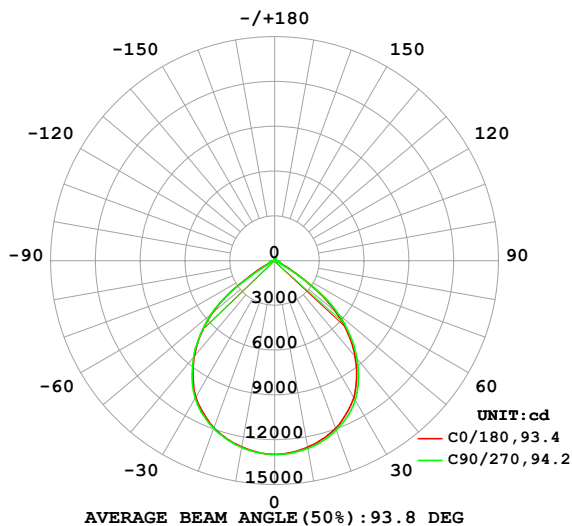


LUMINAIRE PHOTOMETRIC TEST REPORT

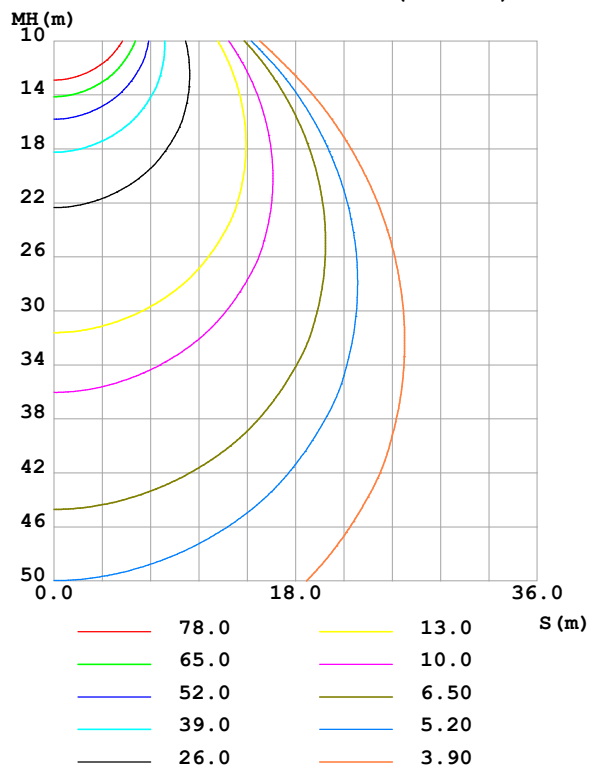
Test:U:120.12V I:1.3319A P:161.42W PF:0.9973 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% Lamp Flux:25574.2x1 lm		
NAME: ASD-WFS-ST-160	TYPE:	WEIGHT:
SPEC.: 160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.42*0.315m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 158.43 lm/W
MODEL	ASD-WFS-ST-160	Imax (cd)	12982	S/MH(C0/180)	1.21	
NOMINAL POWER(W)	160	LOR(%)	100.0	S/MH(C90/270)	1.22	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	25574	η UP,DN(C0-180)	0.6,49.7	
NOMINAL FLUX(lm)	25574.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.7,48.9	
LAMPS INSIDE	1	η up (%)	1.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	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: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-07-30

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	1269	1275	1278	1274	1267	1267	1271	1268	0- 10	1226	1226	4.79,4.79
20	1196	1202	1208	1202	1191	1188	1196	1191	10- 20	3498	4724	18.5,18.5
30	1062	1068	1079	1067	1058	1050	1065	1053	20- 30	5235	9959	38.9,38.9
40	839.4	850.2	859.5	852.1	837.3	833.1	846.0	833.9	30- 40	6002	15961	62.4,62.4
50	535.4	545.0	560.1	555.6	544.3	537.3	551.9	533.3	40- 50	5397	21358	83.5,83.5
60	138.1	156.8	88.14	158.9	132.1	145.2	72.99	141.5	50- 60	3015	24373	95.3,95.3
70	29.16	31.02	34.35	34.02	30.16	29.29	32.88	29.03	60- 70	557.9	24931	97.5,97.5
80	10.68	12.29	21.43	13.52	12.37	11.55	19.08	11.42	70- 80	239.3	25170	98.4,98.4
90	0.3812	0.3963	0.3992	0.4790	0.5274	0.5376	0.4992	0.5248	80- 90	61.21	25231	98.7,98.7
100	1.154	1.146	1.148	1.149	1.403	1.456	1.436	1.457	90-100	8.850	25240	98.7,98.7
110	2.587	2.561	2.588	2.575	2.997	3.059	3.039	3.049	100-110	21.07	25261	98.8,98.8
120	4.531	4.487	4.565	4.513	5.083	5.121	5.138	5.091	110-120	37.50	25298	98.9,98.9
130	6.519	6.474	6.597	6.499	7.157	7.180	7.201	7.139	120-130	52.21	25351	99.1,99.1
140	8.315	8.326	8.373	8.337	8.994	9.022	8.988	8.992	130-140	60.04	25411	99.4,99.4
150	10.24	10.26	10.25	10.22	10.85	10.86	10.83	10.84	140-150	59.95	25471	99.6,99.6
160	12.29	12.25	12.24	12.16	12.69	12.61	12.64	12.60	150-160	53.04	25524	99.8,99.8
170	13.82	13.60	13.74	13.53	14.01	13.78	13.93	13.78	160-170	37.10	25561	99.9,99.9
180	14.55	14.26	14.47	14.23	14.55	14.26	14.47	14.23	170-180	13.41	25574	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

Conical surface Flux(90deg): 18830 lm

%lum = 73.6%

%lamp = 73.6%

Conical surface Flux(130deg): 24742 lm

%lum = 96.7%

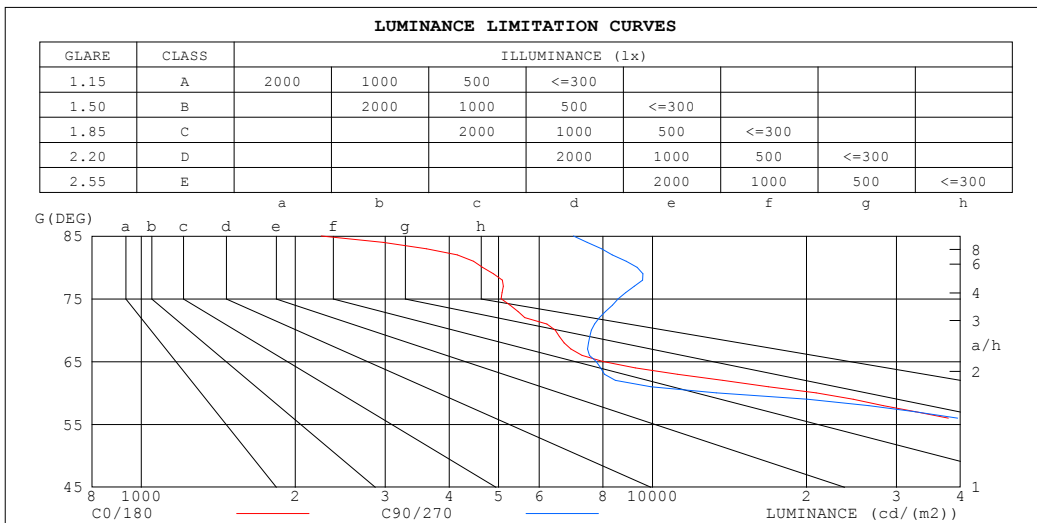
%lamp = 96.7%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:lianghaizhu-2
 Test Date:2025-07-30

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:120.12V I:1.3319A P:161.42W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:25574.2x1 lm		
NAME: ASD-WFS-ST-160	TYPE:	WEIGHT:
SPEC.: 160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.42*0.315m	Shielding Angle:



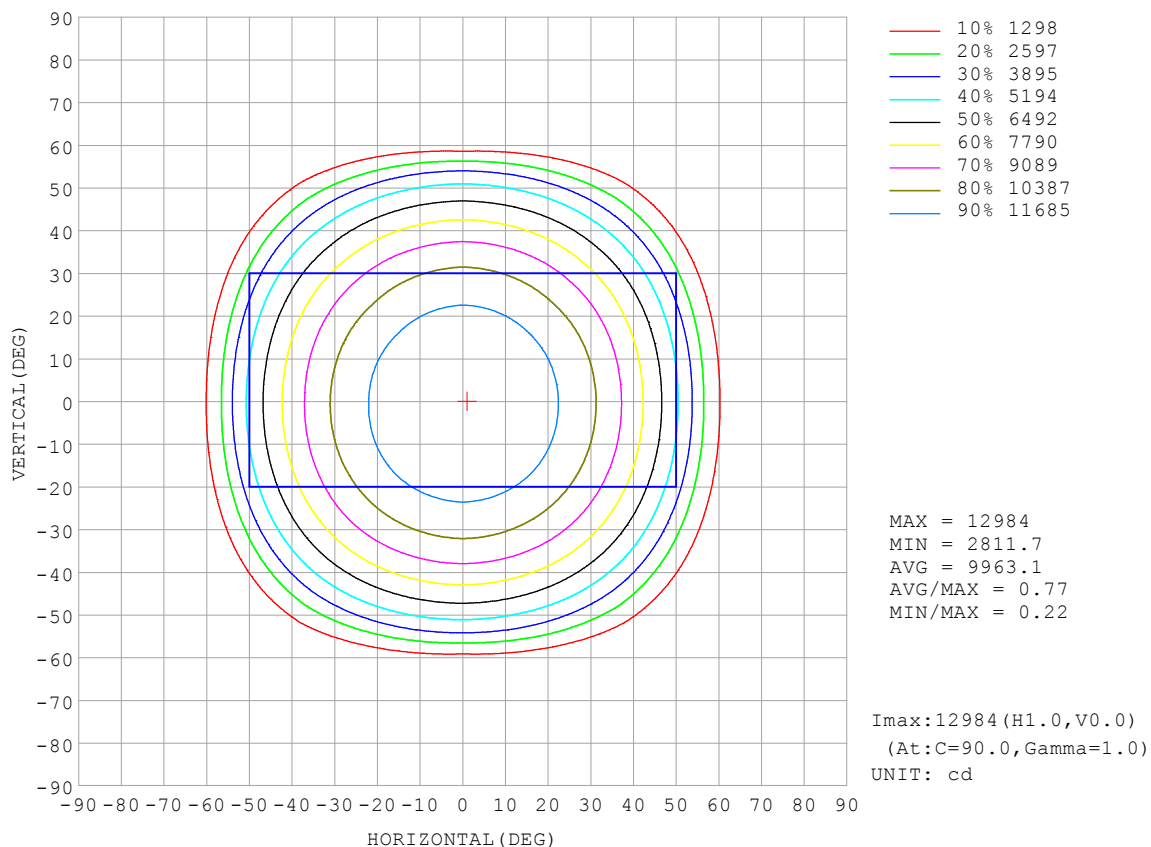
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2249	7002
80	4649	9328
75	5057	8575
70	6446	7590
65	7995	7754
60	20885	13322
55	43469	45905
50	62974	65852
45	74815	77073

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: lianghaizhu-2
Test Date: 2025-07-30

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:120.12V I:1.3319A P:161.42W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:25574.2x1 lm		
NAME: ASD-WFS-ST-160	TYPE:	WEIGHT:
SPEC.: 160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.42*0.315m	Shielding Angle:

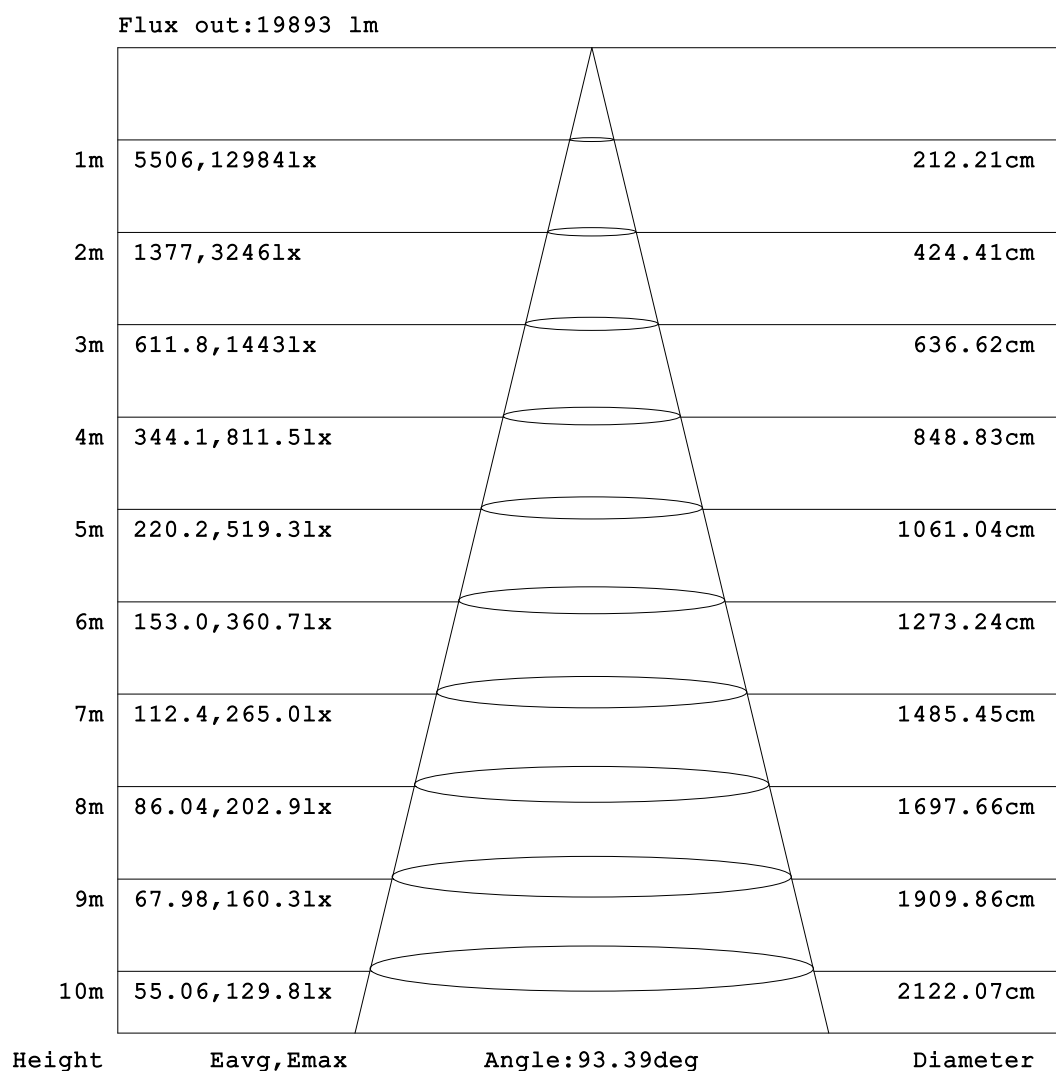


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:lianghaizhu-2
Test Date:2025-07-30

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:120.12V I:1.3319A P:161.42W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:25574.2x1 lm		
NAME: ASD-WFS-ST-160	TYPE:	WEIGHT:
SPEC.: 160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.42*0.315m	Shielding Angle:



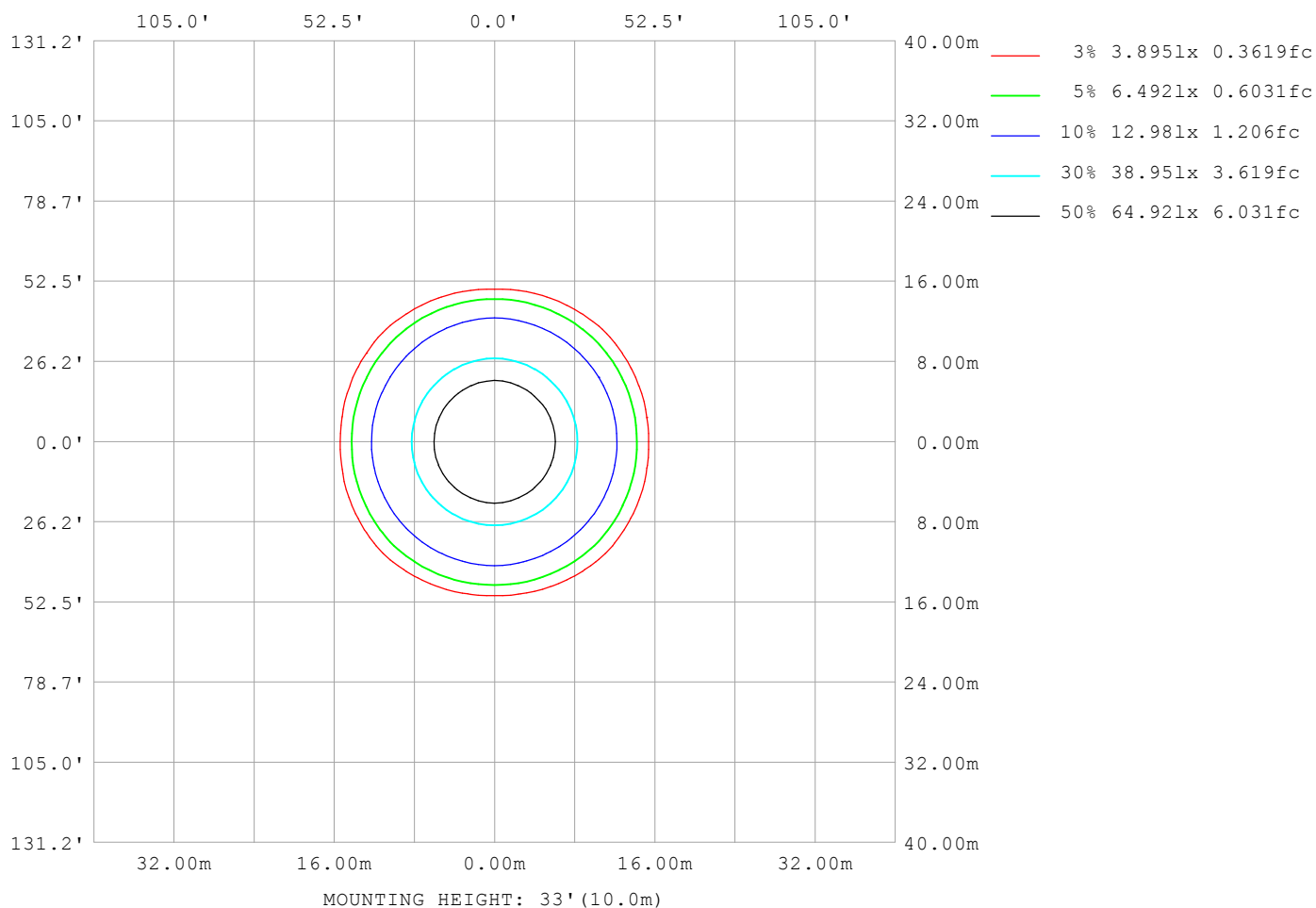
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: lianghaizhu-2
 Test Date: 2025-07-30

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

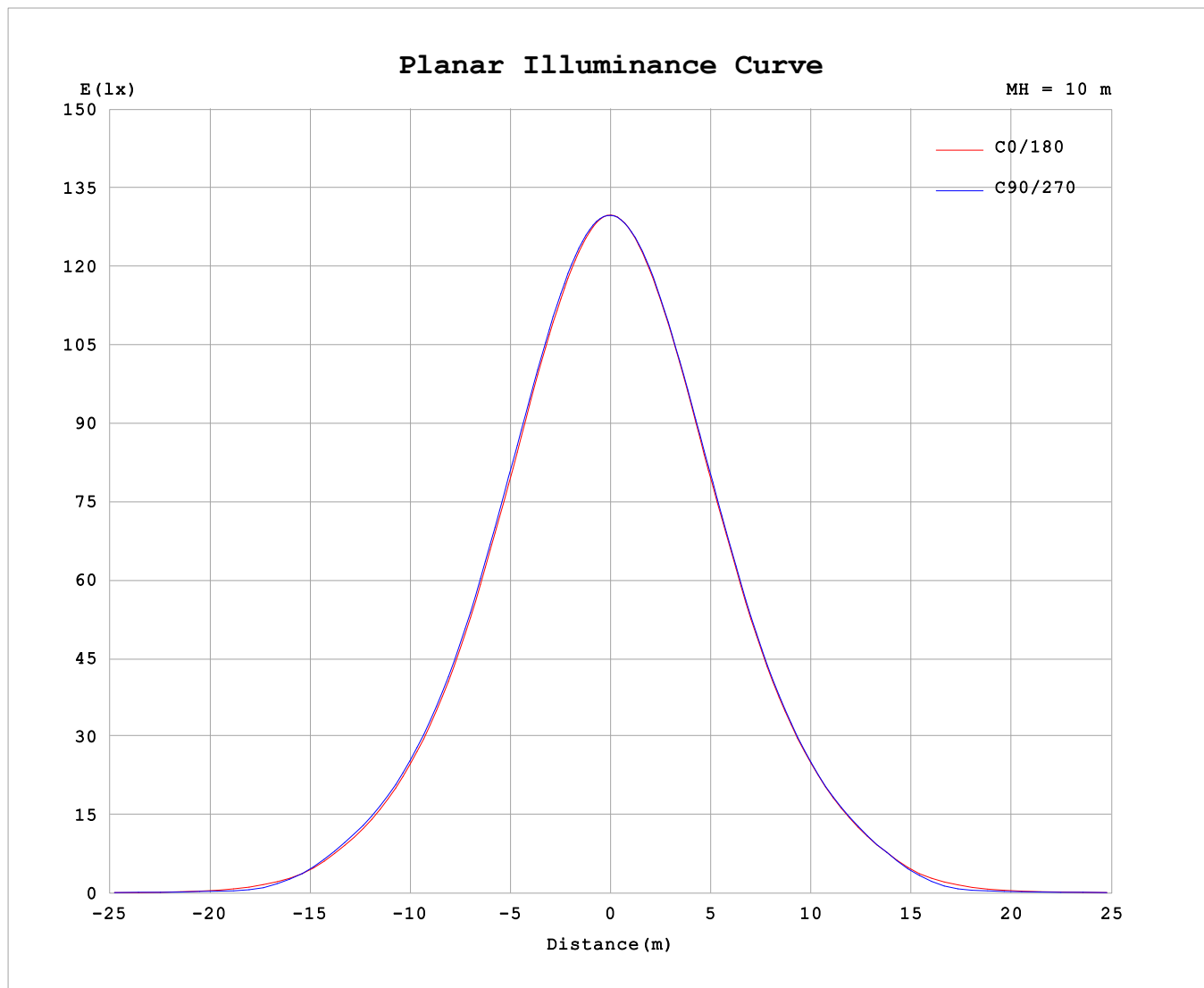
Test:U:120.12V I:1.3319A P:161.42W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:25574.2x1 lm		
NAME: ASD-WFS-ST-160	TYPE:	WEIGHT:
SPEC.: 160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.42*0.315m	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:lianghaizhu-2
 Test Date:2025-07-30

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: 2025-07-30

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:120.12V I:1.3319A P:161.42W PF:0.9973 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% Lamp Flux:25574.2x1 lm		
NAME: ASD-WFS-ST-160	TYPE:	WEIGHT:
SPEC.: 160W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.: 0.42*0.315m	Shielding Angle:

Table--1

UNIT: X10cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1298	1298	1298	1298	1298	1298	1298	1298										
5	1290	1293	1294	1292	1289	1288	1290	1289										
10	1269	1275	1278	1274	1267	1267	1271	1268										
15	1238	1245	1250	1243	1236	1234	1239	1236										
20	1196	1202	1208	1202	1191	1188	1196	1191										
25	1134	1145	1152	1144	1130	1128	1139	1131										
30	1062	1068	1079	1067	1058	1050	1065	1053										
35	960	970	979	970	955	952	965	955										
40	839	850	859	852	837	833	846	834										
45	700	707	721	712	703	693	708	692										
50	535	545	560	556	544	537	552	533										
55	330	357	348	365	339	346	331	340										
60	138	157	88.1	159	132	145	73.0	142										
65	44.7	49.2	43.4	52.1	48.6	44.6	41.4	43.1										
70	29.2	31.0	34.4	34.0	30.2	29.3	32.9	29.0										
75	17.3	22.0	29.4	24.2	18.8	20.1	28.1	20.6										
80	10.7	12.3	21.4	13.5	12.4	11.6	19.1	11.4										
85	2.59	4.33	8.08	4.74	3.71	4.24	7.13	3.65										
90	0.38	0.40	0.40	0.48	0.53	0.54	0.50	0.52										
95	0.68	0.68	0.67	0.69	0.86	0.90	0.88	0.90										
100	1.15	1.15	1.15	1.15	1.40	1.46	1.44	1.46										
105	1.79	1.78	1.78	1.79	2.12	2.17	2.16	2.17										
110	2.59	2.56	2.59	2.58	3.00	3.06	3.04	3.05										
115	3.52	3.49	3.54	3.51	4.01	4.07	4.06	4.05										
120	4.53	4.49	4.57	4.51	5.08	5.12	5.14	5.09										
125	5.55	5.48	5.60	5.51	6.15	6.16	6.20	6.12										
130	6.52	6.47	6.60	6.50	7.16	7.18	7.20	7.14										
135	7.44	7.43	7.53	7.45	8.11	8.13	8.14	8.10										
140	8.32	8.33	8.37	8.34	8.99	9.02	8.99	8.99										
145	9.23	9.24	9.26	9.24	9.89	9.92	9.87	9.89										
150	10.2	10.3	10.3	10.2	10.9	10.9	10.8	10.8										
155	11.3	11.3	11.3	11.2	11.8	11.8	11.8	11.8										
160	12.3	12.2	12.2	12.2	12.7	12.6	12.6	12.6										
165	13.1	13.0	13.1	12.9	13.4	13.3	13.4	13.3										
170	13.8	13.6	13.7	13.5	14.0	13.8	13.9	13.8										
175	14.3	14.0	14.2	14.0	14.4	14.1	14.3	14.1										
180	14.6	14.3	14.5	14.2	14.6	14.3	14.5	14.2										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:lianghaizhu-2

Test Date:2025-07-30

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: