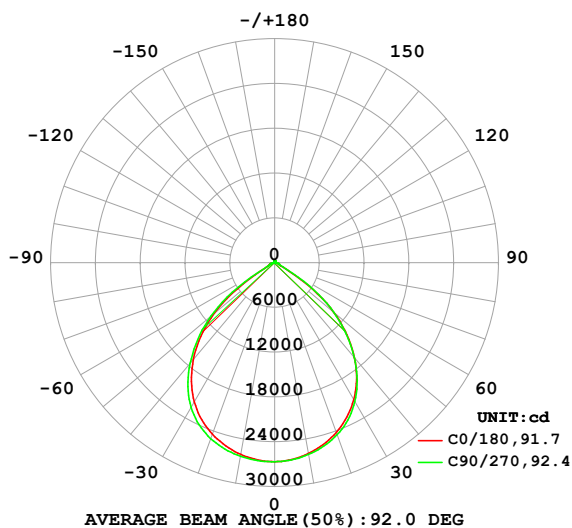


LUMINAIRE PHOTOMETRIC TEST REPORT

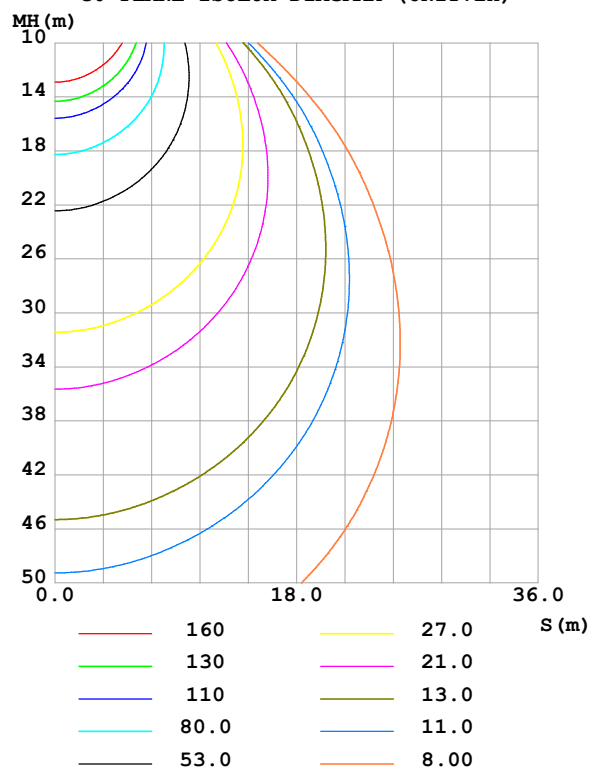
Test:U:200.20V I:1.6316A P:324.03W PF:0.9920 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:51261.5x1 lm		
NAME: ASD-WHB5BHV-ST-320	TYPE:	WEIGHT:
SPEC.: 320W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.52*0.37m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.20 lm/W			
MODEL	ASD-WHB5BHV-ST-320	I _{max} (cd)	26677	S/MH(C0/180)	1.20
NOMINAL POWER(W)	320	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	200	TOTAL FLUX(lm)	51262	η UP,DN(C0-180)	0.6,48.8
NOMINAL FLUX(lm)	51261.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,49.9
LAMPS INSIDE	1	η up (%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	200	η down (%)	98.7	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-05-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2597	2597	2611	2612	2609	2623	2635	2621	0- 10	2520	2520	4.92,4.92
20	2420	2422	2453	2450	2444	2477	2509	2468	10- 20	7186	9706	18.9,18.9
30	2121	2109	2151	2143	2155	2189	2238	2180	20- 30	10706	20411	39.8,39.8
40	1664	1635	1663	1662	1695	1728	1761	1705	30- 40	12120	32531	63.5,63.5
50	1040	1011	1030	1033	1053	1091	1118	1067	40- 50	10648	43179	84.2,84.2
60	183.8	257.6	208.8	256.2	155.0	271.1	183.1	253.5	50- 60	5731	48910	95.4,95.4
70	60.93	65.92	61.03	70.31	67.10	73.84	65.96	67.25	60- 70	1066	49976	97.5,97.5
80	27.66	24.74	33.93	27.51	30.15	28.08	34.18	24.43	70- 80	480.4	50456	98.4,98.4
90	0.7914	1.027	1.902	0.9876	1.010	1.060	1.037	1.004	80- 90	129.2	50585	98.7,98.7
100	2.154	2.304	2.345	2.278	2.640	2.707	2.749	2.691	90-100	17.09	50603	98.7,98.7
110	4.951	5.163	5.292	5.157	5.762	5.788	5.860	5.761	100-110	40.80	50643	98.8,98.8
120	8.832	9.056	9.291	9.082	9.925	9.824	9.926	9.795	110-120	73.44	50717	98.9,98.9
130	12.78	13.02	13.32	13.04	14.00	13.88	14.01	13.85	120-130	102.7	50820	99.1,99.1
140	16.35	16.66	16.82	16.66	17.62	17.54	17.57	17.56	130-140	118.4	50938	99.4,99.4
150	20.10	20.45	20.56	20.37	21.36	21.22	21.24	21.26	140-150	118.3	51056	99.6,99.6
160	24.25	24.47	24.58	24.34	25.14	24.80	24.86	24.94	150-160	104.9	51161	99.8,99.8
170	27.47	27.20	27.49	27.06	27.91	27.26	27.59	27.42	160-170	73.73	51235	99.9,99.9
180	28.91	28.39	28.81	28.40	28.91	28.39	28.81	28.40	170-180	26.63	51262	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 38234 lm

%lum = 74.6%

%lamp = 74.6%

Conical surface Flux(130deg): 49594 lm

%lum = 96.7%

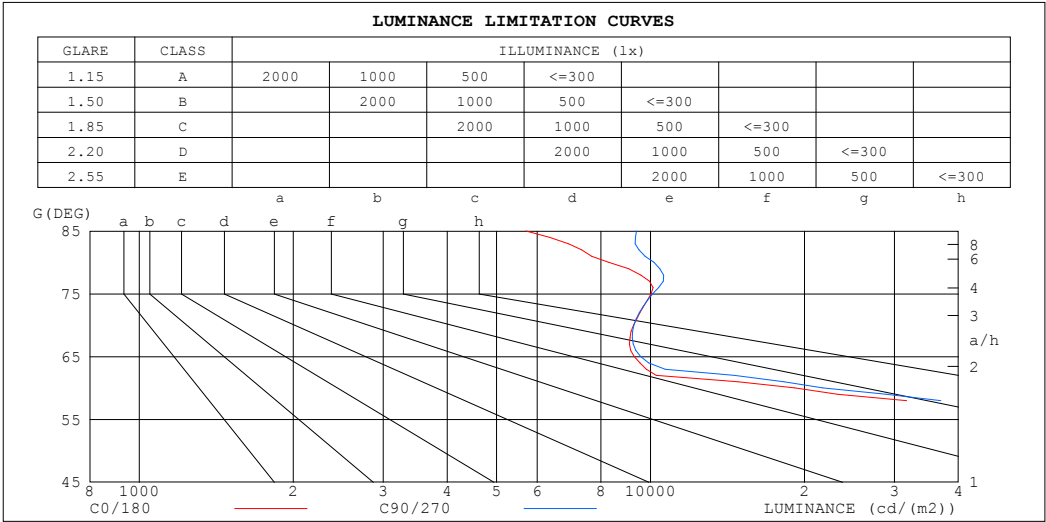
%lamp = 96.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:lianghaizhu-2
 Test Date:2025-05-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:9.770m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:200.20V I:1.6316A P:324.03W PF:0.9920 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:51261.5x1 lm		
NAME: ASD-WHB5BHV-ST-320	TYPE:	WEIGHT:
SPEC.: 320W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.52*0.37m	Shielding Angle:



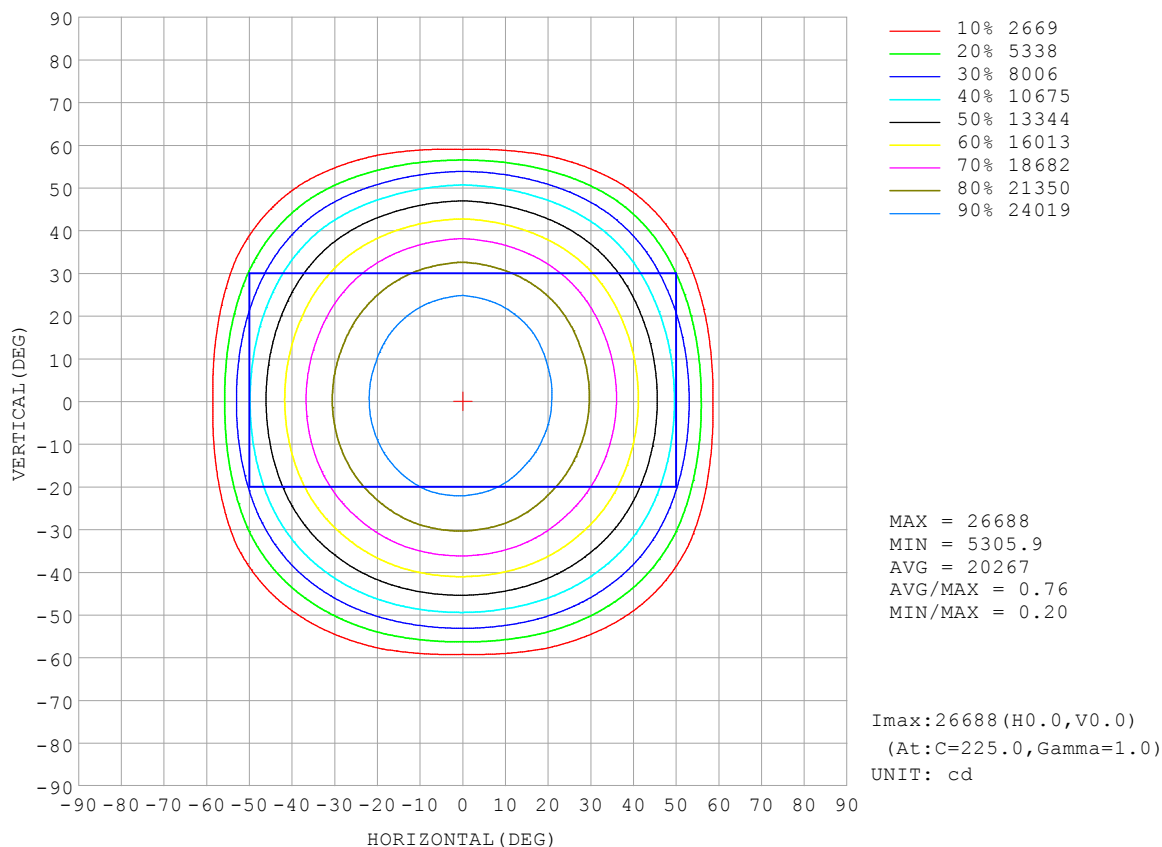
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5703	9388
80	8286	10152
75	10027	10098
70	9268	9271
65	9288	9560
60	19130	21700
55	56135	59201
50	84206	83221
45	100851	100047

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-05-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:200.20V I:1.6316A P:324.03W PF:0.9920 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:51261.5x1 lm		
NAME: ASD-WHB5BHV-ST-320	TYPE:	WEIGHT:
SPEC.: 320W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.52*0.37m	Shielding Angle:

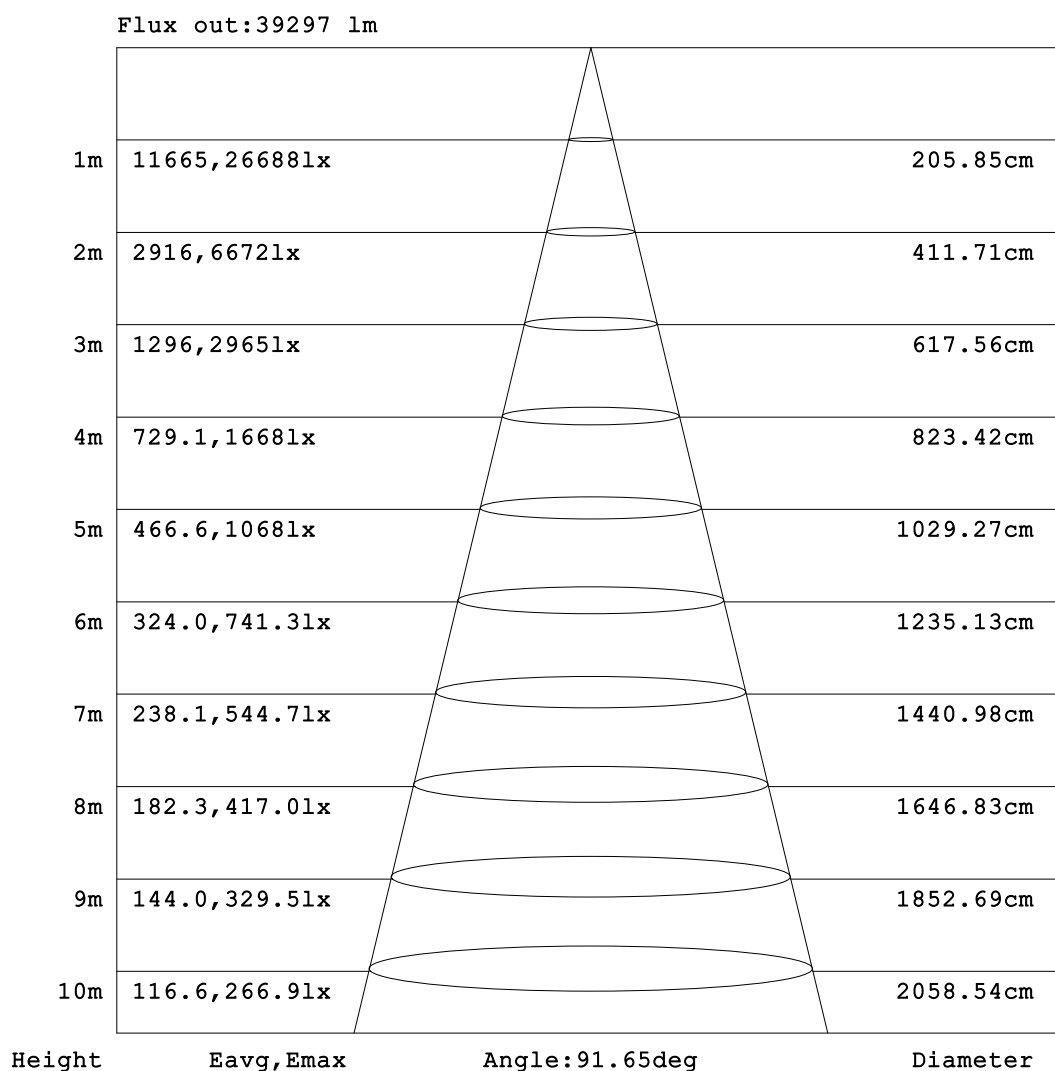


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-05-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

AAI Figure

Test:U:200.20V I:1.6316A P:324.03W PF:0.9920 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:51261.5x1 lm		
NAME: ASD-WHB5BHV-ST-320	TYPE:	WEIGHT:
SPEC.: 320W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.52*0.37m	Shielding Angle:



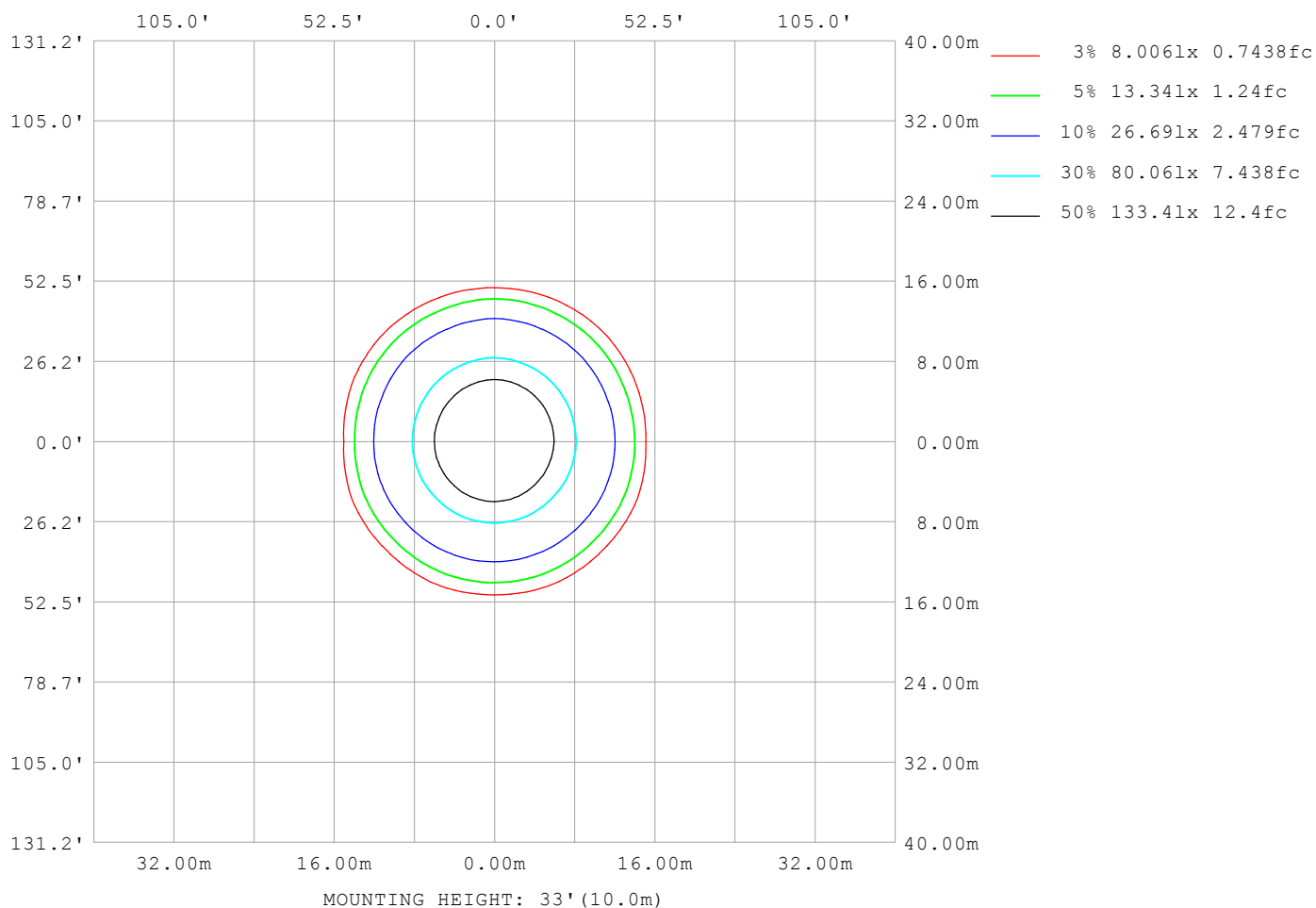
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: lianghaizhu-2
Test Date: 2025-05-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 9.770m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

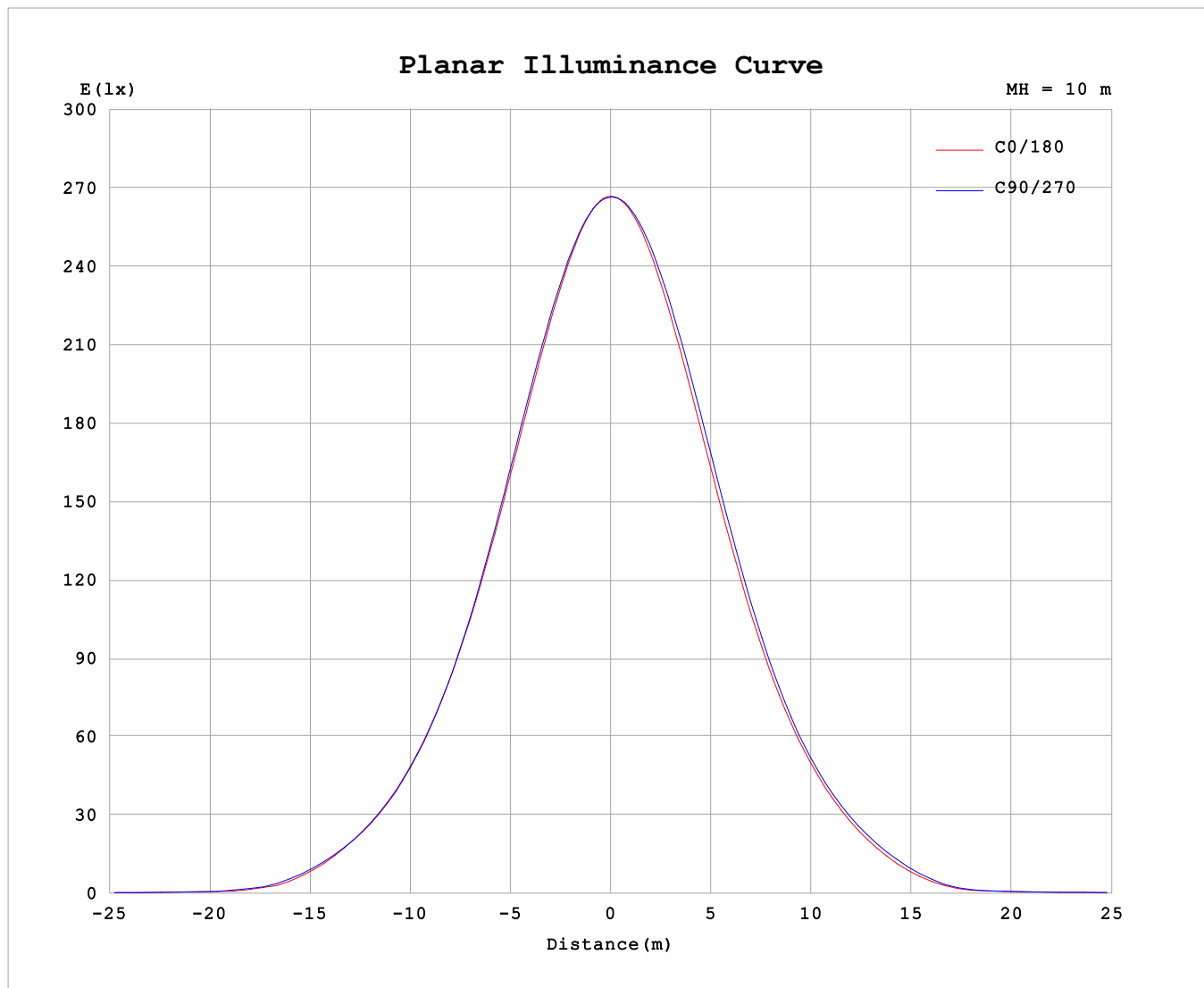
Test:U:200.20V I:1.6316A P:324.03W PF:0.9920 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:51261.5x1 lm		
NAME: ASD-WHB5BHV-ST-320	TYPE:	WEIGHT:
SPEC.: 320W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.52*0.37m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:lianghaizhu-2
Test Date:2025-05-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:9.770m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: lianghaizhu-2
Test Date: 2025-05-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 9.770m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:200.20V I:1.6316A P:324.03W PF:0.9920 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:51261.5x1 lm		
NAME: ASD-WHB5BHV-ST-320	TYPE:	WEIGHT:
SPEC.: 320W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.52*0.37m	Shielding Angle:

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666	2666			
5	2648	2647	2647	2648	2651	2652	2650	2654	2652	2653	2657	2660	2661	2659	2656	2651			
10	2597	2595	2597	2606	2611	2613	2612	2614	2609	2613	2623	2630	2635	2630	2621	2608			
15	2522	2518	2521	2536	2546	2551	2546	2545	2540	2546	2564	2576	2586	2576	2559	2537			
20	2420	2417	2422	2440	2453	2459	2450	2448	2444	2453	2477	2496	2509	2493	2468	2438			
25	2289	2282	2288	2311	2325	2328	2318	2318	2318	2328	2355	2381	2397	2377	2347	2308			
30	2121	2108	2109	2137	2151	2153	2143	2151	2155	2161	2189	2218	2238	2212	2180	2140			
35	1913	1895	1892	1916	1928	1932	1924	1940	1946	1952	1981	2005	2026	1997	1965	1929			
40	1664	1646	1635	1652	1663	1668	1662	1684	1695	1704	1728	1742	1761	1730	1705	1672			
45	1371	1354	1338	1350	1362	1368	1366	1390	1403	1411	1435	1439	1461	1425	1405	1375			
50	1040	1029	1011	1021	1030	1035	1033	1052	1053	1060	1091	1088	1118	1084	1067	1037			
55	619	644	637	653	654	657	642	648	606	653	679	671	691	674	666	631			
60	184	257	258	259	209	260	256	263	155	260	271	250	183	241	253	231			
65	75.4	82.7	94.6	90.6	77.8	91.8	97.3	90.8	81.7	90.2	102	93.1	83.4	91.2	96.4	80.4			
70	60.9	57.8	65.9	64.0	61.0	65.3	70.3	63.6	67.1	63.6	73.8	66.7	66.0	64.5	67.3	56.5			
75	49.9	39.8	37.5	45.5	50.3	47.2	41.9	44.8	55.8	43.5	44.8	46.8	54.3	44.3	36.2	38.4			
80	27.7	23.4	24.7	27.4	33.9	29.7	27.5	26.6	30.1	24.5	28.1	27.5	34.2	24.9	24.4	21.7			
85	9.55	8.89	11.2	12.5	15.7	13.4	12.7	9.91	10.7	8.47	11.3	11.2	14.0	10.1	9.58	7.40			
90	0.79	0.90	1.03	1.39	1.90	1.40	0.99	0.95	1.01	1.04	1.06	1.07	1.04	1.02	1.00	0.98			
95	1.26	1.30	1.37	1.37	1.38	1.36	1.35	1.27	1.58	1.63	1.66	1.71	1.69	1.71	1.65	1.62			
100	2.15	2.20	2.30	2.31	2.34	2.30	2.28	2.17	2.64	2.68	2.71	2.77	2.75	2.76	2.69	2.67			
105	3.39	3.44	3.57	3.60	3.65	3.59	3.55	3.42	4.04	4.07	4.08	4.17	4.14	4.15	4.07	4.06			
110	4.95	5.01	5.16	5.22	5.29	5.21	5.16	5.00	5.76	5.79	5.79	5.88	5.86	5.87	5.76	5.77			
115	6.82	6.86	7.06	7.13	7.23	7.13	7.06	6.88	7.78	7.78	7.76	7.86	7.83	7.83	7.73	7.76			
120	8.83	8.86	9.06	9.17	9.29	9.18	9.08	8.90	9.92	9.87	9.82	9.93	9.93	9.92	9.79	9.85			
125	10.8	10.8	11.0	11.2	11.3	11.2	11.1	10.9	12.0	11.9	11.9	12.0	12.0	12.0	11.8	11.9			
130	12.8	12.8	13.0	13.2	13.3	13.2	13.0	12.9	14.0	13.9	13.9	14.0	14.0	14.0	13.9	13.9			
135	14.6	14.7	14.9	15.0	15.1	15.0	14.9	14.8	15.9	15.9	15.8	15.9	15.9	15.9	15.8	15.8			
140	16.3	16.5	16.7	16.7	16.8	16.7	16.7	16.5	17.6	17.6	17.5	17.6	17.6	17.6	17.6	17.6			
145	18.1	18.3	18.5	18.5	18.6	18.5	18.4	18.2	19.4	19.3	19.3	19.4	19.4	19.4	19.4	19.5			
150	20.1	20.3	20.5	20.5	20.6	20.5	20.4	20.1	21.4	21.2	21.2	21.3	21.2	21.3	21.3	21.4			
155	22.2	22.4	22.5	22.5	22.6	22.6	22.4	22.2	23.4	23.1	23.1	23.2	23.1	23.1	23.2	23.4			
160	24.2	24.5	24.5	24.4	24.6	24.6	24.3	24.1	25.1	24.8	24.8	25.0	24.9	24.8	24.9	25.2			
165	26.0	26.2	26.1	25.9	26.3	26.2	25.9	25.8	26.7	26.2	26.2	26.5	26.4	26.2	26.4	26.7			
170	27.5	27.5	27.2	27.1	27.5	27.3	27.1	27.0	27.9	27.3	27.3	27.5	27.6	27.3	27.4	27.8			
175	28.4	28.1	28.0	27.9	28.4	28.0	27.9	28.0	28.6	28.1	28.0	28.1	28.4	28.0	28.1	28.3			
180	28.9	28.5	28.4	28.3	28.8	28.3	28.4	28.5	28.9	28.4	28.4	28.3	28.8	28.3	28.4	28.5			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:lianghaizhu-2

Test Date:2025-05-08

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488

Humidity:65.0%

Test Distance:9.770m [K=1.0000]

Remarks: