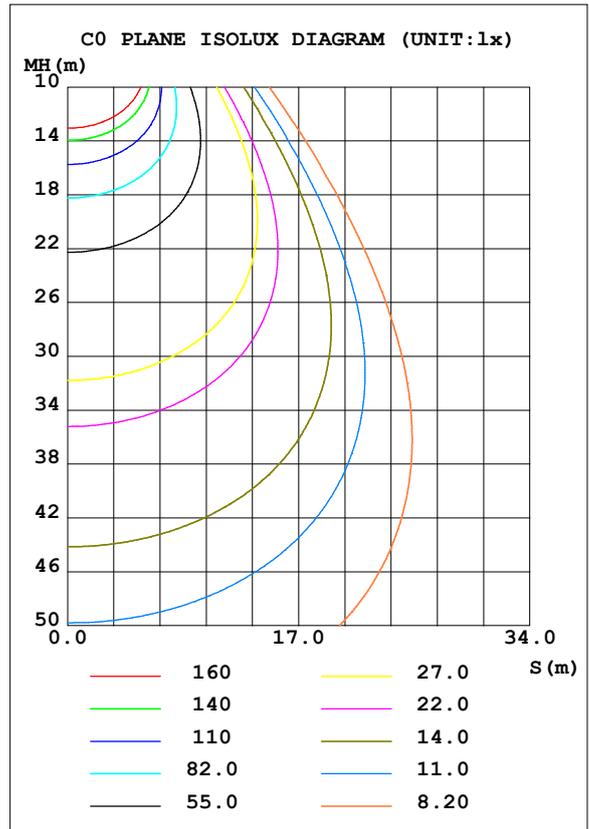
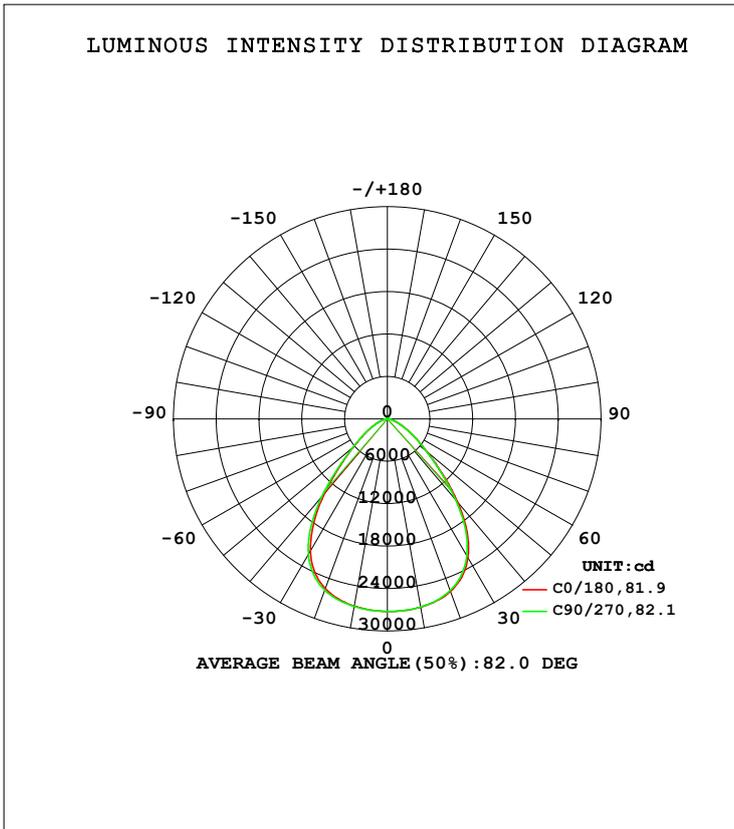


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.62 lm/W			
MODEL	ASD-UFSHV-PRO-300-QB	I _{max} (cd)	27246	S/MH (C0/180)	1.15
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.17
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	48323	<input type="checkbox"/> UP, DN (C0-180)	0.5, 50.6
NOMINAL FLUX (lm)	48323.4	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 48.4
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	<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: 2024-08-12

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	2704	2705	2699	2696	2687	2688	2692	2699	0- 10	2587	2587	5.35,5.35
20	2595	2591	2582	2573	2554	2557	2576	2589	10- 20	7489	10077	20.9,20.9
30	2262	2253	2232	2208	2162	2174	2217	2238	20- 30	11181	21258	44,44
40	1533	1505	1491	1427	1365	1319	1432	1448	30- 40	11602	32860	68,68
50	732.8	688.8	718.3	663.2	635.7	592.3	645.4	674.7	40- 50	7756	40616	84.1,84.1
60	341.2	324.5	335.2	306.5	293.9	271.6	296.2	315.3	50- 60	4172	44788	92.7,92.7
70	145.3	141.2	142.9	133.6	120.1	116.3	122.2	131.3	60- 70	2071	46859	97,97
80	42.01	45.58	42.55	39.62	30.57	29.99	31.84	37.02	70- 80	844.0	47703	98.7,98.7
90	1.166	1.146	1.192	1.232	1.253	1.239	1.243	1.198	80- 90	144.0	47847	99,99
100	2.155	2.103	2.209	2.288	2.362	2.335	2.323	2.247	90-100	18.30	47865	99.1,99.1
110	3.846	3.772	3.950	4.056	4.184	4.147	4.106	3.997	100-110	32.41	47898	99.1,99.1
120	6.184	6.105	6.323	6.439	6.603	6.552	6.482	6.344	110-120	51.00	47949	99.2,99.2
130	8.888	8.806	9.031	9.138	9.435	9.326	9.286	9.083	120-130	69.16	48018	99.4,99.4
140	11.60	11.45	11.71	11.75	12.20	12.04	12.06	11.80	130-140	80.92	48099	99.5,99.5
150	14.17	13.88	14.22	14.18	14.81	14.58	14.66	14.38	140-150	81.97	48181	99.7,99.7
160	16.84	16.43	16.89	16.70	17.46	17.20	17.35	17.02	150-160	72.10	48253	99.9,99.9
170	19.39	18.94	19.42	19.16	19.80	19.43	19.71	19.32	160-170	51.37	48304	100,100
180	20.71	20.32	20.70	20.35	20.74	20.31	20.73	20.35	170-180	19.01	48323	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 37320 lm

%lum = 77.2%

%lamp = 77.2%

Conical surface Flux(120deg): 44788 lm

%lum = 92.7%

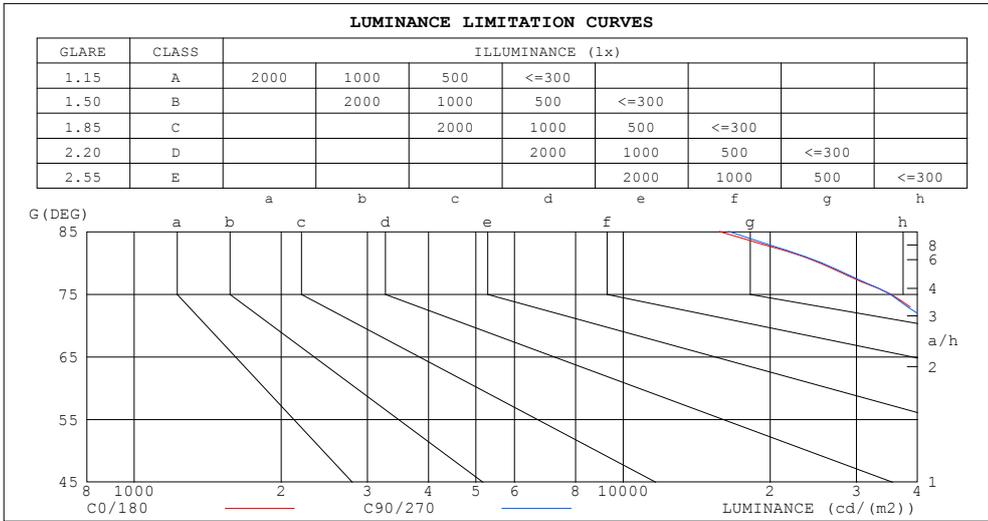
%lamp = 92.7%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-12

□ 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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-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	15745	16473
80	25212	25493
75	35301	35160
70	44261	43462
65	55012	53843
60	71114	69745
55	91178	90663
50	118810	116262
45	159803	154893

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-12

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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-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	.230 .131 .041	.223 .127 .040	.209 .120 .038	.197 .114 .036	.185 .107 .035	
2.0	.223 .122 .037	.216 .119 .037	.205 .114 .035	.194 .109 .034	.184 .104 .033	
3.0	.212 .113 .034	.206 .110 .033	.196 .106 .032	.187 .102 .031	.178 .099 .031	
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	.170 .089 .027	.163 .087 .026	
6.0	.179 .090 .026	.175 .088 .025	.168 .086 .025	.161 .084 .025	.155 .082 .024	
7.0	.169 .084 .024	.166 .083 .024	.159 .081 .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	.115 .115 .115	.066 .066 .066	.021 .021 .021	
1.0	.182 .164 .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	.124 .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	.113 .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:2024-08-12

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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm										
NAME: ASD-UFSHV-PRO-300-QB					TYPE:			WEIGHT:		
SPEC.: 300W-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	27.7	28.9	28.0	29.1	29.3	27.6	28.9	27.9	29.1	29.3
3H	28.0	29.2	28.3	29.4	29.6	27.9	29.1	28.2	29.3	29.5
4H	28.1	29.2	28.4	29.4	29.7	28.0	29.1	28.3	29.4	29.6
6H	28.1	29.1	28.5	29.4	29.7	28.1	29.1	28.4	29.3	29.6
8H	28.1	29.1	28.5	29.4	29.7	28.0	29.0	28.4	29.3	29.6
12H	28.1	29.0	28.4	29.3	29.6	28.0	28.9	28.4	29.2	29.5
4H 2H	27.8	28.8	28.1	29.1	29.4	27.7	28.8	28.0	29.0	29.3
3H	28.2	29.1	28.6	29.4	29.7	28.1	29.1	28.5	29.4	29.7
4H	28.4	29.2	28.8	29.5	29.9	28.3	29.1	28.7	29.5	29.8
6H	28.5	29.2	28.9	29.5	29.9	28.4	29.1	28.8	29.5	29.9
8H	28.5	29.1	28.9	29.5	29.9	28.4	29.1	28.8	29.4	29.8
12H	28.4	29.1	28.9	29.4	29.9	28.4	29.0	28.8	29.4	29.8
8H 4H	28.4	29.0	28.8	29.4	29.8	28.3	29.0	28.7	29.4	29.8
6H	28.5	29.1	29.0	29.5	29.9	28.4	29.0	28.9	29.4	29.9
8H	28.5	29.0	29.0	29.5	29.9	28.5	29.0	28.9	29.4	29.9
12H	28.5	28.9	29.0	29.4	29.9	28.5	28.9	29.0	29.4	29.8
12H 4H	28.3	29.0	28.8	29.4	29.8	28.3	28.9	28.7	29.3	29.7
6H	28.5	29.0	29.0	29.4	29.9	28.4	28.9	28.9	29.4	29.8
8H	28.5	28.9	29.0	29.4	29.9	28.5	28.9	29.0	29.3	29.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.4					+ 1.0 / - 1.4				
1.5H	+ 1.2 / - 1.1					+ 1.2 / - 1.0				
2.0H	+ 2.2 / - 1.6					+ 2.1 / - 1.6				

CIE Pub.117, 48323 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 13.5)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-12

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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

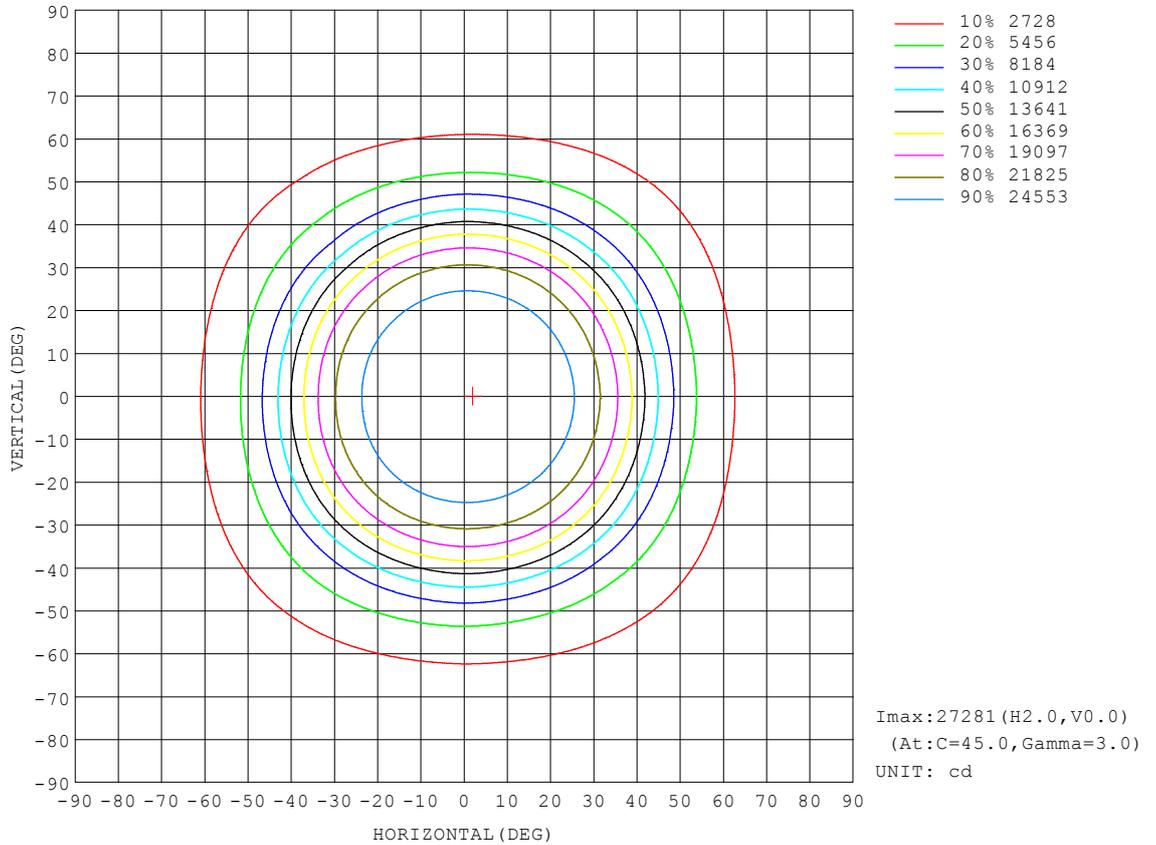
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	62	57	71	62	57	70	62	56	51
0.80	81	72	66	80	72	66	78	71	66	60
1.00	88	80	74	87	79	74	85	80	73	68
1.25	94	86	81	92	85	81	90	84	80	74
1.50	98	91	86	96	90	85	93	88	84	78
2.00	103	97	92	101	95	91	98	93	89	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	108	103	99	105	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:2024-08-12

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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

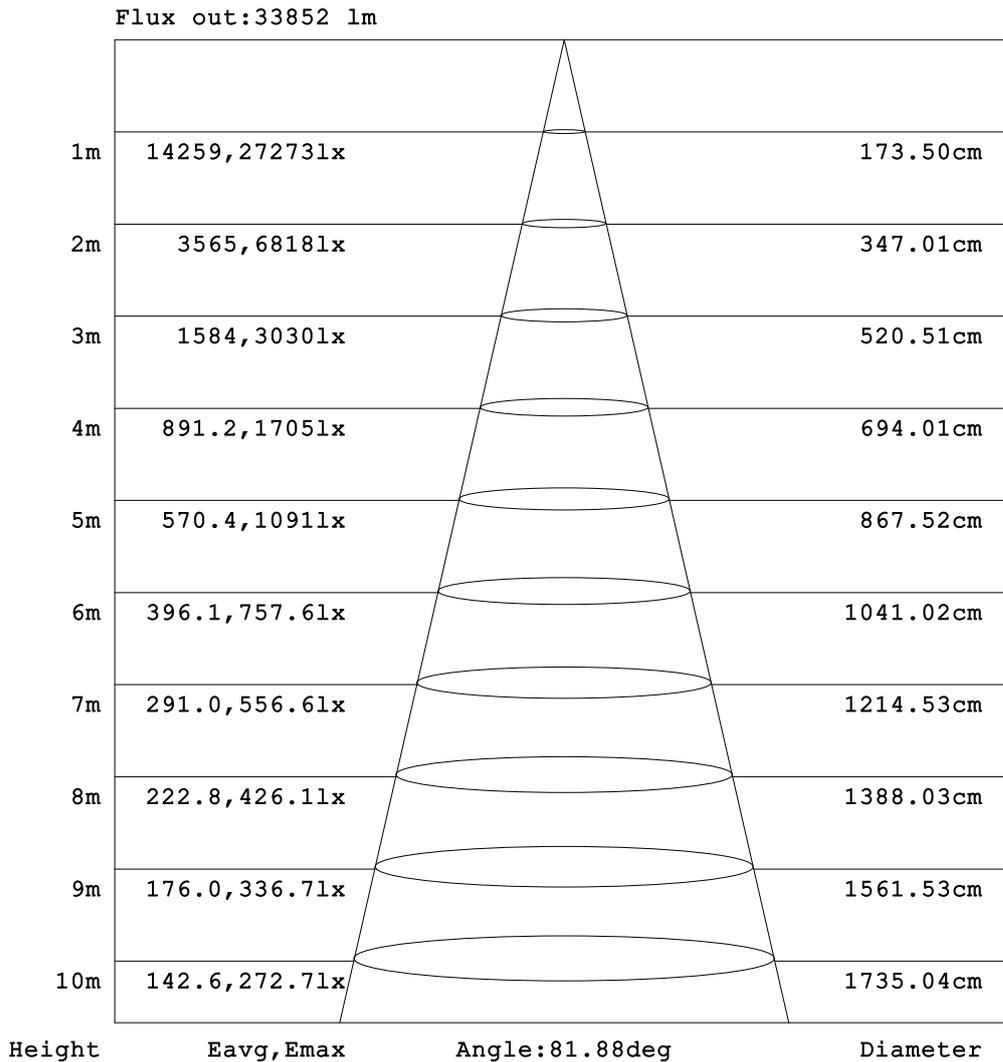


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-12

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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.35*0.35m	Shielding Angle:

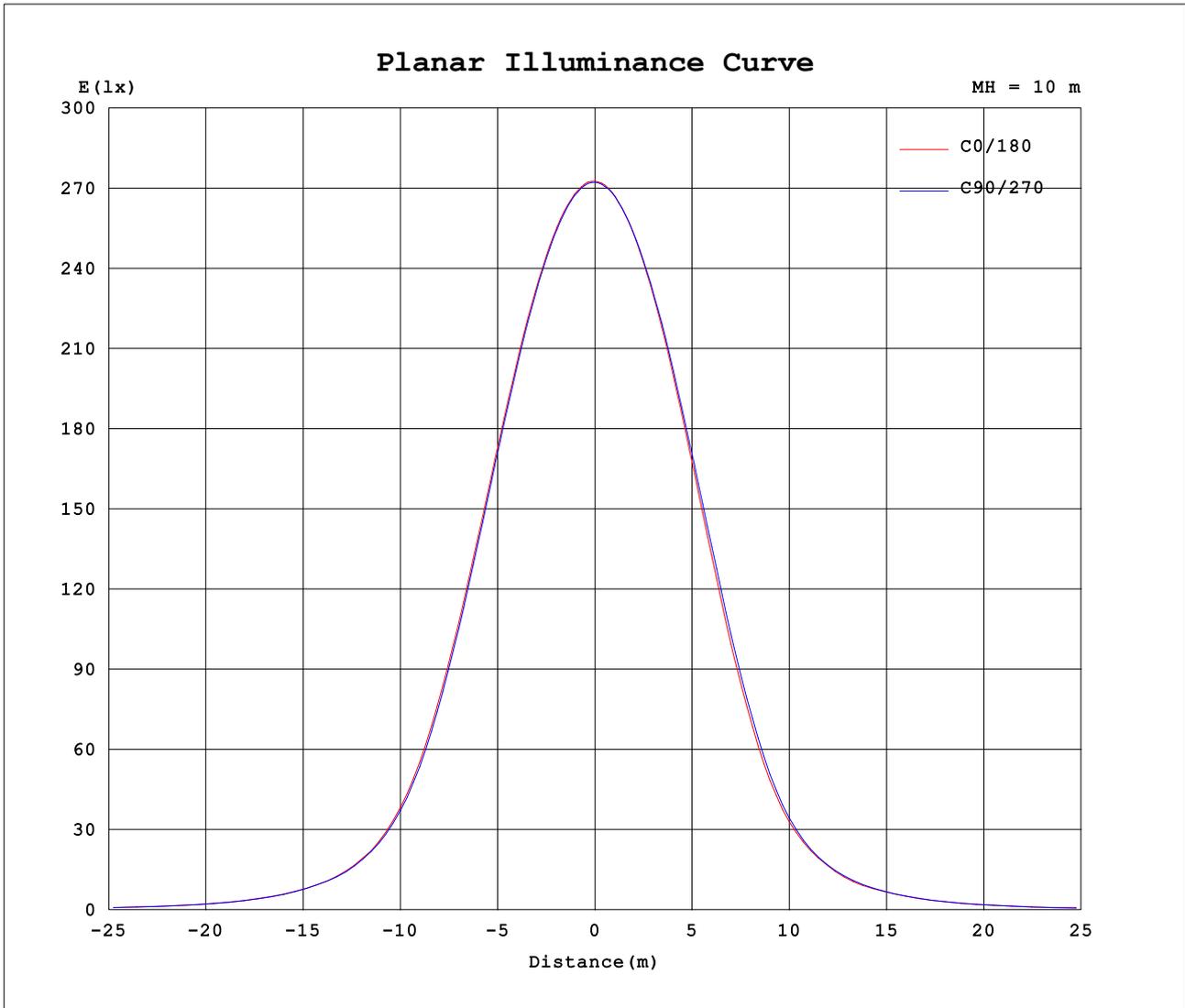


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-12

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: 2024-08-12

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:220.1V I:1.363A P:299.0W PF:0.9965 Freq:59.98Hz Lamp Flux:48323.4x1 lm		
NAME: ASD-UFSHV-PRO-300-QB	TYPE:	WEIGHT:
SPEC.: 300W-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	2723	2723	2723	2723	2723	2723	2723	2723										
5	2719	2721	2718	2717	2713	2712	2715	2718										
10	2704	2705	2699	2696	2687	2688	2692	2699										
15	2665	2665	2659	2653	2639	2641	2651	2660										
20	2595	2591	2582	2573	2554	2557	2576	2589										
25	2470	2462	2449	2434	2402	2413	2440	2459										
30	2262	2253	2232	2208	2162	2174	2217	2238										
35	1951	1933	1915	1866	1806	1801	1875	1900										
40	1533	1505	1491	1427	1365	1319	1432	1448										
45	1084	1032	1053	978	932	867	974	994										
50	733	689	718	663	636	592	645	675										
55	502	461	500	469	426	405	439	464										
60	341	325	335	307	294	272	296	315										
65	223	218	219	204	192	179	193	204										
70	145	141	143	134	120	116	122	131										
75	87.7	86.7	87.5	80.2	67.9	66.5	70.9	77.7										
80	42.0	45.6	42.6	39.6	30.6	30.0	31.8	37.0										
85	13.2	15.2	13.8	11.2	6.64	6.30	7.60	9.42										
90	1.17	1.15	1.19	1.23	1.25	1.24	1.24	1.20										
95	1.59	1.54	1.62	1.68	1.73	1.70	1.70	1.64										
100	2.16	2.10	2.21	2.29	2.36	2.34	2.32	2.25										
105	2.91	2.84	2.98	3.08	3.19	3.15	3.13	3.03										
110	3.85	3.77	3.95	4.06	4.18	4.15	4.11	4.00										
115	4.95	4.87	5.07	5.19	5.34	5.30	5.24	5.12										
120	6.18	6.11	6.32	6.44	6.60	6.55	6.48	6.34										
125	7.51	7.42	7.66	7.76	7.99	7.93	7.85	7.70										
130	8.89	8.81	9.03	9.14	9.43	9.33	9.29	9.08										
135	10.3	10.1	10.4	10.5	10.8	10.7	10.7	10.5										
140	11.6	11.5	11.7	11.7	12.2	12.0	12.1	11.8										
145	12.9	12.7	13.0	13.0	13.5	13.3	13.4	13.1										
150	14.2	13.9	14.2	14.2	14.8	14.6	14.7	14.4										
155	15.5	15.1	15.5	15.4	16.1	15.9	16.0	15.7										
160	16.8	16.4	16.9	16.7	17.5	17.2	17.3	17.0										
165	18.2	17.8	18.2	18.0	18.8	18.4	18.6	18.3										
170	19.4	18.9	19.4	19.2	19.8	19.4	19.7	19.3										
175	20.3	19.8	20.3	20.0	20.5	20.1	20.5	20.0										
180	20.7	20.3	20.7	20.4	20.7	20.3	20.7	20.3										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-08-12

□ 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: