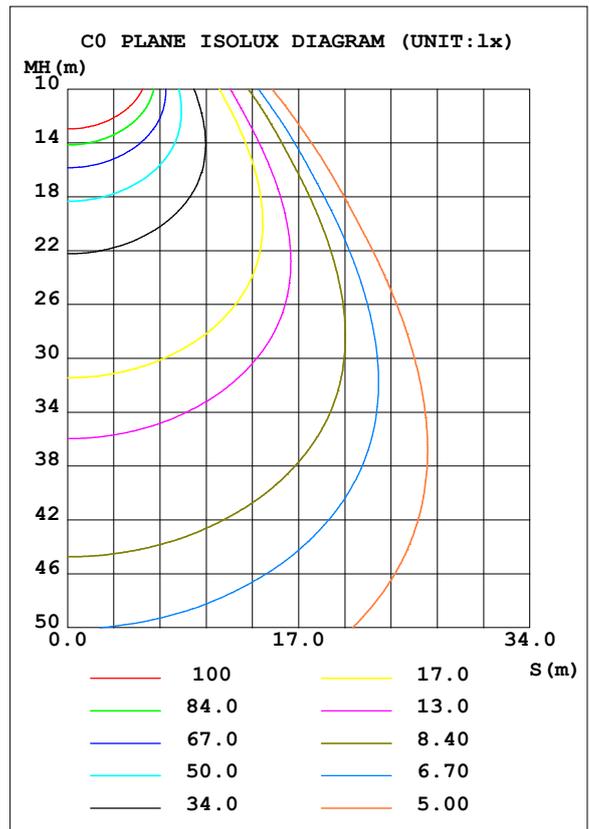
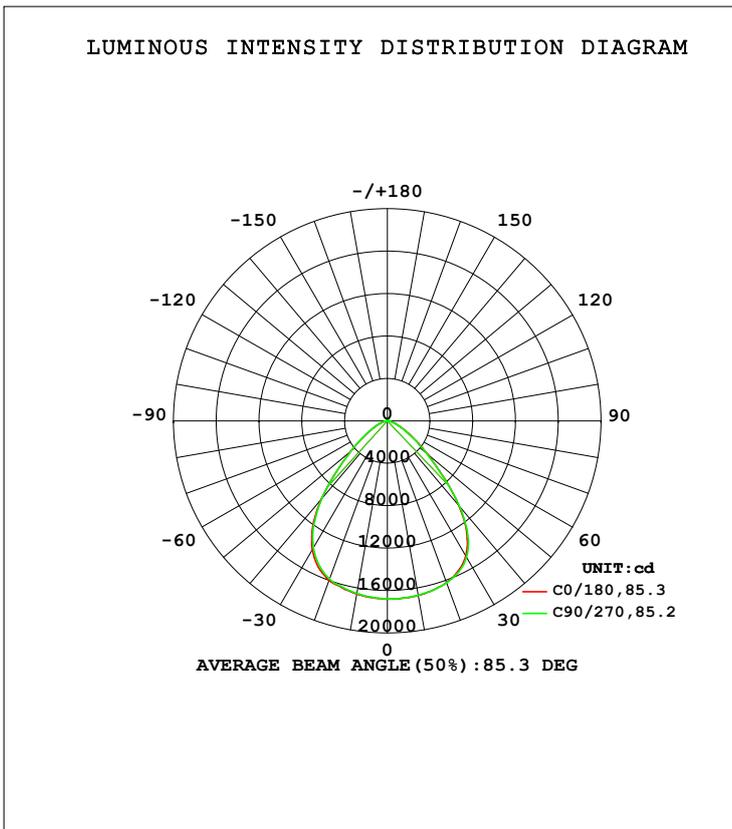


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.33 lm/W			
MODEL		I <sub>max</sub> (cd)	16811	S/MH (C0/180)	1.20
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	31503	<input type="checkbox"/> UP, DN (C0-180)	0.5, 51.0
NOMINAL FLUX (lm)	31503.3	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 48.1
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	99.0	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 27DEG  
 Operators: lianghaizhu  
 Test Date: 2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity: 56%  
 Test Distance: 6.500m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1670	1671	1668	1662	1656	1652	1652	1657	0- 10	1594	1594	5.06,5.06
20	1622	1628	1624	1615	1598	1573	1585	1590	10- 20	4631	6225	19.8,19.8
30	1468	1499	1484	1464	1404	1371	1384	1406	20- 30	7079	13304	42.2,42.2
40	1041	1061	1051	1039	959.8	937.6	950.5	974.5	30- 40	7763	21067	66.9,66.9
50	496.0	468.9	479.9	478.1	448.3	432.3	443.9	452.0	40- 50	5461	26528	84.2,84.2
60	216.9	200.7	205.3	204.8	190.1	183.6	195.9	196.4	50- 60	2785	29312	93,93
70	88.32	82.00	82.55	82.84	75.06	75.55	77.51	81.20	60- 70	1303	30615	97.2,97.2
80	24.84	22.55	21.10	20.78	18.54	18.76	20.30	20.70	70- 80	505.0	31120	98.8,98.8
90	0.8272	0.8069	0.8282	0.8298	0.8343	0.8004	0.7960	0.7981	80- 90	78.77	31199	99,99
100	1.480	1.468	1.490	1.518	1.520	1.495	1.473	1.484	90-100	12.17	31211	99.1,99.1
110	2.620	2.589	2.619	2.669	2.670	2.647	2.618	2.616	100-110	21.38	31232	99.1,99.1
120	4.131	4.074	4.108	4.176	4.185	4.163	4.132	4.104	110-120	33.24	31266	99.2,99.2
130	5.821	5.738	5.781	5.844	5.904	5.867	5.853	5.783	120-130	44.46	31310	99.4,99.4
140	7.471	7.376	7.415	7.459	7.622	7.563	7.578	7.477	130-140	51.43	31362	99.5,99.5
150	9.008	8.916	8.958	8.965	9.214	9.148	9.151	9.060	140-150	51.81	31413	99.7,99.7
160	10.70	10.57	10.65	10.58	10.93	10.81	10.85	10.72	150-160	45.46	31459	99.9,99.9
170	12.31	12.15	12.24	12.14	12.48	12.33	12.41	12.25	160-170	32.48	31491	100,100
180	13.12	12.94	13.06	12.89	13.13	12.94	13.07	12.89	170-180	12.05	31503	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 24215 lm

%lum = 76.9%

%lamp = 76.9%

Conical surface Flux(120deg): 29312 lm

%lum = 93.0%

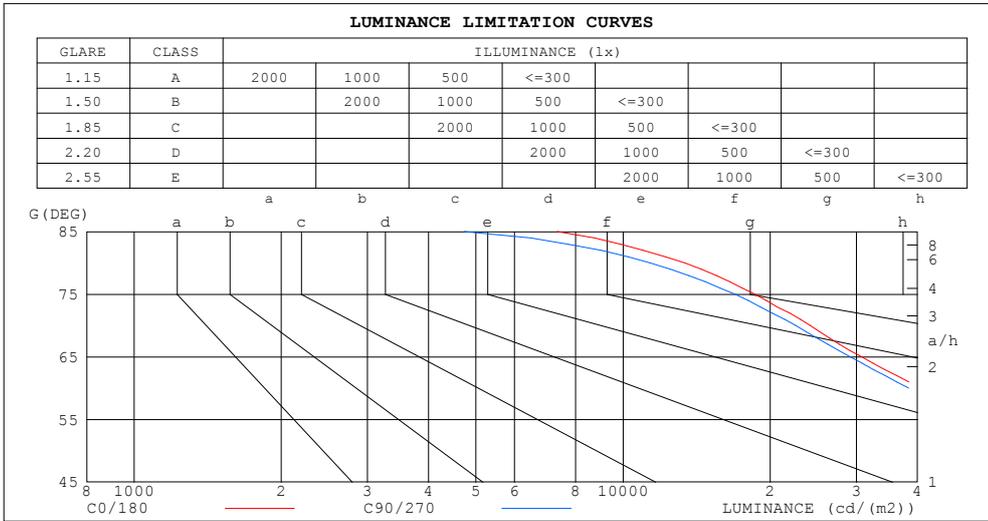
%lamp = 93.0%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7340	4734
80	13371	11355
75	18595	16927
70	24133	22558
65	30743	29139
60	40548	38370
55	53866	51890
50	72109	69768
45	97702	96909

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.230	.131	.041	.223	.127	.040	.210	.120	.038	.197	.114	.037	.186	.108	.035	
2.0	.224	.123	.038	.217	.120	.037	.206	.114	.036	.195	.109	.034	.185	.105	.033	
3.0	.213	.113	.034	.208	.111	.033	.197	.107	.033	.188	.103	.032	.179	.099	.031	
4.0	.202	.105	.031	.197	.103	.030	.188	.100	.030	.180	.096	.029	.172	.093	.028	
5.0	.191	.097	.028	.186	.096	.028	.178	.093	.027	.171	.090	.027	.164	.088	.026	
6.0	.180	.090	.026	.176	.089	.026	.169	.087	.025	.163	.085	.025	.157	.082	.024	
7.0	.170	.084	.024	.167	.083	.024	.161	.081	.023	.155	.079	.023	.149	.078	.023	
8.0	.161	.079	.022	.158	.078	.022	.153	.076	.022	.147	.075	.022	.142	.073	.021	
9.0	.153	.074	.021	.151	.073	.021	.145	.072	.020	.141	.070	.020	.136	.069	.020	
10.0	.146	.070	.019	.143	.069	.019	.139	.068	.019	.134	.067	.019	.130	.065	.019	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0																
1.0	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
2.0	.171	.140	.114	.146	.120	.098	.100	.083	.069	.058	.048	.040	.019	.016	.013	
3.0	.161	.121	.090	.138	.105	.078	.095	.073	.055	.055	.042	.032	.018	.014	.011	
4.0	.153	.107	.073	.131	.093	.063	.090	.065	.045	.052	.038	.026	.017	.012	.009	
5.0	.145	.097	.061	.125	.084	.053	.086	.058	.037	.050	.034	.022	.016	.011	.007	
6.0	.138	.088	.052	.119	.076	.045	.082	.053	.032	.048	.031	.019	.015	.010	.006	
7.0	.132	.081	.045	.114	.070	.039	.079	.049	.028	.046	.029	.016	.015	.009	.005	
8.0	.127	.075	.039	.109	.065	.034	.075	.046	.024	.044	.027	.015	.014	.009	.005	
9.0	.121	.070	.035	.104	.061	.031	.072	.043	.022	.042	.025	.013	.014	.008	.004	
10.0	.116	.066	.032	.100	.057	.028	.070	.040	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## UGR(Unified Glare Rating) Table

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm										
NAME: ASD-UFS-PRO-200					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp					SUR.:0.37*0.37m			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	26.0	27.3	26.3	27.5	27.7	25.9	27.2	26.2	27.4	27.6
3H	26.3	27.4	26.5	27.6	27.9	26.2	27.3	26.4	27.5	27.8
4H	26.3	27.4	26.6	27.6	27.9	26.2	27.3	26.5	27.5	27.8
6H	26.3	27.3	26.6	27.6	27.9	26.2	27.2	26.5	27.4	27.7
8H	26.3	27.2	26.6	27.5	27.8	26.1	27.1	26.5	27.4	27.7
12H	26.2	27.2	26.6	27.5	27.8	26.1	27.0	26.4	27.3	27.6
4H 2H	26.0	27.1	26.3	27.4	27.6	26.0	27.0	26.3	27.3	27.6
3H	26.4	27.3	26.7	27.6	27.9	26.3	27.2	26.6	27.5	27.8
4H	26.5	27.3	26.9	27.6	28.0	26.4	27.2	26.7	27.5	27.9
6H	26.5	27.3	26.9	27.6	28.0	26.4	27.1	26.8	27.5	27.9
8H	26.5	27.2	26.9	27.6	28.0	26.4	27.0	26.8	27.4	27.8
12H	26.5	27.1	26.9	27.5	27.9	26.3	26.9	26.8	27.3	27.8
8H 4H	26.4	27.1	26.9	27.5	27.9	26.3	27.0	26.7	27.4	27.8
6H	26.5	27.1	27.0	27.5	27.9	26.4	26.9	26.8	27.4	27.8
8H	26.5	27.0	27.0	27.5	27.9	26.4	26.9	26.8	27.3	27.8
12H	26.5	26.9	27.0	27.4	27.9	26.4	26.8	26.8	27.2	27.7
12H 4H	26.4	27.0	26.8	27.4	27.8	26.3	26.9	26.7	27.3	27.7
6H	26.5	27.0	27.0	27.4	27.9	26.4	26.8	26.8	27.3	27.8
8H	26.5	26.9	27.0	27.4	27.9	26.4	26.8	26.8	27.2	27.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.7					+ 1.2 / - 1.8				
1.5H	+ 1.3 / - 1.4					+ 1.4 / - 1.4				
2.0H	+ 2.5 / - 2.1					+ 2.6 / - 2.1				

CIE Pub.117, 31503 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.0)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

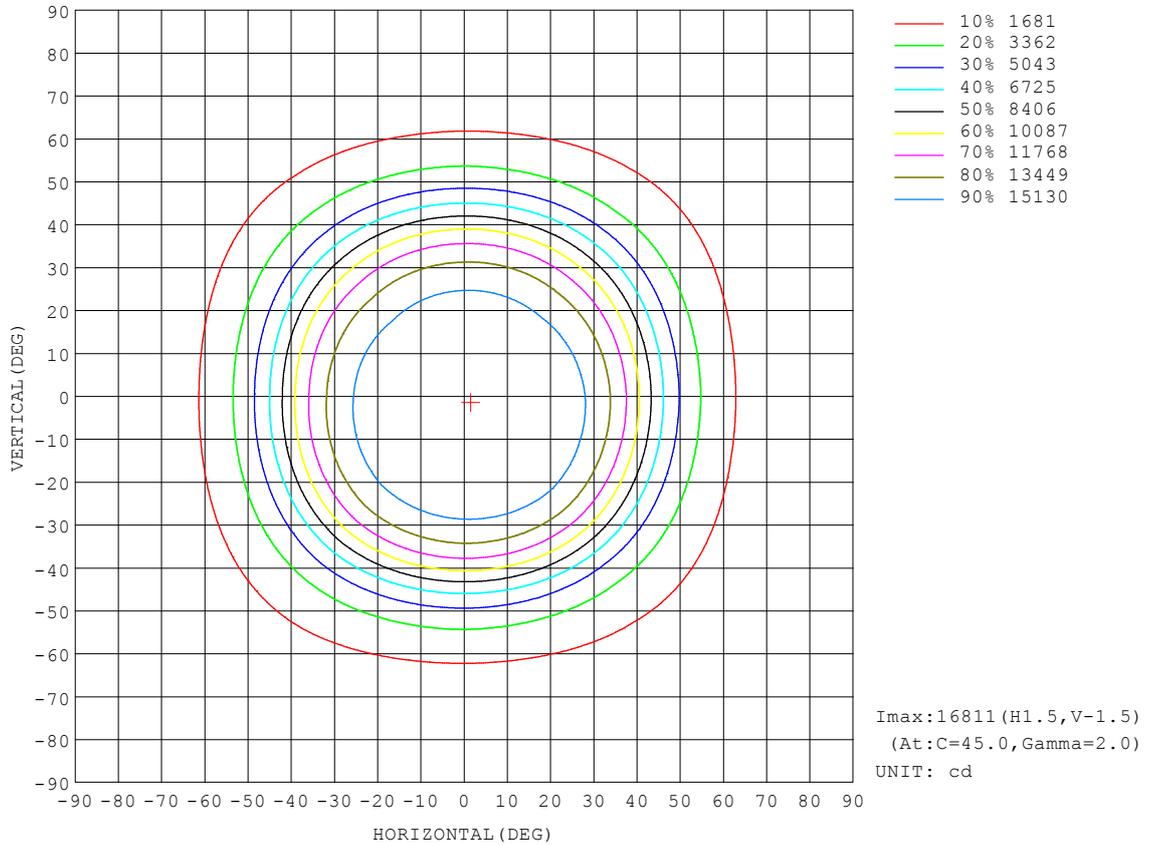
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	61	56	70	61	56	69	61	55	50
0.80	80	71	66	79	71	65	78	70	65	60
1.00	88	79	74	86	79	73	84	79	73	67
1.25	93	86	81	92	85	80	90	84	79	74
1.50	97	90	85	96	90	85	93	88	84	78
2.00	102	96	92	101	95	91	98	93	89	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	107	103	99	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	106	110	106	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:27DEG  
Operators:lianghaizhu  
Test Date:2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity:56%  
Test Distance:6.500m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

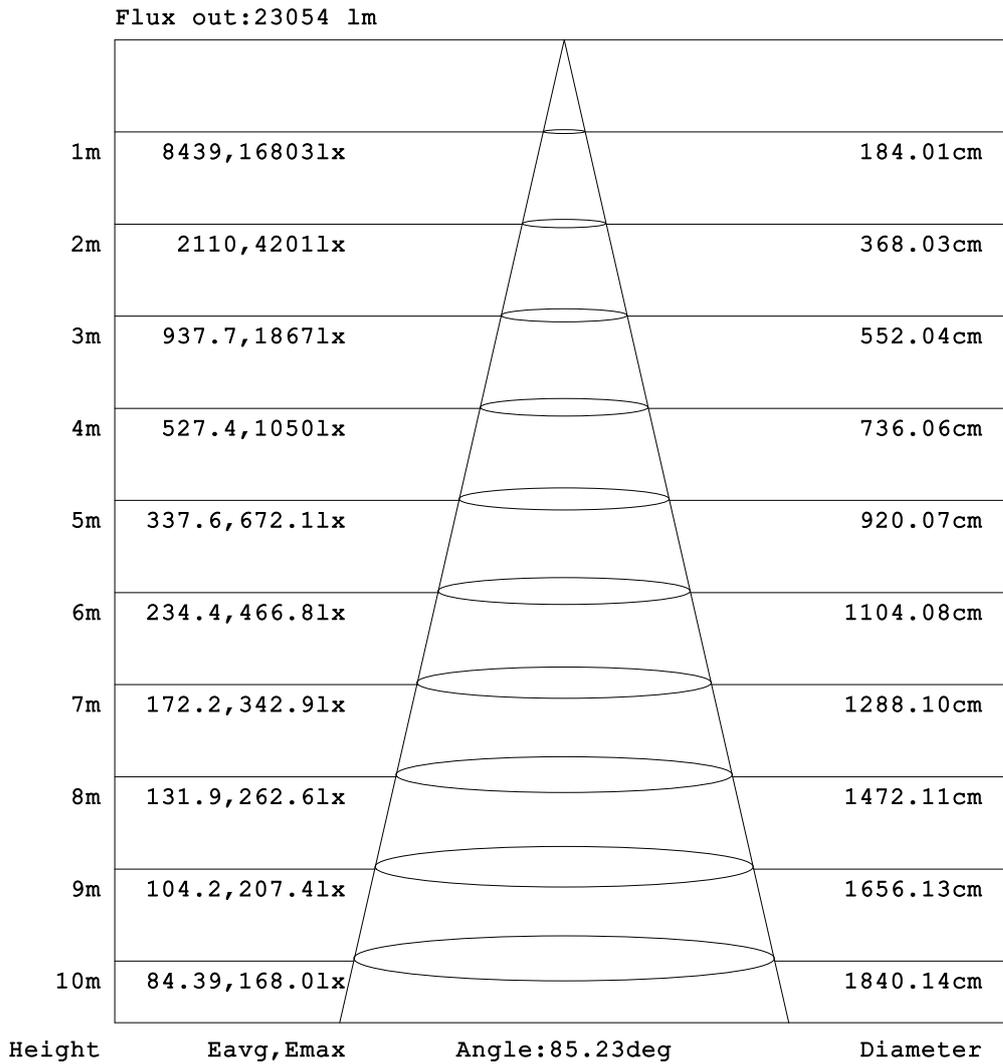


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

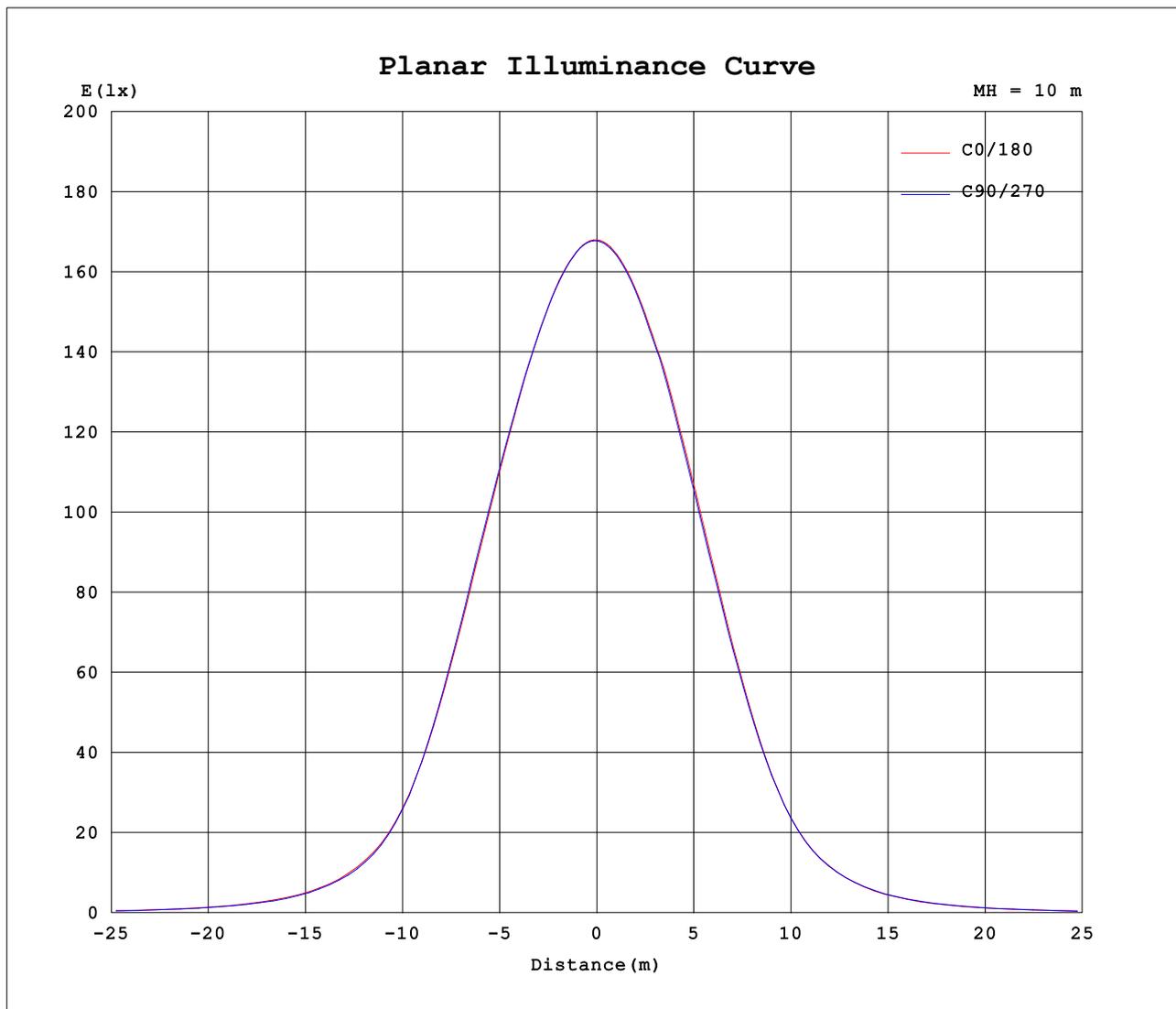


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 27DEG  
Operators: lianghaizhu  
Test Date: 2024-01-08

Range: 0 - 180DEG  
 Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
Humidity: 56%  
Test Distance: 6.500m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:121.4V I:1.665A P:201.5W PF:0.9972 Freq:59.97Hz Lamp Flux:31503.3x1 lm		
NAME: ASD-UFS-PRO-200	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) \ □ (DEG)	0	45	90	135	180	225	270	315										
0	1680	1679	1678	1676	1680	1679	1678	1676										
5	1678	1680	1678	1673	1672	1670	1669	1671										
10	1670	1671	1668	1662	1656	1652	1652	1657										
15	1652	1655	1652	1642	1630	1622	1622	1632										
20	1622	1628	1624	1615	1598	1573	1585	1590										
25	1565	1590	1574	1563	1524	1494	1506	1520										
30	1468	1499	1484	1464	1404	1371	1384	1406										
35	1299	1328	1315	1296	1218	1186	1201	1227										
40	1041	1061	1051	1039	960	938	950	974										
45	739	735	733	726	671	661	671	689										
50	496	469	480	478	448	432	444	452										
55	331	300	318	309	294	289	300	292										
60	217	201	205	205	190	184	196	196										
65	139	129	132	132	120	119	126	128										
70	88.3	82.0	82.6	82.8	75.1	75.5	77.5	81.2										
75	51.5	49.2	46.9	48.1	41.9	44.2	44.1	47.0										
80	24.8	22.6	21.1	20.8	18.5	18.8	20.3	20.7										
85	6.85	6.68	4.41	6.26	3.30	5.90	4.26	6.22										
90	0.83	0.81	0.83	0.83	0.83	0.80	0.80	0.80										
95	1.10	1.08	1.10	1.12	1.12	1.09	1.08	1.08										
100	1.48	1.47	1.49	1.52	1.52	1.50	1.47	1.48										
105	2.00	1.98	2.00	2.04	2.04	2.02	1.99	2.00										
110	2.62	2.59	2.62	2.67	2.67	2.65	2.62	2.62										
115	3.34	3.29	3.33	3.39	3.39	3.37	3.34	3.33										
120	4.13	4.07	4.11	4.18	4.18	4.16	4.13	4.10										
125	4.97	4.90	4.94	5.01	5.03	5.00	4.98	4.93										
130	5.82	5.74	5.78	5.84	5.90	5.87	5.85	5.78										
135	6.66	6.56	6.61	6.66	6.77	6.72	6.73	6.63										
140	7.47	7.38	7.41	7.46	7.62	7.56	7.58	7.48										
145	8.24	8.15	8.19	8.22	8.42	8.37	8.37	8.28										
150	9.01	8.92	8.96	8.96	9.21	9.15	9.15	9.06										
155	9.83	9.72	9.78	9.75	10.0	9.96	9.97	9.86										
160	10.7	10.6	10.7	10.6	10.9	10.8	10.8	10.7										
165	11.5	11.4	11.5	11.4	11.8	11.6	11.7	11.6										
170	12.3	12.2	12.2	12.1	12.5	12.3	12.4	12.2										
175	12.9	12.7	12.8	12.6	12.9	12.8	12.9	12.7										
180	13.1	12.9	13.1	12.9	13.1	12.9	13.1	12.9										

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2024-01-08

□ Range: 0 - 180DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.364  
 Humidity:56%  
 Test Distance:6.500m [K=1.0000]  
 Remarks: