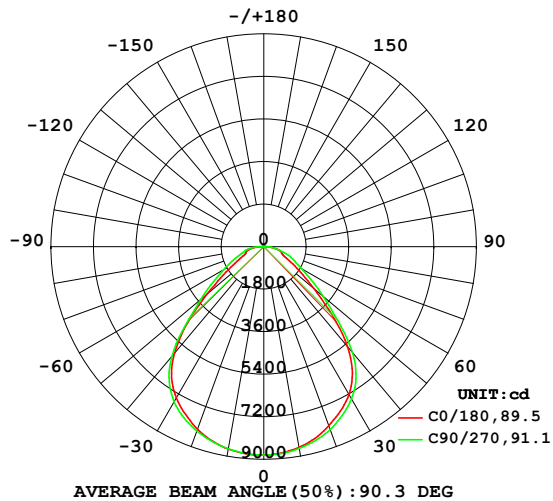


LUMINAIRE PHOTOMETRIC TEST REPORT

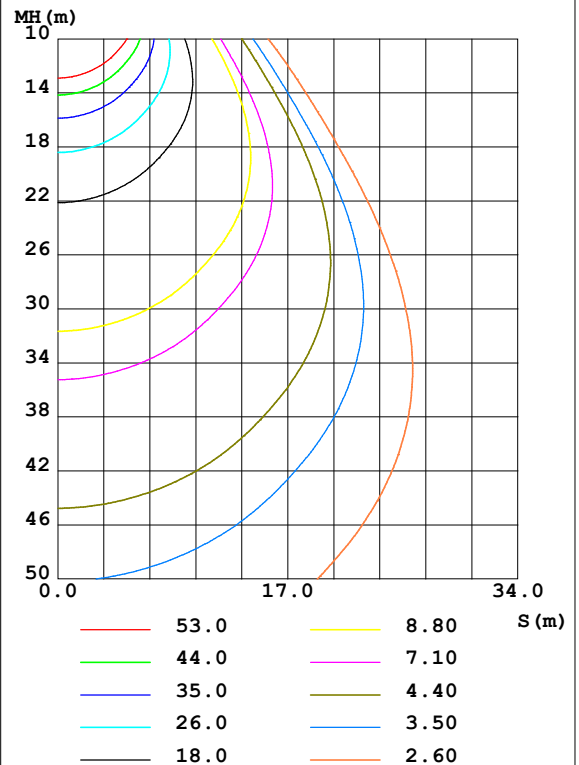
Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm		
NAME: ASD-WHB7-160RGBW	TYPE:	WEIGHT:
SPEC.:160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.6*0.3	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.69 lm/W			
MODEL	ASD-WHB7-160RGBW	I _{max} (cd)	8816	S/MH(C0/180)	1.24
NOMINAL POWER(W)	160	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	19105	□ UP,DN(C0-180)	0.3,48.8
NOMINAL FLUX(lm)	19104.8	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.4,50.5
LAMPS INSIDE	1	□ up(%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	□ 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: 2025-07-01

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity: 56%
Test Distance: 8.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	8621	8645	8667	8679	8689	8693	8683	8654	0- 10	834.4	834.4	4.37,4.37
20	8063	8151	8234	8234	8221	8264	8297	8179	10- 20	2392	3226	16.9,16.9
30	7211	7267	7426	7359	7397	7461	7583	7344	20- 30	3610	6837	35.8,35.8
40	5503	5652	5846	5816	5886	5946	6060	5722	30- 40	4190	11027	57.7,57.7
50	2777	3172	3295	3220	3158	3356	3489	3185	40- 50	3427	14454	75.7,75.7
60	1337	1610	1825	1598	1414	1791	1964	1653	50- 60	2082	16536	86.6,86.6
70	821.4	1003	1144	1014	818.5	1092	1127	1042	60- 70	1259	17795	93.1,93.1
80	508.6	536.6	483.3	575.0	564.2	636.9	691.3	631.3	70- 80	853.5	18649	97.6,97.6
90	3.787	3.214	3.043	6.995	28.34	25.74	18.84	12.13	80- 90	324.9	18974	99.3,99.3
100	4.351	4.668	4.588	4.391	7.799	8.394	8.498	8.609	90-100	6.229	18980	99.3,99.3
110	7.562	7.711	7.720	7.270	13.56	13.90	14.32	14.39	100-110	8.867	18989	99.4,99.4
120	12.51	12.61	12.67	12.23	22.11	22.46	22.84	23.26	110-120	13.89	19003	99.5,99.5
130	18.48	18.61	18.88	18.17	31.49	31.58	32.26	32.55	120-130	19.17	19022	99.6,99.6
140	24.79	25.23	25.40	24.57	39.28	39.11	39.87	40.06	130-140	22.23	19044	99.7,99.7
150	32.68	32.92	33.23	32.07	45.57	45.45	45.91	45.83	140-150	22.36	19066	99.8,99.8
160	42.22	41.85	42.38	40.79	50.54	49.90	50.55	50.47	150-160	19.67	19086	99.9,99.9
170	50.31	49.46	49.97	48.90	53.76	53.03	53.33	53.33	160-170	13.80	19100	100,100
180	54.03	53.05	53.63	52.85	54.08	53.05	53.65	52.88	170-180	5.007	19105	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12926 lm

%lum = 67.7%

%lamp = 67.7%

Conical surface Flux(120deg): 16536 lm

%lum = 86.6%

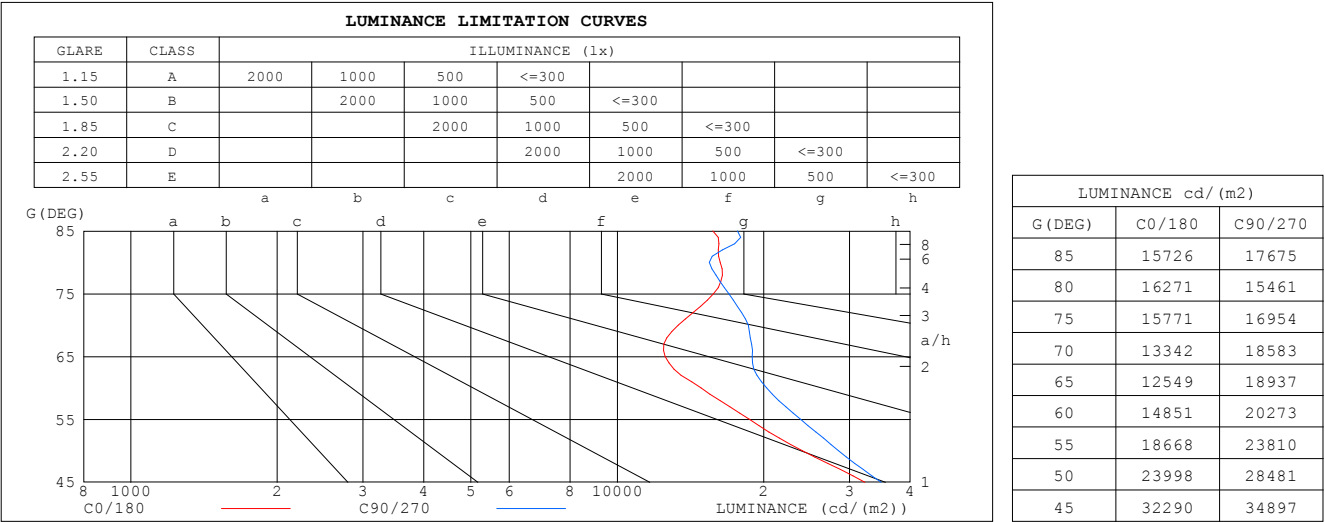
%lamp = 86.6%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm		
NAME: ASD-WHB7-160RGBW	TYPE:	WEIGHT:
SPEC.:160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighing Corp.	SUR.:0.6*0.3	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm					
NAME: ASD-WHB7-160RGBW			TYPE:		WEIGHT:
SPEC.:160W-5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighing Corp.			SUR.:0.6*0.3		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	.271	.154	.049	.264	.151	.048	.251	.144	.046	.238	.137	.044	.227	.132	.042	
2.0	.255	.140	.043	.249	.137	.042	.237	.132	.041	.227	.127	.040	.217	.123	.039	
3.0	.238	.127	.038	.233	.125	.038	.223	.121	.037	.213	.117	.036	.204	.113	.035	
4.0	.222	.115	.034	.217	.114	.034	.208	.110	.033	.200	.107	.032	.192	.104	.032	
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.029	.180	.096	.029	
6.0	.194	.097	.028	.190	.096	.028	.183	.094	.027	.176	.092	.027	.170	.090	.027	
7.0	.182	.090	.026	.179	.089	.025	.172	.087	.025	.166	.085	.025	.161	.083	.025	
8.0	.171	.084	.024	.168	.083	.023	.163	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.149	.075	.021	.144	.073	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	

☐ 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	.183	.162	.143	.157	.139	.123	.107	.096	.085	.062	.055	.049	.020	.018	.016	
2.0	.173	.137	.108	.148	.118	.093	.101	.082	.065	.058	.048	.038	.019	.015	.012	
3.0	.164	.119	.084	.140	.103	.073	.096	.072	.051	.056	.042	.030	.018	.014	.010	
4.0	.156	.106	.068	.133	.091	.059	.092	.064	.041	.053	.037	.025	.017	.012	.008	
5.0	.148	.095	.056	.127	.082	.049	.088	.057	.034	.051	.034	.020	.016	.011	.007	
6.0	.141	.086	.047	.121	.075	.041	.084	.052	.029	.049	.031	.017	.016	.010	.006	
7.0	.135	.079	.041	.116	.069	.036	.080	.048	.025	.046	.028	.015	.015	.009	.005	
8.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.045	.026	.013	.014	.009	.004	
9.0	.123	.069	.032	.106	.060	.028	.073	.042	.020	.043	.025	.012	.014	.008	.004	
10.0	.118	.064	.029	.101	.056	.025	.070	.039	.018	.041	.023	.011	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm										
NAME: ASD-WHB7-160RGBW					TYPE:			WEIGHT:		
SPEC.:160W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighing Corp.					SUR.:0.6*0.3			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	22.4	23.7	22.6	23.9	24.1	23.1	24.5	23.4	24.7	24.9
3H	23.1	24.3	23.3	24.5	24.8	24.1	25.3	24.4	25.6	25.8
4H	23.6	24.8	23.9	25.0	25.3	24.6	25.7	24.9	26.0	26.3
6H	24.1	25.2	24.4	25.5	25.8	24.9	26.0	25.2	26.3	26.6
8H	24.3	25.4	24.6	25.7	26.0	25.1	26.1	25.4	26.4	26.7
12H	24.4	25.5	24.8	25.8	26.1	25.2	26.2	25.6	26.5	26.8
4H 2H	22.7	23.9	23.0	24.1	24.4	23.3	24.5	23.6	24.7	25.0
3H	23.7	24.7	24.0	25.0	25.3	24.5	25.6	24.9	25.9	26.2
4H	24.4	25.3	24.8	25.6	26.0	25.2	26.1	25.6	26.4	26.8
6H	25.1	25.9	25.5	26.3	26.6	25.7	26.5	26.1	26.9	27.3
8H	25.4	26.1	25.8	26.5	26.9	25.9	26.7	26.4	27.1	27.5
12H	25.6	26.3	26.0	26.7	27.1	26.2	26.9	26.6	27.3	27.7
8H 4H	24.7	25.5	25.1	25.8	26.2	25.4	26.2	25.8	26.6	26.9
6H	25.6	26.2	26.0	26.6	27.1	26.1	26.7	26.5	27.1	27.6
8H	26.0	26.5	26.4	27.0	27.4	26.4	27.0	26.9	27.4	27.9
12H	26.3	26.8	26.8	27.2	27.7	26.8	27.2	27.2	27.7	28.2
12H 4H	24.7	25.4	25.2	25.8	26.2	25.4	26.1	25.9	26.5	26.9
6H	25.7	26.2	26.1	26.7	27.1	26.2	26.7	26.6	27.2	27.6
8H	26.1	26.6	26.6	27.1	27.5	26.6	27.1	27.0	27.5	28.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.4				
1.5H	+ 0.3 / - 0.4					+ 0.3 / - 0.2				
2.0H	+ 0.9 / - 0.7					+ 0.8 / - 0.5				

CIE Pub.117, 19105 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.2$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm		
NAME: ASD-WHB7-160RGBW	TYPE:	WEIGHT:
SPEC.:160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighing Corp.	SUR.:0.6*0.3	Shielding Angle:

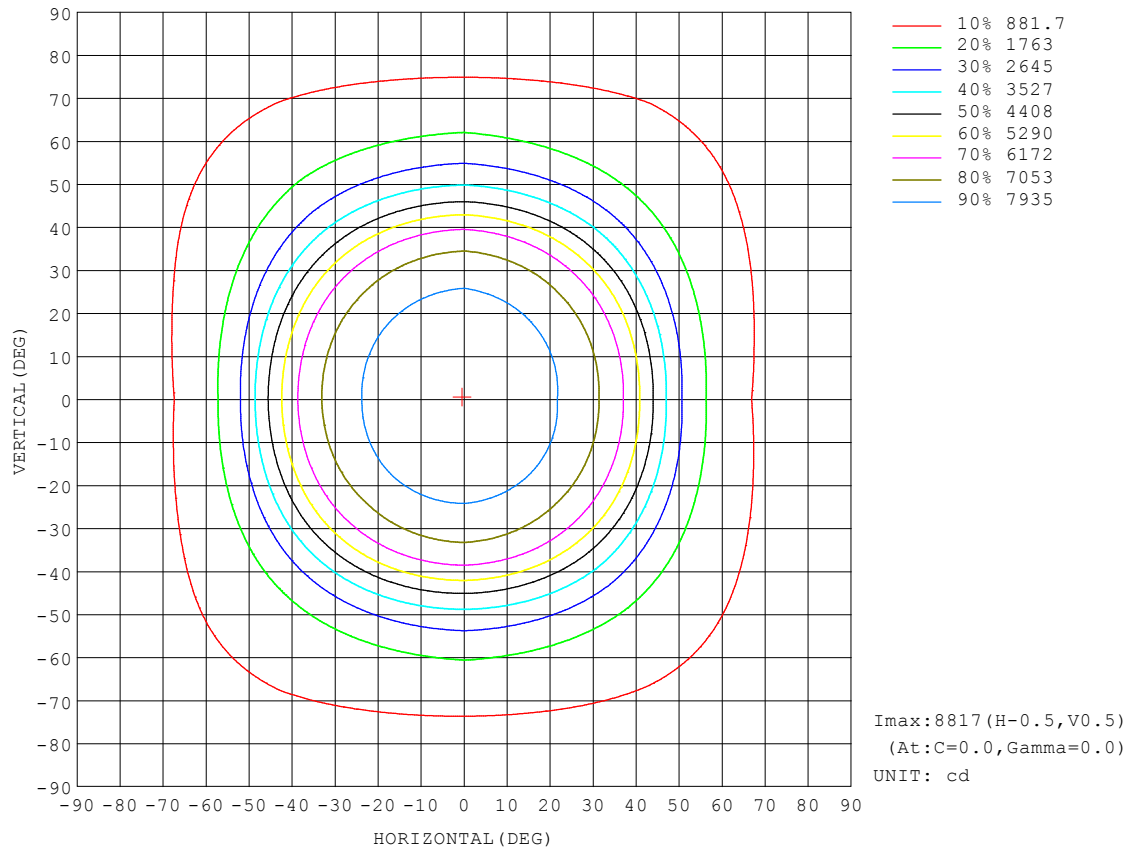
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	65	55	49	63	54	49	43
0.80	75	65	59	74	65	58	72	64	58	52
1.00	83	73	67	82	73	67	79	74	66	60
1.25	89	80	74	88	79	74	85	78	73	66
1.50	93	85	79	92	84	79	89	82	78	71
2.00	99	92	86	97	91	86	94	88	84	77
2.50	102	96	90	100	94	90	96	92	88	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	103	100	98	89
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: 2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm		
NAME: ASD-WHB7-160RGBW	TYPE:	WEIGHT:
SPEC.:160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighing Corp.	SUR.:0.6*0.3	Shielding Angle:

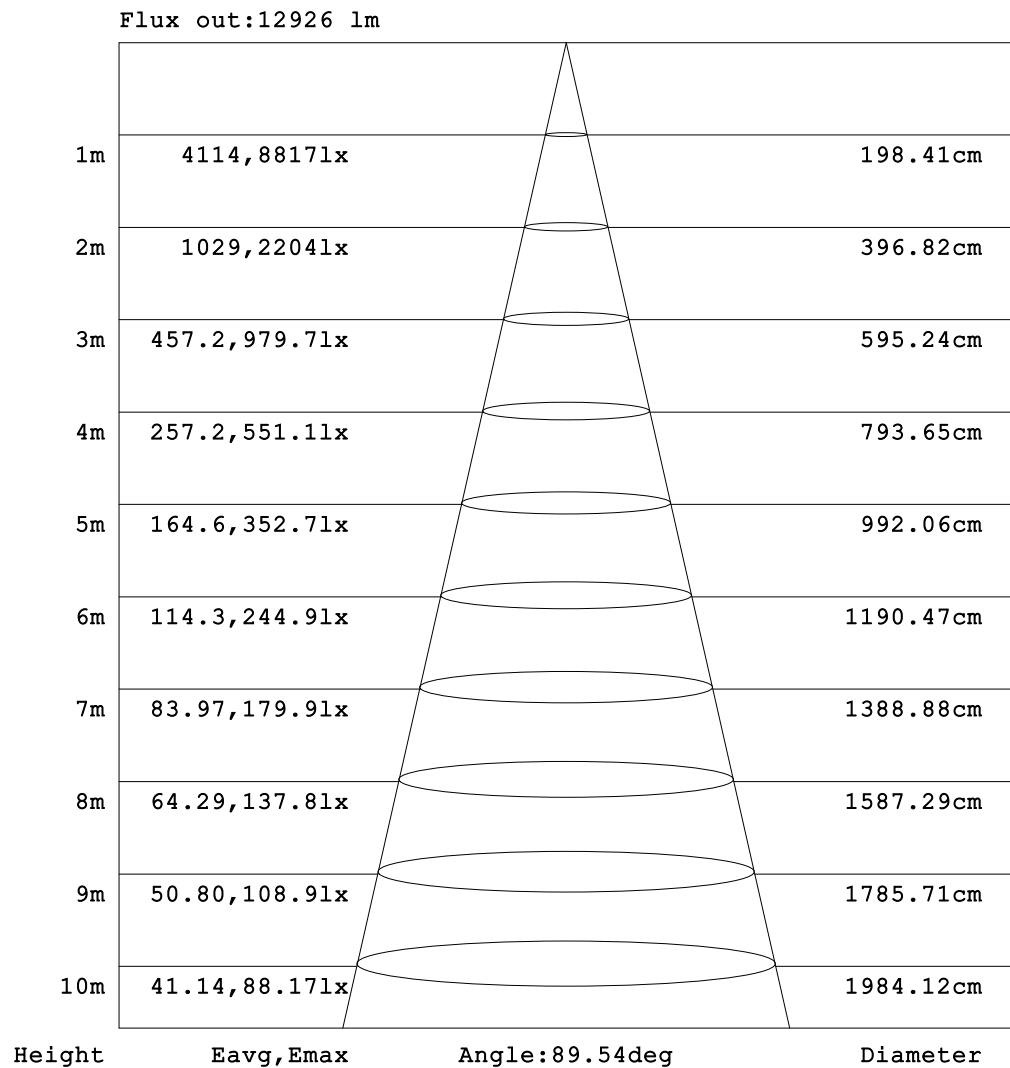


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm		
NAME: ASD-WHB7-160RGBW	TYPE:	WEIGHT:
SPEC.:160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighing Corp.	SUR.:0.6*0.3	Shielding Angle:

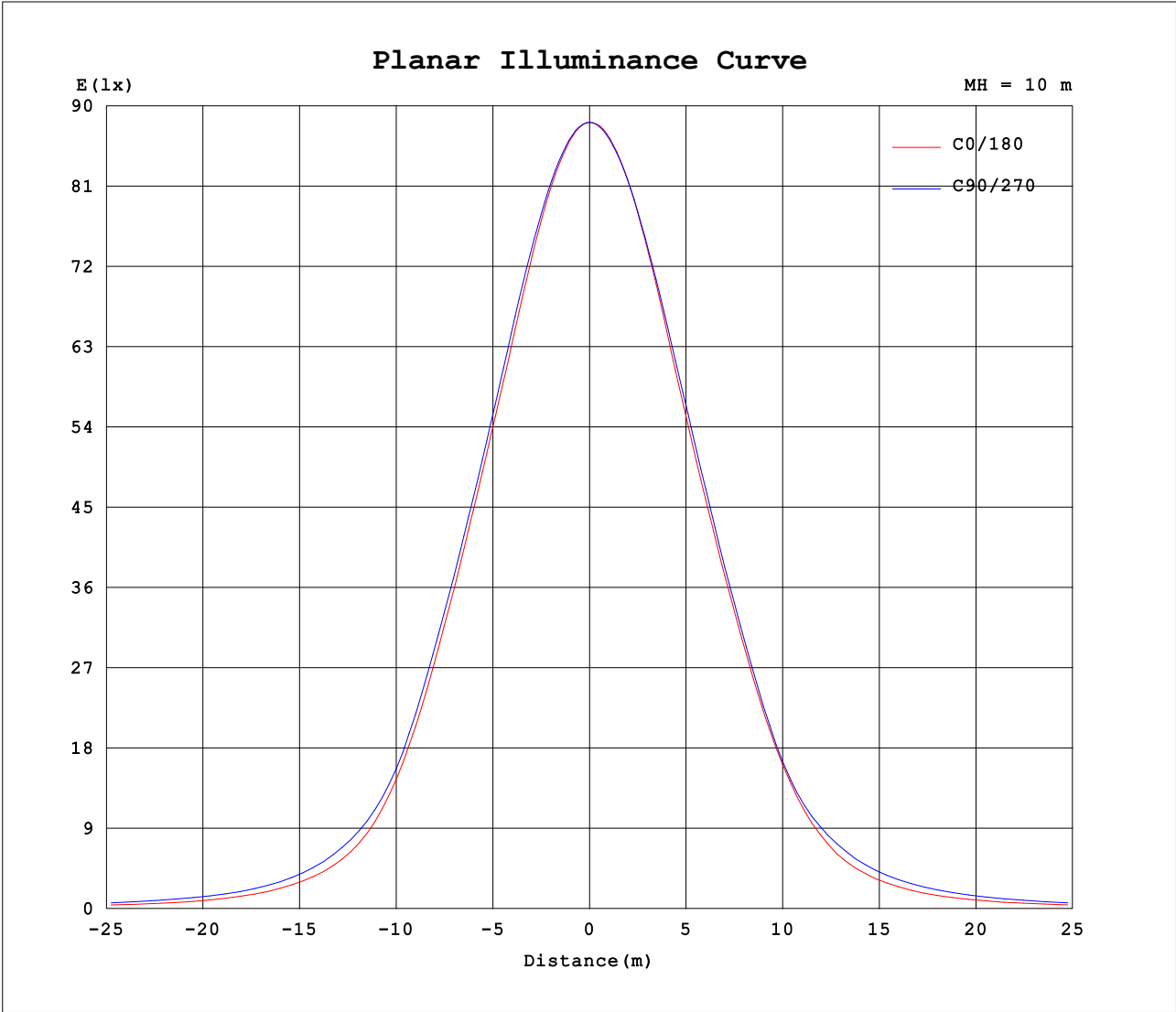


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [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:2025-07-01

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.7V I:1.304A P:150.8W PF:0.9666 Freq:59.98Hz Lamp Flux:19104.8x1 lm								
NAME: ASD-WHB7-160RGBW					TYPE:			WEIGHT:
SPEC.:160W-5000K					DIM.:			SERIAL No.:
MFR.: ASD Lighing Corp.					SUR.:0.6*0.3			Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8816	8816	8816	8816	8816	8816	8816	8816										
5	8761	8771	8778	8786	8795	8791	8781	8773										
10	8621	8645	8667	8679	8689	8693	8683	8654										
15	8395	8435	8487	8496	8499	8519	8522	8458										
20	8063	8151	8234	8234	8221	8264	8297	8179										
25	7681	7757	7873	7862	7835	7913	7992	7813										
30	7211	7267	7426	7359	7397	7461	7583	7344										
35	6538	6634	6809	6739	6798	6853	6978	6718										
40	5503	5652	5846	5816	5886	5946	6060	5722										
45	4110	4298	4442	4465	4571	4579	4672	4340										
50	2777	3172	3295	3220	3158	3356	3489	3185										
55	1927	2250	2458	2252	2089	2435	2624	2280										
60	1337	1610	1825	1598	1414	1791	1964	1653										
65	955	1230	1441	1215	992	1363	1502	1262										
70	821	1003	1144	1014	818	1092	1127	1042										
75	735	798	790	833	759	877	877	872										
80	509	537	483	575	564	637	691	631										
85	247	260	277	285	312	352	403	324										
90	3.79	3.21	3.04	6.99	28.3	25.7	18.8	12.1										
95	3.34	3.91	3.74	3.74	5.98	6.94	6.95	7.09										
100	4.35	4.67	4.59	4.39	7.80	8.39	8.50	8.61										
105	5.75	5.97	5.98	5.60	10.3	10.7	11.1	11.0										
110	7.56	7.71	7.72	7.27	13.6	13.9	14.3	14.4										
115	9.86	9.95	9.95	9.53	17.6	17.9	18.4	18.6										
120	12.5	12.6	12.7	12.2	22.1	22.5	22.8	23.3										
125	15.5	15.5	15.8	15.2	26.9	27.2	27.7	28.1										
130	18.5	18.6	18.9	18.2	31.5	31.6	32.3	32.6										
135	21.5	21.7	22.0	21.2	35.6	35.6	36.3	36.5										
140	24.8	25.2	25.4	24.6	39.3	39.1	39.9	40.1										
145	28.4	28.8	29.1	28.2	42.5	42.5	42.9	43.2										
150	32.7	32.9	33.2	32.1	45.6	45.4	45.9	45.8										
155	37.4	37.3	37.8	36.2	48.2	47.9	48.4	48.5										
160	42.2	41.9	42.4	40.8	50.5	49.9	50.5	50.5										
165	46.7	46.0	46.5	45.3	52.4	51.6	52.2	52.1										
170	50.3	49.5	50.0	48.9	53.8	53.0	53.3	53.3										
175	53.0	51.9	52.4	51.5	54.3	53.2	53.7	53.3										
180	54.0	53.0	53.6	52.9	54.1	53.1	53.7	52.9										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:27DEG

Operators:lianghaizhu-1

Test Date:2025-07-01

□ Range: 0 - 180DEG

□ Interval: 1.0DEG

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

Humidity:56%

Test Distance:8.300m [K=1.0000]

Remarks: