME: ASD-WHB5BHV-ST-500	TYPE:	WEIGHT:
SPEC.:500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

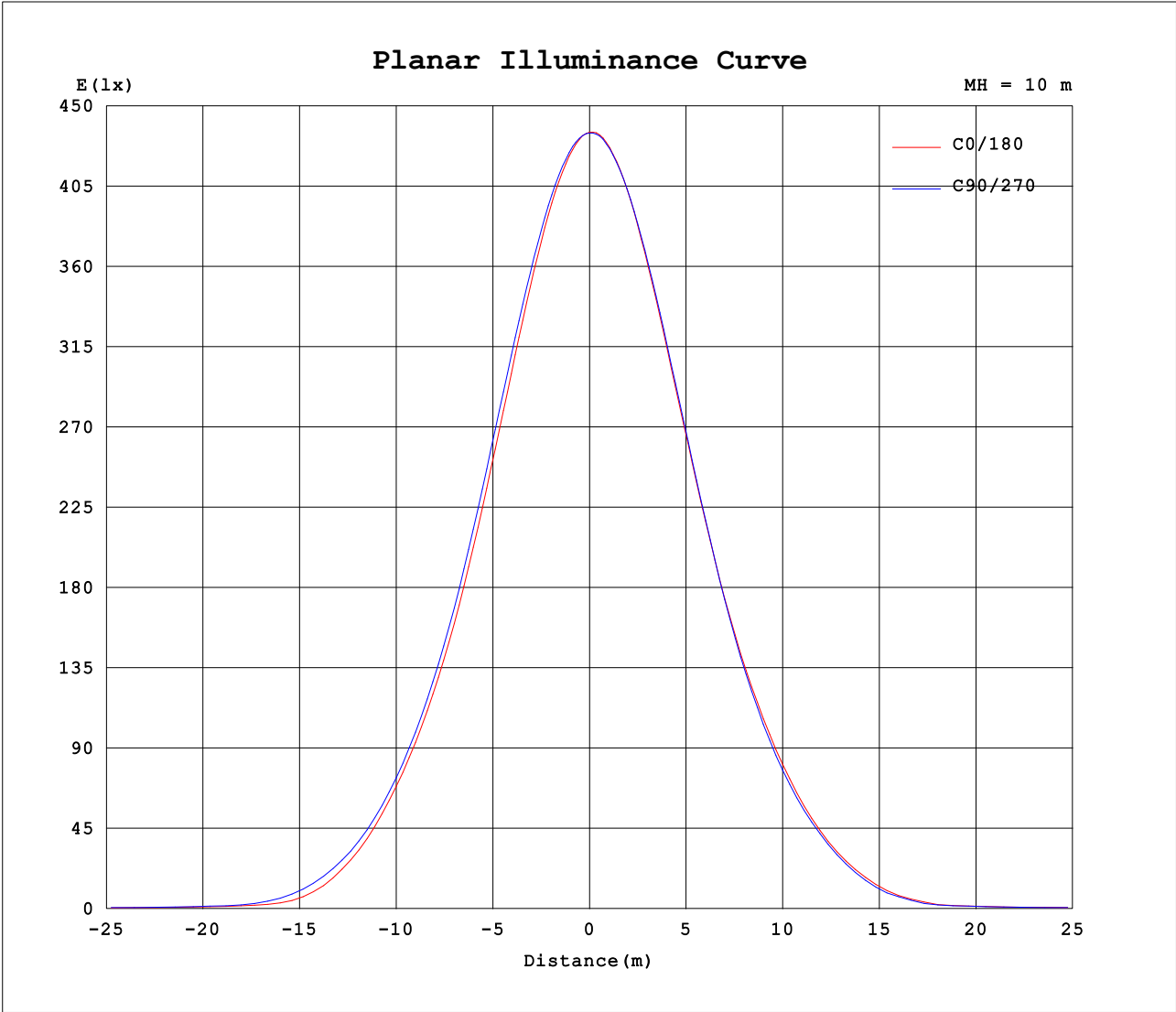


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-05-28

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:199.2V I:2.499A P:494.7W PF:0.9980 Freq:64.98Hz Lamp Flux:78608.5x1 lm		
NAME: ASD-WHB5BHV-ST-500	TYPE:	WEIGHT:
SPEC.:500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	4349	4349	4349	4349	4349	4349	4349	4349										
5	4301	4307	4323	4333	4343	4346	4339	4319										
10	4206	4214	4252	4268	4280	4288	4285	4242										
15	4059	4077	4139	4159	4165	4180	4183	4117										
20	3859	3888	3974	3996	4002	4023	4029	3942										
25	3604	3638	3755	3775	3785	3808	3817	3699										
30	3288	3320	3453	3482	3511	3520	3530	3392										
35	2905	2934	3066	3115	3164	3160	3156	3011										
40	2468	2512	2617	2702	2768	2733	2715	2562										
45	1941	1983	2080	2188	2289	2228	2199	2046										
50	1248	1343	1439	1569	1661	1618	1591	1435										
55	509	672	765	885	934	913	851	740										
60	160	244	246	374	309	329	246	256										
65	123	149	143	183	150	185	145	154										
70	102	111	121	140	126	146	124	116										
75	68.6	67.7	91.8	84.0	95.6	90.2	98.6	70.4										
80	33.6	41.2	48.6	50.8	49.9	54.5	53.8	43.8										
85	11.8	13.3	21.2	19.2	21.5	22.1	25.5	15.8										
90	0.79	0.72	0.64	1.00	1.86	1.42	2.13	1.18										
95	0.69	0.71	0.73	0.67	0.93	1.14	1.38	1.45										
100	1.03	1.04	1.10	0.98	1.59	1.89	2.26	2.35										
105	1.61	1.59	1.67	1.51	2.69	3.07	3.57	3.69										
110	2.41	2.37	2.47	2.26	4.25	4.69	5.31	5.47										
115	3.43	3.36	3.47	3.23	6.25	6.71	7.40	7.61										
120	4.62	4.50	4.64	4.37	8.59	8.99	9.62	9.88										
125	5.89	5.75	5.95	5.61	11.0	11.3	11.8	12.1										
130	7.19	7.15	7.37	6.97	13.2	13.4	13.9	14.2										
135	8.64	8.67	8.87	8.45	15.2	15.4	15.8	16.1										
140	10.3	10.4	10.5	10.0	17.1	17.2	17.6	17.8										
145	12.2	12.3	12.5	11.8	18.8	18.8	19.2	19.5										
150	14.5	14.6	14.8	13.9	20.5	20.3	20.8	21.0										
155	17.0	17.0	17.1	16.2	22.0	21.6	22.1	22.2										
160	19.3	19.2	19.3	18.4	23.2	22.7	23.2	23.2										
165	21.4	21.0	21.2	20.4	24.1	23.5	24.0	23.9										
170	23.1	22.5	22.8	22.1	24.8	24.0	24.5	24.3										
175	24.3	23.6	24.0	23.4	25.0	24.2	24.8	24.4										
180	24.8	24.1	24.7	24.2	24.8	24.1	24.7	24.1										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:27DEG

Operators:lianghaizhu-1

Test Date:2025-05-28

□ Range: 0 - 180DEG

□ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364

Humidity:56%

Test Distance:8.340m [K=1.0000]

Remarks: