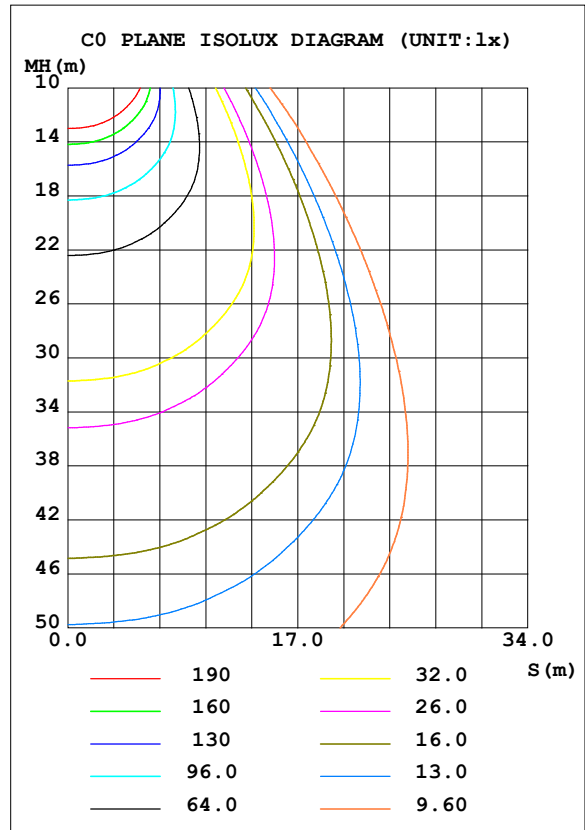
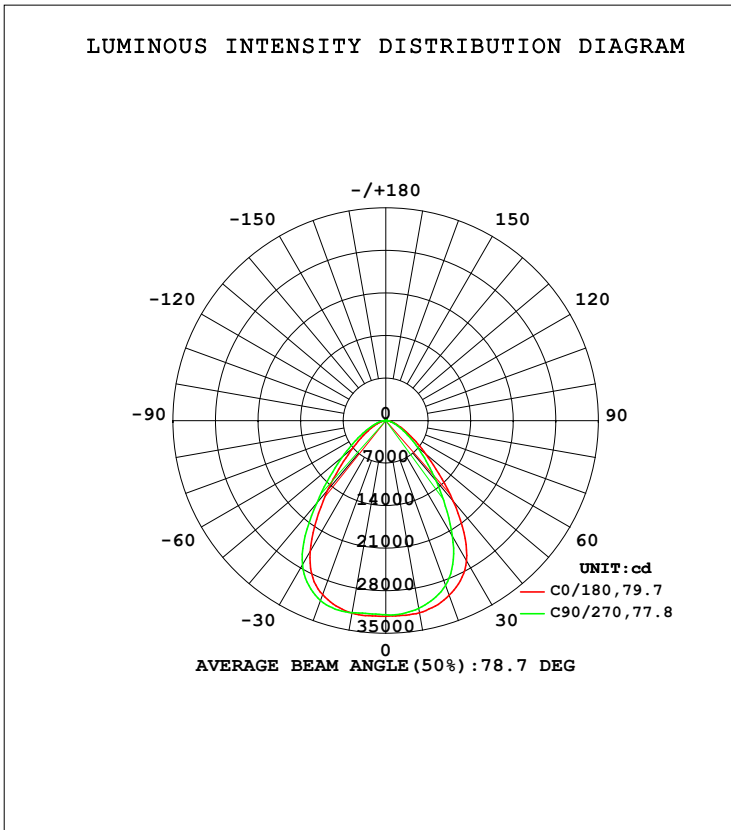


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.5 lm/W			
MODEL		I <sub>max</sub> (cd)	32367	S/MH (C0/180)	1.11
NOMINAL POWER (W)	400	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	58651	<input type="checkbox"/> UP, DN (C0-180)	0.5, 48.1
NOMINAL FLUX (lm)	58651	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 50.9
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: 25DEG  
 Operators: lianghaizhu  
 Test Date: 2023-03-13

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	3208	3160	3137	3162	3217	3234	3208	3189	0- 10	3052	3052	5.44,5.44
20	3056	2933	2881	3002	3045	3115	3148	3077	10- 20	8848	11900	21.2,21.2
30	2660	2308	2197	2510	2487	2618	2742	2666	20- 30	12981	24881	44.4,44.4
40	1726	1363	1287	1526	1482	1590	1767	1596	30- 40	12747	37628	67.1,67.1
50	868.5	728.0	690.9	774.2	718.9	797.5	936.5	760.3	40- 50	8627	46255	82.5,82.5
60	421.6	369.0	339.3	378.4	339.1	403.5	461.5	364.7	50- 60	5029	51284	91.5,91.5
70	193.8	177.9	159.5	174.7	149.4	188.7	212.2	164.4	60- 70	2661	53945	96.3,96.3
80	76.17	66.73	54.34	63.48	46.89	67.59	79.81	55.76	70- 80	1222	55167	98.4,98.4
90	8.826	7.841	6.538	4.978	4.011	4.386	5.490	5.229	80- 90	304.7	55472	99,99
100	5.468	5.992	5.356	4.382	3.741	3.910	4.105	4.238	90-100	55.20	55527	99.1,99.1
110	4.387	4.686	5.074	4.599	4.581	3.990	3.839	4.187	100-110	45.78	55573	99.2,99.2
120	6.804	7.371	7.882	7.331	7.210	6.371	6.107	6.679	110-120	55.69	55629	99.3,99.3
130	9.881	10.51	11.10	10.46	10.25	9.303	8.997	9.684	120-130	75.71	55704	99.4,99.4
140	13.06	13.69	14.24	13.59	13.36	12.46	12.21	12.78	130-140	89.54	55794	99.6,99.6
150	15.92	16.61	17.02	16.44	16.20	15.54	15.44	15.89	140-150	91.87	55886	99.7,99.7
160	18.63	19.10	19.64	19.02	19.07	18.34	18.40	18.71	150-160	80.55	55966	99.9,99.9
170	21.32	21.43	21.91	21.48	21.71	21.04	21.21	21.33	160-170	56.86	56023	100,100
180	22.77	22.49	22.77	22.65	22.80	22.45	22.81	22.63	170-180	21.00	56044	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 42483 lm

%lum = 75.8%

%lamp = 75.8%

Conical surface Flux(120deg): 51284 lm

%lum = 91.5%

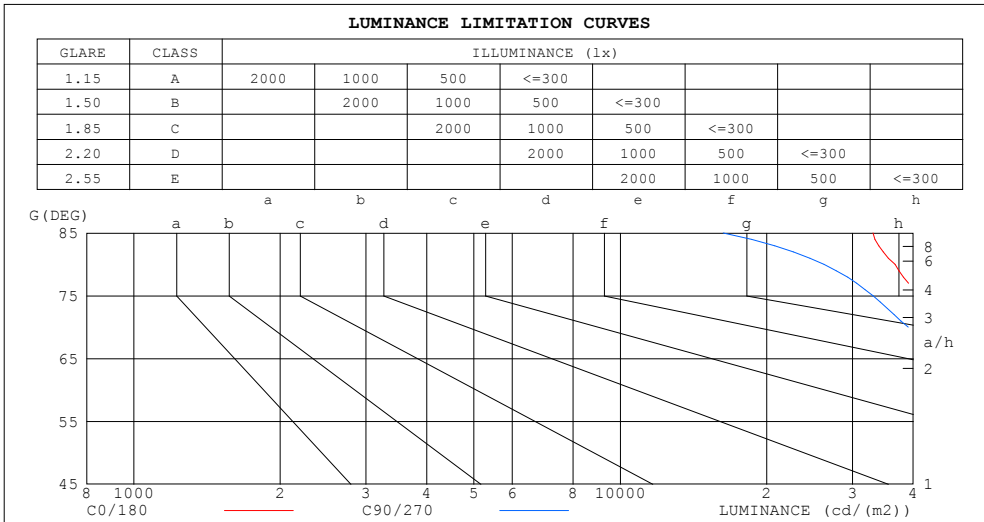
%lamp = 91.5%

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:lianghaizhu  
Test Date:2023-03-13

□ 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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	33088	16278
80	36741	26213
75	40980	33063
70	47472	39072
65	56761	46554
60	70630	56843
55	89165	71715
50	113171	90033
45	146929	111746

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	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	.235	.134	.042	.228	.130	.041	.215	.123	.039	.202	.117	.037	.191	.111	.036	
2.0	.226	.124	.038	.220	.121	.037	.209	.116	.036	.198	.111	.035	.188	.106	.034	
3.0	.214	.114	.034	.209	.112	.034	.199	.108	.033	.189	.104	.032	.181	.100	.031	
4.0	.202	.105	.031	.197	.103	.031	.188	.100	.030	.180	.097	.029	.172	.094	.029	
5.0	.190	.097	.028	.186	.096	.028	.178	.093	.027	.171	.090	.027	.164	.088	.026	
6.0	.180	.090	.026	.176	.089	.026	.169	.086	.025	.162	.084	.025	.156	.082	.024	
7.0	.170	.084	.024	.166	.083	.024	.160	.081	.023	.154	.079	.023	.148	.077	.023	
8.0	.160	.078	.022	.157	.078	.022	.152	.076	.022	.146	.074	.021	.141	.073	.021	
9.0	.152	.074	.021	.149	.073	.020	.144	.071	.020	.139	.070	.020	.135	.069	.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	.183	.165	.148	.157	.141	.127	.107	.097	.088	.062	.056	.051	.020	.018	.017	
2.0	.171	.140	.114	.147	.121	.098	.101	.083	.069	.058	.049	.040	.019	.016	.013	
3.0	.162	.122	.090	.139	.105	.078	.095	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.153	.108	.073	.131	.093	.064	.090	.065	.045	.052	.038	.027	.017	.012	.009	
5.0	.146	.097	.061	.125	.084	.053	.086	.059	.038	.050	.034	.022	.016	.011	.007	
6.0	.139	.088	.052	.119	.076	.045	.082	.054	.032	.048	.031	.019	.015	.010	.006	
7.0	.132	.081	.045	.114	.070	.039	.079	.049	.028	.046	.029	.017	.015	.010	.005	
8.0	.127	.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	.033	.100	.057	.028	.070	.040	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm										
NAME: ASD-UHB3HV-400D50-BK					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ASD LIGHTING CORP					SUR.:0.39*0.39m			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	27.2	28.4	27.5	28.6	28.9	26.2	27.5	26.5	27.7	27.9
3H	27.7	28.8	28.0	29.0	29.3	26.7	27.8	27.0	28.1	28.3
4H	27.9	28.9	28.2	29.2	29.4	26.9	28.0	27.2	28.2	28.5
6H	28.0	29.0	28.3	29.3	29.6	27.0	28.0	27.3	28.2	28.5
8H	28.0	29.0	28.4	29.3	29.6	27.0	27.9	27.3	28.2	28.5
12H	28.0	29.0	28.4	29.3	29.6	26.9	27.9	27.3	28.2	28.5
4H 2H	27.3	28.4	27.6	28.6	28.9	26.5	27.5	26.8	27.8	28.0
3H	27.9	28.9	28.3	29.2	29.5	27.1	28.0	27.4	28.3	28.6
4H	28.2	29.0	28.6	29.4	29.7	27.4	28.2	27.7	28.5	28.9
6H	28.4	29.2	28.8	29.5	29.9	27.5	28.3	27.9	28.6	29.0
8H	28.5	29.2	28.9	29.6	30.0	27.6	28.2	28.0	28.6	29.0
12H	28.6	29.2	29.0	29.6	30.0	27.6	28.2	28.0	28.6	29.0
8H 4H	28.2	28.9	28.7	29.3	29.7	27.4	28.1	27.9	28.5	28.9
6H	28.6	29.1	29.0	29.5	30.0	27.7	28.3	28.1	28.7	29.1
8H	28.7	29.2	29.1	29.6	30.1	27.8	28.3	28.2	28.7	29.2
12H	28.8	29.2	29.3	29.7	30.2	27.8	28.2	28.3	28.7	29.2
12H 4H	28.2	28.8	28.6	29.2	29.7	27.4	28.0	27.9	28.4	28.9
6H	28.5	29.0	29.0	29.5	30.0	27.7	28.2	28.2	28.6	29.1
8H	28.7	29.1	29.2	29.6	30.1	27.8	28.2	28.3	28.7	29.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.7 / - 0.9				
1.5H	+ 1.1 / - 0.7					+ 0.7 / - 0.6				
2.0H	+ 1.9 / - 1.3					+ 1.4 / - 1.1				

CIE Pub.117, 58651 m Total Lamp Luminous Flux Corrected (8log(F/F0) = 14.0)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

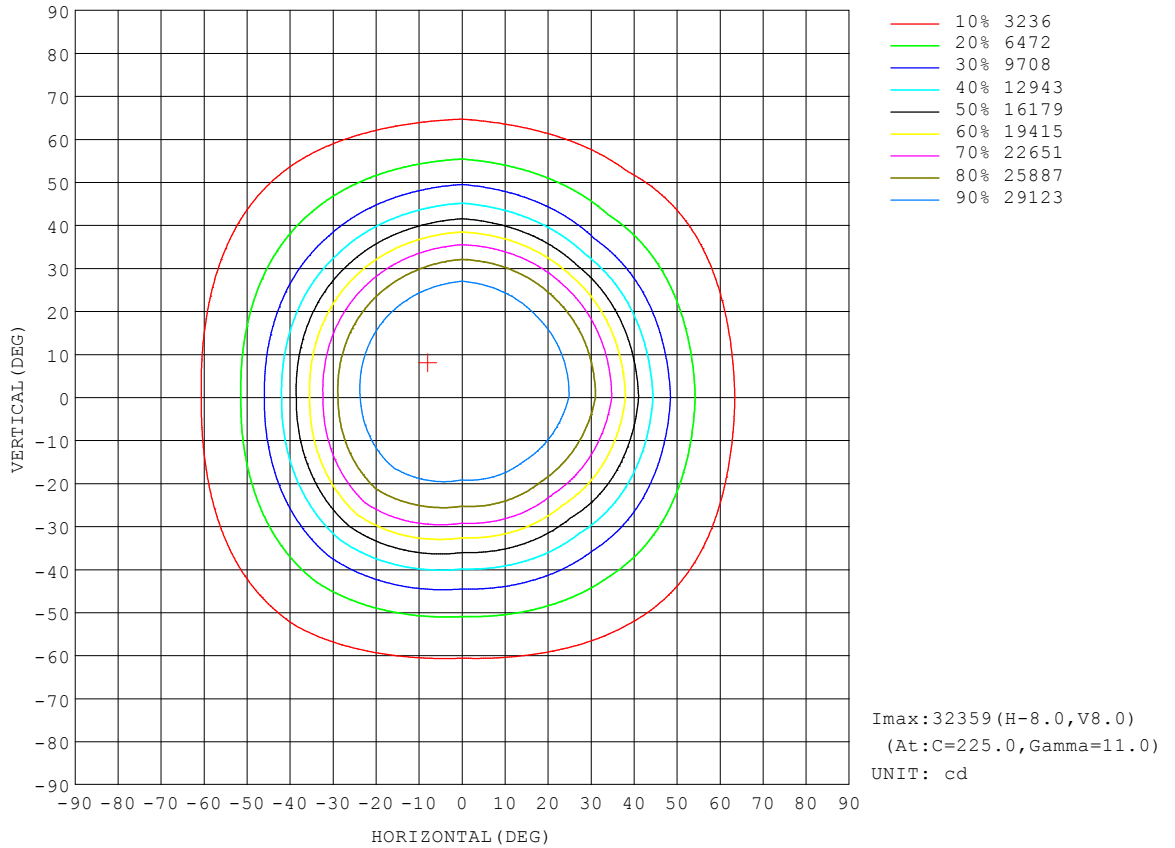
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	62	56	70	61	56	69	61	56	51
0.80	80	71	66	79	71	66	78	70	65	60
1.00	87	79	74	86	78	73	84	79	73	67
1.25	93	85	80	92	85	80	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	100	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:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

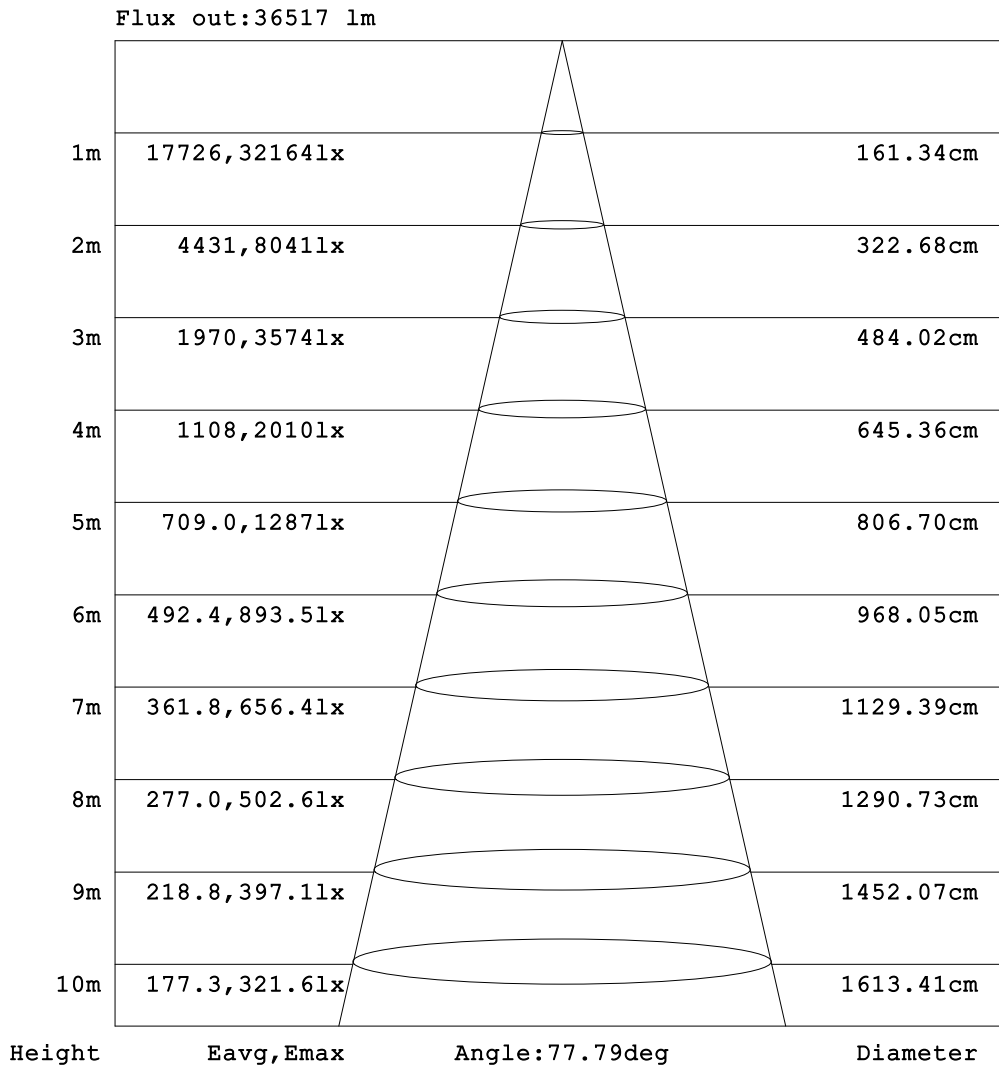


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:



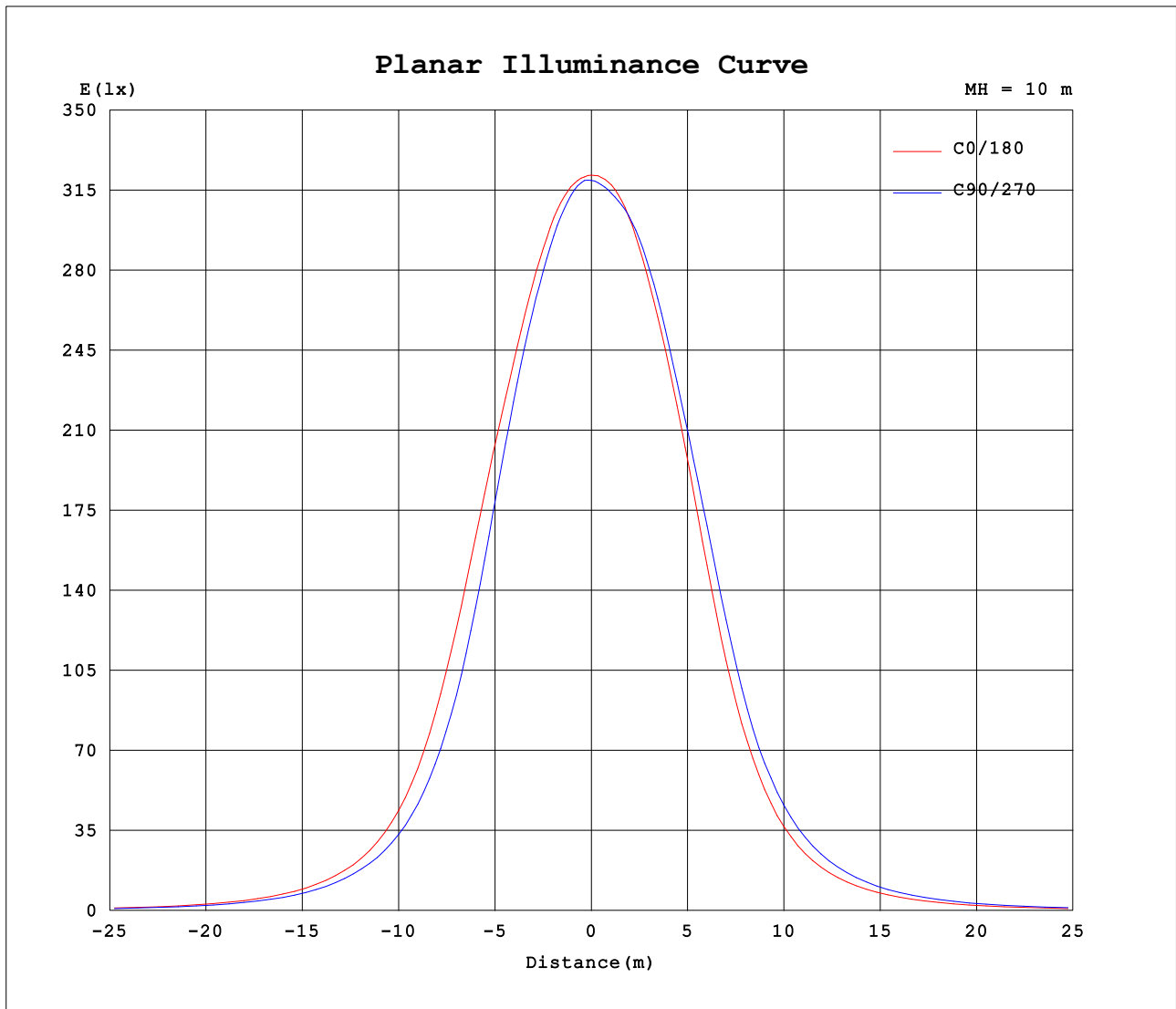
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

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:279.4V I:1.415A P:392.3W PF:0.9854 Freq:59.98Hz Lamp Flux:58651.1x1 lm		
NAME: ASD-UHB3HV-400D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	3216	3204	3193	3184	3216	3204	3193	3184											
5	3217	3205	3189	3187	3223	3211	3188	3183											
10	3208	3160	3137	3162	3217	3234	3208	3189											
15	3157	3069	3037	3103	3160	3216	3214	3162											
20	3056	2933	2881	3002	3045	3115	3148	3077											
25	2907	2700	2612	2809	2847	2932	2994	2928											
30	2660	2308	2197	2510	2487	2618	2742	2666											
35	2247	1815	1716	2043	1989	2132	2314	2217											
40	1726	1363	1287	1526	1482	1590	1767	1596											
45	1240	1000	943	1093	1041	1125	1304	1093											
50	868	728	691	774	719	798	936	760											
55	611	523	491	545	497	574	665	530											
60	422	369	339	378	339	403	461	365											
65	286	258	235	258	229	279	315	247											
70	194	178	160	175	149	189	212	164											
75	127	117	102	111	92.2	121	136	102											
80	76.2	66.7	54.3	63.5	46.9	67.6	79.8	55.8											
85	34.4	26.4	16.9	25.8	13.9	26.3	34.7	19.9											
90	8.83	7.84	6.54	4.98	4.01	4.39	5.49	5.23											
95	6.09	6.64	5.83	4.58	3.80	4.03	4.38	4.63											
100	5.47	5.99	5.36	4.38	3.74	3.91	4.10	4.24											
105	4.82	4.97	4.63	4.11	3.85	3.70	3.90	3.78											
110	4.39	4.69	5.07	4.60	4.58	3.99	3.84	4.19											
115	5.43	5.94	6.40	5.88	5.82	5.09	4.85	5.35											
120	6.80	7.37	7.88	7.33	7.21	6.37	6.11	6.68											
125	8.31	8.89	9.46	8.87	8.68	7.79	7.51	8.13											
130	9.88	10.5	11.1	10.5	10.2	9.30	9.00	9.68											
135	11.5	12.1	12.7	12.1	11.8	10.9	10.6	11.2											
140	13.1	13.7	14.2	13.6	13.4	12.5	12.2	12.8											
145	14.5	15.2	15.7	15.1	14.8	14.1	13.8	14.4											
150	15.9	16.6	17.0	16.4	16.2	15.5	15.4	15.9											
155	17.3	17.9	18.3	17.7	17.6	16.9	16.9	17.3											
160	18.6	19.1	19.6	19.0	19.1	18.3	18.4	18.7											
165	20.0	20.3	20.9	20.3	20.5	19.7	19.9	20.1											
170	21.3	21.4	21.9	21.5	21.7	21.0	21.2	21.3											
175	22.3	22.2	22.6	22.3	22.5	22.0	22.3	22.2											
180	22.8	22.5	22.8	22.6	22.8	22.5	22.8	22.6											

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-13

□ 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: