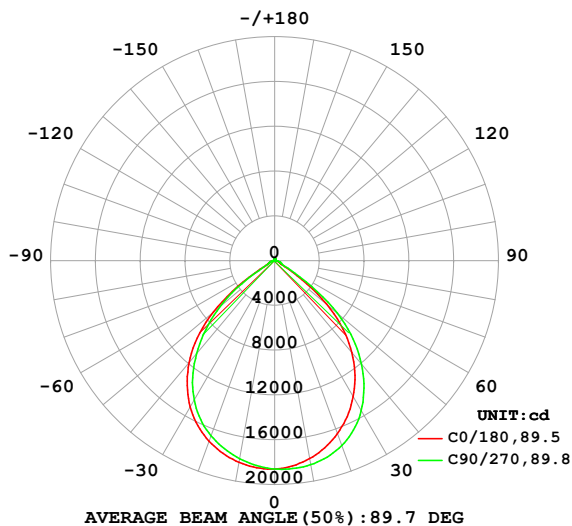


LUMINAIRE PHOTOMETRIC TEST REPORT

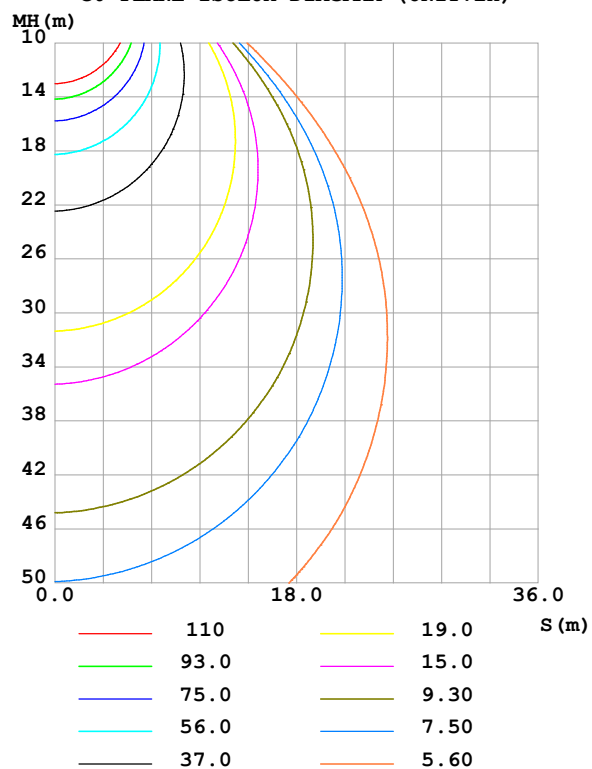
Test:U:200.20V I:1.0876A P:216.83W PF:0.9958 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34386x1 lm		
NAME: ASD-WHB5BHV-ST-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.59 lm/W			
MODEL	ASD-WHB5BHV-ST-220	I _{max} (cd)	18680	S/MH(C0/180)	1.21
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	200	TOTAL FLUX(lm)	34386	η UP,DN(C0-180)	0.6,50.6
NOMINAL FLUX(lm)	34386	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,48.0
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	1796	1827	1851	1850	1830	1810	1797	1788	0- 10	1756	1756	5.11,5.11
20	1643	1706	1757	1755	1715	1684	1664	1636	10- 20	4981	6736	19.6,19.6
30	1404	1481	1548	1548	1509	1465	1438	1389	20- 30	7343	14079	40.9,40.9
40	1074	1136	1205	1214	1189	1133	1086	1049	30- 40	8206	22285	64.8,64.8
50	604.5	659.8	731.2	747.7	715.2	680.7	636.7	603.8	40- 50	7044	29329	85.3,85.3
60	85.62	151.2	136.9	175.2	111.8	144.6	89.23	123.9	50- 60	3406	32735	95.2,95.2
70	44.34	52.28	53.60	67.10	51.66	54.94	45.96	43.67	60- 70	726.2	33461	97.3,97.3
80	16.75	19.64	28.14	23.26	21.51	19.51	20.59	16.23	70- 80	372.5	33833	98.4,98.4
90	0.5576	0.6329	1.605	1.004	0.7418	0.6604	0.6726	0.7180	80- 90	92.19	33925	98.7,98.7
100	1.496	1.432	1.331	1.289	1.565	1.747	1.900	1.952	90-100	11.04	33936	98.7,98.7
110	3.441	3.262	3.091	2.988	3.522	3.818	4.112	4.162	100-110	26.33	33963	98.8,98.8
120	6.172	5.870	5.650	5.470	6.259	6.645	7.066	7.106	110-120	48.21	34011	98.9,98.9
130	9.028	8.662	8.462	8.198	9.176	9.575	10.11	10.07	120-130	69.08	34080	99.1,99.1
140	11.63	11.33	11.03	10.85	11.85	12.28	12.70	12.75	130-140	81.10	34161	99.3,99.3
150	14.29	14.00	13.68	13.50	14.49	14.86	15.23	15.31	140-150	81.83	34243	99.6,99.6
160	17.23	16.88	16.60	16.37	17.27	17.45	17.81	17.87	150-160	72.82	34316	99.8,99.8
170	19.43	18.99	18.95	18.63	19.39	19.27	19.62	19.50	160-170	51.48	34367	99.9,99.9
180	20.36	19.95	20.21	19.90	20.37	19.96	20.23	19.90	170-180	18.68	34386	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 26098 lm

%lum = 75.9%

%lamp = 75.9%

Conical surface Flux(130deg): 33165 lm

%lum = 96.4%

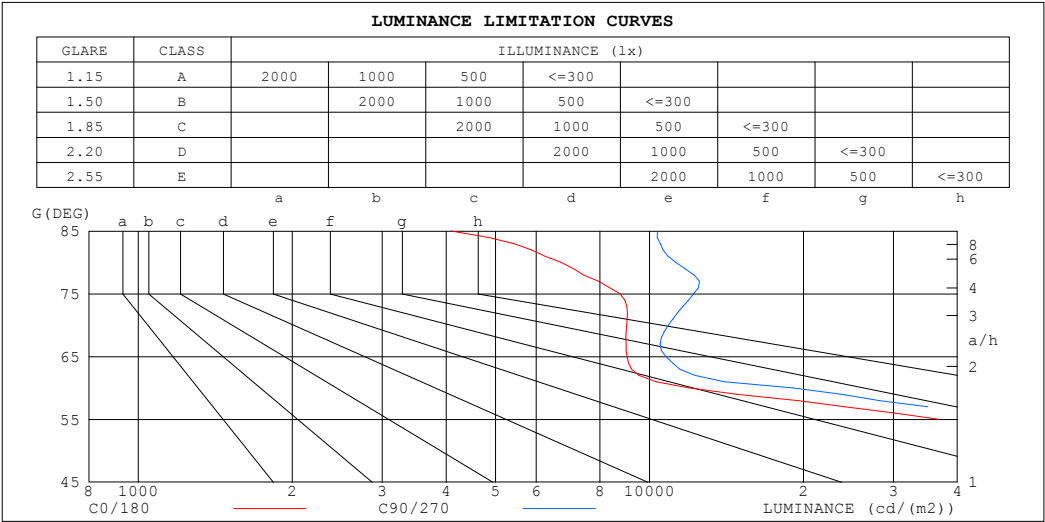
%lamp = 96.4%

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:1.0876A P:216.83W PF:0.9958 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34386x1 lm		
NAME: ASD-WHB5BHV-ST-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:



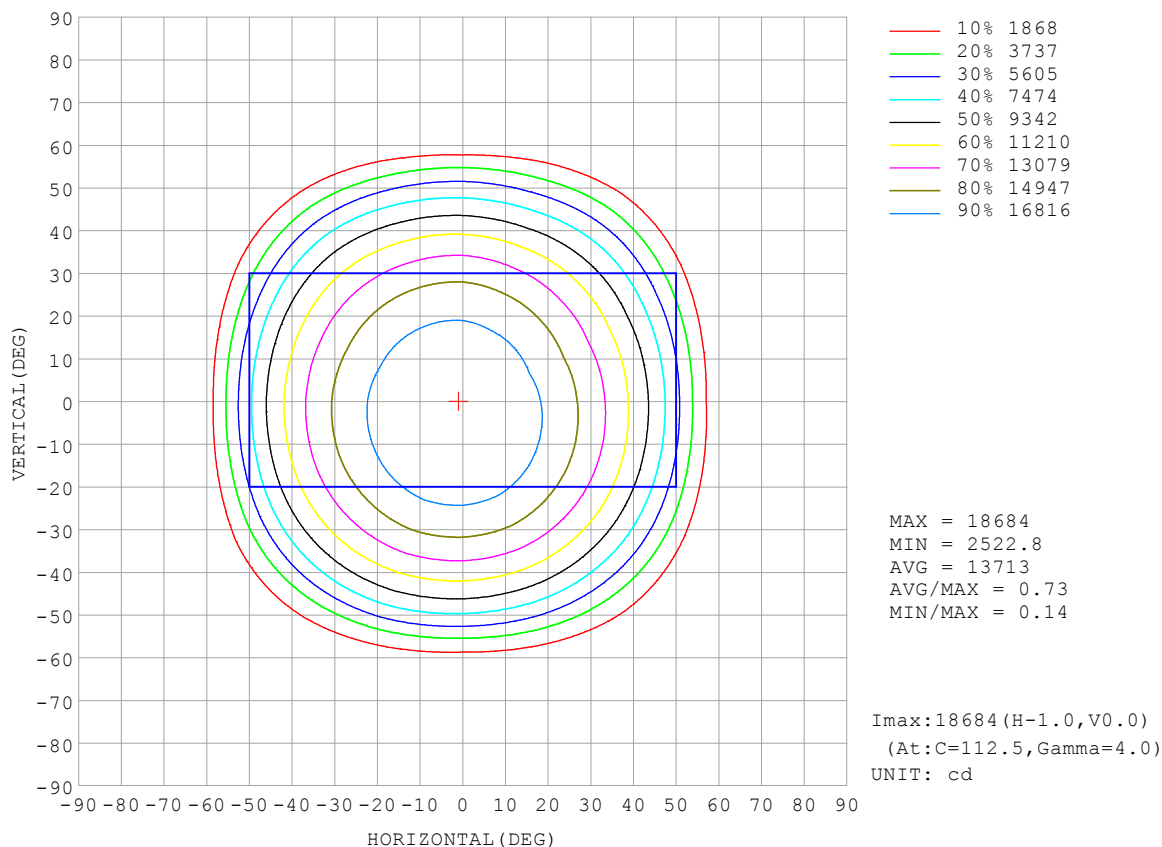
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4091	10362
80	6720	11254
75	8753	12206
70	9032	10883
65	9034	10761
60	11930	19009
55	36722	49090
50	65511	78990
45	85059	97596

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:1.0876A P:216.83W PF:0.9958 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34386x1 lm		
NAME: ASD-WHB5BHV-ST-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:

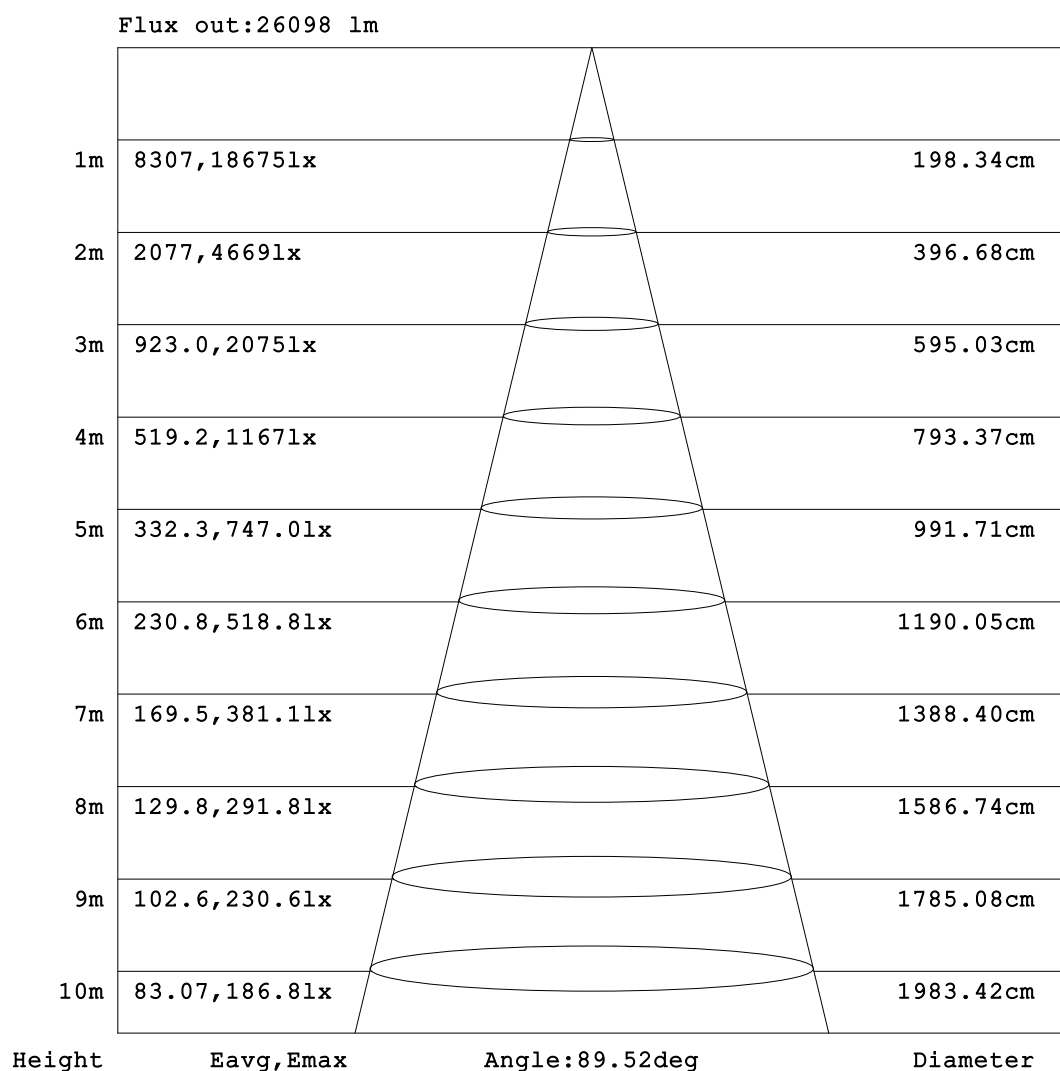


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-05-08

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:1.0876A P:216.83W PF:0.9958 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34386x1 lm		
NAME: ASD-WHB5BHV-ST-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:



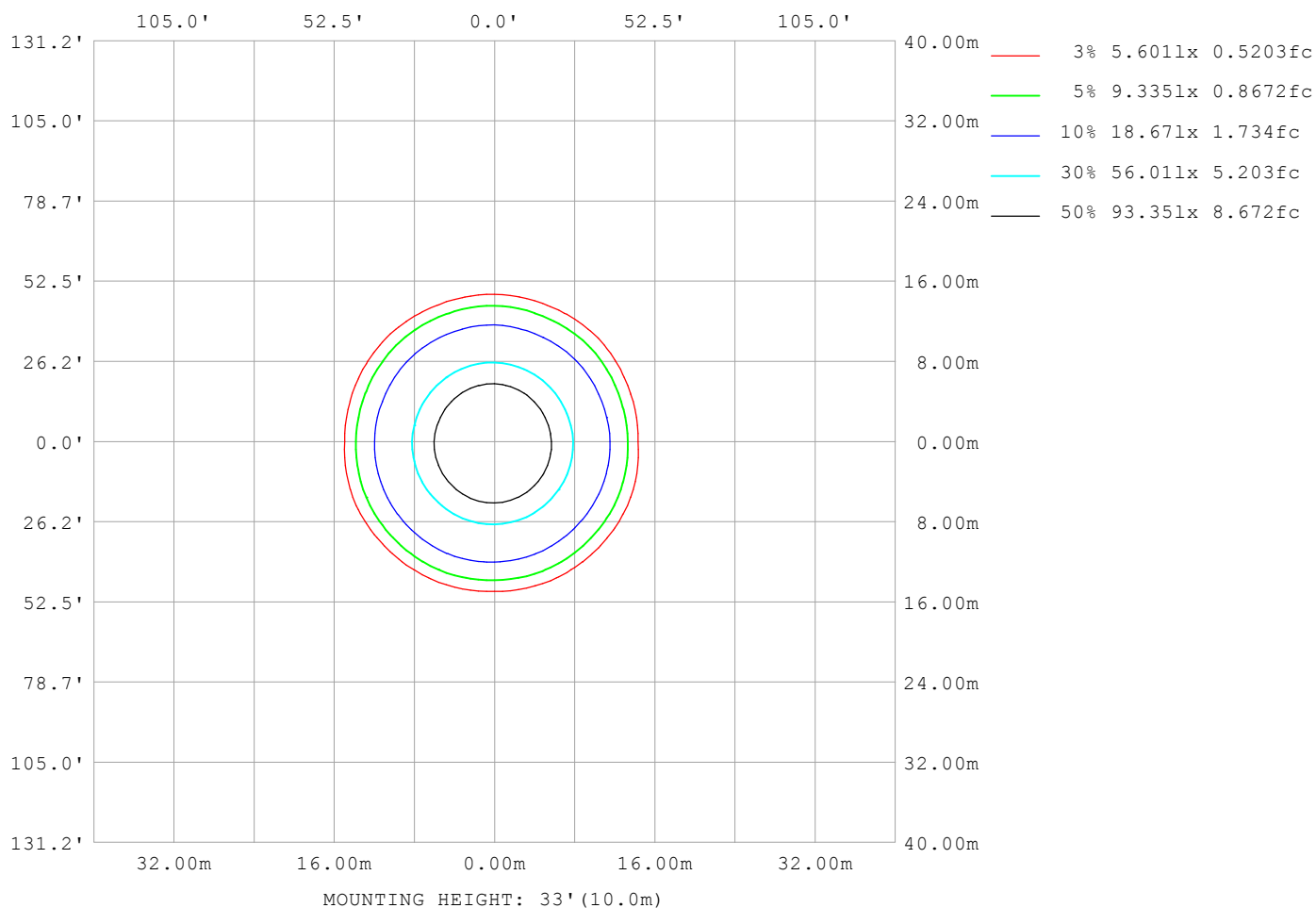
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 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:

ISOLUX DIAGRAM

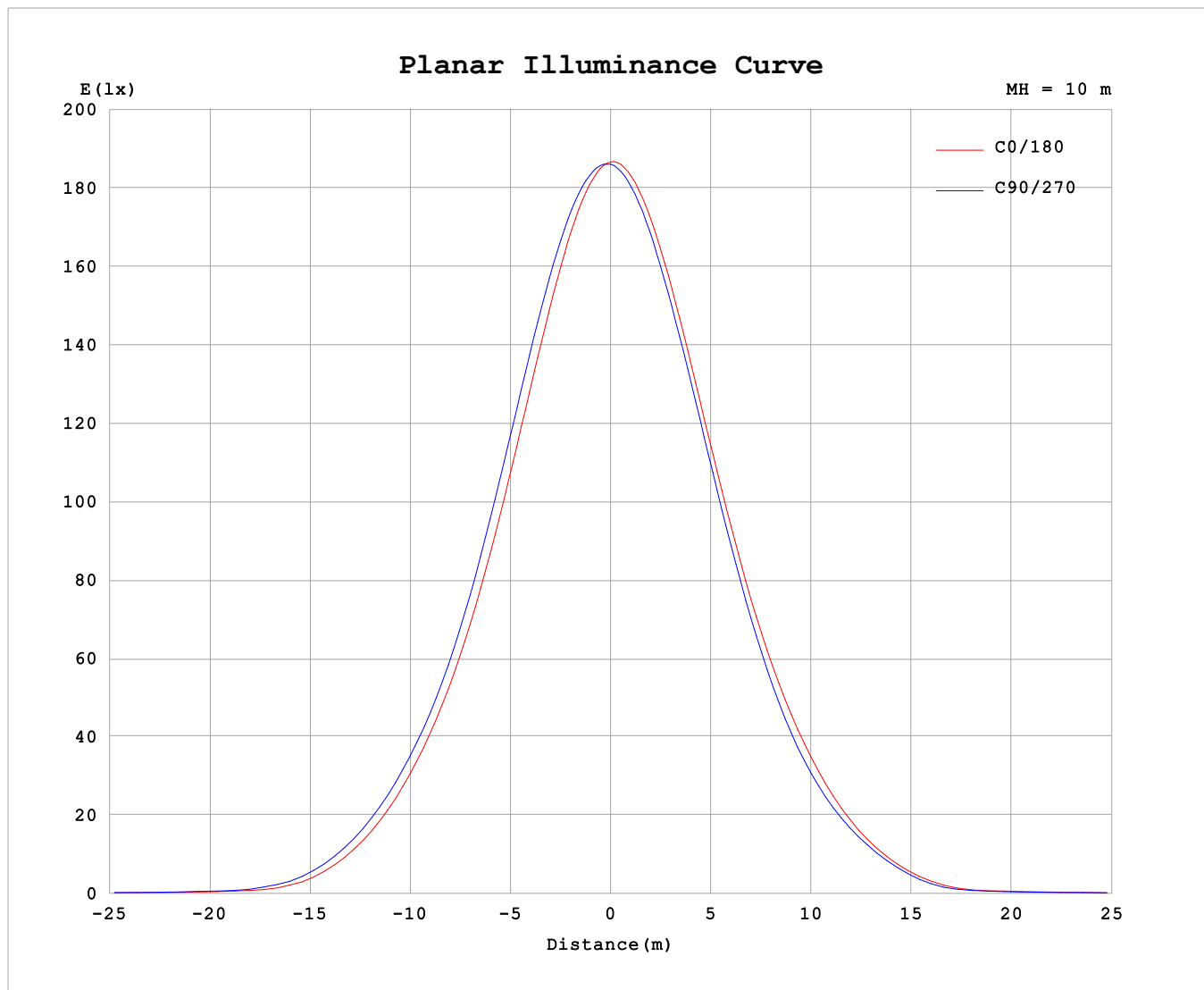
Test:U:200.20V I:1.0876A P:216.83W PF:0.9958 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34386x1 lm		
NAME: ASD-WHB5BHV-ST-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:



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:1.0876A P:216.83W PF:0.9958 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:34386x1 lm		
NAME: ASD-WHB5BHV-ST-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	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	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861	1861			
5	1839	1846	1854	1860	1864	1868	1867	1862	1857	1851	1847	1841	1837	1835	1836	1835			
10	1796	1810	1827	1841	1851	1854	1850	1841	1830	1818	1810	1802	1797	1791	1788	1787			
15	1731	1753	1779	1802	1816	1821	1814	1803	1784	1765	1756	1746	1739	1728	1722	1718			
20	1643	1674	1706	1740	1757	1764	1755	1740	1715	1694	1684	1672	1664	1648	1636	1627			
25	1535	1571	1610	1649	1669	1678	1669	1653	1624	1598	1588	1575	1566	1543	1525	1515			
30	1404	1441	1481	1525	1548	1560	1548	1536	1509	1478	1465	1449	1438	1411	1389	1380			
35	1251	1286	1324	1367	1391	1407	1395	1389	1362	1332	1313	1291	1279	1249	1231	1224			
40	1074	1104	1136	1179	1205	1220	1214	1211	1189	1157	1133	1102	1086	1056	1049	1044			
45	863	888	918	961	994	1011	1003	999	980	949	925	887	868	839	840	836			
50	604	635	660	702	731	758	748	740	715	689	681	652	637	604	604	588			
55	302	355	375	400	405	432	432	439	403	397	394	367	359	338	342	314			
60	85.6	127	151	147	137	160	175	174	112	151	145	130	89.2	109	124	110			
65	54.8	61.5	71.3	73.5	65.5	82.1	87.5	78.5	63.5	68.7	73.6	64.0	55.6	57.8	60.0	54.7			
70	44.3	45.3	52.3	54.1	53.6	61.3	67.1	57.9	51.7	49.0	54.9	48.4	46.0	43.4	43.7	39.3			
75	32.5	31.2	31.2	38.5	45.5	44.4	39.6	40.3	40.6	32.8	31.2	33.9	36.2	30.0	26.1	26.0			
80	16.7	17.6	19.6	22.9	28.1	26.9	23.3	22.8	21.5	17.8	19.5	19.4	20.6	17.0	16.2	13.9			
85	5.12	5.26	7.61	9.96	13.0	11.1	10.02	7.59	6.98	5.63	6.82	7.43	8.92	6.68	5.13	3.71			
90	0.56	0.59	0.63	0.91	1.60	1.28	1.00	0.89	0.74	0.65	0.66	0.68	0.67	0.72	0.72	0.71			
95	0.88	0.85	0.85	0.81	0.78	0.76	0.76	0.73	0.93	1.00	1.06	1.13	1.16	1.21	1.20	1.18			
100	1.50	1.44	1.43	1.36	1.33	1.28	1.29	1.24	1.56	1.66	1.75	1.85	1.90	1.97	1.95	1.92			
105	2.36	2.26	2.24	2.14	2.10	2.03	2.03	1.98	2.43	2.56	2.67	2.81	2.89	2.96	2.94	2.91			
110	3.44	3.32	3.26	3.15	3.09	3.01	2.99	2.95	3.52	3.68	3.82	4.02	4.11	4.20	4.16	4.12			
115	4.74	4.59	4.50	4.36	4.30	4.19	4.16	4.12	4.83	5.00	5.18	5.41	5.53	5.63	5.58	5.54			
120	6.17	5.98	5.87	5.73	5.65	5.52	5.47	5.44	6.26	6.45	6.65	6.92	7.07	7.17	7.11	7.06			
125	7.62	7.40	7.27	7.14	7.06	6.91	6.82	6.82	7.73	7.92	8.13	8.43	8.61	8.71	8.61	8.56			
130	9.03	8.79	8.66	8.54	8.46	8.29	8.20	8.20	9.18	9.37	9.57	9.90	10.1	10.2	10.1	10.01			
135	10.4	10.2	10.0	9.89	9.79	9.63	9.55	9.55	10.5	10.8	11.0	11.3	11.5	11.6	11.5	11.4			
140	11.6	11.5	11.3	11.2	11.0	10.9	10.8	10.8	11.8	12.1	12.3	12.6	12.7	12.8	12.8	12.7			
145	12.9	12.8	12.6	12.4	12.3	12.2	12.1	12.1	13.1	13.3	13.5	13.8	13.9	14.0	14.0	13.9			
150	14.3	14.2	14.0	13.8	13.7	13.6	13.5	13.4	14.5	14.6	14.9	15.1	15.2	15.3	15.3	15.3			
155	15.8	15.7	15.5	15.2	15.1	15.0	14.9	14.9	15.9	15.9	16.2	16.5	16.6	16.6	16.7	16.7			
160	17.2	17.1	16.9	16.6	16.6	16.5	16.4	16.3	17.3	17.2	17.5	17.7	17.8	17.8	17.9	17.9			
165	18.5	18.4	18.1	17.8	17.9	17.8	17.6	17.6	18.4	18.3	18.5	18.8	18.8	18.7	18.9	19.0			
170	19.4	19.3	19.0	18.8	19.0	18.8	18.6	18.6	19.4	19.1	19.3	19.5	19.6	19.4	19.5	19.7			
175	20.1	19.8	19.6	19.5	19.7	19.5	19.4	19.4	20.1	19.7	19.7	19.9	20.1	19.8	19.9	20.0			
180	20.4	20.0	20.0	19.9	20.2	19.9	19.9	20.0	20.4	20.0	20.0	19.9	20.2	19.9	19.9	19.9			

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: