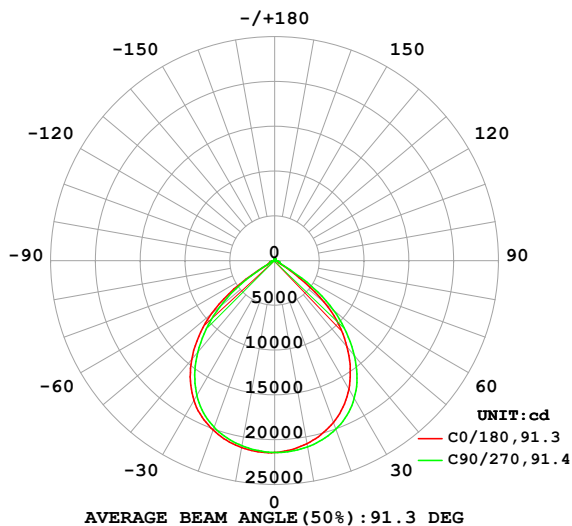


LUMINAIRE PHOTOMETRIC TEST REPORT

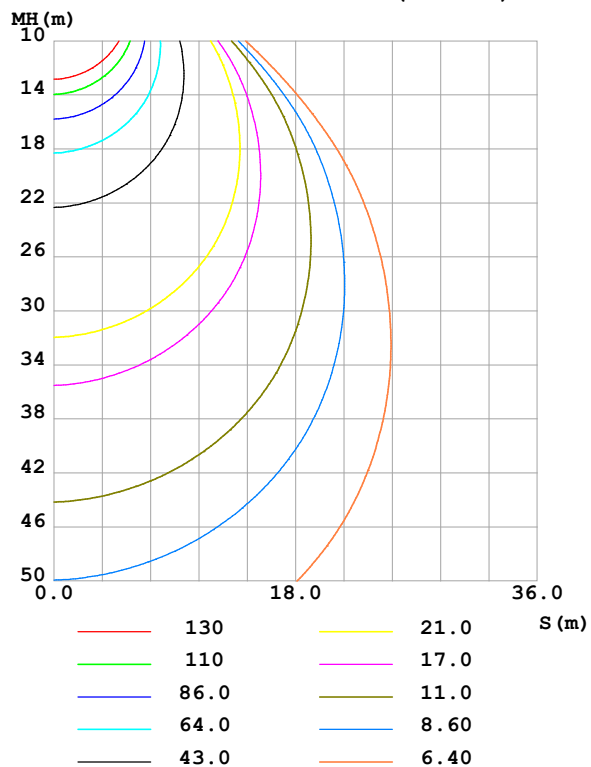
Test:U:200.18V I:1.0972A P:218.84W PF:0.9963 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40769.6x1 lm		
NAME: ASD-WHB5BHV-NEOX-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 186.30 lm/W			
MODEL	ASD-WHB5BHV-NEOX-220	I _{max} (cd)	21459	S/MH(C0/180)	1.24
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	200	TOTAL FLUX(lm)	40770	η UP,DN(C0-180)	0.6,49.6
NOMINAL FLUX(lm)	40769.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,49.0
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:2025-04-25

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	2075	2086	2111	2123	2119	2111	2099	2080	0- 10	2025	2025	4.97,4.97
20	1922	1951	2002	2024	2013	2000	1980	1936	10- 20	5784	7809	19.2,19.2
30	1658	1697	1778	1808	1802	1773	1738	1668	20- 30	8627	16437	40.3,40.3
40	1260	1302	1386	1434	1442	1395	1334	1261	30- 40	9739	26175	64.2,64.2
50	721.5	775.6	856.4	908.4	919.9	869.0	801.3	740.6	40- 50	8445	34620	84.9,84.9
60	81.77	158.2	160.8	224.8	151.1	206.4	125.2	139.0	50- 60	4295	38915	95.5,95.5
70	45.10	52.03	53.83	66.00	55.65	63.59	52.29	49.71	60- 70	815.5	39731	97.5,97.5
80	16.46	19.25	26.28	23.61	22.58	22.68	24.56	18.68	70- 80	395.8	40127	98.4,98.4
90	0.6892	0.7180	0.7623	0.6576	0.6787	0.7713	0.8028	0.8676	80- 90	96.94	40223	98.7,98.7
100	1.879	1.837	1.685	1.542	1.794	1.994	2.208	2.344	90-100	13.06	40237	98.7,98.7
110	4.272	4.130	3.877	3.611	4.121	4.409	4.789	4.987	100-110	31.71	40268	98.8,98.8
120	7.579	7.304	6.990	6.605	7.374	7.692	8.231	8.462	110-120	57.93	40326	98.9,98.9
130	10.89	10.61	10.33	9.848	10.79	11.07	11.70	11.88	120-130	82.43	40409	99.1,99.1
140	13.87	13.70	13.34	12.94	13.87	14.18	14.70	14.96	130-140	96.13	40505	99.4,99.4
150	17.00	16.82	16.42	15.99	16.92	17.20	17.71	17.98	140-150	96.57	40601	99.6,99.6
160	20.40	20.09	19.77	19.33	20.20	20.29	20.74	20.95	150-160	85.82	40687	99.8,99.8
170	22.87	22.44	22.41	21.94	22.73	22.47	22.93	22.87	160-170	60.54	40748	99.9,99.9
180	23.91	23.42	23.76	23.38	23.92	23.42	23.76	23.38	170-180	21.95	40770	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 30721 lm

%lum = 75.4%

%lamp = 75.4%

Conical surface Flux(130deg): 39416 lm

%lum = 96.7%

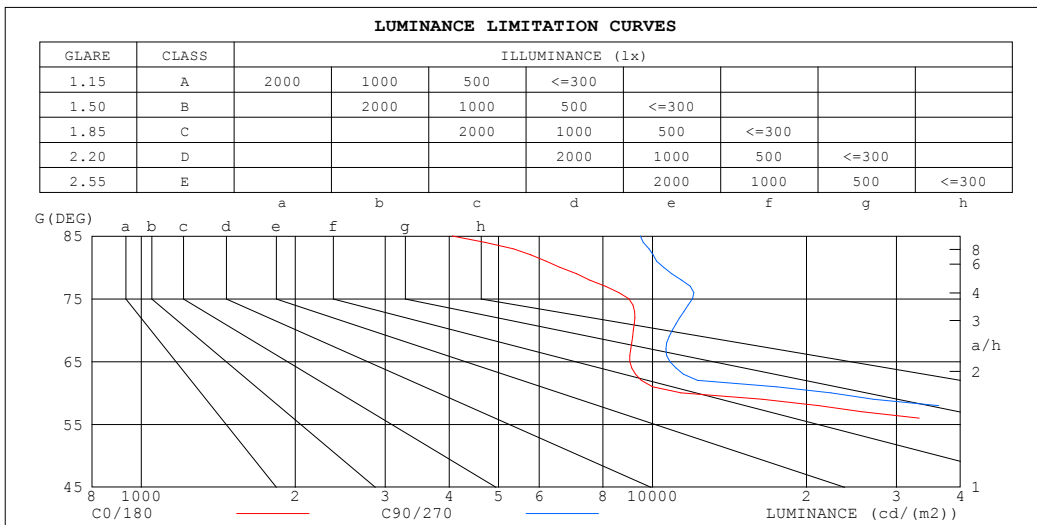
%lamp = 96.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:lianghaizhu-2
 Test Date:2025-04-25

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:200.18V I:1.0972A P:218.84W PF:0.9963 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40769.6x1 lm		
NAME: ASD-WHB5BHV-NEOX-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:



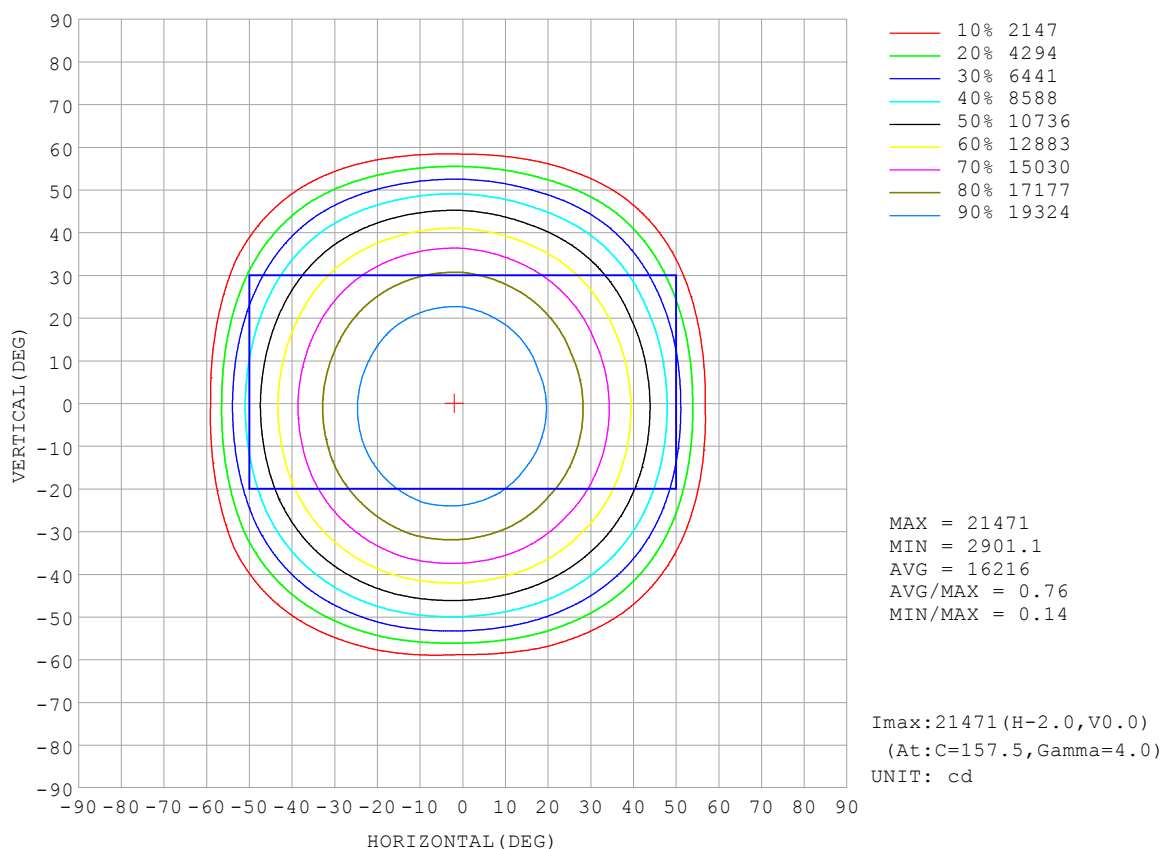
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4052	9461
80	6590	10512
75	8982	11971
70	9167	10931
65	9032	10803
60	11368	22331
55	41075	62781
50	78029	92544
45	99848	111354

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-04-25

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:200.18V I:1.0972A P:218.84W PF:0.9963 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40769.6x1 lm		
NAME: ASD-WHB5BHV-NEOX-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:

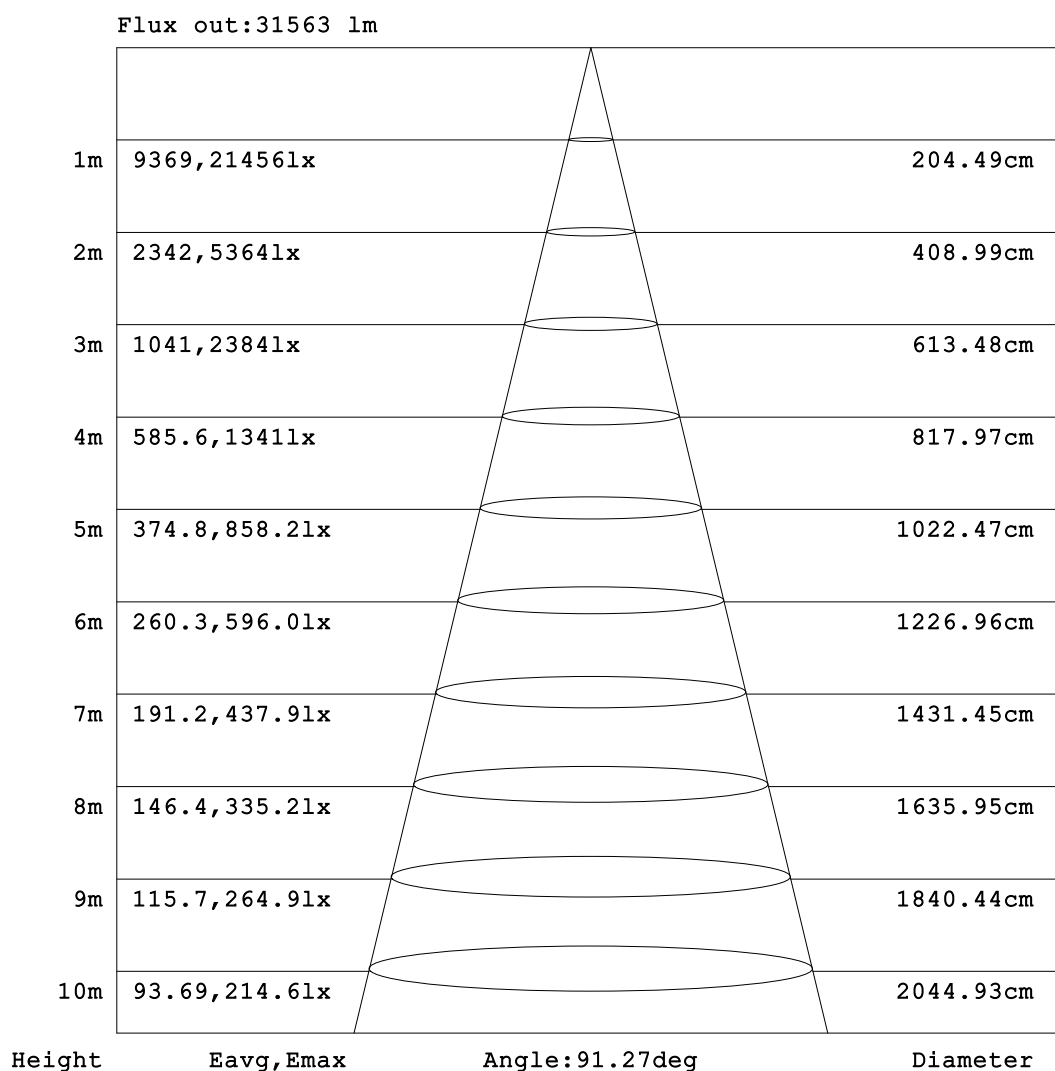


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-04-25

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:200.18V I:1.0972A P:218.84W PF:0.9963 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40769.6x1 lm		
NAME: ASD-WHB5BHV-NEOX-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:



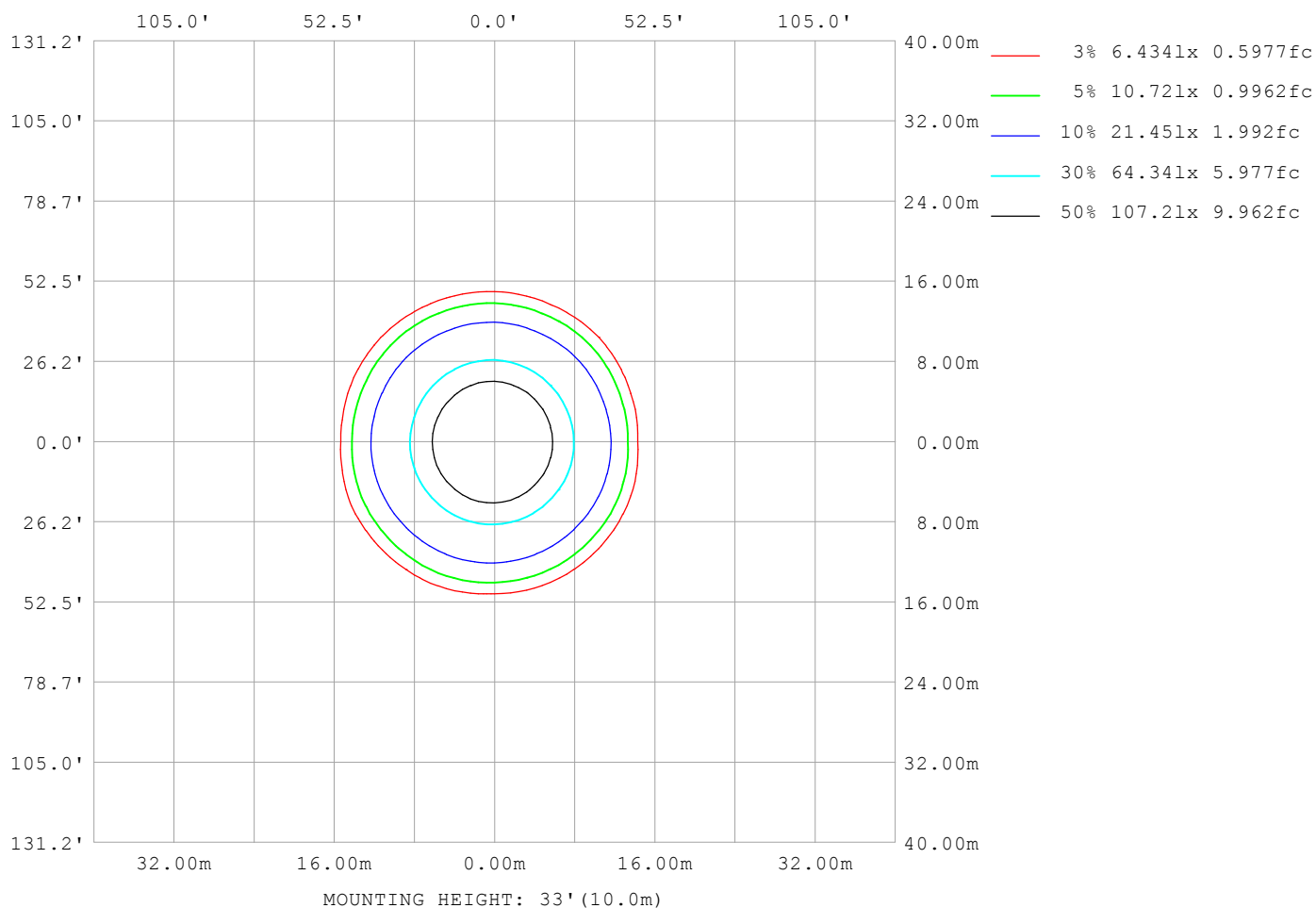
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: lianghaizhu-2
Test Date: 2025-04-25

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

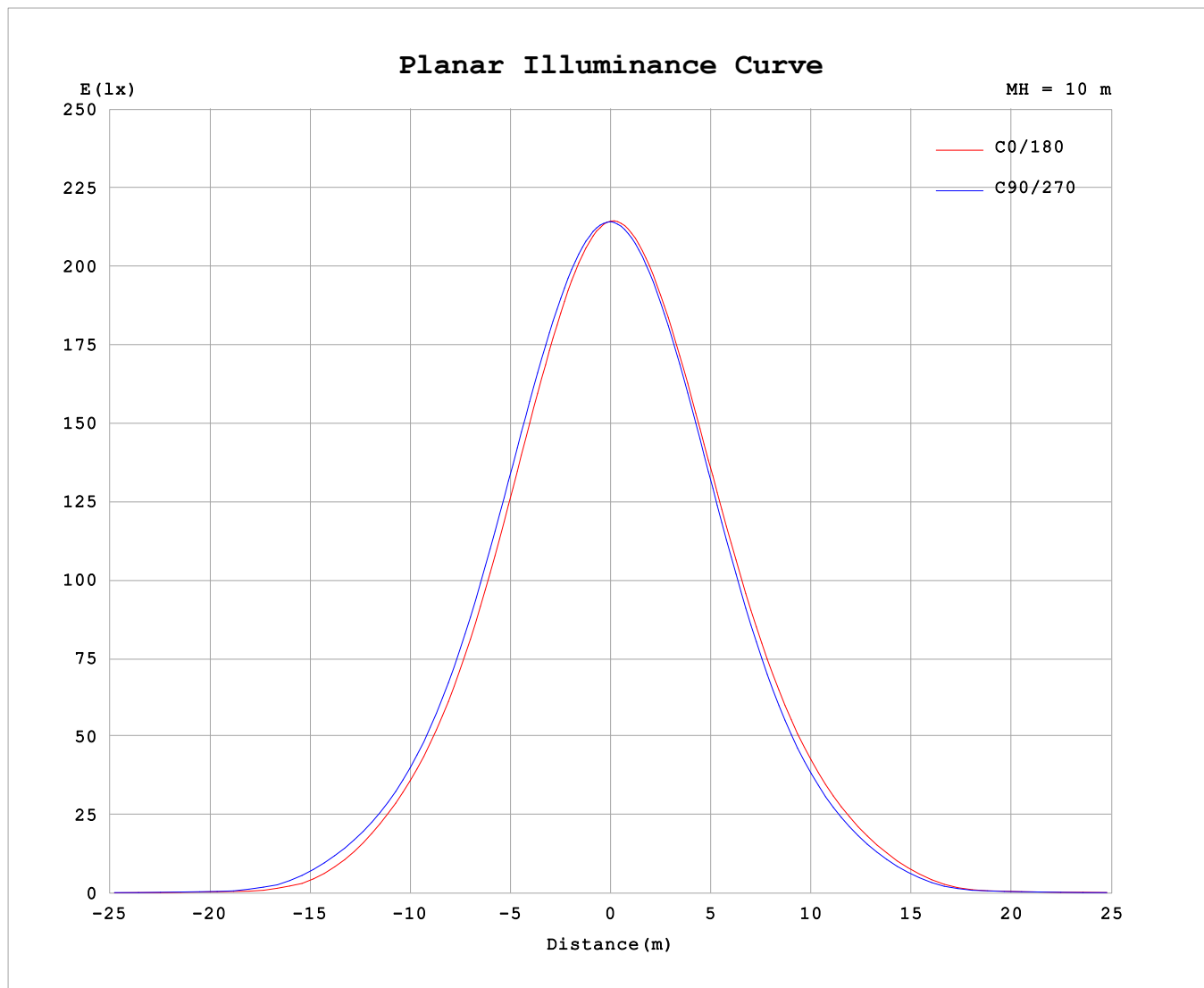
Test:U:200.18V I:1.0972A P:218.84W PF:0.9963 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40769.6x1 lm		
NAME: ASD-WHB5BHV-NEOX-220	TYPE:	WEIGHT:
SPEC.: 220W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.45*0.32m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:lianghaizhu-2
Test Date:2025-04-25

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: 2025-04-25

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:200.18V I:1.0972A P:218.84W PF:0.9963 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:40769.6x1 lm		
NAME: ASD-WHB5BHV-NEOX-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	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142	2142			
5	2120	2122	2125	2131	2135	2140	2142	2142	2142	2140	2137	2134	2129	2123	2121	2118			
10	2075	2081	2086	2100	2111	2120	2123	2124	2119	2113	2111	2107	2099	2090	2080	2075			
15	2010	2018	2028	2051	2068	2081	2085	2086	2077	2070	2067	2061	2052	2033	2020	2009			
20	1922	1933	1951	1980	2002	2020	2024	2023	2013	2004	2000	1992	1980	1955	1936	1919			
25	1807	1821	1841	1879	1909	1932	1936	1936	1923	1911	1906	1894	1878	1845	1821	1801			
30	1658	1674	1697	1741	1778	1806	1808	1815	1802	1784	1773	1757	1738	1698	1668	1648			
35	1474	1493	1516	1566	1603	1637	1640	1654	1642	1618	1603	1581	1557	1512	1480	1460			
40	1260	1280	1302	1349	1386	1423	1434	1450	1442	1414	1395	1363	1334	1286	1261	1240			
45	1016	1033	1054	1094	1134	1172	1188	1209	1201	1171	1147	1111	1082	1030	1012	994			
50	722	753	776	818	856	894	908	929	920	889	869	831	801	754	741	715			
55	339	407	446	490	518	566	579	591	554	544	535	495	462	426	416	369			
60	81.8	128	158	170	161	209	225	239	151	212	206	185	125	150	139	113			
65	54.9	61.3	70.8	74.5	65.7	81.1	87.8	83.3	68.7	80.3	85.8	75.7	62.5	67.8	67.1	58.4			
70	45.1	45.2	52.0	55.1	53.8	59.3	66.0	58.6	55.6	56.5	63.6	56.0	52.3	51.3	49.7	43.2			
75	33.4	30.9	30.9	38.8	44.6	42.4	38.7	40.1	43.1	38.4	36.5	40.0	42.1	36.1	29.5	29.3			
80	16.5	17.2	19.2	22.6	26.3	25.7	23.6	22.5	22.6	20.8	22.7	23.7	24.6	20.6	18.7	15.8			
85	5.08	5.11	6.87	9.36	11.9	10.5	9.23	7.46	7.35	6.59	8.43	9.40	11.3	8.23	6.30	4.36			
90	0.69	0.71	0.72	0.74	0.76	0.85	0.66	0.66	0.68	0.71	0.77	0.80	0.80	0.84	0.87	0.88			
95	1.11	1.09	1.10	1.03	0.99	0.93	0.91	0.83	1.03	1.12	1.20	1.29	1.34	1.41	1.44	1.44			
100	1.88	1.84	1.84	1.75	1.68	1.59	1.54	1.45	1.79	1.89	1.99	2.14	2.21	2.32	2.34	2.35			
105	2.94	2.87	2.85	2.73	2.65	2.51	2.45	2.34	2.82	2.93	3.07	3.25	3.36	3.50	3.53	3.55			
110	4.27	4.18	4.13	3.98	3.88	3.70	3.61	3.49	4.12	4.25	4.41	4.64	4.79	4.96	4.99	5.02			
115	5.86	5.72	5.65	5.47	5.35	5.14	5.02	4.90	5.66	5.81	5.98	6.27	6.45	6.64	6.68	6.73			
120	7.58	7.40	7.30	7.12	6.99	6.74	6.61	6.49	7.37	7.52	7.69	8.01	8.23	8.42	8.46	8.52			
125	9.28	9.07	8.96	8.80	8.67	8.39	8.22	8.13	9.11	9.23	9.39	9.75	10.0	10.2	10.2	10.3			
130	10.9	10.7	10.6	10.5	10.3	10.0	9.85	9.75	10.8	10.9	11.1	11.4	11.7	11.9	11.9	11.9			
135	12.4	12.3	12.2	12.0	11.9	11.6	11.4	11.3	12.4	12.5	12.7	13.0	13.3	13.5	13.5	13.5			
140	13.9	13.8	13.7	13.5	13.3	13.1	12.9	12.8	13.9	14.0	14.2	14.5	14.7	14.9	15.0	15.0			
145	15.4	15.3	15.2	15.0	14.8	14.6	14.4	14.2	15.3	15.4	15.6	16.0	16.1	16.3	16.4	16.5			
150	17.0	17.0	16.8	16.6	16.4	16.2	16.0	15.8	16.9	17.0	17.2	17.5	17.7	17.9	18.0	18.1			
155	18.8	18.7	18.5	18.2	18.1	17.9	17.7	17.5	18.6	18.6	18.8	19.2	19.3	19.5	19.6	19.7			
160	20.4	20.4	20.1	19.8	19.8	19.6	19.3	19.2	20.2	20.1	20.3	20.7	20.7	20.8	21.0	21.1			
165	21.8	21.8	21.4	21.2	21.2	21.1	20.8	20.6	21.6	21.4	21.5	21.9	22.0	21.9	22.1	22.3			
170	22.9	22.8	22.4	22.2	22.4	22.2	21.9	21.9	22.7	22.4	22.5	22.8	22.9	22.7	22.9	23.1			
175	23.6	23.3	23.1	23.0	23.3	23.0	22.8	22.8	23.5	23.1	23.1	23.3	23.5	23.2	23.3	23.5			
180	23.9	23.5	23.4	23.4	23.8	23.4	23.4	23.4	23.9	23.5	23.4	23.4	23.8	23.4	23.4	23.4			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:lianghaizhu-2

Test Date:2025-04-25

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: