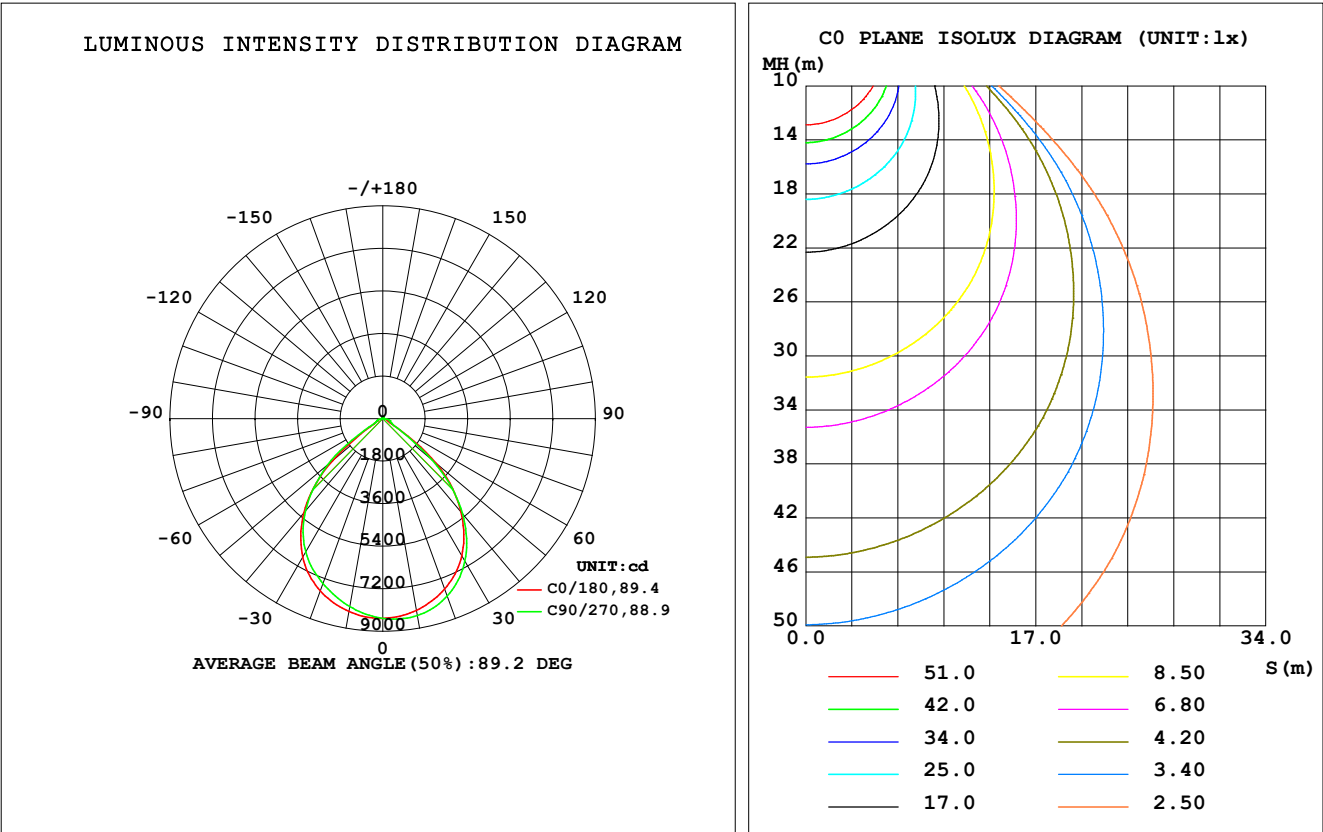


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 150.66 lm/W
MODEL		Imax(cd)	8503	S/MH(C0/180)	1.20	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.16	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	15386	□ UP,DN(C0-180)	0.5,50.0	
NOMINAL FLUX(lm)	15386.3	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,49.0	
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:2024-05-25

□ 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	8232	8379	8454	8430	8281	8132	8071	8103	0- 10	797.5	797.5	5.18,5.18
20	7670	7891	7984	7981	7752	7519	7418	7448	10- 20	2263	3061	19.9,19.9
30	6690	6847	6956	6945	6770	6562	6522	6480	20- 30	3346	6406	41.6,41.6
40	5146	5191	5244	5255	5192	5105	5088	5012	30- 40	3741	10147	65.9,65.9
50	2961	2851	2727	2826	2791	3028	3043	2993	40- 50	3149	13296	86.4,86.4
60	368.9	605.2	481.8	638.6	378.2	687.8	422.1	669.6	50- 60	1357	14653	95.2,95.2
70	225.3	261.2	329.9	277.4	232.9	225.8	256.9	223.8	60- 70	346.7	15000	97.5,97.5
80	90.05	113.6	171.7	115.2	78.90	86.69	119.5	88.81	70- 80	191.0	15191	98.7,98.7
90	3.676	3.833	3.655	3.725	3.504	3.527	3.426	3.560	80- 90	41.52	15232	99,99
100	7.074	7.313	7.472	7.306	7.229	7.297	7.224	7.263	90-100	5.667	15238	99,99
110	12.99	13.15	13.33	13.09	13.17	13.19	13.20	13.19	100-110	10.61	15249	99.1,99.1
120	20.76	20.67	20.89	20.56	21.28	21.36	21.38	21.28	110-120	16.78	15265	99.2,99.2
130	29.21	28.68	29.13	28.52	30.15	30.17	30.93	30.22	120-130	22.65	15288	99.4,99.4
140	37.24	36.61	37.12	36.35	38.28	38.33	39.51	38.61	130-140	26.05	15314	99.5,99.5
150	45.66	44.98	45.70	44.61	46.75	46.35	47.76	46.66	140-150	26.19	15340	99.7,99.7
160	54.61	53.82	54.74	53.37	55.78	54.72	56.24	55.04	150-160	23.21	15364	99.9,99.9
170	62.82	61.67	62.77	61.36	63.35	62.11	63.72	62.29	160-170	16.59	15380	100,100
180	66.22	65.00	66.46	64.99	66.30	64.92	66.53	64.93	170-180	6.109	15386	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11870 lm

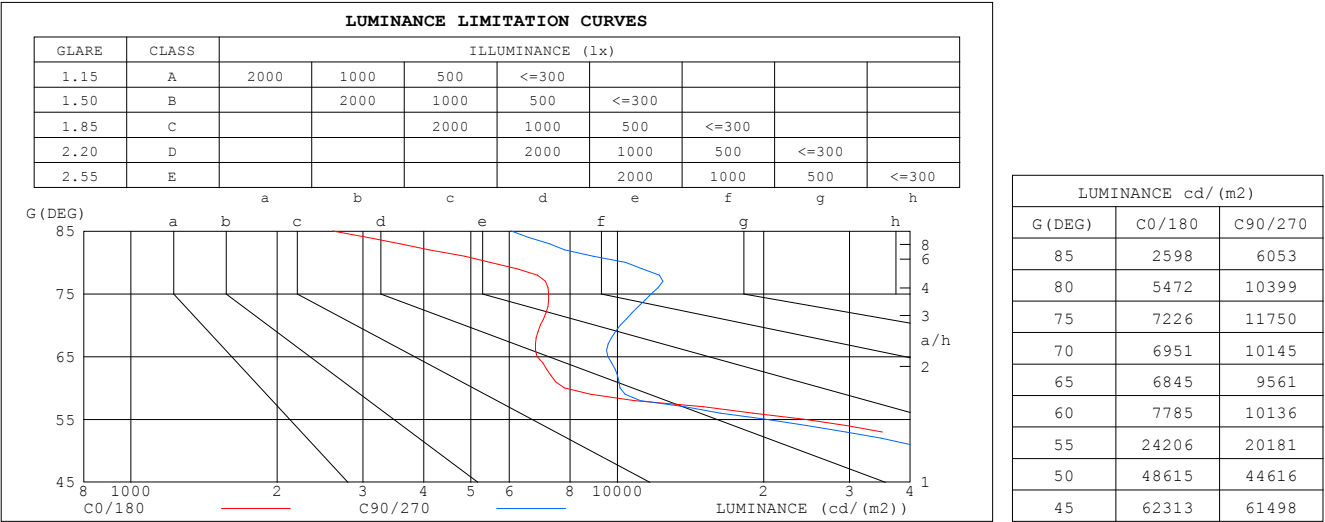
%lum = 77.1%
%lamp = 77.1%

Conical surface Flux(120deg): 14653 lm

%lum = 95.2%
%lamp = 95.2%

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-25

☐ 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:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	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	.226 .128 .041	.218 .125 .040	.205 .118 .038	.193 .111 .036	.181 .105 .034	
2.0	.219 .120 .037	.213 .117 .036	.202 .112 .035	.191 .107 .034	.181 .102 .032	
3.0	.210 .112 .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	.185 .095 .028	.177 .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	.170 .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	.116 .116 .116	.066 .066 .066	.021 .021 .021	
1.0	.182 .165 .149	.156 .141 .128	.107 .097 .089	.061 .056 .051	.020 .018 .017	
2.0	.170 .140 .114	.146 .121 .099	.100 .083 .069	.058 .048 .040	.018 .016 .013	
3.0	.161 .122 .091	.138 .105 .079	.095 .073 .055	.055 .043 .032	.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	.125 .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	.079 .049 .028	.046 .029 .017	.015 .009 .005	
8.0	.127 .075 .040	.109 .065 .035	.075 .046 .025	.044 .027 .015	.014 .009 .005	
9.0	.121 .070 .036	.105 .061 .031	.072 .043 .022	.042 .025 .013	.014 .008 .004	
10.0	.117 .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:2024-05-25

☐ 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:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm										
NAME: ASD-WHB5B-100A50-100W-5000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.38*0.25			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	23.9	25.1	24.1	25.3	25.5	23.8	25.0	24.0	25.2	25.4
3H	23.8	24.9	24.1	25.2	25.4	23.8	24.9	24.1	25.1	25.4
4H	23.8	24.8	24.1	25.1	25.3	23.9	24.9	24.2	25.2	25.4
6H	23.7	24.7	24.1	25.0	25.3	23.9	24.9	24.3	25.2	25.5
8H	23.7	24.7	24.0	24.9	25.2	23.9	24.9	24.3	25.2	25.5
12H	23.7	24.6	24.0	24.9	25.2	23.9	24.8	24.3	25.1	25.4
4H 2H	23.7	24.8	24.0	25.0	25.3	23.6	24.7	24.0	25.0	25.2
3H	23.7	24.6	24.1	24.9	25.2	23.7	24.6	24.1	24.9	25.2
4H	23.7	24.5	24.1	24.9	25.2	23.9	24.7	24.2	25.0	25.3
6H	23.7	24.5	24.1	24.8	25.2	24.0	24.7	24.4	25.1	25.5
8H	23.7	24.4	24.1	24.8	25.1	24.0	24.7	24.5	25.1	25.5
12H	23.7	24.3	24.1	24.7	25.1	24.0	24.6	24.5	25.0	25.5
8H 4H	23.6	24.3	24.1	24.7	25.1	23.8	24.4	24.2	24.8	25.2
6H	23.7	24.2	24.2	24.7	25.1	24.0	24.5	24.5	25.0	25.4
8H	23.7	24.2	24.2	24.6	25.1	24.1	24.5	24.5	25.0	25.4
12H	23.7	24.1	24.2	24.5	25.0	24.1	24.5	24.6	24.9	25.4
12H 4H	23.6	24.2	24.0	24.6	25.0	23.7	24.3	24.2	24.7	25.2
6H	23.7	24.2	24.1	24.6	25.1	24.0	24.5	24.4	24.9	25.4
8H	23.7	24.1	24.2	24.6	25.0	24.0	24.4	24.5	24.9	25.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 3.4					+ 1.7 / - 2.9				
1.5H	+ 1.0 / - 2.7					+ 0.9 / - 2.5				
2.0H	+ 3.9 / - 5.7					+ 3.8 / - 3.9				

CIE Pub.117, 15386 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.5$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-05-25

☐ 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:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

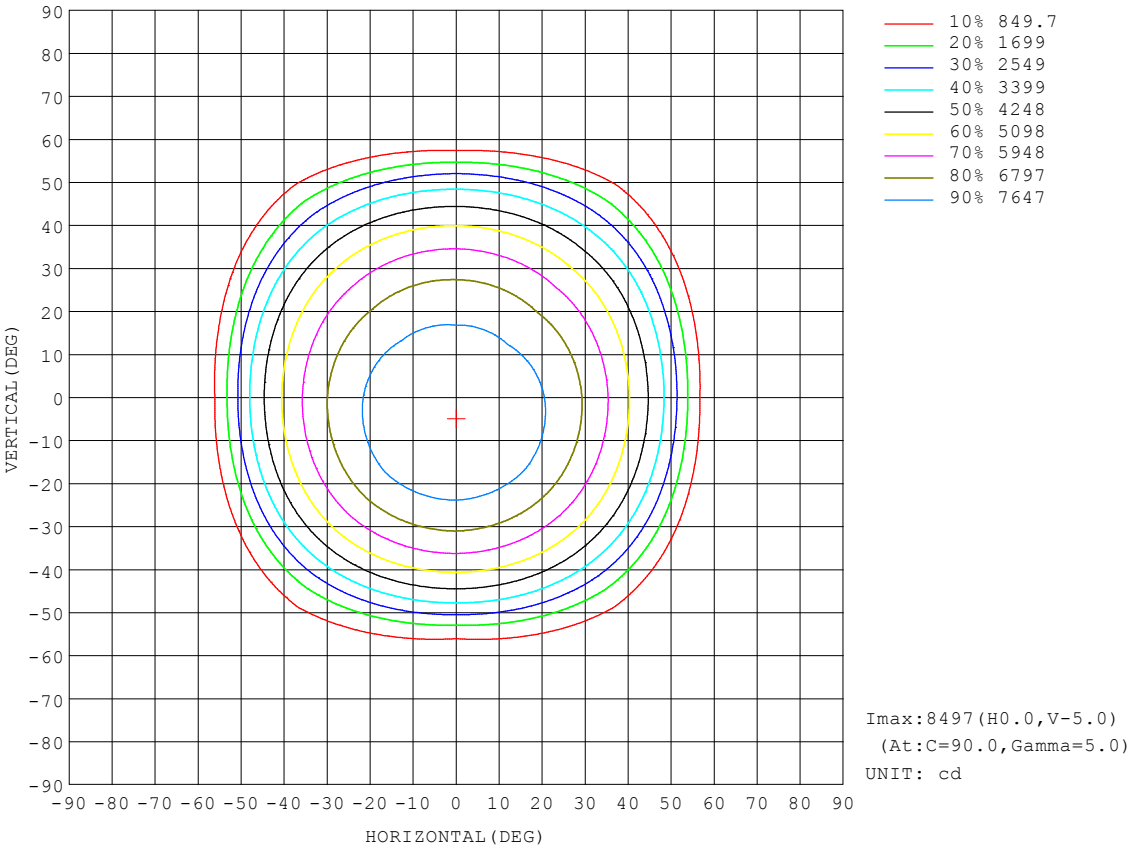
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	60	55	69	60	55	68	60	54	49
0.80	80	71	65	79	70	65	77	70	64	59
1.00	88	79	74	86	79	73	84	79	73	67
1.25	94	86	81	92	85	80	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	96	91	98	93	90	83
2.50	105	100	95	103	98	95	100	96	93	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	105	109	106	104	105	103	100	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: 2024-05-25

☐ 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:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

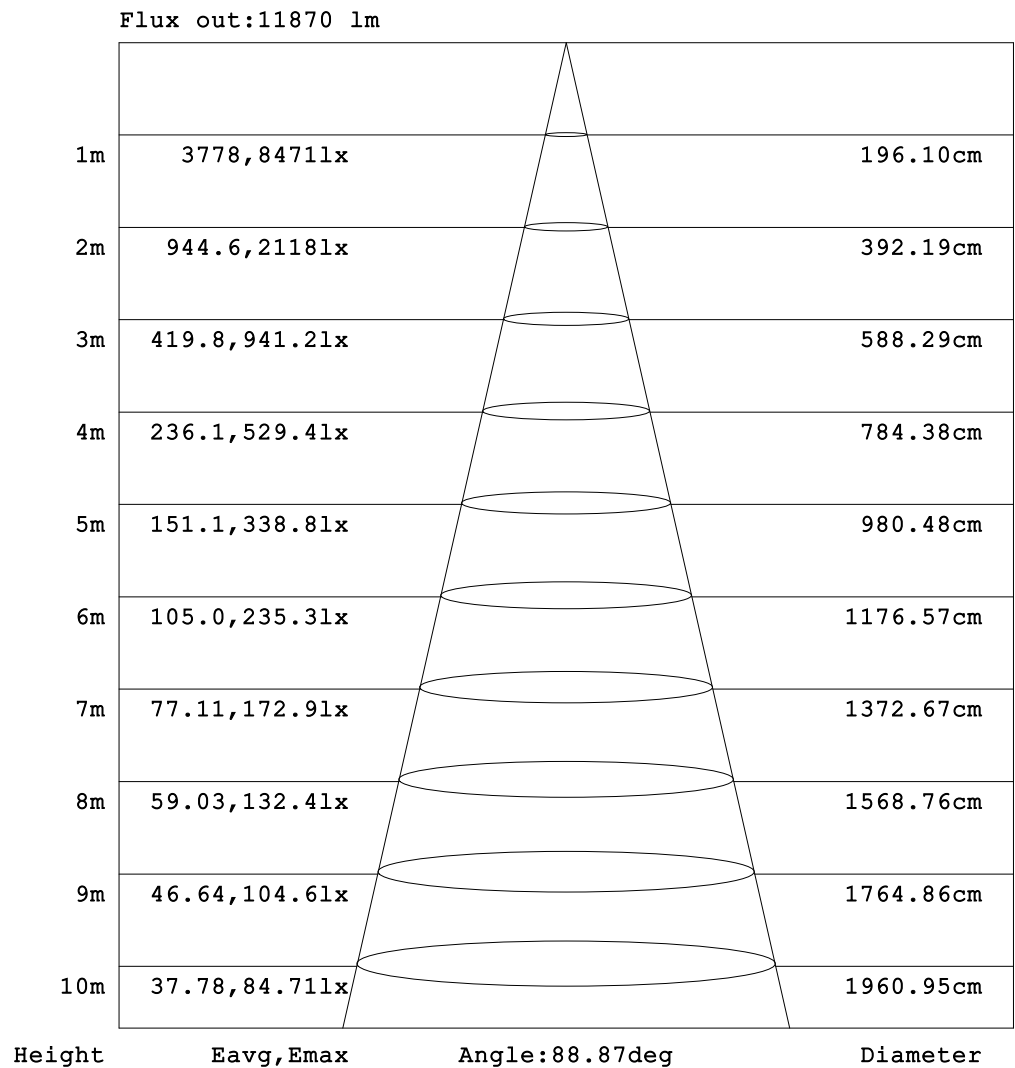


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-25

☐ 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:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

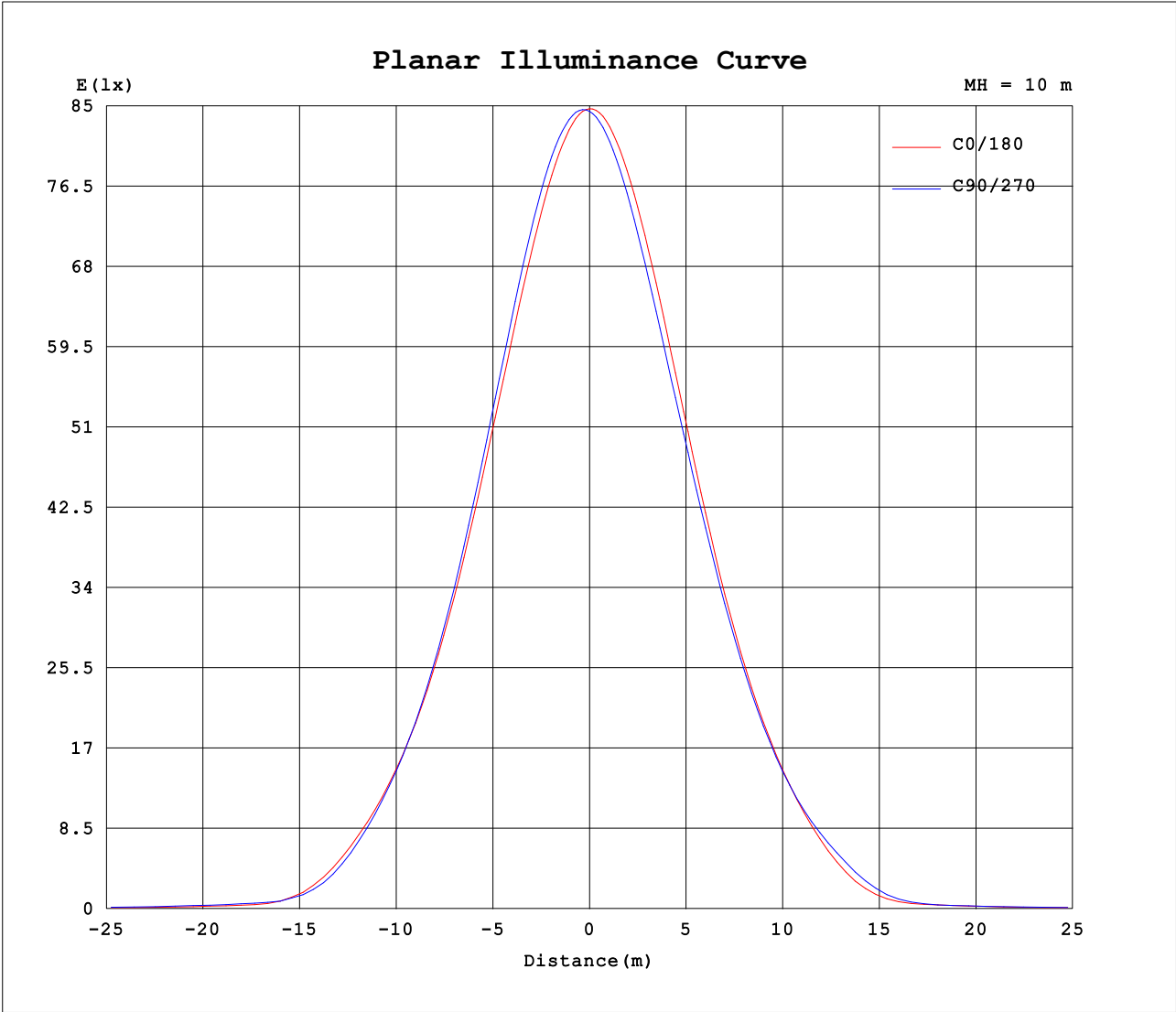


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-25

☐ 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	☐ Range: 0 - 180DEG
C Interval: 45.0DEG	☐ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Temperature:27DEG	Humidity:56%
Operators:lianghaizhu	Test Distance:6.500m [K=1.0000]
Test Date:2024-05-25	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.8524A P:102.1W PF:0.9943 Freq:59.98Hz Lamp Flux:15386.3x1 lm		
NAME: ASD-WHB5B-100A50-100W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

Table--1									UNIT: cd									
C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8450	8450	8450	8450	8450	8450	8450	8450										
5	8388	8463	8503	8494	8414	8339	8302	8317										
10	8232	8379	8454	8430	8281	8132	8071	8103										
15	7992	8191	8288	8266	8065	7853	7773	7807										
20	7670	7891	7984	7981	7752	7519	7418	7448										
25	7244	7448	7548	7545	7332	7096	7020	7020										
30	6690	6847	6956	6945	6770	6562	6522	6480										
35	5989	6091	6182	6178	6054	5901	5885	5816										
40	5146	5191	5244	5255	5192	5105	5088	5012										
45	4176	4128	4134	4156	4149	4148	4122	4067										
50	2961	2851	2727	2826	2791	3028	3043	2993										
55	1316	1487	1101	1439	1132	1734	1576	1737										
60	369	605	482	639	378	688	422	670										
65	274	365	384	401	282	337	300	323										
70	225	261	330	277	233	226	257	224										
75	177	151	289	156	182	130	219	131										
80	90.1	114	172	115	78.9	86.7	119	88.8										
85	21.5	33.6	50.2	29.0	14.1	17.4	42.4	21.4										
90	3.68	3.83	3.66	3.72	3.50	3.53	3.43	3.56										
95	4.89	5.17	5.28	5.17	5.03	5.11	5.02	5.05										
100	7.07	7.31	7.47	7.31	7.23	7.30	7.22	7.26										
105	9.77	10.00	10.1	9.97	9.94	9.97	9.97	9.97										
110	13.0	13.1	13.3	13.1	13.2	13.2	13.2	13.2										
115	16.7	16.8	16.9	16.7	17.0	17.0	17.0	17.0										
120	20.8	20.7	20.9	20.6	21.3	21.4	21.4	21.3										
125	25.0	24.7	25.0	24.5	25.8	25.9	26.2	25.8										
130	29.2	28.7	29.1	28.5	30.2	30.2	30.9	30.2										
135	33.4	32.7	33.2	32.5	34.3	34.3	35.4	34.6										
140	37.2	36.6	37.1	36.3	38.3	38.3	39.5	38.6										
145	41.3	40.7	41.3	40.4	42.4	42.4	43.6	42.6										
150	45.7	45.0	45.7	44.6	46.8	46.4	47.8	46.7										
155	50.1	49.4	50.2	49.0	51.2	50.5	52.0	50.8										
160	54.6	53.8	54.7	53.4	55.8	54.7	56.2	55.0										
165	59.0	58.1	59.1	57.7	60.1	58.9	60.5	59.2										
170	62.8	61.7	62.8	61.4	63.3	62.1	63.7	62.3										
175	65.3	64.0	65.3	63.8	65.4	64.1	65.8	64.2										
180	66.2	65.0	66.5	65.0	66.3	64.9	66.5	64.9										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-25

□ 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: