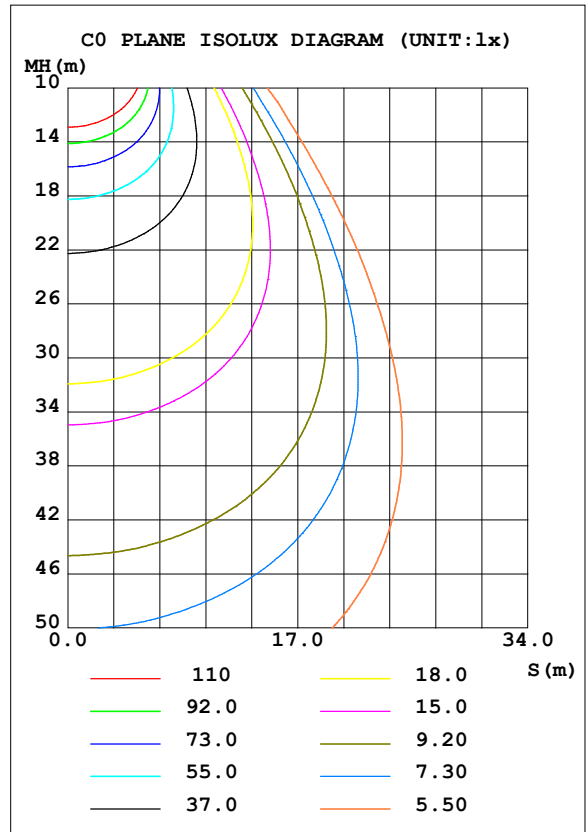
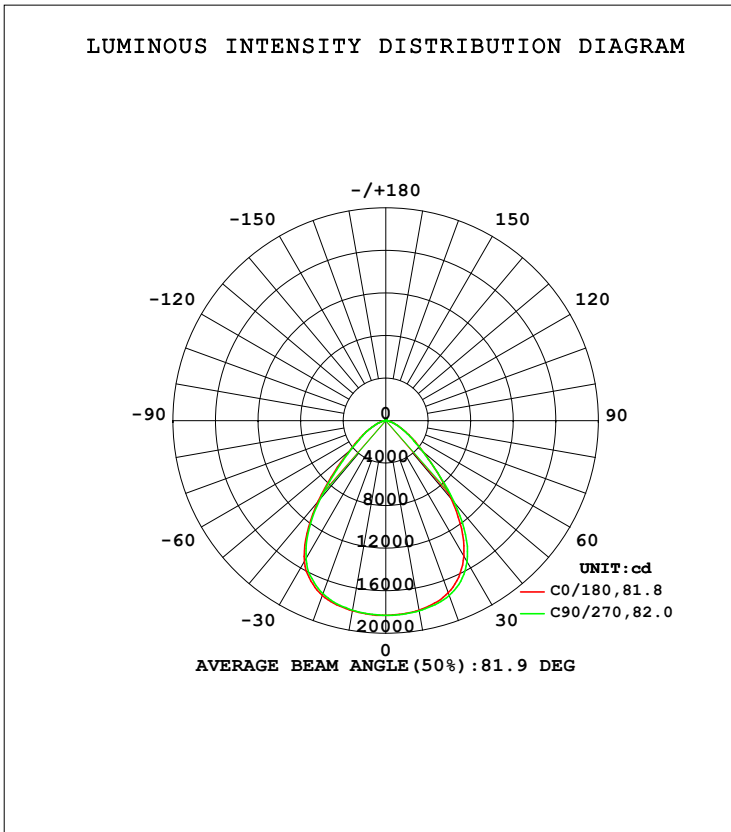


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.64 lm/W			
MODEL	ASD-UFSHV-PRO-200-QB	I _{max} (cd)	18330	S/MH (C0/180)	1.18
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	32601	<input type="checkbox"/> UP, DN (C0-180)	0.5, 50.1
NOMINAL FLUX (lm)	32600.7	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 48.9
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	277	<input type="checkbox"/> down (%)	99.0	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2024-09-04

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	1809	1812	1816	1818	1815	1813	1810	1807	0- 10	1739	1739	5.33,5.33
20	1721	1731	1748	1761	1748	1739	1731	1719	10- 20	5040	6779	20.8,20.8
30	1468	1496	1530	1573	1529	1498	1500	1464	20- 30	7566	14345	44,44
40	956.7	959.1	1005	1036	989.2	940.9	962.0	918.2	30- 40	7865	22210	68.1,68.1
50	466.2	443.5	460.2	469.8	454.7	422.6	438.4	425.8	40- 50	5221	27431	84.1,84.1
60	222.0	207.7	217.4	212.4	216.0	195.5	209.3	197.4	50- 60	2806	30237	92.7,92.7
70	93.44	89.97	90.41	88.27	86.91	82.11	85.54	84.24	60- 70	1391	31628	97,97
80	26.39	26.82	24.23	25.83	21.83	22.67	22.74	23.09	70- 80	558.3	32186	98.7,98.7
90	0.8240	0.8027	0.8098	0.8102	0.8307	0.8197	0.8148	0.8299	80- 90	89.27	32276	99,99
100	1.528	1.489	1.499	1.481	1.559	1.548	1.548	1.585	90-100	12.40	32288	99,99
110	2.718	2.658	2.669	2.626	2.773	2.765	2.796	2.858	100-110	22.06	32310	99.1,99.1
120	4.340	4.256	4.263	4.191	4.418	4.412	4.480	4.553	110-120	34.84	32345	99.2,99.2
130	6.185	6.062	6.088	5.974	6.321	6.312	6.405	6.466	120-130	47.28	32392	99.4,99.4
140	8.009	7.841	7.896	7.743	8.238	8.188	8.312	8.337	130-140	55.23	32448	99.5,99.5
150	9.743	9.495	9.619	9.402	10.03	9.964	10.08	10.08	140-150	55.94	32504	99.7,99.7
160	11.55	11.25	11.46	11.17	11.83	11.72	11.89	11.81	150-160	49.20	32553	99.9,99.9
170	13.26	12.94	13.21	12.91	13.44	13.23	13.49	13.29	160-170	35.04	32588	100,100
180	14.09	13.84	14.12	13.86	14.10	13.83	14.13	13.85	170-180	12.95	32601	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 25218 lm

%lum = 77.4%

%lamp = 77.4%

Conical surface Flux(120deg): 30237 lm

%lum = 92.7%

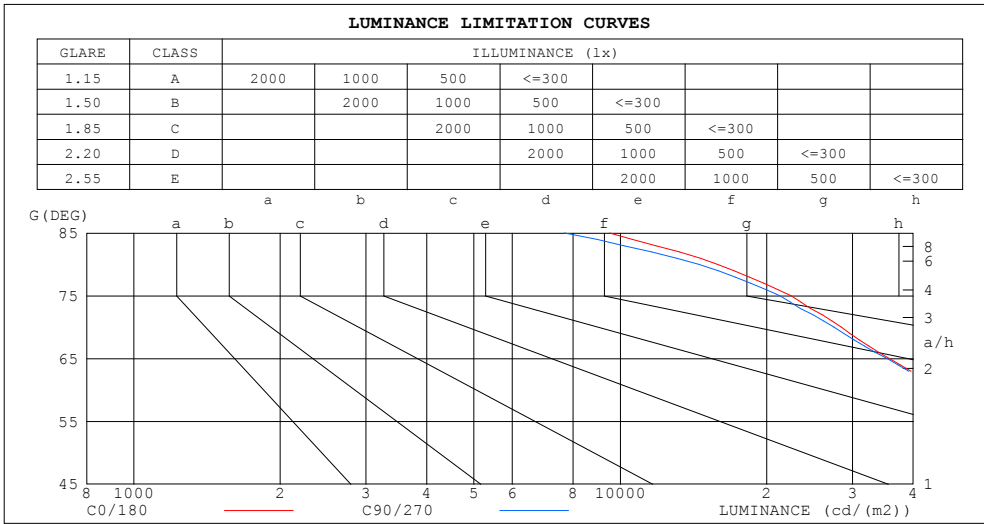
%lamp = 92.7%

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-09-04

□ 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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9503	7672
80	15831	14508
75	22435	21268
70	28455	27485
65	35730	35355
60	46251	45209
55	60014	55971
50	75537	74442
45	100292	101360

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-09-04

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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	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	.229	.130	.041	.222	.127	.040	.209	.120	.038	.196	.113	.036	.185	.107	.035	
2.0	.222	.122	.037	.216	.119	.037	.204	.114	.035	.194	.109	.034	.184	.104	.033	
3.0	.211	.112	.034	.206	.110	.033	.196	.106	.032	.186	.102	.031	.178	.098	.030	
4.0	.200	.104	.031	.195	.102	.030	.186	.099	.030	.178	.096	.029	.170	.093	.028	
5.0	.189	.096	.028	.185	.095	.028	.177	.092	.027	.169	.089	.027	.163	.087	.026	
6.0	.178	.089	.026	.175	.088	.025	.168	.086	.025	.161	.084	.025	.155	.082	.024	
7.0	.169	.083	.024	.166	.082	.024	.159	.080	.023	.153	.079	.023	.148	.077	.023	
8.0	.160	.078	.022	.157	.077	.022	.151	.076	.022	.146	.074	.021	.141	.072	.021	
9.0	.152	.073	.021	.149	.073	.020	.144	.071	.020	.139	.070	.020	.135	.068	.020	
10.0	.144	.069	.019	.142	.069	.019	.137	.067	.019	.133	.066	.019	.129	.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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.182	.165	.148	.156	.141	.128	.107	.097	.088	.061	.056	.051	.020	.018	.017	
2.0	.171	.140	.114	.146	.120	.099	.100	.083	.069	.058	.048	.040	.019	.016	.013	
3.0	.161	.122	.090	.138	.105	.078	.095	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.152	.108	.073	.131	.093	.064	.090	.065	.045	.052	.038	.027	.017	.012	.009	
5.0	.145	.097	.061	.125	.084	.053	.086	.058	.038	.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	.078	.049	.028	.046	.029	.017	.015	.009	.005	
8.0	.126	.075	.040	.109	.065	.035	.075	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.121	.070	.036	.104	.061	.031	.072	.043	.022	.042	.025	.013	.014	.008	.004	
10.0	.116	.066	.032	.100	.057	.028	.069	.040	.020	.040	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-09-04

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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm										
NAME: ASD-UFSHV-PRO-200-QB					TYPE:			WEIGHT:		
SPEC.: 200W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.35*0.35m			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	27.2	26.3	27.4	27.7	26.0	27.2	26.3	27.4	27.6
3H	26.3	27.5	26.6	27.7	27.9	26.3	27.4	26.6	27.7	27.9
4H	26.4	27.5	26.7	27.7	28.0	26.4	27.4	26.7	27.7	28.0
6H	26.4	27.4	26.8	27.7	28.0	26.4	27.4	26.7	27.7	27.9
8H	26.4	27.4	26.8	27.7	27.9	26.4	27.3	26.7	27.6	27.9
12H	26.4	27.3	26.7	27.6	27.9	26.3	27.2	26.7	27.5	27.8
4H 2H	26.1	27.1	26.4	27.4	27.7	26.1	27.1	26.4	27.4	27.7
3H	26.5	27.4	26.9	27.7	28.0	26.5	27.4	26.9	27.7	28.0
4H	26.7	27.5	27.1	27.8	28.2	26.6	27.5	27.0	27.8	28.1
6H	26.7	27.5	27.1	27.8	28.2	26.7	27.4	27.1	27.8	28.2
8H	26.7	27.4	27.2	27.8	28.2	26.7	27.4	27.1	27.7	28.1
12H	26.7	27.3	27.2	27.7	28.1	26.7	27.3	27.1	27.7	28.1
8H 4H	26.7	27.3	27.1	27.7	28.1	26.6	27.3	27.0	27.7	28.1
6H	26.8	27.3	27.2	27.7	28.2	26.7	27.3	27.2	27.7	28.1
8H	26.8	27.3	27.3	27.7	28.2	26.7	27.2	27.2	27.7	28.1
12H	26.8	27.2	27.3	27.7	28.2	26.7	27.1	27.2	27.6	28.1
12H 4H	26.6	27.2	27.1	27.6	28.1	26.6	27.2	27.0	27.6	28.0
6H	26.8	27.2	27.2	27.7	28.1	26.7	27.2	27.2	27.6	28.1
8H	26.8	27.2	27.3	27.7	28.2	26.7	27.1	27.2	27.6	28.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.4					+ 1.0 / - 1.5				
1.5H	+ 1.2 / - 0.9					+ 1.3 / - 1.0				
2.0H	+ 2.1 / - 1.7					+ 2.2 / - 1.7				

CIE Pub.117, 32601 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.1)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-09-04

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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

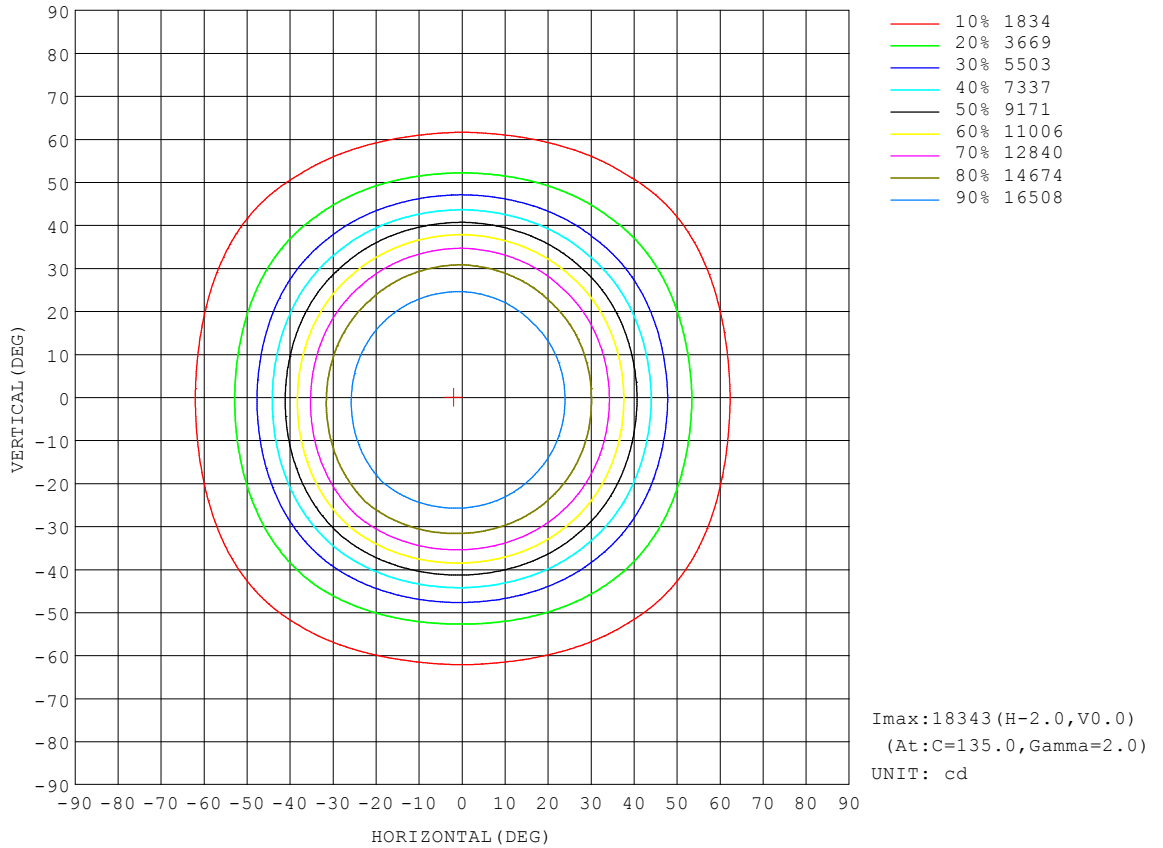
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	62	57	71	62	57	70	62	57	51
0.80	81	72	67	80	72	66	78	71	66	61
1.00	88	80	74	87	79	74	85	80	74	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	94	88	84	78
2.00	103	97	92	101	95	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	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:2024-09-04

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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

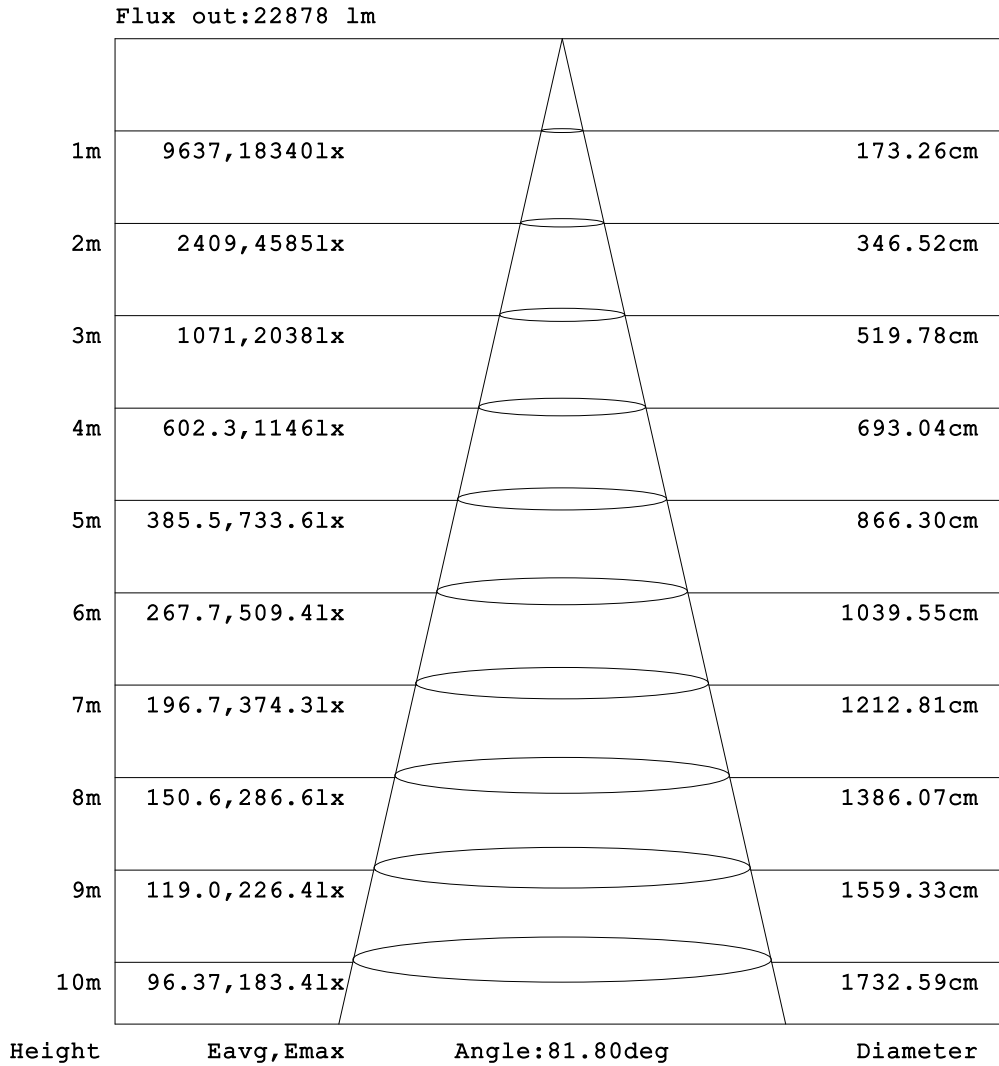


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-09-04

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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

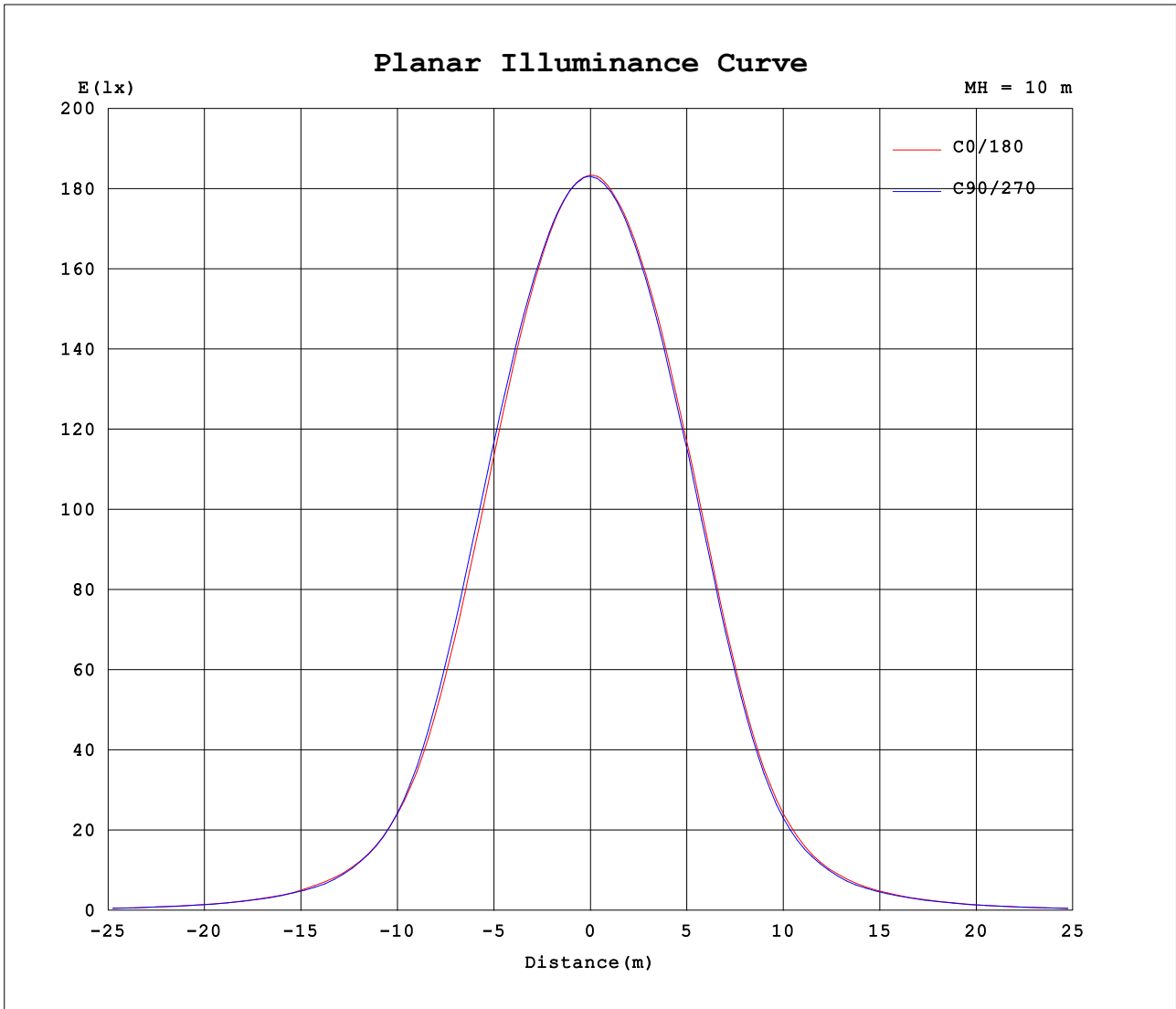


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-09-04

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: 2024-09-04

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:277.4V I:0.7310A P:200.4W PF:0.9886 Freq:64.98Hz Lamp Flux:32600.7x1 lm		
NAME: ASD-UFSHV-PRO-200-QB	TYPE:	WEIGHT:
SPEC.: 200W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1831	1831	1831	1831	1831	1831	1831	1831										
5	1825	1826	1827	1829	1828	1826	1824	1824										
10	1809	1812	1816	1818	1815	1813	1810	1807										
15	1777	1782	1791	1797	1790	1788	1781	1775										
20	1721	1731	1748	1761	1748	1739	1731	1719										
25	1623	1639	1669	1691	1666	1652	1642	1622										
30	1468	1496	1530	1573	1529	1498	1500	1464										
35	1243	1265	1308	1352	1294	1254	1266	1227										
40	957	959	1005	1036	989	941	962	918										
45	681	658	689	703	684	639	653	627										
50	466	444	460	470	455	423	438	426										
55	330	314	309	321	312	298	296	294										
60	222	208	217	212	216	196	209	197										
65	145	137	144	136	140	126	136	130										
70	93.4	90.0	90.4	88.3	86.9	82.1	85.5	84.2										
75	55.7	54.7	52.9	53.3	49.4	48.3	49.5	49.8										
80	26.4	26.8	24.2	25.8	21.8	22.7	22.7	23.1										
85	7.95	7.35	6.43	6.33	5.12	5.38	6.08	4.47										
90	0.82	0.80	0.81	0.81	0.83	0.82	0.81	0.83										
95	1.12	1.10	1.10	1.09	1.14	1.13	1.13	1.15										
100	1.53	1.49	1.50	1.48	1.56	1.55	1.55	1.59										
105	2.06	2.01	2.02	1.99	2.11	2.09	2.11	2.16										
110	2.72	2.66	2.67	2.63	2.77	2.76	2.80	2.86										
115	3.49	3.41	3.42	3.37	3.56	3.55	3.60	3.67										
120	4.34	4.26	4.26	4.19	4.42	4.41	4.48	4.55										
125	5.25	5.15	5.16	5.08	5.36	5.35	5.43	5.51										
130	6.19	6.06	6.09	5.97	6.32	6.31	6.41	6.47										
135	7.11	6.97	7.01	6.87	7.29	7.26	7.38	7.42										
140	8.01	7.84	7.90	7.74	8.24	8.19	8.31	8.34										
145	8.88	8.68	8.76	8.58	9.14	9.09	9.20	9.22										
150	9.74	9.50	9.62	9.40	10.0	9.96	10.1	10.1										
155	10.6	10.3	10.5	10.3	10.9	10.8	11.0	10.9										
160	11.5	11.2	11.5	11.2	11.8	11.7	11.9	11.8										
165	12.5	12.2	12.4	12.1	12.7	12.6	12.8	12.6										
170	13.3	12.9	13.2	12.9	13.4	13.2	13.5	13.3										
175	13.8	13.5	13.8	13.5	13.9	13.7	14.0	13.7										
180	14.1	13.8	14.1	13.9	14.1	13.8	14.1	13.9										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-09-04

□ 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: