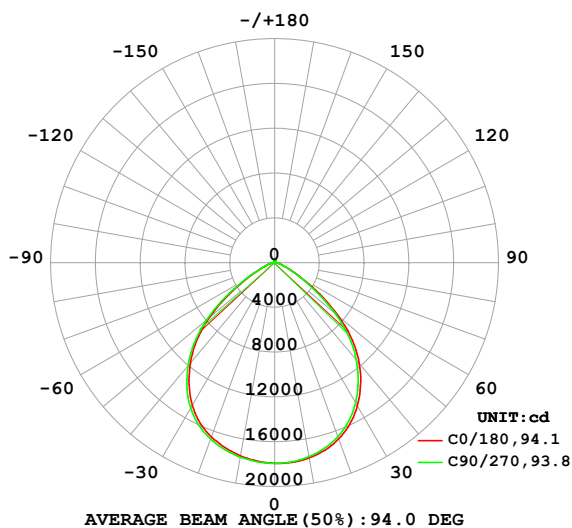


LUMINAIRE PHOTOMETRIC TEST REPORT

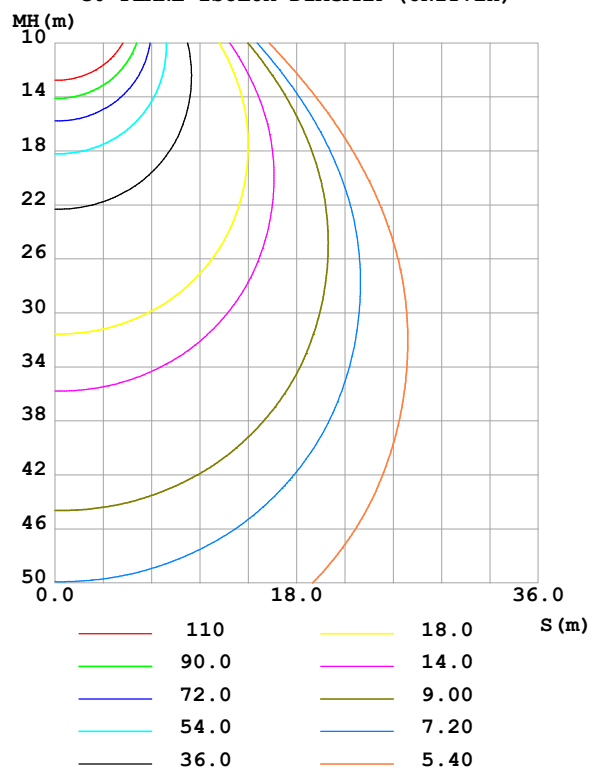
Test:U:120.08V I:1.8808A P:224.85W PF:0.9956 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37196.6x1 lm		
NAME: ASD-UHG-ST-240BK	TYPE:	WEIGHT:
SPEC.: 240W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.36*0.36m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 165.43 lm/W
MODEL	ASD-UHG-ST-240BK	I _{max} (cd)	17933	S/MH(C0/180)	1.22	
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	37197	η UP,DN(C0-180)	0.7,48.5	
NOMINAL FLUX(lm)	37196.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,50.1	
LAMPS INSIDE	1	η up (%)	1.4	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	η down (%)	98.6	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2026-02-09

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	1772	1766	1760	1756	1752	1755	1764	1771	0- 10	1697	1697	4.56,4.56
20	1674	1661	1654	1655	1656	1663	1677	1681	10- 20	4860	6556	17.6,17.6
30	1478	1459	1447	1456	1473	1491	1500	1493	20- 30	7283	13839	37.2,37.2
40	1178	1159	1137	1156	1172	1197	1202	1196	30- 40	8328	22168	59.6,59.6
50	748.1	734.8	706.2	745.1	759.7	798.3	792.4	782.0	40- 50	7542	29709	79.9,79.9
60	286.9	284.0	266.2	295.2	289.9	317.9	312.6	311.0	50- 60	4561	34271	92.1,92.1
70	88.16	86.65	82.84	90.53	89.14	97.77	94.52	92.18	60- 70	1696	35966	96.7,96.7
80	28.41	26.76	27.34	27.66	29.02	29.42	30.90	28.39	70- 80	579.9	36546	98.3,98.3
90	1.444	1.539	1.775	1.700	1.509	1.519	1.489	1.540	80- 90	143.1	36689	98.6,98.6
100	2.016	2.165	2.148	2.242	2.403	2.409	2.250	2.392	90-100	19.62	36709	98.7,98.7
110	4.034	4.157	4.236	4.160	4.612	4.473	4.366	4.458	100-110	33.70	36742	98.8,98.8
120	6.732	6.860	7.021	6.874	7.517	7.266	7.199	7.230	110-120	56.09	36798	98.9,98.9
130	9.557	9.641	9.908	9.695	10.50	10.12	10.13	10.09	120-130	76.27	36875	99.1,99.1
140	12.13	12.28	12.51	12.38	13.10	12.80	12.73	12.79	130-140	87.20	36962	99.4,99.4
150	14.75	14.91	15.10	15.01	15.61	15.34	15.26	15.34	140-150	86.77	37049	99.6,99.6
160	17.51	17.55	17.74	17.60	18.07	17.79	17.77	17.79	150-160	75.89	37125	99.8,99.8
170	19.66	19.47	19.75	19.48	19.93	19.57	19.76	19.58	160-170	52.88	37177	99.9,99.9
180	20.74	20.35	20.74	20.36	20.75	20.34	20.74	20.37	170-180	19.14	37197	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 26176 lm

%lum = 70.4%

%lamp = 70.4%

Conical surface Flux(130deg): 35352 lm

%lum = 95.0%

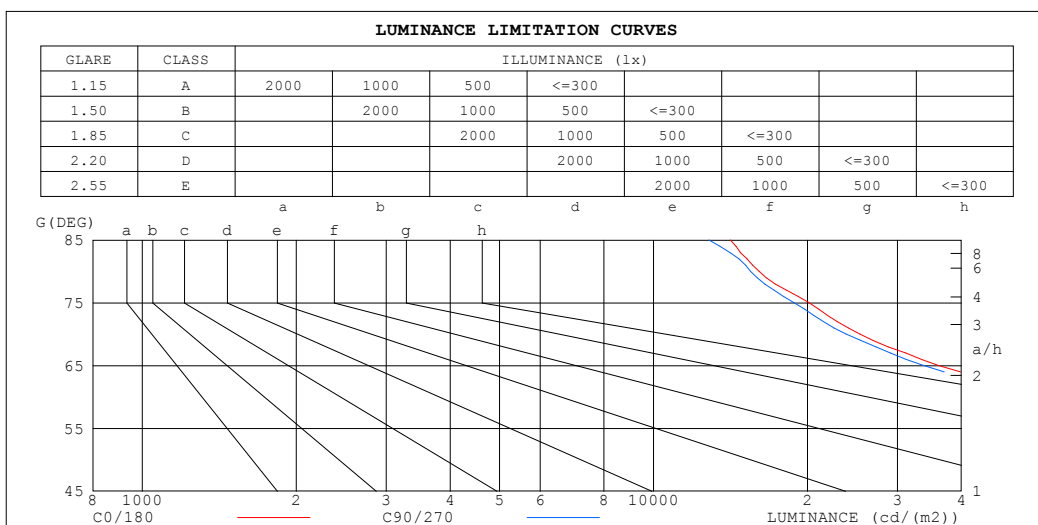
%lamp = 95.0%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:lianghaizhu-2
 Test Date:2026-02-09

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:120.08V I:1.8808A P:224.85W PF:0.9956 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37196.6x1 lm		
NAME: ASD-UHG-ST-240BK	TYPE:	WEIGHT:
SPEC.: 240W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.36*0.36m	Shielding Angle:

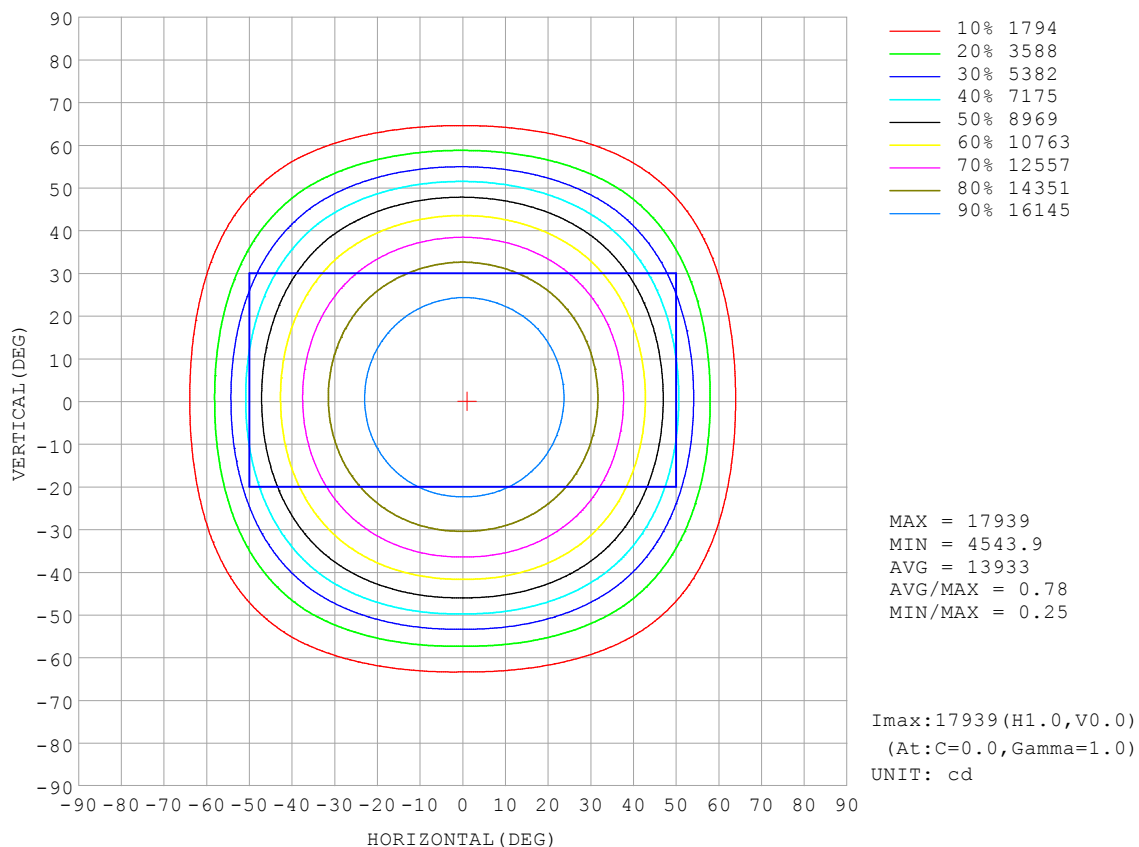


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: lianghaizhu-2
Test Date: 2026-02-09

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:120.08V I:1.8808A P:224.85W PF:0.9956 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37196.6x1 lm		
NAME: ASD-UHG-ST-240BK	TYPE:	WEIGHT:
SPEC.: 240W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.36*0.36m	Shielding Angle:

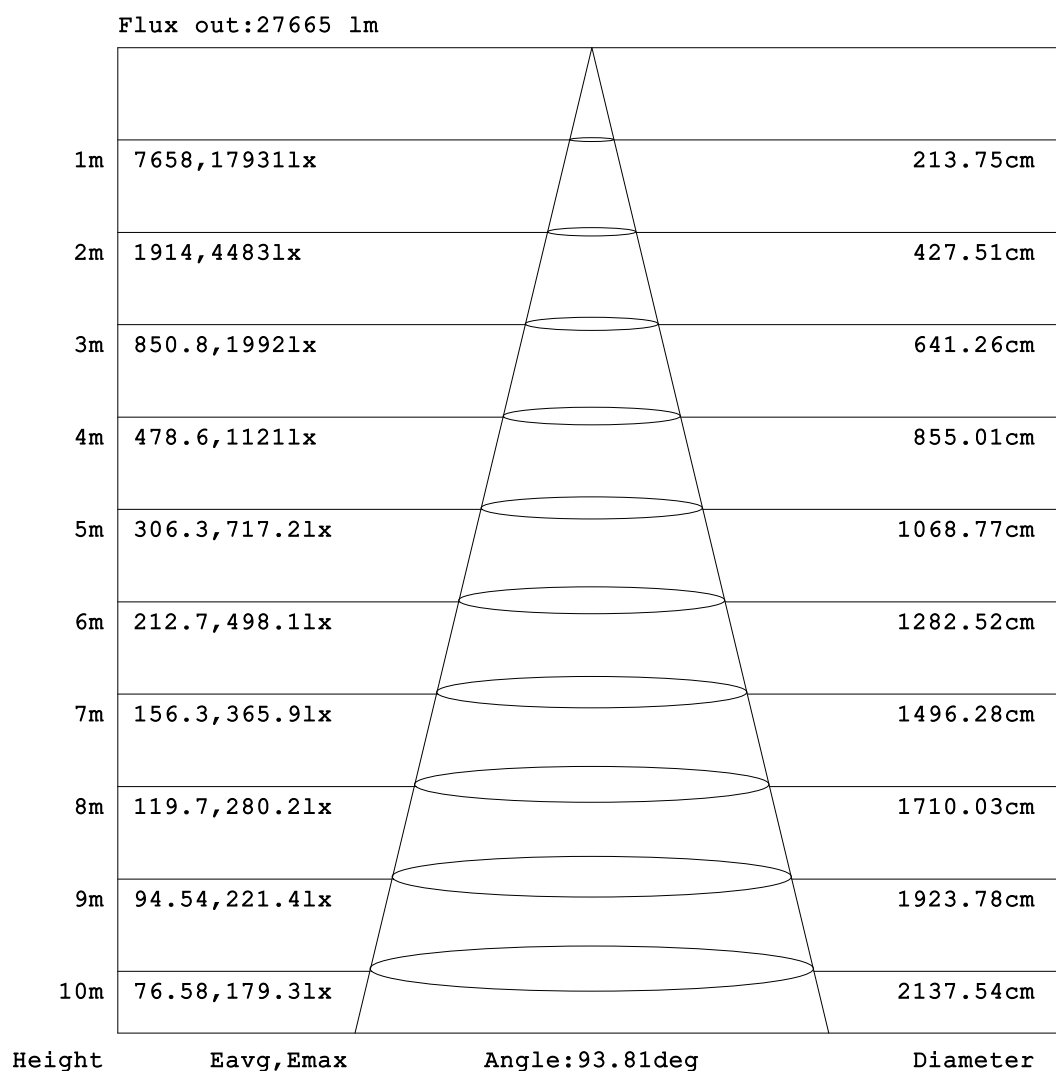


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2026-02-09

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:120.08V I:1.8808A P:224.85W PF:0.9956 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37196.6x1 lm		
NAME: ASD-UHG-ST-240BK	TYPE:	WEIGHT:
SPEC.: 240W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.36*0.36m	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:25.3℃

Operators:lianghaizhu-2

Test Date:2026-02-09

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

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

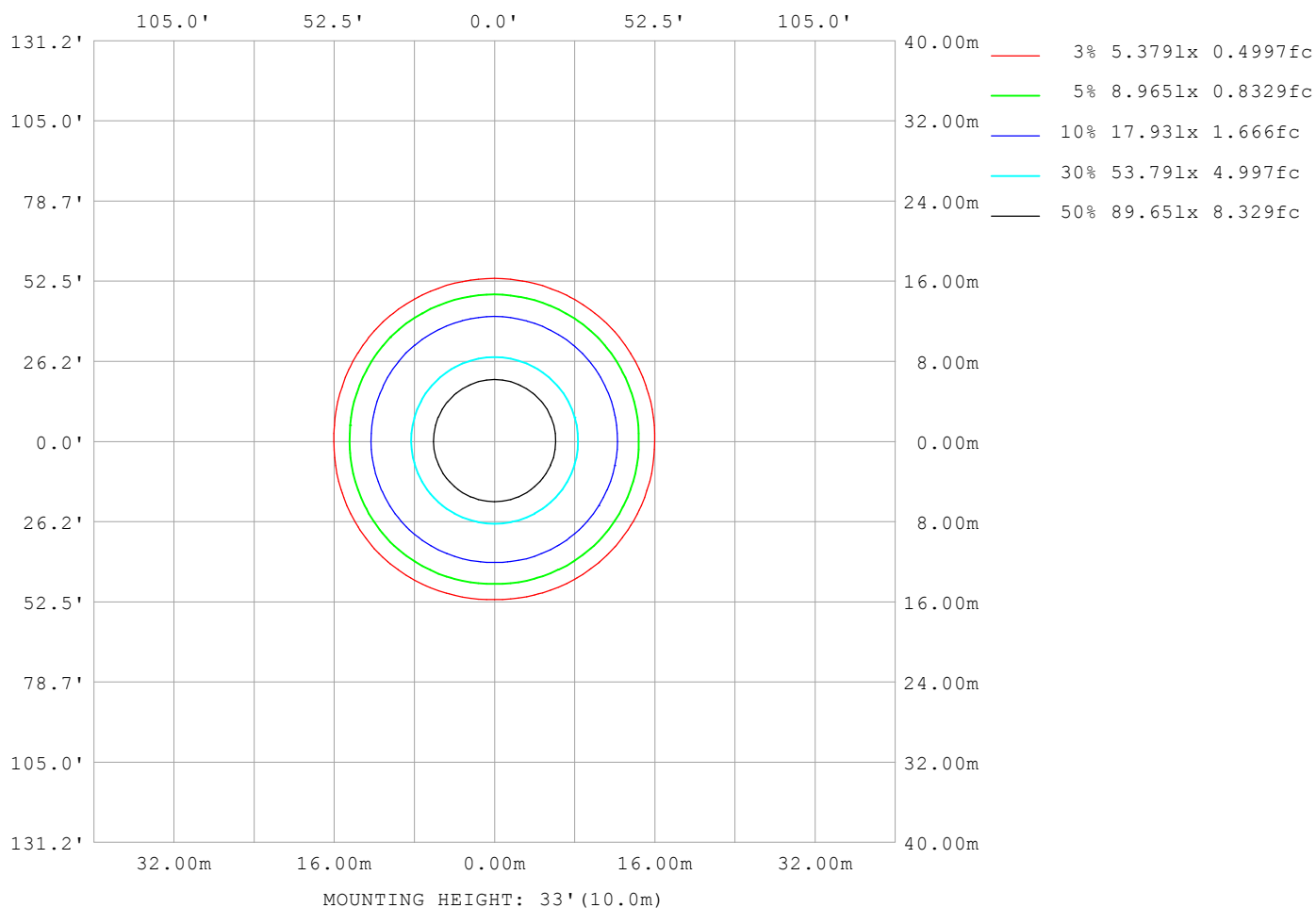
Humidity:65.0%

Test Distance:9.770m [K=1.0000]

Remarks:

ISOLUX DIAGRAM

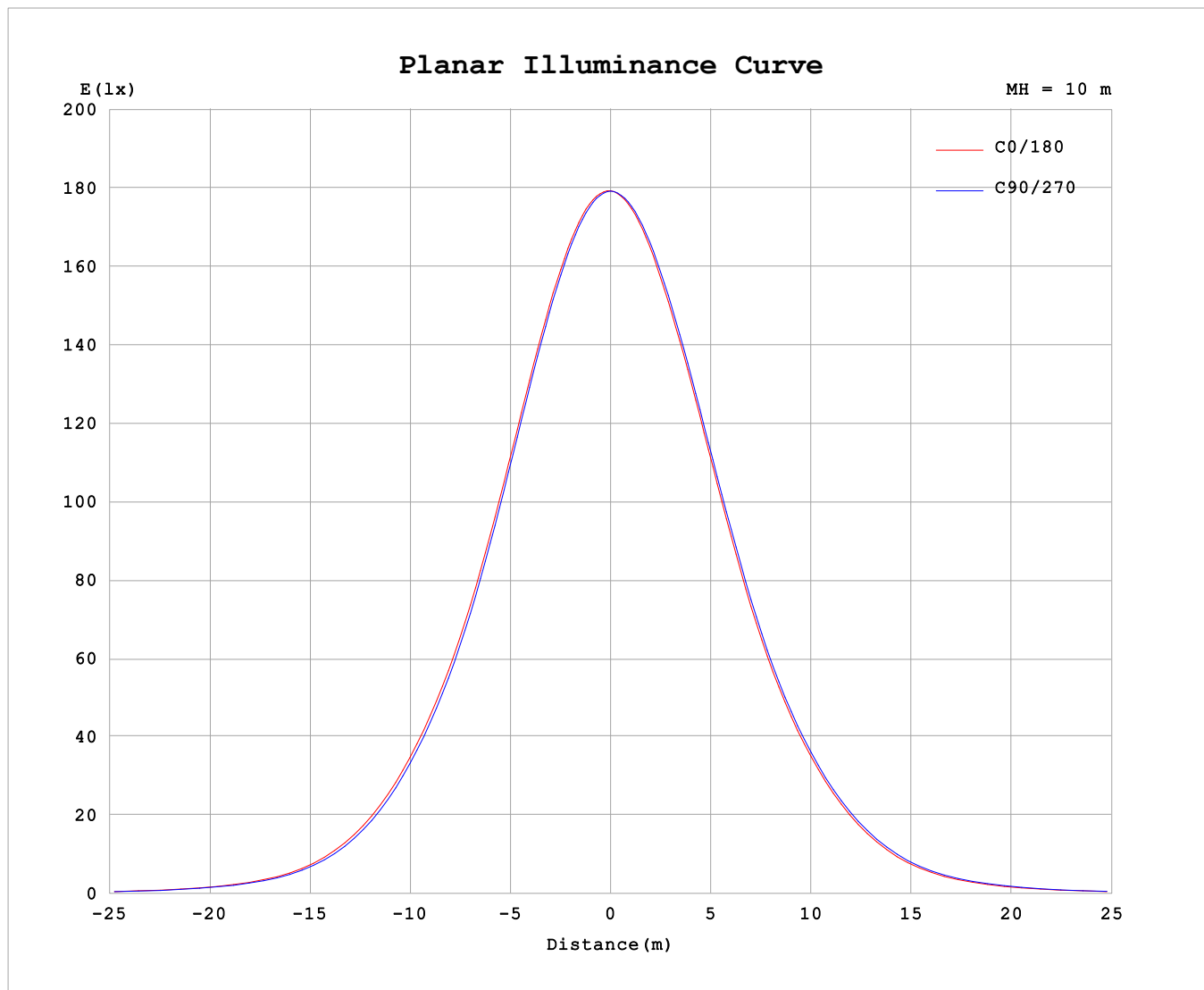
Test:U:120.08V I:1.8808A P:224.85W PF:0.9956 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37196.6x1 lm		
NAME: ASD-UHG-ST-240BK	TYPE:	WEIGHT:
SPEC.: 240W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.36*0.36m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:lianghaizhu-2
Test Date:2026-02-09

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: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: lianghaizhu-2
Test Date: 2026-02-09

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:120.08V I:1.8808A P:224.85W PF:0.9956 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:37196.6x1 lm		
NAME: ASD-UHG-ST-240BK	TYPE:	WEIGHT:
SPEC.: 240W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.36*0.36m	Shielding Angle:

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1792	1792	1792	1792	1792	1792	1792	1792										
5	1790	1788	1785	1782	1780	1782	1785	1789										
10	1772	1766	1760	1756	1752	1755	1764	1771										
15	1734	1726	1718	1715	1710	1714	1728	1736										
20	1674	1661	1654	1655	1656	1663	1677	1681										
25	1590	1574	1565	1571	1579	1592	1603	1601										
30	1478	1459	1447	1456	1473	1491	1500	1493										
35	1339	1319	1301	1314	1334	1355	1366	1356										
40	1178	1159	1137	1156	1172	1197	1202	1196										
45	985	966	941	970	986	1018	1018	1009										
50	748	735	706	745	760	798	792	782										
55	492	488	459	499	502	544	534	529										
60	287	284	266	295	290	318	313	311										
65	155	155	145	161	156	173	169	167										
70	88.2	86.7	82.8	90.5	89.1	97.8	94.5	92.2										
75	53.0	50.3	49.6	52.0	53.2	56.5	56.9	54.0										
80	28.4	26.8	27.3	27.7	29.0	29.4	30.9	28.4										
85	12.5	11.4	11.4	12.1	12.0	12.6	13.5	12.6										
90	1.44	1.54	1.77	1.70	1.51	1.52	1.49	1.54										
95	1.49	1.68	1.82	1.88	1.82	1.84	1.66	1.82										
100	2.02	2.16	2.15	2.24	2.40	2.41	2.25	2.39										
105	2.90	3.03	3.07	3.06	3.37	3.30	3.18	3.29										
110	4.03	4.16	4.24	4.16	4.61	4.47	4.37	4.46										
115	5.34	5.47	5.58	5.47	6.02	5.83	5.74	5.80										
120	6.73	6.86	7.02	6.87	7.52	7.27	7.20	7.23										
125	8.17	8.25	8.48	8.29	9.03	8.71	8.69	8.67										
130	9.56	9.64	9.91	9.69	10.5	10.1	10.1	10.1										
135	10.9	11.0	11.3	11.1	11.8	11.5	11.5	11.5										
140	12.1	12.3	12.5	12.4	13.1	12.8	12.7	12.8										
145	13.4	13.6	13.8	13.7	14.3	14.1	14.0	14.1										
150	14.7	14.9	15.1	15.0	15.6	15.3	15.3	15.3										
155	16.2	16.3	16.5	16.4	16.9	16.6	16.6	16.6										
160	17.5	17.5	17.7	17.6	18.1	17.8	17.8	17.8										
165	18.7	18.6	18.8	18.7	19.1	18.8	18.9	18.8										
170	19.7	19.5	19.8	19.5	19.9	19.6	19.8	19.6										
175	20.4	20.0	20.4	20.0	20.5	20.1	20.4	20.1										
180	20.7	20.3	20.7	20.4	20.7	20.3	20.7	20.4										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:lianghaizhu-2

Test Date:2026-02-09

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: