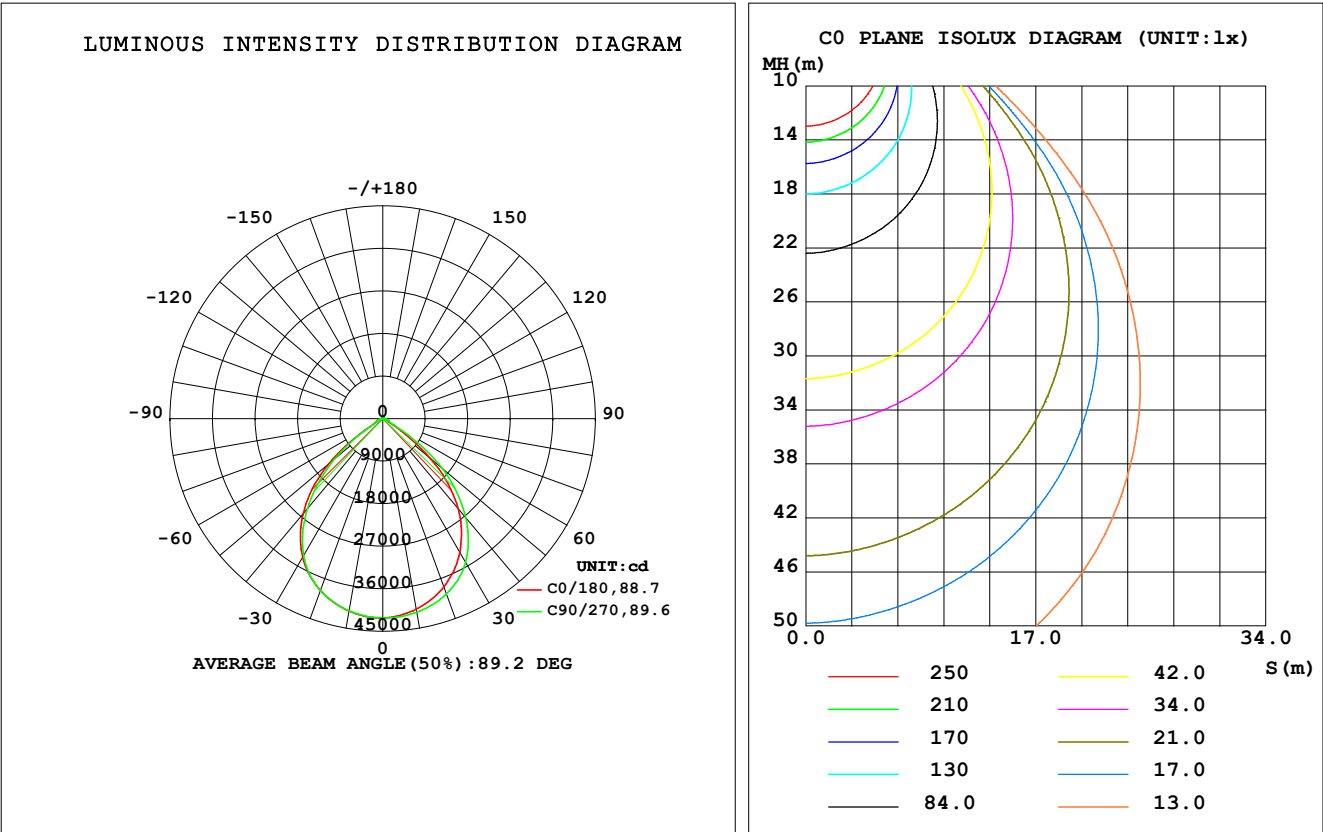


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm		
NAME: ASD-WHB5B-ST-500	TYPE:	WEIGHT:
SPEC.: 500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 153.35 lm/W
MODEL	ASD-WHB5B-ST-500	I _{max} (cd)	42201	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)	76668	□ UP,DN (C0-180)	0.5,50.7	
NOMINAL FLUX(lm)	76667.8	CIE CLASS	DIRECT	□ UP,DN (C180-360)	0.5,48.3	
LAMPS INSIDE	1	□ up (%)	1.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	120	□ down (%)	99.0	CIBSE SHR MAX	1.30	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-06-03

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	4091	4114	4157	4165	4134	4129	4129	4100	0- 10	3982	3982	5.19,5.19
20	3785	3843	3946	3948	3869	3860	3870	3805	10- 20	11334	15316	20,20
30	3262	3348	3505	3497	3388	3343	3348	3249	20- 30	16780	32096	41.9,41.9
40	2479	2580	2728	2730	2621	2525	2482	2392	30- 40	18695	50791	66.2,66.2
50	1322	1513	1654	1674	1508	1394	1336	1260	40- 50	15668	66459	86.7,86.7
60	158.4	307.0	290.2	365.7	205.0	263.2	179.0	206.9	50- 60	7004	73464	95.8,95.8
70	94.74	109.6	112.9	139.4	111.0	113.0	103.0	89.43	60- 70	1481	74945	97.8,97.8
80	35.59	37.10	61.59	45.32	42.99	34.16	40.73	27.73	70- 80	768.2	75713	98.8,98.8
90	2.076	2.202	3.174	2.729	1.685	1.781	1.950	1.985	80- 90	187.0	75900	99,99
100	3.713	3.592	3.562	3.380	3.284	3.632	4.057	4.051	90-100	28.87	75929	99,99
110	6.687	6.466	6.426	6.147	6.467	6.935	7.528	7.561	100-110	54.13	75983	99.1,99.1
120	10.51	10.17	10.10	9.804	10.66	11.10	11.81	11.80	110-120	86.32	76070	99.2,99.2
130	14.37	13.99	14.04	13.60	14.87	15.30	16.16	15.96	120-130	114.3	76184	99.4,99.4
140	18.14	17.73	17.82	17.20	18.97	19.48	20.30	20.19	130-140	129.4	76313	99.5,99.5
150	21.97	21.59	21.64	20.78	23.02	23.43	24.48	24.30	140-150	129.5	76443	99.7,99.7
160	26.36	26.04	26.11	25.14	27.17	27.50	28.64	28.20	150-160	113.9	76557	99.9,99.9
170	30.33	30.03	30.40	29.46	30.86	30.70	31.78	31.11	160-170	81.29	76638	100,100
180	32.01	31.74	32.69	31.72	32.00	31.76	32.68	31.73	170-180	29.86	76668	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 59352 lm

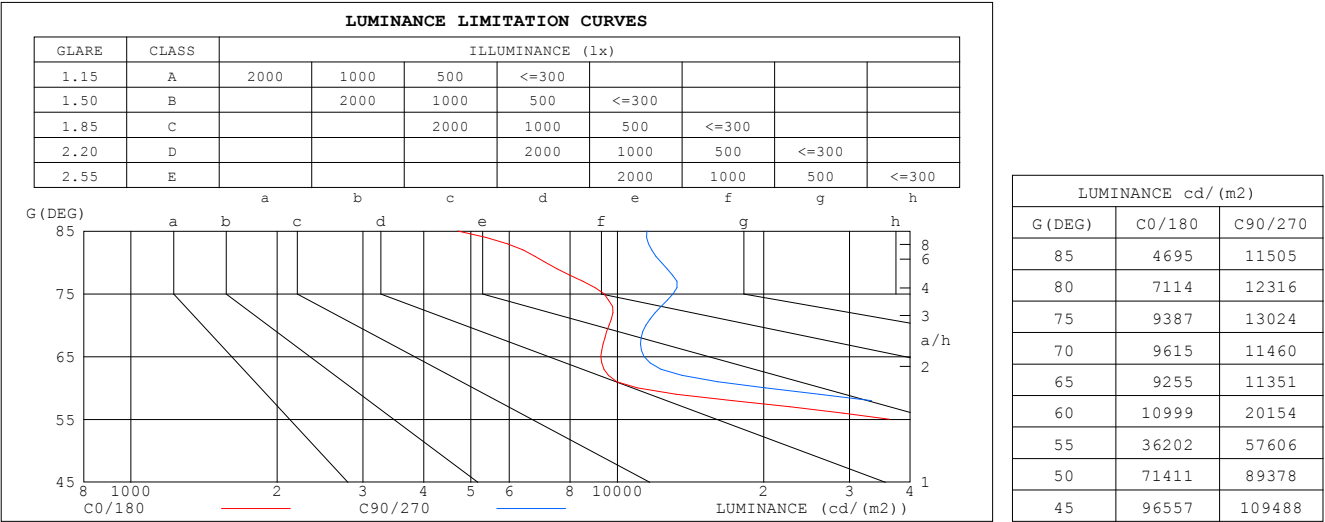
%lum = 77.4%
%lamp = 77.4%

Conical surface Flux(120deg): 73464 lm

%lum = 95.8%
%lamp = 95.8%

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm		
NAME: ASD-WHB5B-ST-500	TYPE:	WEIGHT:
SPEC.: 500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm					
NAME: ASD-WHB5B-ST-500			TYPE:		WEIGHT:
SPEC.: 500W-5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp.			SUR.:0.9*0.32m		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	.224	.127	.040	.216	.123	.039	.203	.116	.037	.191	.110	.035	.179	.104	.034	
2.0	.218	.119	.037	.212	.117	.036	.200	.111	.035	.189	.106	.033	.180	.102	.032	
3.0	.208	.111	.033	.203	.109	.033	.193	.105	.032	.184	.101	.031	.175	.097	.030	
4.0	.198	.103	.030	.193	.101	.030	.185	.098	.029	.176	.095	.029	.169	.092	.028	
5.0	.188	.096	.028	.184	.094	.027	.176	.092	.027	.169	.089	.026	.162	.086	.026	
6.0	.178	.089	.026	.175	.088	.025	.168	.086	.025	.161	.084	.025	.155	.081	.024	
7.0	.169	.084	.024	.166	.083	.024	.159	.081	.023	.154	.079	.023	.148	.077	.023	
8.0	.161	.078	.022	.158	.078	.022	.152	.076	.022	.146	.074	.021	.141	.073	.021	
9.0	.153	.074	.021	.150	.073	.020	.145	.072	.020	.140	.070	.020	.135	.069	.020	
10.0	.145	.070	.019	.143	.069	.019	.138	.068	.019	.134	.066	.019	.129	.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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.182	.165	.149	.156	.141	.128	.107	.097	.089	.061	.056	.052	.020	.018	.017	
2.0	.170	.140	.115	.146	.121	.099	.100	.083	.069	.058	.049	.041	.018	.016	.013	
3.0	.160	.122	.091	.138	.105	.079	.094	.073	.055	.055	.043	.033	.018	.014	.011	
4.0	.152	.108	.074	.131	.093	.064	.090	.065	.045	.052	.038	.027	.017	.012	.009	
5.0	.145	.097	.061	.124	.084	.053	.086	.058	.038	.050	.034	.022	.016	.011	.007	
6.0	.138	.088	.052	.119	.076	.045	.082	.053	.032	.048	.031	.019	.015	.010	.006	
7.0	.132	.081	.045	.114	.070	.039	.078	.049	.028	.046	.029	.017	.015	.009	.005	
8.0	.126	.075	.040	.109	.065	.035	.075	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.121	.070	.036	.104	.061	.031	.072	.043	.022	.042	.025	.013	.014	.008	.004	
10.0	.116	.066	.032	.100	.057	.028	.070	.040	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm										
NAME: ASD-WHB5B-ST-500					TYPE:			WEIGHT:		
SPEC.: 500W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.9*0.32m			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	25.5	26.7	25.7	26.9	27.1	26.2	27.5	26.5	27.7	27.9
3H	25.4	26.5	25.6	26.7	26.9	26.1	27.2	26.4	27.5	27.7
4H	25.3	26.4	25.6	26.6	26.9	26.1	27.1	26.4	27.4	27.7
6H	25.2	26.2	25.6	26.5	26.8	26.1	27.0	26.4	27.3	27.6
8H	25.2	26.2	25.5	26.4	26.7	26.0	27.0	26.4	27.3	27.6
12H	25.2	26.1	25.5	26.4	26.7	26.0	26.9	26.4	27.2	27.5
4H 2H	25.3	26.4	25.7	26.7	26.9	26.0	27.1	26.4	27.4	27.6
3H	25.3	26.2	25.6	26.5	26.8	26.0	26.9	26.3	27.2	27.5
4H	25.3	26.1	25.6	26.4	26.7	26.0	26.8	26.4	27.1	27.5
6H	25.2	25.9	25.6	26.3	26.7	26.0	26.7	26.4	27.1	27.4
8H	25.2	25.9	25.6	26.2	26.6	26.0	26.7	26.4	27.0	27.4
12H	25.2	25.8	25.6	26.2	26.6	26.0	26.6	26.4	27.0	27.4
8H 4H	25.2	25.8	25.6	26.2	26.6	25.9	26.5	26.3	26.9	27.3
6H	25.1	25.7	25.6	26.1	26.5	25.9	26.5	26.4	26.9	27.3
8H	25.1	25.6	25.6	26.0	26.5	25.9	26.4	26.4	26.8	27.3
12H	25.1	25.5	25.6	26.0	26.5	25.9	26.4	26.4	26.8	27.3
12H 4H	25.1	25.7	25.5	26.1	26.5	25.8	26.4	26.3	26.8	27.2
6H	25.1	25.6	25.6	26.0	26.5	25.9	26.4	26.3	26.8	27.3
8H	25.1	25.5	25.6	26.0	26.5	25.9	26.3	26.4	26.8	27.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.0 / - 4.2					+ 1.5 / - 2.4				
1.5H	+ 0.9 / - 2.2					+ 0.8 / - 1.9				
2.0H	+ 4.0 / - 7.0					+ 3.5 / - 6.4				

CIE Pub.117, 76668 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 15.1$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:6.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm		
NAME: ASD-WHB5B-ST-500	TYPE:	WEIGHT:
SPEC.: 500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32m	Shielding Angle:

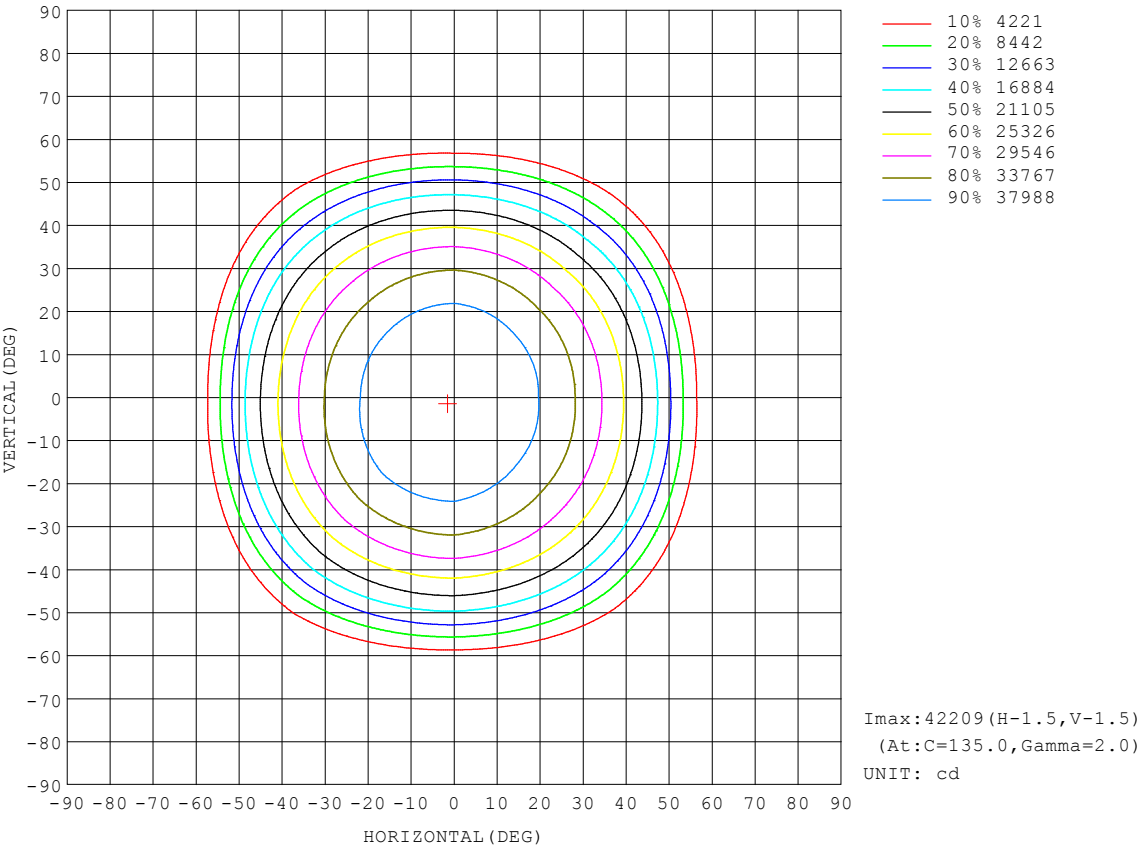
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	55	68	60	54	49
0.80	80	71	65	79	70	65	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	103	99	95	100	96	93	86
3.00	108	103	99	106	101	98	102	98	96	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	108	106	109	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
 Test Date: 2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 6.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm		
NAME: ASD-WHB5B-ST-500	TYPE:	WEIGHT:
SPEC.: 500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32m	Shielding Angle:

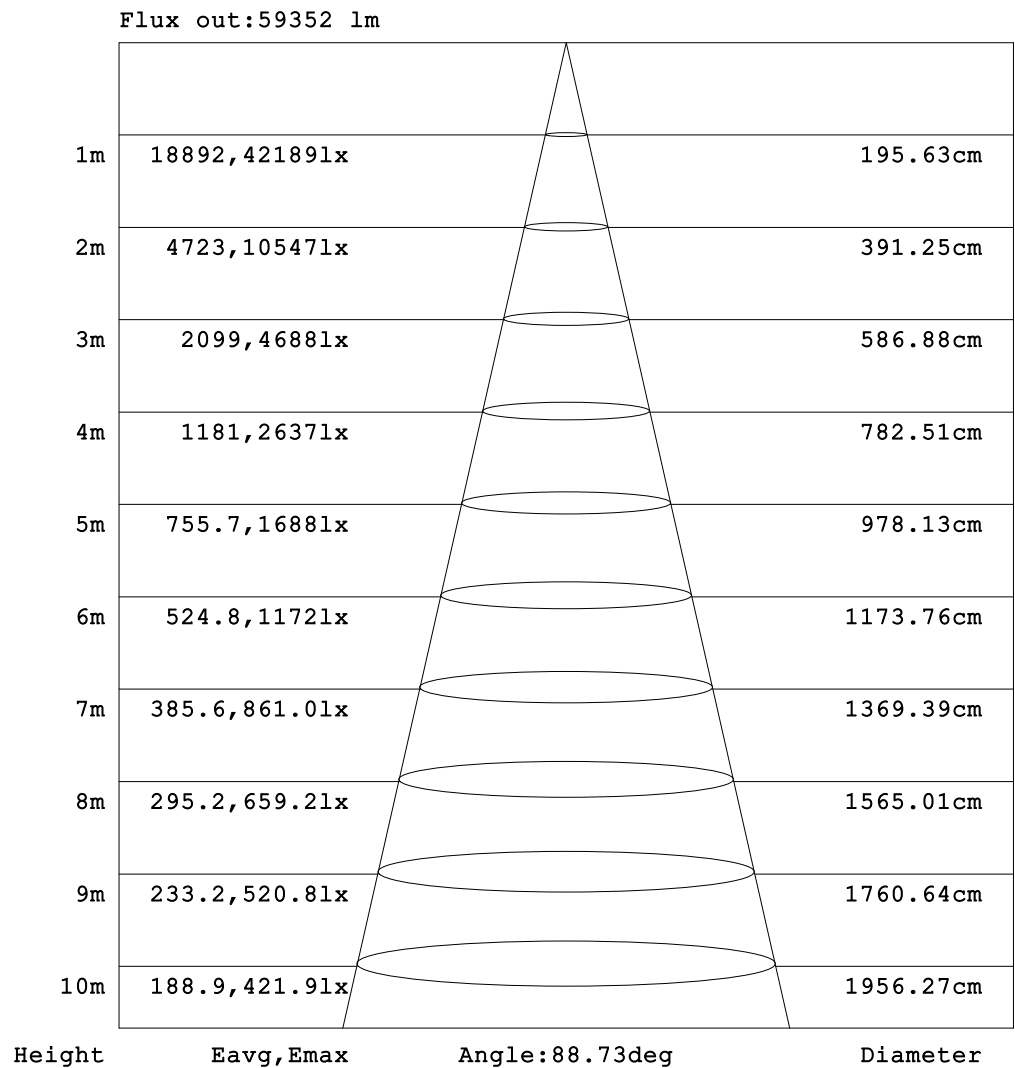


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm		
NAME: ASD-WHB5B-ST-500	TYPE:	WEIGHT:
SPEC.: 500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32m	Shielding Angle:

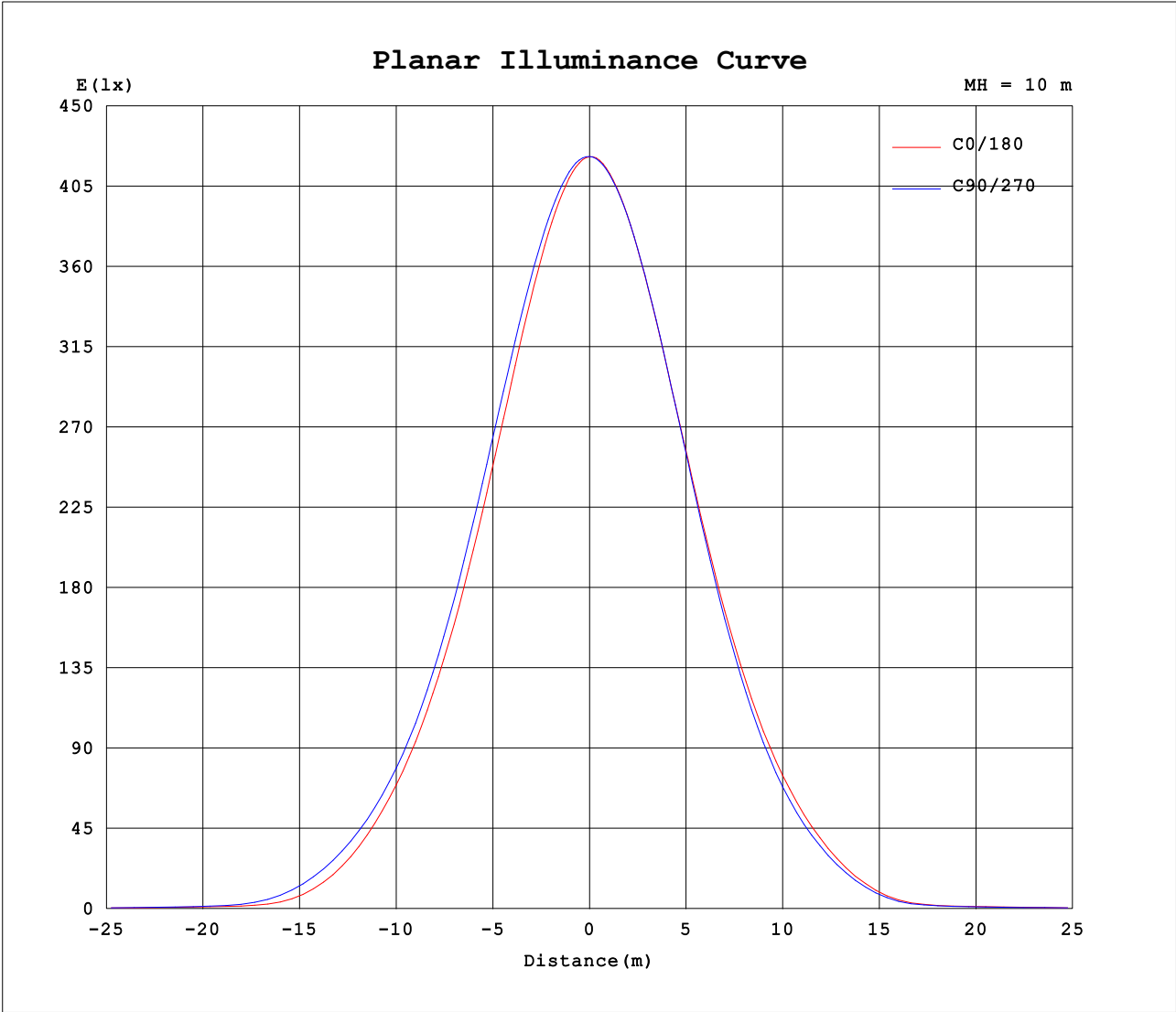


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-06-03

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:4.170A P:499.9W PF:0.9980 Freq:59.96Hz Lamp Flux:76667.8x1 lm		
NAME: ASD-WHB5B-ST-500	TYPE:	WEIGHT:
SPEC.: 500W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32m	Shielding Angle:

Table--1									UNIT: ×10cd										
C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	4217	4217	4217	4217	4217	4217	4217	4217											
5	4178	4189	4205	4212	4200	4197	4192	4179											
10	4091	4114	4157	4165	4134	4129	4129	4100											
15	3963	4000	4073	4079	4024	4019	4025	3978											
20	3785	3843	3946	3948	3869	3860	3870	3805											
25	3555	3630	3764	3761	3661	3639	3651	3565											
30	3262	3348	3505	3497	3388	3343	3348	3249											
35	2906	2999	3157	3152	3042	2973	2957	2857											
40	2479	2580	2728	2730	2621	2525	2482	2392											
45	1967	2085	2230	2238	2116	1998	1934	1857											
50	1322	1513	1654	1674	1508	1394	1336	1260											
55	598	848	952	984	750	740	648	629											
60	158	307	290	366	205	263	179	207											
65	113	147	138	182	132	159	120	128											
70	94.7	110	113	139	111	113	103	89.4											
75	70.0	61.1	97.1	76.2	85.2	55.9	77.4	47.5											
80	35.6	37.1	61.6	45.3	43.0	34.2	40.7	27.7											
85	11.8	15.5	28.9	20.2	13.2	8.94	14.2	7.32											
90	2.08	2.20	3.17	2.73	1.69	1.78	1.95	1.98											
95	2.64	2.57	2.53	2.40	2.24	2.52	2.82	2.80											
100	3.71	3.59	3.56	3.38	3.28	3.63	4.06	4.05											
105	5.07	4.90	4.87	4.64	4.73	5.13	5.65	5.68											
110	6.69	6.47	6.43	6.15	6.47	6.93	7.53	7.56											
115	8.53	8.24	8.20	7.89	8.48	8.97	9.63	9.66											
120	10.5	10.2	10.1	9.80	10.7	11.1	11.8	11.8											
125	12.5	12.1	12.1	11.7	12.8	13.2	14.0	13.9											
130	14.4	14.0	14.0	13.6	14.9	15.3	16.2	16.0											
135	16.3	15.9	15.9	15.5	16.9	17.4	18.2	18.1											
140	18.1	17.7	17.8	17.2	19.0	19.5	20.3	20.2											
145	20.0	19.6	19.7	19.0	21.0	21.5	22.4	22.3											
150	22.0	21.6	21.6	20.8	23.0	23.4	24.5	24.3											
155	24.1	23.7	23.8	22.8	25.1	25.4	26.6	26.3											
160	26.4	26.0	26.1	25.1	27.2	27.5	28.6	28.2											
165	28.5	28.3	28.4	27.5	29.2	29.4	30.5	29.9											
170	30.3	30.0	30.4	29.5	30.9	30.7	31.8	31.1											
175	31.6	31.2	31.8	30.9	31.8	31.5	32.5	31.7											
180	32.0	31.7	32.7	31.7	32.0	31.8	32.7	31.7											

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-06-03

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:6.500m [K=1.0000]
Remarks: