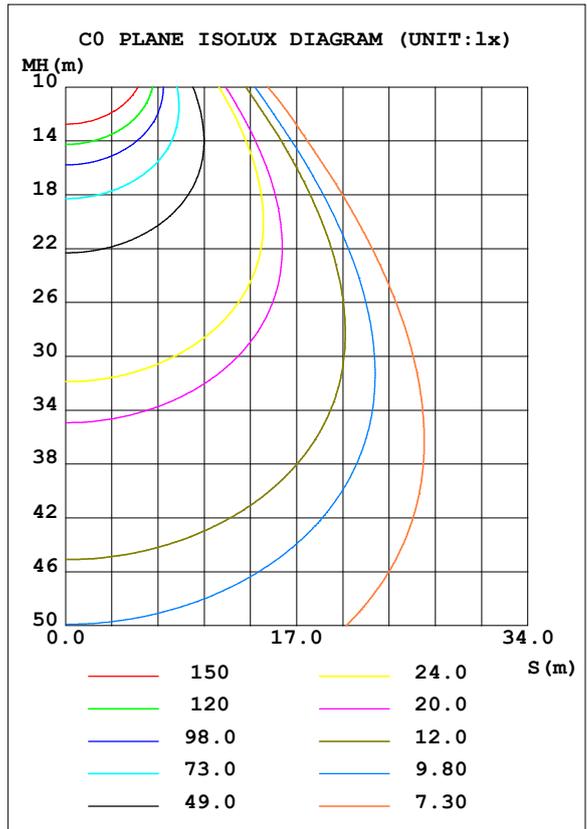
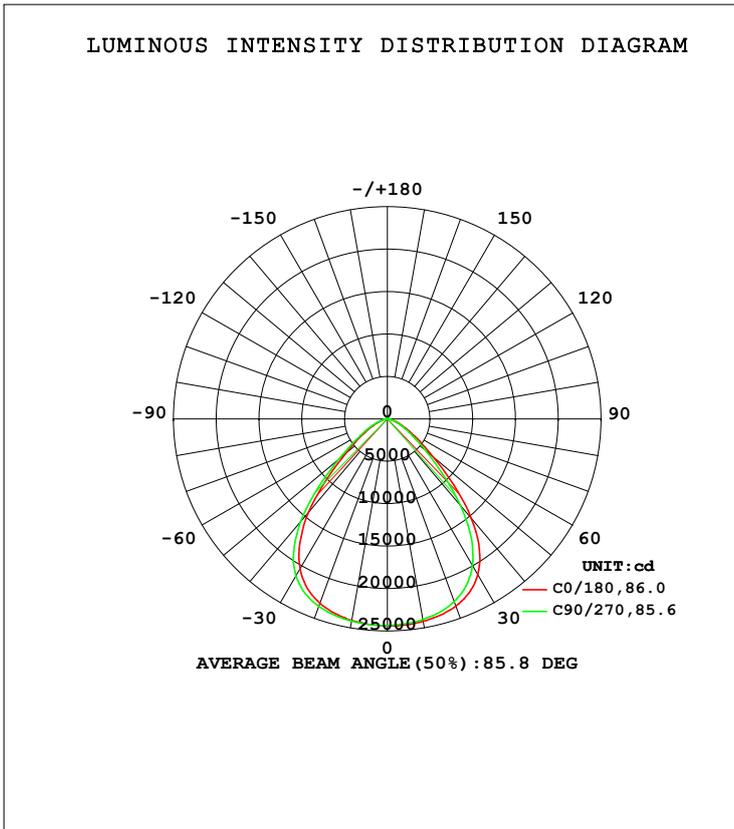


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.85 lm/W			
MODEL		I _{max} (cd)	24398	S/MH (C0/180)	1.21
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	45444	<input type="checkbox"/> UP, DN (C0-180)	0.5, 48.0
NOMINAL FLUX (lm)	45444.4	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 51.1
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: 2024-01-19

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	2422	2409	2400	2396	2410	2417	2419	2419	0- 10	2313	2313	5.09,5.09
20	2346	2312	2289	2285	2311	2338	2350	2353	10- 20	6719	9032	19.9,19.9
30	2117	2038	1991	1985	2043	2111	2138	2149	20- 30	10231	19263	42.4,42.4
40	1526	1370	1332	1322	1433	1513	1582	1574	30- 40	11228	30491	67.1,67.1
50	710.6	580.0	590.7	580.6	644.5	665.7	741.9	732.9	40- 50	7911	38402	84.5,84.5
60	304.5	248.4	255.0	247.3	277.2	291.3	317.9	316.6	50- 60	3938	42340	93.2,93.2
70	120.1	96.24	100.3	98.60	105.7	115.2	128.5	125.1	60- 70	1830	44169	97.2,97.2
80	31.59	26.63	25.97	26.68	28.03	34.40	38.30	38.58	70- 80	706.7	44876	98.7,98.7
90	1.164	1.231	1.289	1.286	1.219	1.117	1.075	1.067	80- 90	119.6	44995	99,99
100	2.164	2.297	2.402	2.412	2.317	2.118	2.026	2.006	90-100	17.94	45013	99.1,99.1
110	3.836	4.063	4.209	4.235	4.052	3.769	3.616	3.590	100-110	31.87	45045	99.1,99.1
120	6.032	6.330	6.502	6.540	6.315	5.965	5.760	5.722	110-120	49.47	45095	99.2,99.2
130	8.479	8.805	8.973	9.020	8.893	8.480	8.275	8.202	120-130	66.04	45161	99.4,99.4
140	10.82	11.10	11.28	11.32	11.38	10.95	10.84	10.68	130-140	76.07	45237	99.5,99.5
150	13.00	13.23	13.41	13.46	13.63	13.18	13.14	12.97	140-150	76.10	45313	99.7,99.7
160	15.42	15.60	15.77	15.81	16.06	15.58	15.59	15.39	150-160	66.43	45379	99.9,99.9
170	17.82	17.82	18.06	17.94	18.28	17.87	17.95	17.71	160-170	47.43	45427	100,100
180	19.09	18.83	19.06	18.83	19.11	18.81	19.08	18.81	170-180	17.57	45444	100,100
DEG	LUMINOUS INTENSITY:×10cd								UNIT:lm			

Conical surface Flux(90deg): 35068 lm

%lum = 77.2%

%lamp = 77.2%

Conical surface Flux(120deg): 42340 lm

%lum = 93.2%

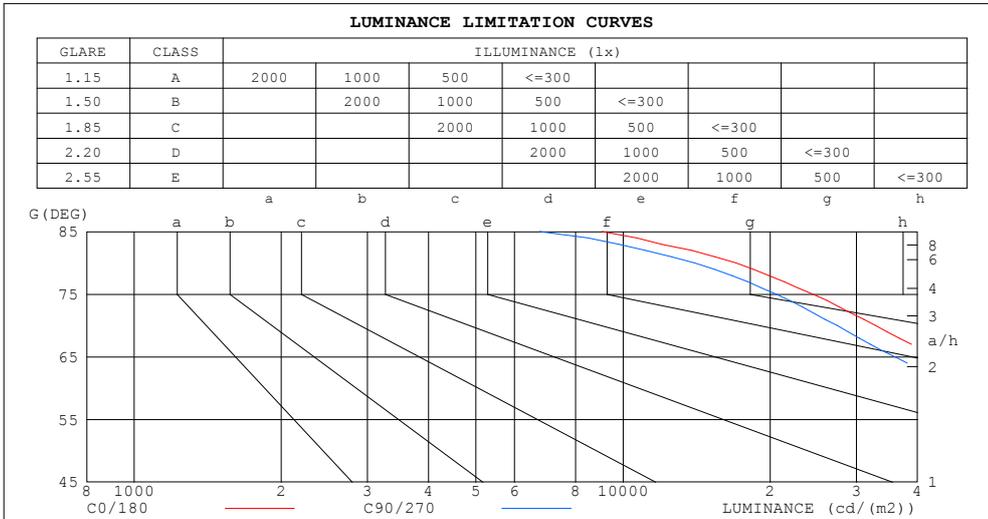
%lamp = 93.2%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-01-19

□ 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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	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	9053	6751
80	17001	13977
75	24428	20563
70	32828	27402
65	43816	35941
60	56915	47661
55	75751	62148
50	103314	85891
45	145048	120150

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-01-19

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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	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	.222	.127	.040	.209	.120	.038	.197	.113	.036	.185	.107	.035	
2.0	.223	.122	.037	.217	.119	.037	.205	.114	.035	.194	.109	.034	.185	.104	.033	
3.0	.212	.113	.034	.207	.111	.033	.197	.107	.032	.187	.103	.031	.179	.099	.031	
4.0	.201	.104	.031	.196	.103	.030	.187	.099	.030	.179	.096	.029	.171	.093	.028	
5.0	.190	.097	.028	.186	.095	.028	.178	.093	.027	.171	.090	.027	.164	.087	.026	
6.0	.180	.090	.026	.176	.089	.026	.169	.087	.025	.162	.084	.025	.156	.082	.024	
7.0	.170	.084	.024	.167	.083	.024	.160	.081	.023	.154	.079	.023	.149	.077	.023	
8.0	.161	.079	.022	.158	.078	.022	.152	.076	.022	.147	.075	.021	.142	.073	.021	
9.0	.153	.074	.021	.150	.073	.021	.145	.072	.020	.140	.070	.020	.136	.069	.020	
10.0	.145	.070	.019	.143	.069	.019	.138	.068	.019	.134	.066	.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	.116	.116	.116	.066	.066	.066	.021	.021	.021	
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	.153	.108	.073	.131	.093	.064	.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	.139	.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	.017	.015	.009	.005	
8.0	.127	.075	.040	.109	.065	.035	.075	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.121	.070	.035	.105	.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:2024-01-19

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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm										
NAME: ASD-UFS-PRO-300					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	26.9	28.2	27.2	28.4	28.6	26.3	27.5	26.5	27.7	27.9
3H	27.1	28.3	27.4	28.5	28.7	26.5	27.6	26.7	27.8	28.1
4H	27.2	28.2	27.5	28.5	28.8	26.5	27.6	26.8	27.8	28.1
6H	27.2	28.2	27.5	28.4	28.7	26.5	27.5	26.8	27.7	28.0
8H	27.1	28.1	27.5	28.4	28.7	26.4	27.4	26.8	27.7	28.0
12H	27.1	28.0	27.4	28.3	28.6	26.4	27.3	26.7	27.6	27.9
4H 2H	26.9	28.0	27.2	28.2	28.5	26.3	27.4	26.6	27.6	27.9
3H	27.2	28.1	27.5	28.4	28.7	26.6	27.5	26.9	27.8	28.1
4H	27.3	28.1	27.7	28.4	28.8	26.6	27.5	27.0	27.8	28.1
6H	27.3	28.0	27.7	28.4	28.8	26.7	27.4	27.1	27.7	28.1
8H	27.3	28.0	27.7	28.3	28.7	26.6	27.3	27.0	27.7	28.1
12H	27.3	27.9	27.7	28.3	28.7	26.6	27.2	27.0	27.6	28.0
8H 4H	27.2	27.9	27.6	28.3	28.7	26.6	27.3	27.0	27.6	28.0
6H	27.3	27.8	27.7	28.2	28.7	26.6	27.2	27.1	27.6	28.1
8H	27.3	27.8	27.7	28.2	28.7	26.6	27.1	27.1	27.6	28.0
12H	27.2	27.7	27.7	28.1	28.6	26.6	27.0	27.1	27.5	28.0
12H 4H	27.2	27.8	27.6	28.2	28.6	26.6	27.2	27.0	27.6	28.0
6H	27.2	27.7	27.7	28.2	28.6	26.6	27.1	27.1	27.5	28.0
8H	27.2	27.7	27.7	28.1	28.6	26.6	27.0	27.1	27.5	28.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.8					+ 1.3 / - 2.0				
1.5H	+ 1.5 / - 1.5					+ 1.6 / - 1.4				
2.0H	+ 3.1 / - 2.5					+ 2.6 / - 2.3				

CIE Pub.117, 45444 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 13.3)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-01-19

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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

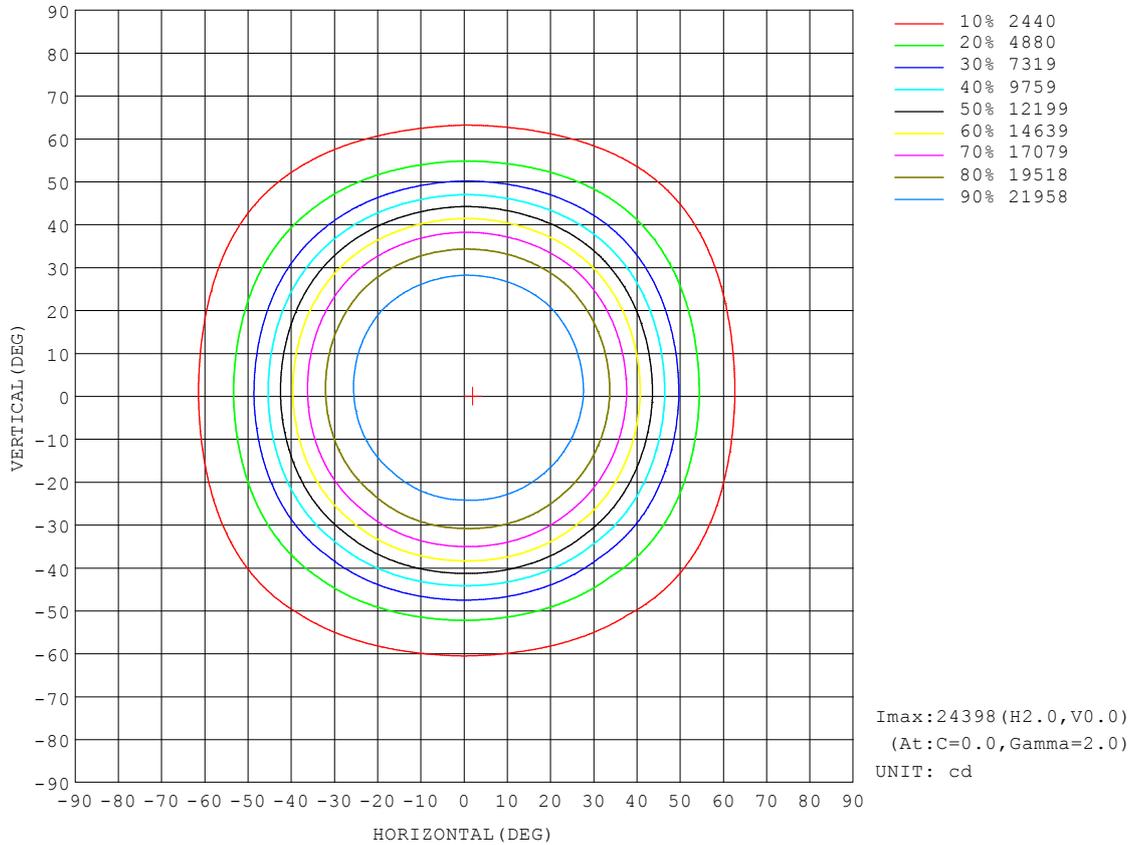
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	61	56	70	61	56	69	61	56	50
0.80	80	71	66	79	71	66	78	70	65	60
1.00	88	79	74	87	79	74	85	79	73	67
1.25	94	86	81	92	85	80	90	84	79	74
1.50	98	90	86	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	98	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	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:2024-01-19

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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

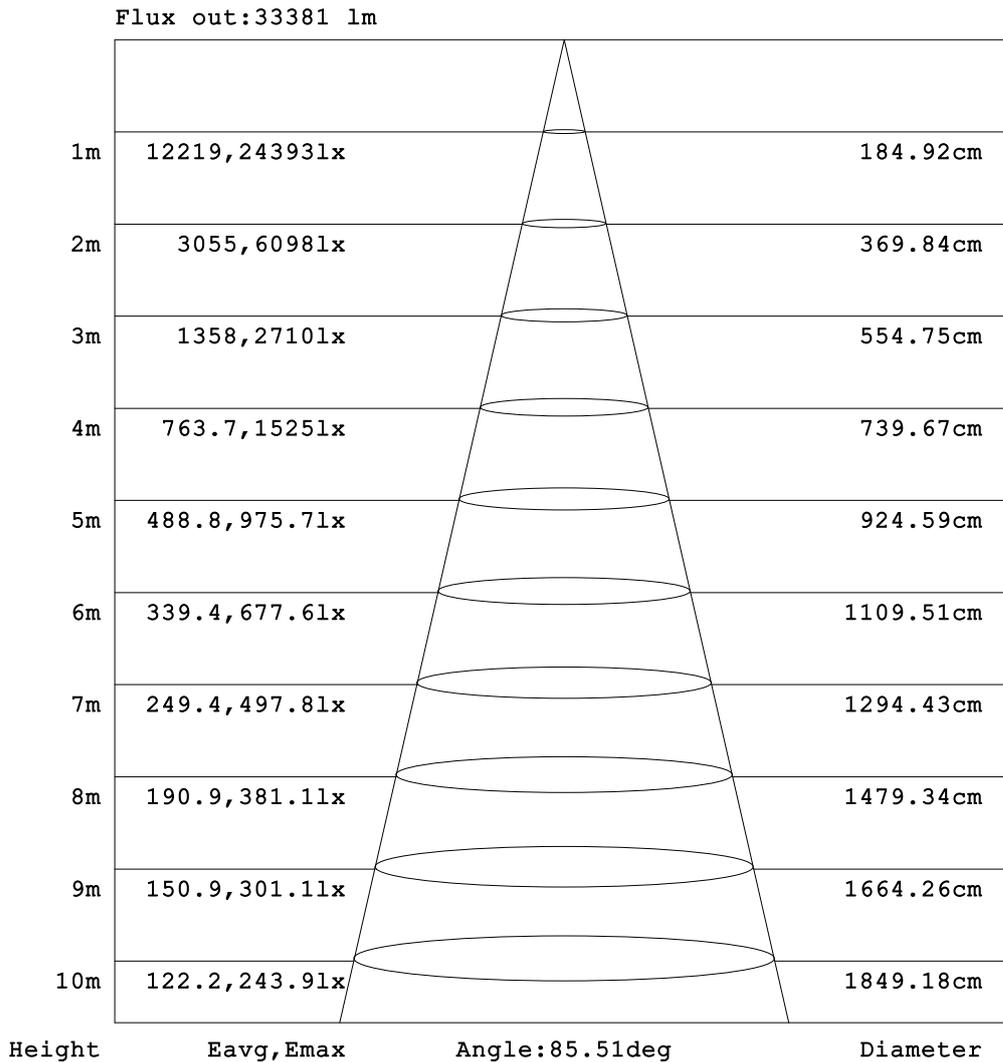


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-01-19

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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:0.37*0.37m	Shielding Angle:

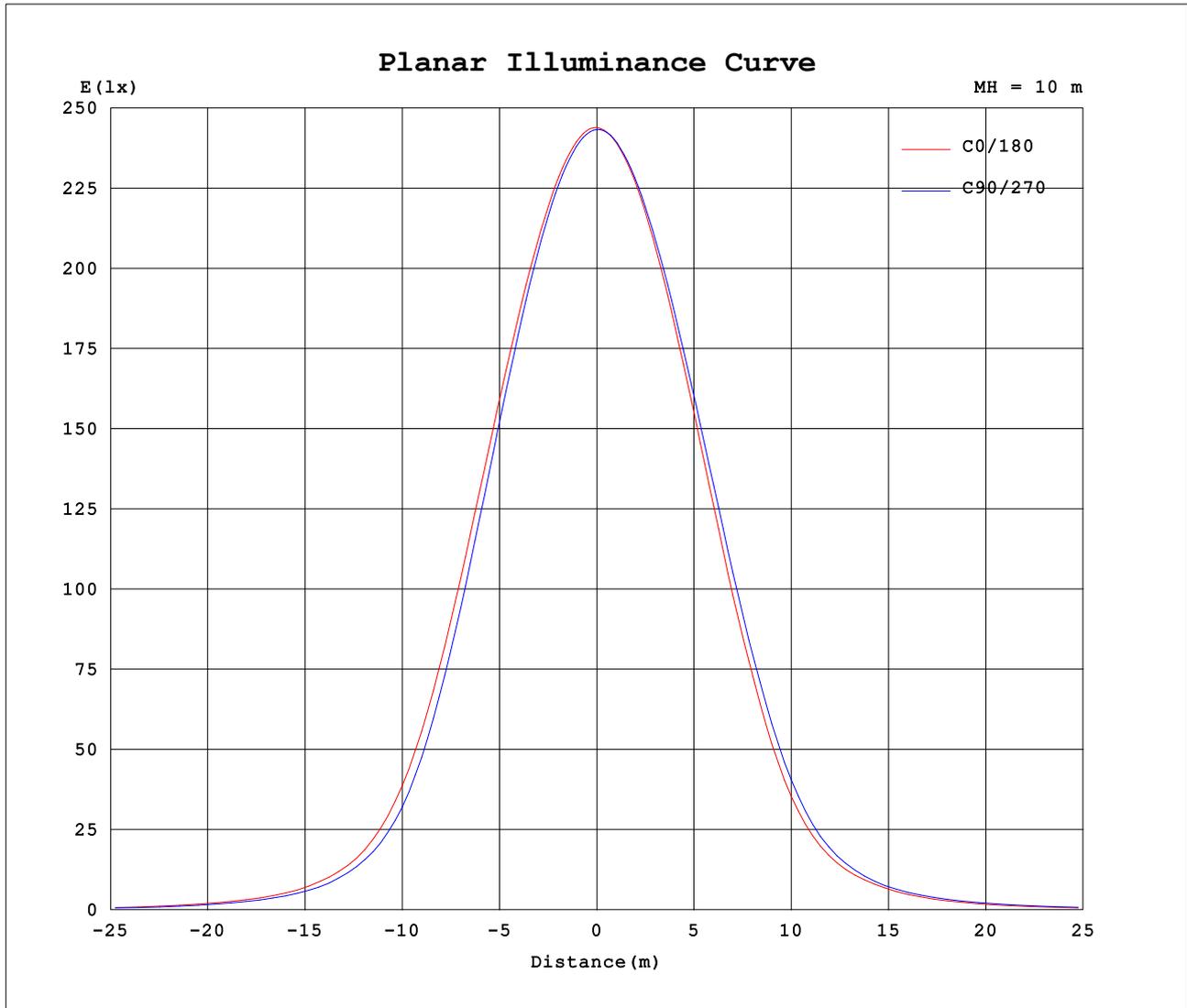


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-01-19

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: 2024-01-19

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:121.7V I:2.372A P:287.9W PF:0.9972 Freq:59.98Hz Lamp Flux:45444.4x1 lm		
NAME: ASD-UFS-PRO-300	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	2439	2436	2433	2430	2439	2436	2433	2430											
5	2436	2429	2423	2420	2431	2432	2432	2431											
10	2422	2409	2400	2396	2410	2417	2419	2419											
15	2394	2374	2359	2354	2373	2388	2394	2394											
20	2346	2312	2289	2285	2311	2338	2350	2353											
25	2261	2208	2175	2170	2209	2253	2272	2279											
30	2117	2038	1991	1985	2043	2111	2138	2149											
35	1879	1759	1712	1700	1783	1874	1913	1926											
40	1526	1370	1332	1322	1433	1513	1582	1574											
45	1097	921	909	893	1002	1061	1148	1134											
50	711	580	591	581	644	666	742	733											
55	465	392	381	377	429	443	478	480											
60	304	248	255	247	277	291	318	317											
65	198	154	163	157	174	183	209	200											
70	120	96.2	100	98.6	106	115	129	125											
75	67.6	57.7	56.9	58.1	60.1	68.8	75.5	75.8											
80	31.6	26.6	26.0	26.7	28.0	34.4	38.3	38.6											
85	8.44	6.04	6.30	5.95	6.87	9.77	12.5	11.7											
90	1.16	1.23	1.29	1.29	1.22	1.12	1.08	1.07											
95	1.59	1.68	1.76	1.77	1.69	1.54	1.47	1.46											
100	2.16	2.30	2.40	2.41	2.32	2.12	2.03	2.01											
105	2.92	3.10	3.23	3.25	3.11	2.87	2.74	2.72											
110	3.84	4.06	4.21	4.24	4.05	3.77	3.62	3.59											
115	4.88	5.15	5.31	5.35	5.13	4.81	4.62	4.60											
120	6.03	6.33	6.50	6.54	6.32	5.97	5.76	5.72											
125	7.25	7.56	7.74	7.78	7.59	7.21	7.00	6.94											
130	8.48	8.80	8.97	9.02	8.89	8.48	8.28	8.20											
135	9.68	9.98	10.2	10.2	10.2	9.72	9.58	9.45											
140	10.8	11.1	11.3	11.3	11.4	10.9	10.8	10.7											
145	11.9	12.2	12.3	12.4	12.5	12.1	12.0	11.9											
150	13.0	13.2	13.4	13.5	13.6	13.2	13.1	13.0											
155	14.2	14.4	14.6	14.6	14.8	14.3	14.3	14.1											
160	15.4	15.6	15.8	15.8	16.1	15.6	15.6	15.4											
165	16.7	16.8	17.0	17.0	17.3	16.8	16.9	16.7											
170	17.8	17.8	18.1	17.9	18.3	17.9	17.9	17.7											
175	18.7	18.5	18.8	18.6	18.9	18.5	18.7	18.4											
180	19.1	18.8	19.1	18.8	19.1	18.8	19.1	18.8											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-01-19

□ 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: