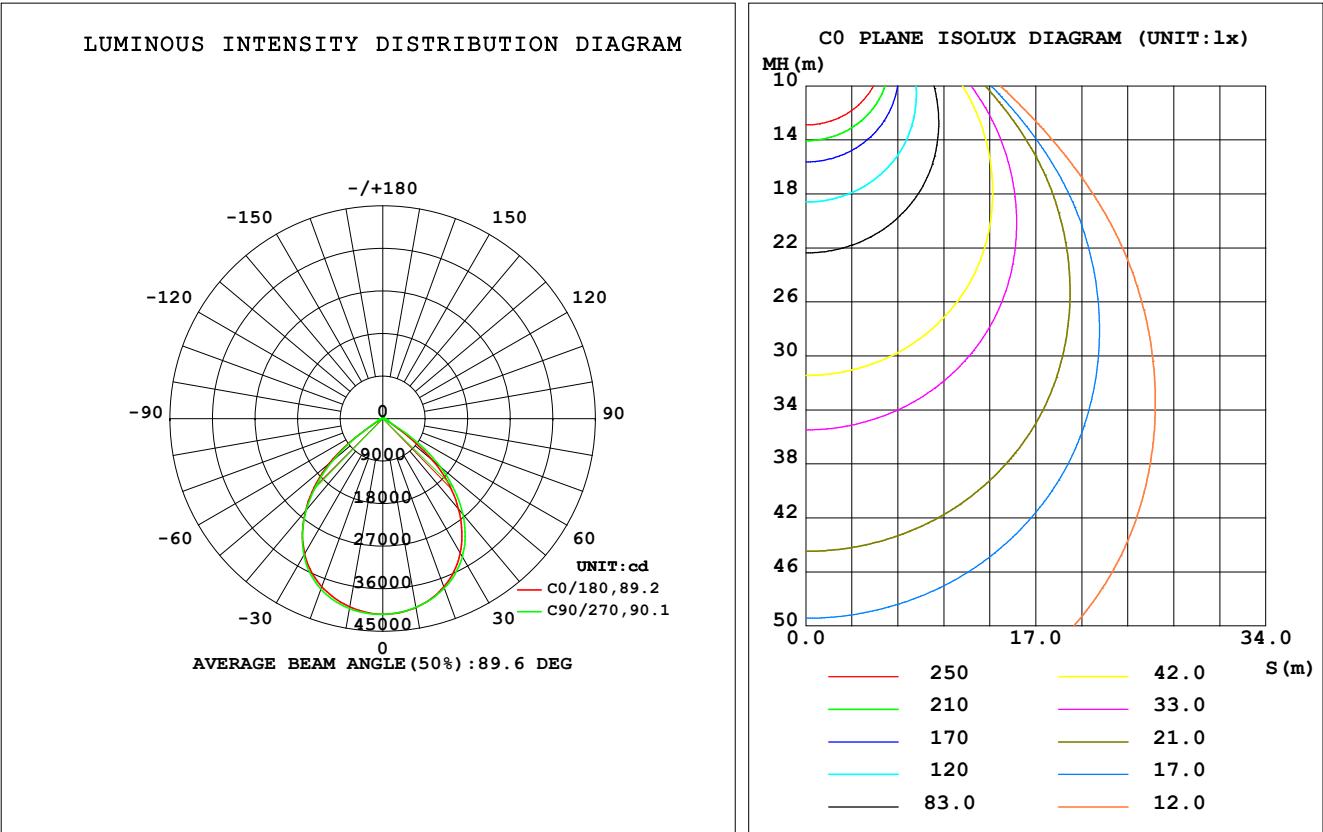


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 154.13 lm/W
MODEL		Imax(cd)	41399	S/MH(C0/180)	1.19	
NOMINAL POWER(W)	500	LOR(%)	100.0	S/MH(C90/270)	1.20	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	75905	□ UP,DN(C0-180)	0.5,50.4	
NOMINAL FLUX(lm)	75905.5	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,48.6	
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:2024-05-30

□ 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	4056	4051	4052	4051	4041	4063	4078	4062	0- 10	3912	3912	5.15,5.15
20	3784	3795	3814	3801	3781	3814	3834	3791	10- 20	11144	15055	19.8,19.8
30	3280	3314	3371	3352	3308	3320	3336	3253	20- 30	16512	31568	41.6,41.6
40	2494	2556	2633	2624	2545	2519	2516	2429	30- 40	18445	50012	65.9,65.9
50	1390	1537	1605	1624	1496	1420	1382	1307	40- 50	15594	65606	86.4,86.4
60	174.4	326.6	299.5	391.5	187.6	265.0	200.9	236.3	50- 60	7231	72837	96,96
70	97.33	105.4	102.7	109.5	93.74	100.4	102.1	98.24	60- 70	1431	74268	97.8,97.8
80	36.01	35.99	54.04	38.17	36.94	32.75	44.22	30.95	70- 80	719.2	74987	98.8,98.8
90	1.770	1.803	1.841	2.086	1.805	1.857	1.917	1.904	80- 90	171.8	75159	99,99
100	3.558	3.531	3.575	3.422	3.486	3.746	3.997	3.944	90-100	28.70	75188	99.1,99.1
110	6.489	6.417	6.484	6.230	6.432	6.780	7.144	7.092	100-110	53.38	75241	99.1,99.1
120	10.24	10.08	10.14	9.890	10.44	10.71	11.17	11.00	110-120	84.17	75326	99.2,99.2
130	13.98	13.82	14.04	13.67	14.46	14.73	15.33	14.98	120-130	111.1	75437	99.4,99.4
140	17.68	17.48	17.77	17.23	18.23	18.54	19.19	18.86	130-140	125.6	75562	99.5,99.5
150	21.46	21.31	21.53	20.78	22.12	22.37	23.25	22.93	140-150	125.3	75687	99.7,99.7
160	25.60	25.42	25.62	24.79	26.19	26.33	27.39	26.90	150-160	110.5	75798	99.9,99.9
170	29.37	29.20	29.61	28.75	29.85	29.55	30.55	29.85	160-170	78.66	75877	100,100
180	30.98	30.76	31.59	30.70	31.06	30.71	31.63	30.66	170-180	28.89	75905	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 58501 lm

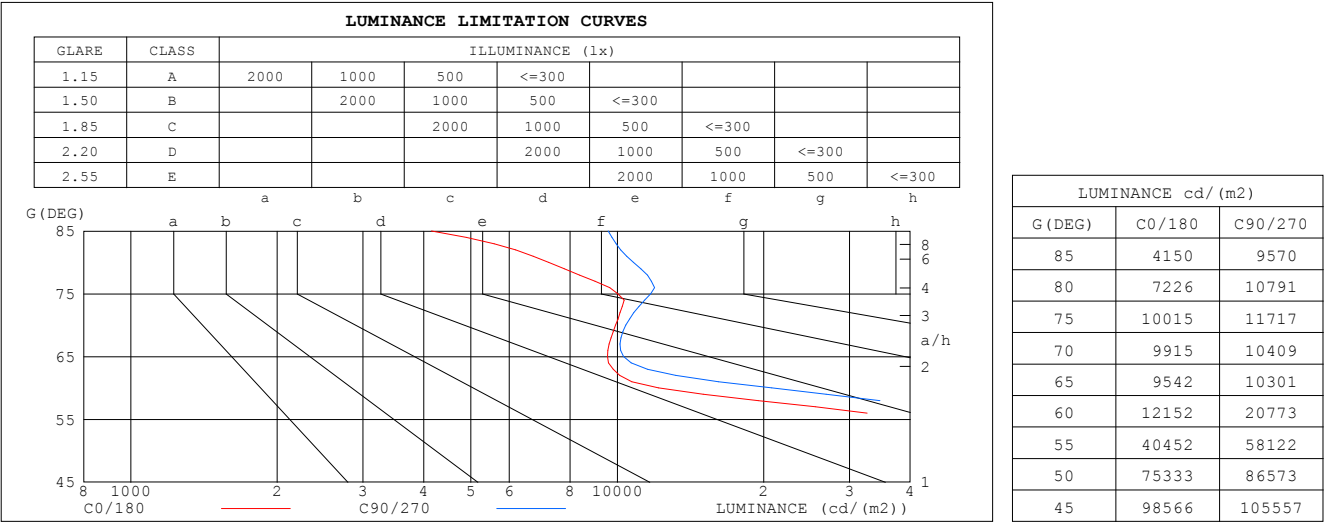
%lum = 77.1%
%lamp = 77.1%

Conical surface Flux(120deg): 72837 lm

%lum = 96.0%
%lamp = 96.0%

LUMINANCE LIMITATION CURVES

Test:U:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	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
Test Date:2024-05-30

☐ 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:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	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	.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	.190	.106	.033	.180	.102	.032															
3.0	.209	.111	.033	.203	.109	.033	.193	.105	.032	.184	.101	.031	.175	.097	.030															
4.0	.199	.103	.030	.194	.101	.030	.185	.098	.029	.177	.095	.029	.169	.092	.028															
5.0	.188	.096	.028	.184	.095	.028	.176	.092	.027	.169	.089	.027	.162	.087	.026															
6.0	.179	.090	.026	.175	.088	.025	.168	.086	.025	.161	.084	.025	.155	.082	.024															
7.0	.169	.084	.024	.166	.083	.024	.160	.081	.023	.154	.079	.023	.148	.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	.066	.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	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.182	.164	.149	.156	.141	.128	.106	.097	.089	.061	.056	.051	.020	.018	.017	
2.0	.170	.140	.115	.146	.120	.099	.100	.083	.069	.058	.048	.040	.018	.016	.013	
3.0	.160	.122	.091	.137	.105	.079	.094	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.152	.108	.074	.130	.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	.035	.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:2024-05-30

☐ 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:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm										
NAME: ASD-WHB5B-500A50-500W-5000K					TYPE:			WEIGHT:		
SPEC.:					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	25.7	26.9	25.9	27.1	27.3	26.2	27.4	26.5	27.6	27.8
3H	25.6	26.7	25.8	26.9	27.2	26.1	27.2	26.4	27.4	27.7
4H	25.5	26.6	25.8	26.8	27.1	26.0	27.1	26.3	27.3	27.6
6H	25.4	26.4	25.8	26.7	27.0	26.0	27.0	26.3	27.3	27.5
8H	25.4	26.4	25.8	26.6	26.9	26.0	26.9	26.3	27.2	27.5
12H	25.4	26.3	25.7	26.6	26.9	25.9	26.8	26.3	27.1	27.5
4H 2H	25.5	26.6	25.9	26.9	27.1	26.0	27.1	26.3	27.3	27.6
3H	25.5	26.4	25.8	26.7	27.0	26.0	26.9	26.3	27.2	27.5
4H	25.5	26.3	25.8	26.6	26.9	25.9	26.8	26.3	27.1	27.4
6H	25.4	26.1	25.8	26.5	26.9	25.9	26.7	26.3	27.0	27.4
8H	25.4	26.1	25.8	26.4	26.8	25.9	26.6	26.3	27.0	27.4
12H	25.4	26.0	25.8	26.3	26.8	25.9	26.5	26.3	26.9	27.3
8H 4H	25.3	26.0	25.8	26.4	26.8	25.8	26.5	26.2	26.9	27.3
6H	25.3	25.9	25.8	26.3	26.7	25.8	26.4	26.3	26.8	27.2
8H	25.3	25.8	25.8	26.2	26.7	25.9	26.3	26.3	26.8	27.2
12H	25.3	25.7	25.8	26.1	26.6	25.9	26.3	26.3	26.7	27.2
12H 4H	25.3	25.9	25.7	26.3	26.7	25.8	26.4	26.2	26.8	27.2
6H	25.3	25.8	25.8	26.2	26.7	25.8	26.3	26.3	26.7	27.2
8H	25.3	25.7	25.8	26.1	26.6	25.8	26.2	26.3	26.7	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 3.9					+ 1.5 / - 2.3				
1.5H	+ 0.9 / - 2.0					+ 0.8 / - 1.6				
2.0H	+ 3.8 / - 7.0					+ 3.4 / - 6.8				

CIE Pub.117, 75905 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 15.0$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-05-30

☐ 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:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

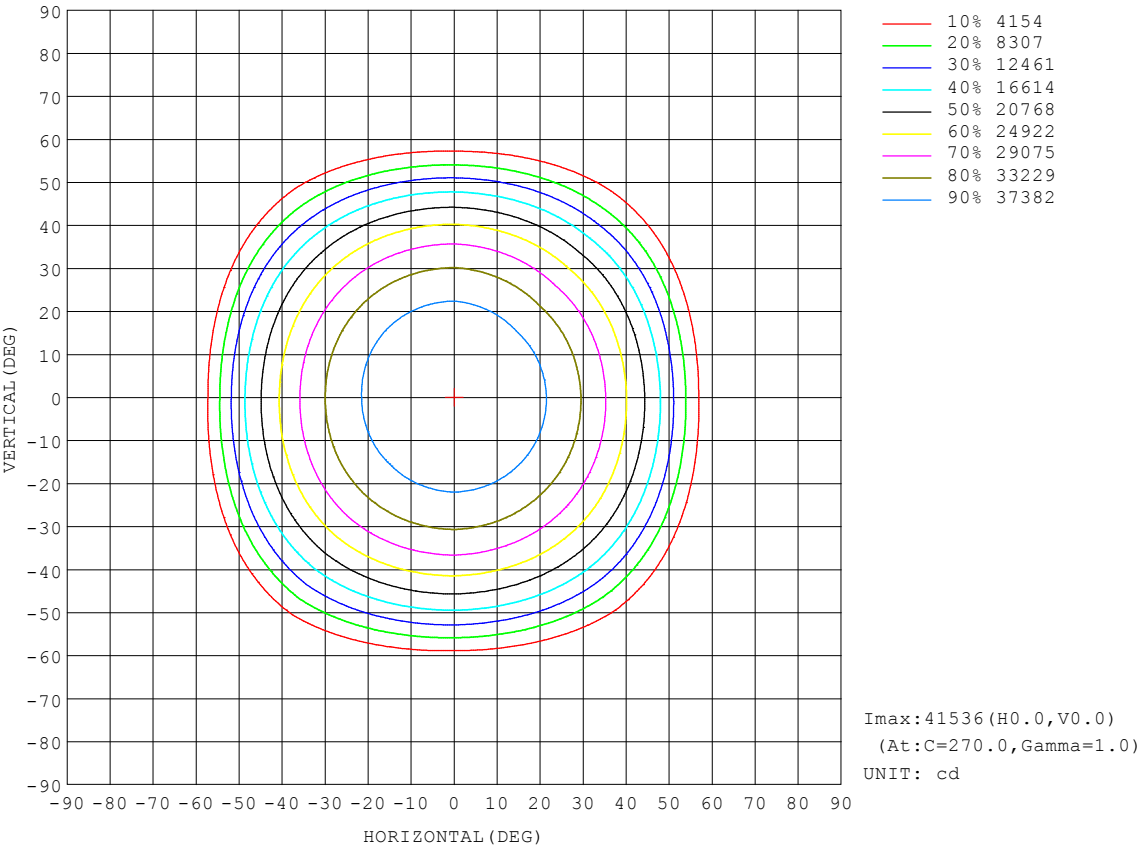
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	54	69	60	54	68	59	54	49
0.80	80	71	65	79	70	65	77	69	64	59
1.00	88	79	74	87	79	74	85	79	73	67
1.25	94	86	81	92	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	104	102	104	101	99	91
5.00	112	108	105	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: 2024-05-30

☐ 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:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

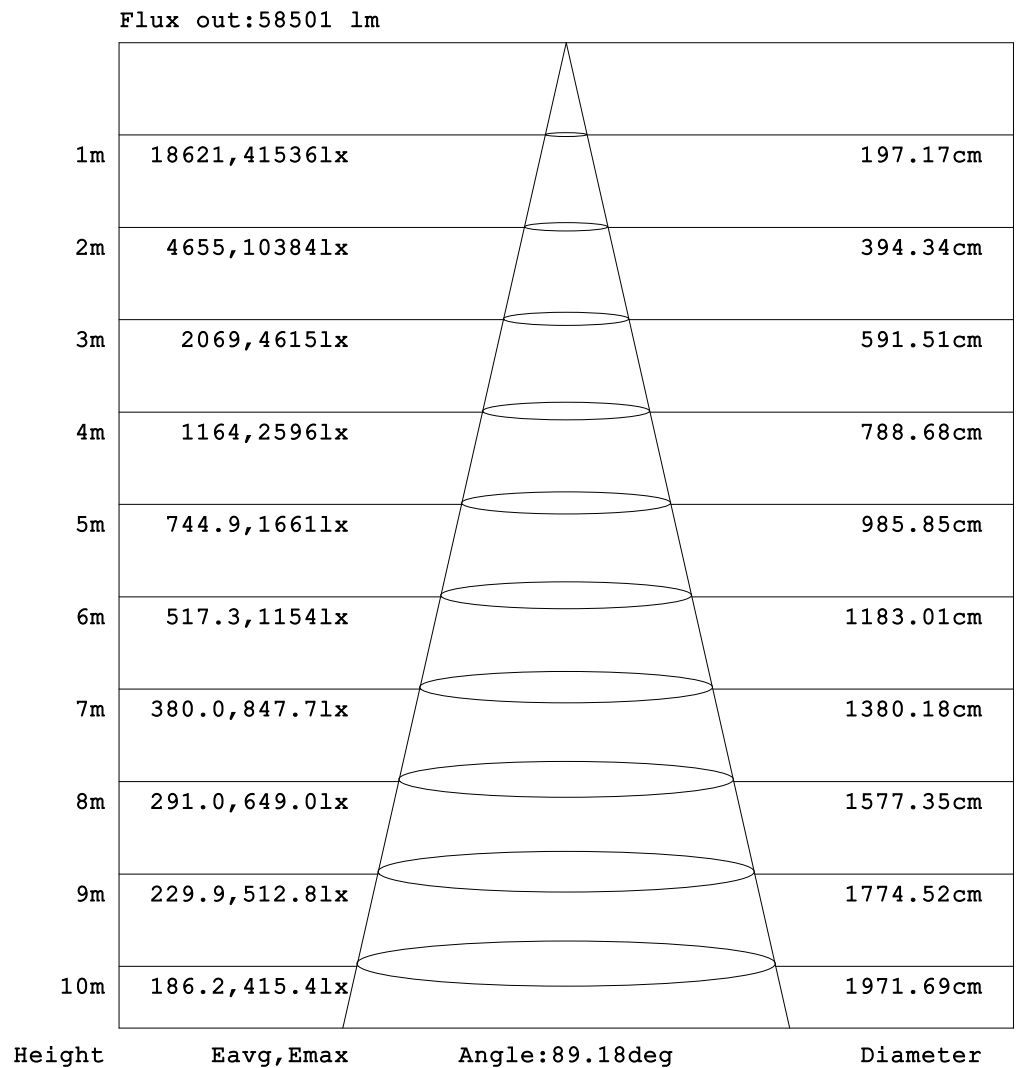


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-30

☐ 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:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.9*0.32	Shielding Angle:

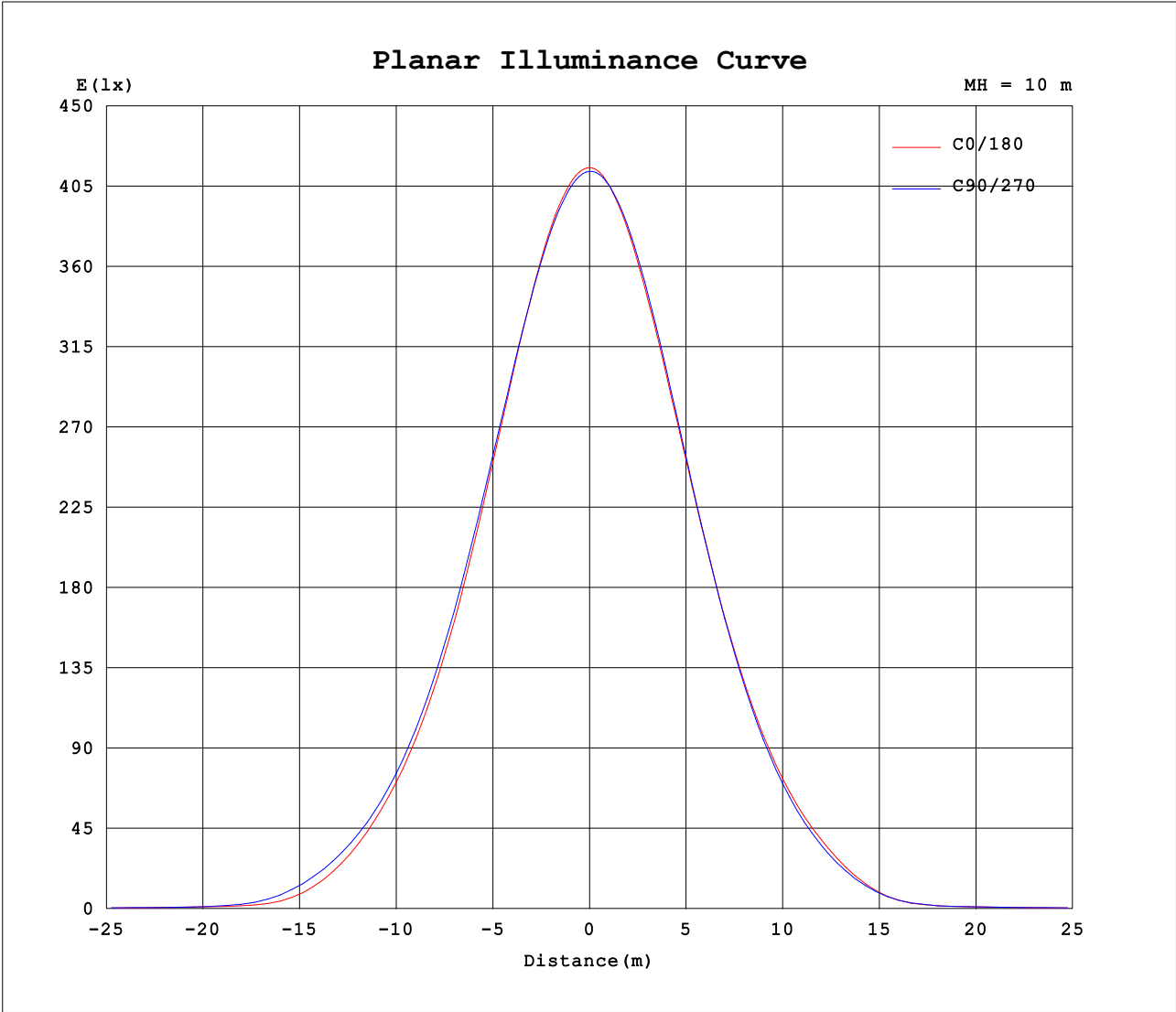


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-30

☐ 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:2024-05-30

☐ 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:120.3V I:4.103A P:492.5W PF:0.9980 Freq:59.98Hz Lamp Flux:75905.5x1 lm		
NAME: ASD-WHB5B-500A50-500W-5000K	TYPE:	WEIGHT:
SPEC.:	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	4139	4139	4139	4139	4139	4139	4139	4139											
5	4119	4114	4113	4117	4114	4123	4129	4123											
10	4056	4051	4052	4051	4041	4063	4078	4062											
15	3947	3946	3955	3947	3931	3961	3982	3956											
20	3784	3795	3814	3801	3781	3814	3834	3791											
25	3567	3588	3624	3609	3578	3606	3624	3558											
30	3280	3314	3371	3352	3308	3320	3336	3253											
35	2919	2970	3041	3025	2964	2957	2965	2876											
40	2494	2556	2633	2624	2545	2519	2516	2429											
45	2000	2076	2152	2152	2055	2006	1986	1905											
50	1390	1537	1605	1624	1496	1420	1382	1307											
55	666	883	961	1017	743	768	696	673											
60	174	327	300	391	188	265	201	236											
65	116	145	126	151	113	140	119	139											
70	97.3	105	103	109	93.7	100	102	98.2											
75	74.4	57.2	87.4	59.8	73.2	51.2	84.2	49.6											
80	36.0	36.0	54.0	38.2	36.9	32.8	44.2	31.0											
85	10.4	13.2	24.1	15.9	11.0	9.27	16.7	7.86											
90	1.77	1.80	1.84	2.09	1.81	1.86	1.92	1.90											
95	2.47	2.48	2.52	2.45	2.46	2.66	2.83	2.78											
100	3.56	3.53	3.57	3.42	3.49	3.75	4.00	3.94											
105	4.90	4.85	4.90	4.70	4.81	5.13	5.44	5.38											
110	6.49	6.42	6.48	6.23	6.43	6.78	7.14	7.09											
115	8.30	8.18	8.25	7.98	8.35	8.68	9.10	9.01											
120	10.2	10.1	10.1	9.89	10.4	10.7	11.2	11.0											
125	12.1	11.9	12.1	11.8	12.5	12.7	13.3	13.0											
130	14.0	13.8	14.0	13.7	14.5	14.7	15.3	15.0											
135	15.8	15.7	15.9	15.5	16.4	16.7	17.3	17.0											
140	17.7	17.5	17.8	17.2	18.2	18.5	19.2	18.9											
145	19.5	19.4	19.6	19.0	20.1	20.4	21.2	20.9											
150	21.5	21.3	21.5	20.8	22.1	22.4	23.2	22.9											
155	23.5	23.3	23.5	22.7	24.1	24.3	25.3	25.0											
160	25.6	25.4	25.6	24.8	26.2	26.3	27.4	26.9											
165	27.6	27.5	27.8	26.9	28.2	28.2	29.2	28.6											
170	29.4	29.2	29.6	28.8	29.9	29.6	30.6	29.8											
175	30.6	30.3	30.9	30.0	30.8	30.4	31.4	30.5											
180	31.0	30.8	31.6	30.7	31.1	30.7	31.6	30.7											

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-30

☐ 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: