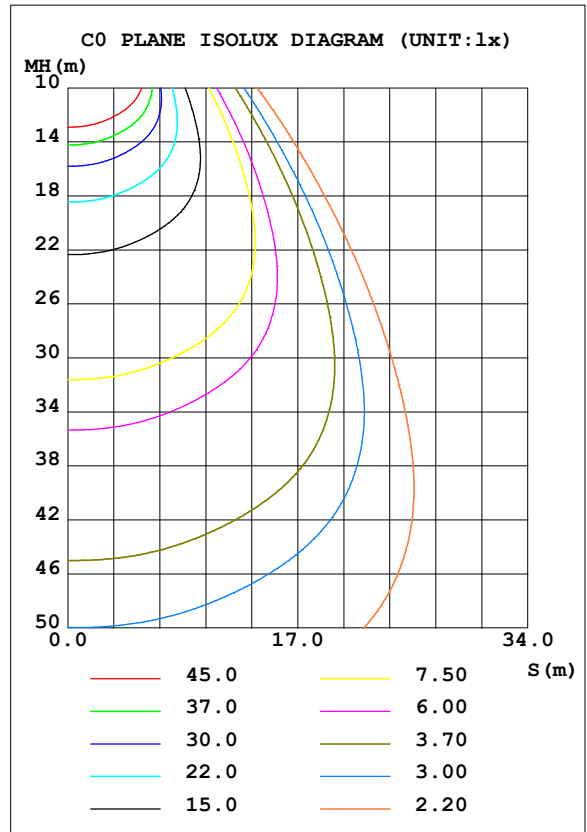
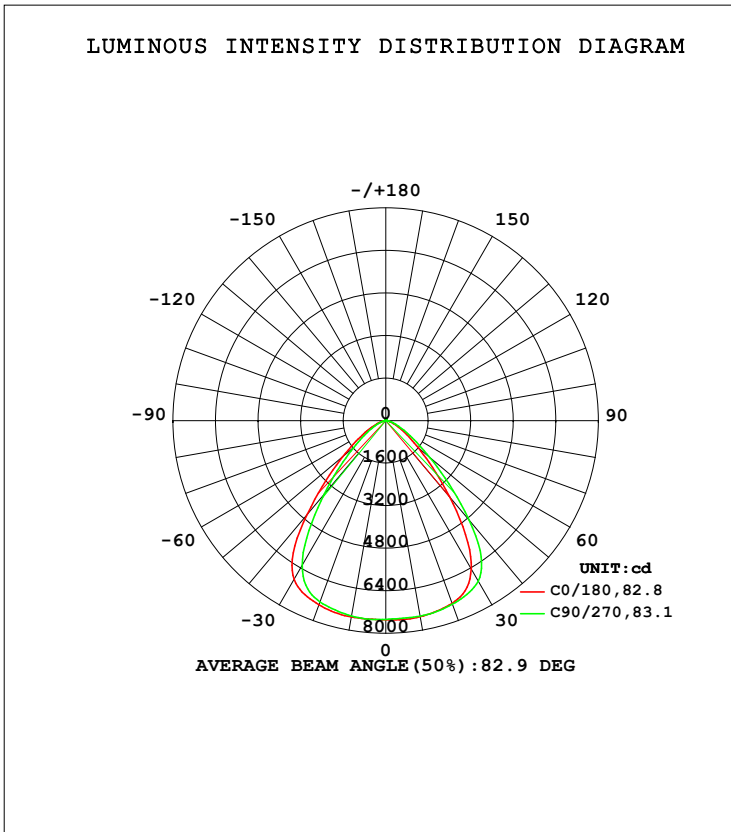


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.09 lm/W			
MODEL		I <sub>max</sub> (cd)	7509	S/MH (C0/180)	1.23
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.14
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	13766	<input type="checkbox"/> UP, DN (C0-180)	0.5, 51.4
NOMINAL FLUX (lm)	13765.5	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 47.6
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: 25.1DEG  
 Operators: lianghaizhu  
 Test Date: 2023-04-11

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	7488	7479	7464	7450	7497	7487	7457	7438	0- 10	713.8	713.8	5.19,5.19
20	7311	7321	7343	7378	7367	7309	7249	7217	10- 20	2097	2811	20.4,20.4
30	6432	6726	6961	7053	6901	6660	6290	6077	20- 30	3261	6072	44.1,44.1
40	3736	4159	4876	5222	4599	4081	3603	3263	30- 40	3460	9532	69.2,69.2
50	1626	1833	2195	2405	2123	1820	1575	1437	40- 50	2235	11767	85.5,85.5
60	692.2	792.7	910.4	1003	890.2	765.6	657.7	606.9	50- 60	1121	12888	93.6,93.6
70	275.6	312.1	363.2	399.2	349.9	299.2	252.5	232.5	60- 70	510.9	13399	97.3,97.3
80	72.39	88.83	113.2	129.4	104.9	85.02	64.64	51.88	70- 80	197.3	13596	98.8,98.8
90	7.546	6.292	4.412	5.474	3.720	5.552	6.327	6.706	80- 90	36.88	13633	99,99
100	6.364	5.747	5.157	4.984	5.058	5.542	6.259	6.727	90-100	5.529	13638	99.1,99.1
110	11.48	10.54	9.535	8.931	9.527	10.30	11.54	12.20	100-110	8.365	13647	99.1,99.1
120	18.49	17.25	15.95	15.10	16.13	17.15	18.72	19.51	110-120	13.61	13660	99.2,99.2
130	26.39	25.01	23.63	22.58	24.19	25.29	27.07	27.84	120-130	18.96	13679	99.4,99.4
140	34.12	32.75	31.45	30.34	32.62	33.52	35.37	35.91	130-140	22.60	13702	99.5,99.5
150	41.17	40.02	38.67	37.59	40.47	41.22	42.79	43.28	140-150	23.15	13725	99.7,99.7
160	48.69	47.27	46.23	44.83	48.32	48.86	50.46	50.77	150-160	20.42	13745	99.9,99.9
170	56.06	54.62	54.05	52.78	55.74	55.66	57.00	56.82	160-170	14.61	13760	100,100
180	59.47	58.76	59.06	58.36	59.56	58.70	59.14	58.32	170-180	5.439	13766	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10824 lm

%lum = 78.6%

%lamp = 78.6%

Conical surface Flux(120deg): 12888 lm

%lum = 93.6%

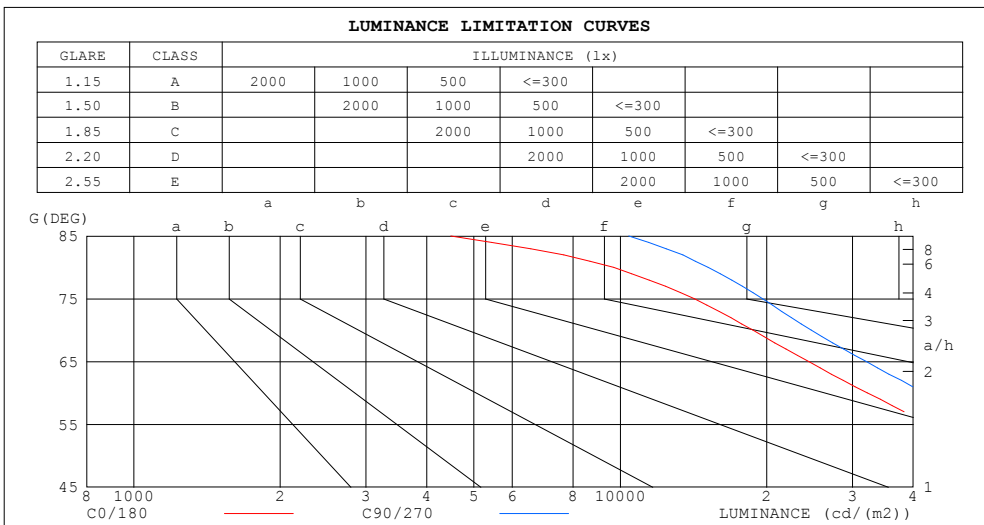
%lamp = 93.6%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

□ 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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4486	10406
80	9695	15154
75	14205	19623
70	18739	24699
65	24393	32018
60	32194	42343
55	43112	57331
50	58830	79430
45	81947	110950

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	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	.226	.129	.041	.219	.125	.040	.206	.118	.038	.193	.112	.036	.182	.106	.034	
2.0	.220	.120	.037	.213	.118	.036	.202	.112	.035	.191	.107	.034	.181	.103	.032	
3.0	.209	.111	.033	.204	.109	.033	.194	.105	.032	.184	.101	.031	.176	.097	.030	
4.0	.198	.103	.030	.193	.101	.030	.185	.098	.029	.176	.095	.029	.169	.092	.028	
5.0	.187	.096	.028	.183	.094	.027	.175	.091	.027	.168	.089	.026	.161	.086	.026	
6.0	.177	.089	.025	.174	.088	.025	.167	.085	.025	.160	.083	.024	.154	.081	.024	
7.0	.168	.083	.024	.165	.082	.023	.158	.080	.023	.153	.078	.023	.147	.076	.022	
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.145	.074	.021	.140	.072	.021	
9.0	.151	.073	.020	.149	.072	.020	.144	.071	.020	.139	.070	.020	.134	.068	.020	
10.0	.144	.069	.019	.142	.068	.019	.137	.067	.019	.133	.066	.019	.128	.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	.106	.097	.088	.061	.056	.051	.020	.018	.017	
2.0	.170	.140	.114	.146	.120	.099	.100	.083	.069	.058	.048	.040	.018	.016	.013	
3.0	.160	.121	.090	.137	.105	.078	.094	.073	.055	.054	.042	.032	.018	.014	.011	
4.0	.152	.107	.073	.130	.093	.064	.090	.065	.045	.052	.038	.027	.017	.012	.009	
5.0	.144	.096	.061	.124	.083	.053	.085	.058	.038	.049	.034	.022	.016	.011	.007	
6.0	.138	.088	.052	.118	.076	.045	.082	.053	.032	.047	.031	.019	.015	.010	.006	
7.0	.131	.081	.045	.113	.070	.039	.078	.049	.028	.045	.029	.017	.015	.009	.005	
8.0	.126	.075	.040	.108	.065	.035	.075	.045	.025	.044	.027	.015	.014	.009	.005	
9.0	.120	.070	.035	.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:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	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	25.2	26.4	25.4	26.6	26.8	26.1	27.4	26.4	27.6	27.8
3H	25.3	26.4	25.6	26.7	26.9	26.3	27.5	26.6	27.7	27.9
4H	25.3	26.4	25.6	26.6	26.9	26.4	27.4	26.7	27.7	28.0
6H	25.3	26.3	25.6	26.6	26.8	26.4	27.4	26.7	27.6	27.9
8H	25.3	26.2	25.6	26.5	26.8	26.4	27.3	26.7	27.6	27.9
12H	25.2	26.1	25.6	26.4	26.7	26.3	27.2	26.7	27.5	27.8
4H 2H	25.2	26.3	25.5	26.5	26.8	26.1	27.2	26.4	27.4	27.7
3H	25.5	26.4	25.8	26.7	27.0	26.4	27.3	26.8	27.6	27.9
4H	25.5	26.4	25.9	26.7	27.0	26.5	27.3	26.9	27.6	28.0
6H	25.5	26.3	25.9	26.6	27.0	26.5	27.3	27.0	27.6	28.0
8H	25.5	26.2	25.9	26.6	27.0	26.5	27.2	27.0	27.6	28.0
12H	25.5	26.1	25.9	26.5	26.9	26.5	27.1	27.0	27.5	27.9
8H 4H	25.5	26.2	25.9	26.5	26.9	26.4	27.1	26.9	27.5	27.9
6H	25.5	26.1	26.0	26.5	26.9	26.5	27.1	27.0	27.5	27.9
8H	25.5	26.0	26.0	26.5	26.9	26.5	27.0	27.0	27.5	27.9
12H	25.5	25.9	26.0	26.4	26.9	26.5	26.9	27.0	27.4	27.9
12H 4H	25.5	26.1	25.9	26.5	26.9	26.4	27.0	26.8	27.4	27.8
6H	25.5	26.0	26.0	26.4	26.9	26.5	27.0	27.0	27.4	27.9
8H	25.5	25.9	26.0	26.4	26.9	26.5	26.9	27.0	27.4	27.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 2.1					+ 1.2 / - 1.8				
1.5H	+ 1.6 / - 1.4					+ 1.8 / - 1.6				
2.0H	+ 2.5 / - 2.0					+ 3.0 / - 2.3				

CIE Pub.117, 13766 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.1)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

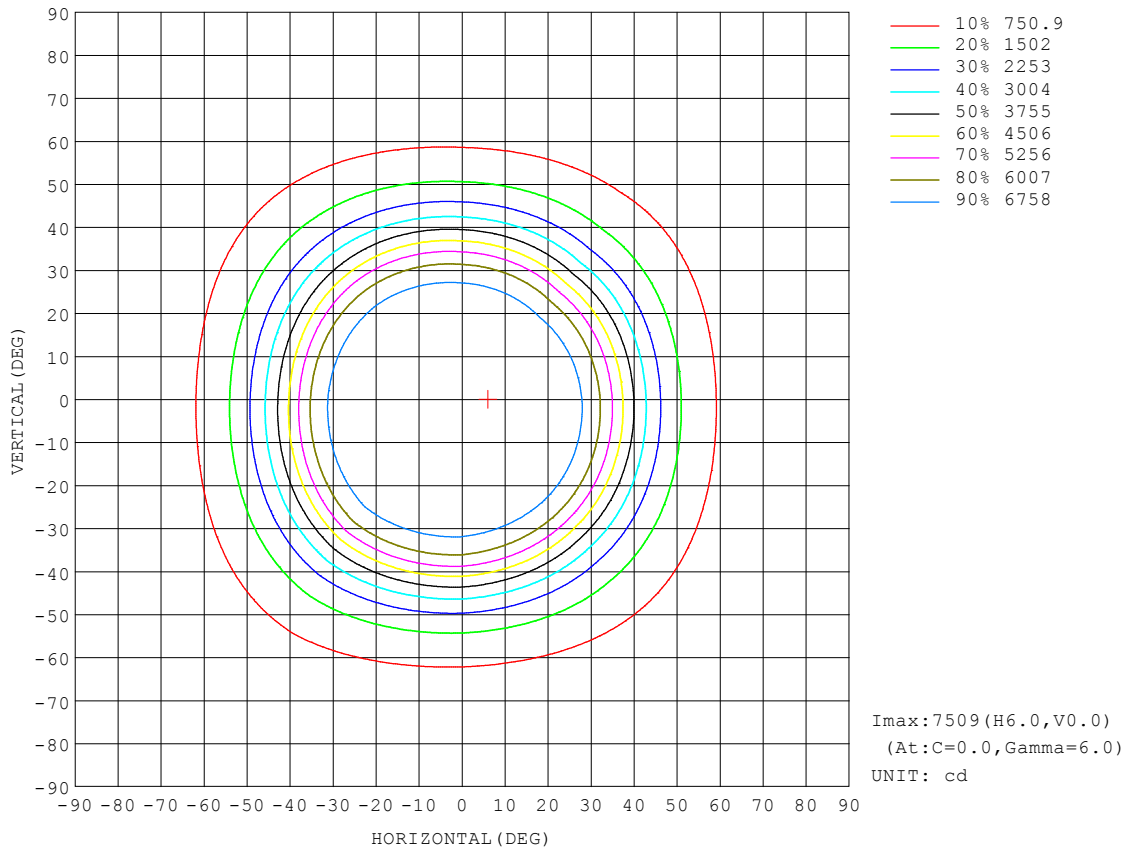
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	58	71	63	58	70	62	57	52
0.80	81	73	67	81	72	67	79	72	67	62
1.00	89	81	75	88	80	75	86	80	74	69
1.25	94	87	82	93	86	81	91	85	81	75
1.50	98	91	87	97	91	86	94	89	85	79
2.00	103	97	93	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	88
4.00	111	107	103	108	105	102	104	101	99	91
5.00	112	109	106	110	107	104	105	103	101	93
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:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

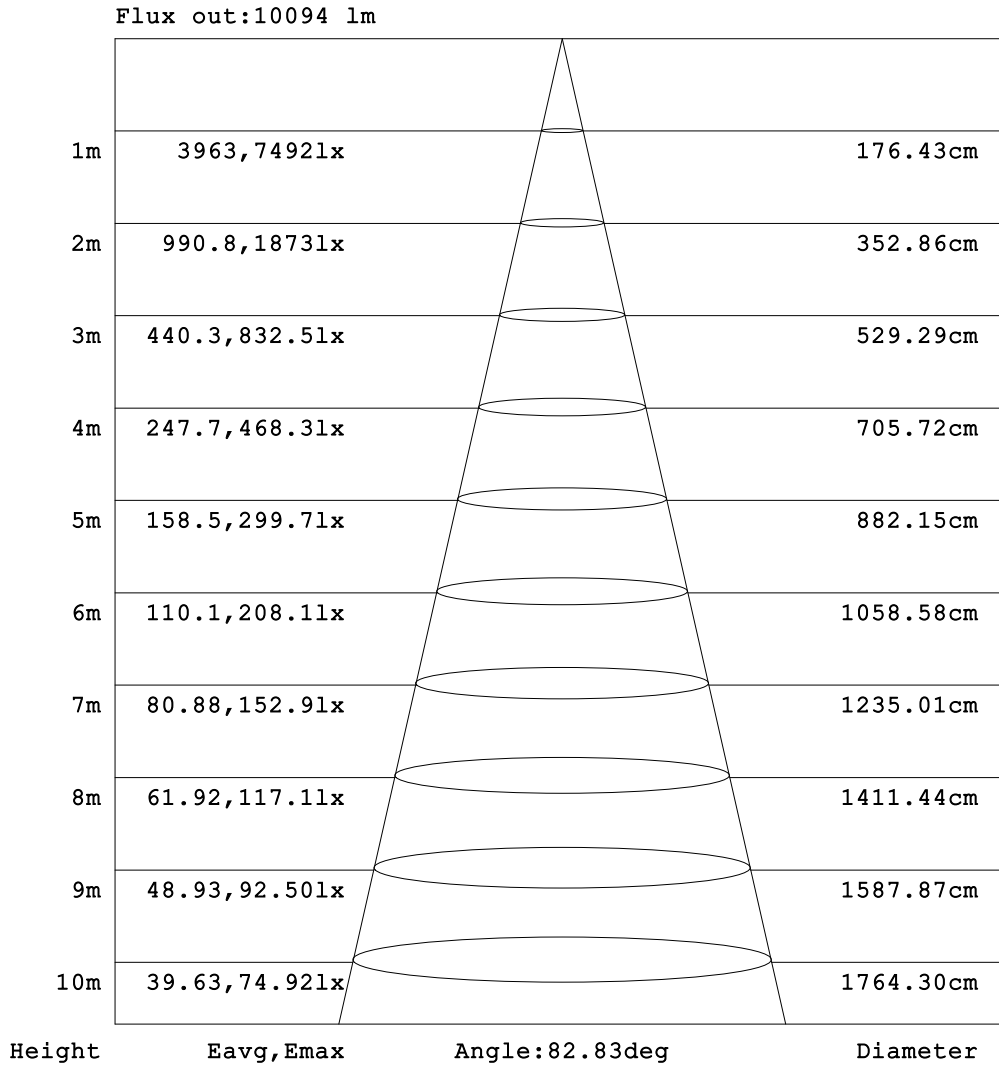


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: lianghaizhu  
 Test Date: 2023-04-11

□ 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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:



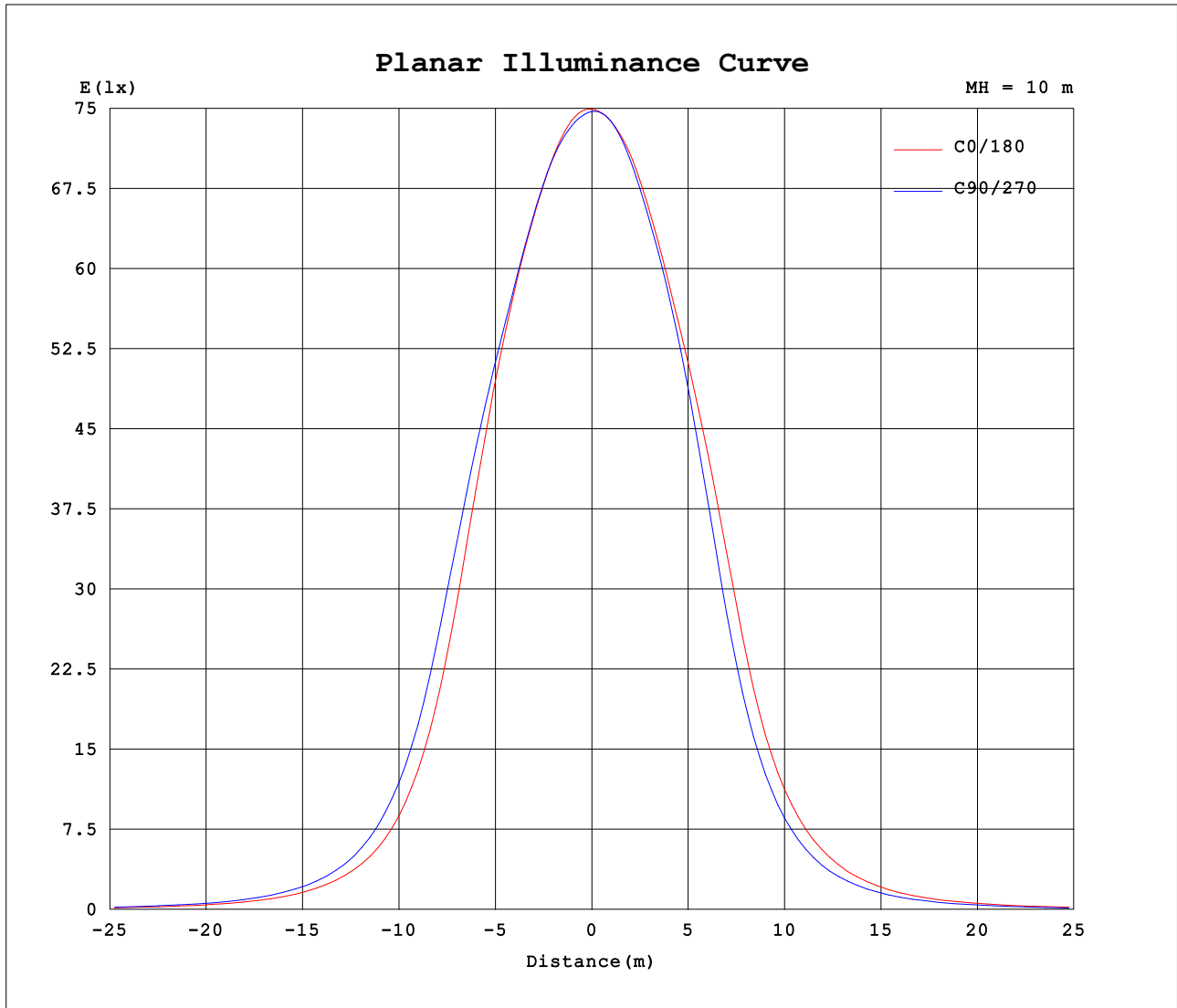
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

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:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

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:121.5V I:0.8064A P:97.57W PF:0.9957 Freq:59.98Hz Lamp Flux:13765.5x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	7492	7482	7472	7466	7492	7482	7472	7466											
5	7508	7485	7457	7444	7488	7496	7490	7480											
10	7488	7479	7464	7450	7497	7487	7457	7438											
15	7419	7420	7433	7449	7461	7419	7372	7351											
20	7311	7321	7343	7378	7367	7309	7249	7217											
25	7060	7162	7212	7255	7217	7131	6974	6877											
30	6432	6726	6961	7053	6901	6660	6290	6077											
35	5233	5719	6259	6493	6078	5613	5044	4686											
40	3736	4159	4876	5222	4599	4081	3603	3263											
45	2492	2808	3373	3619	3187	2799	2427	2170											
50	1626	1833	2195	2405	2123	1820	1575	1437											
55	1063	1212	1414	1542	1384	1181	1027	949											
60	692	793	910	1003	890	766	658	607											
65	443	505	582	638	563	483	414	382											
70	276	312	363	399	350	299	252	232											
75	158	181	218	240	208	175	143	127											
80	72.4	88.8	113	129	105	85.0	64.6	51.9											
85	16.8	25.8	39.0	52.0	32.8	23.6	14.1	9.75											
90	7.55	6.29	4.41	5.47	3.72	5.55	6.33	6.71											
95	5.26	5.15	3.95	4.70	3.88	4.70	4.82	5.05											
100	6.36	5.75	5.16	4.98	5.06	5.54	6.26	6.73											
105	8.66	7.85	7.09	6.59	7.00	7.65	8.63	9.17											
110	11.5	10.5	9.54	8.93	9.53	10.3	11.5	12.2											
115	14.8	13.7	12.5	11.8	12.6	13.5	14.9	15.7											
120	18.5	17.3	15.9	15.1	16.1	17.2	18.7	19.5											
125	22.4	21.1	19.7	18.7	20.0	21.1	22.8	23.6											
130	26.4	25.0	23.6	22.6	24.2	25.3	27.1	27.8											
135	30.4	28.9	27.6	26.5	28.4	29.5	31.3	32.0											
140	34.1	32.8	31.4	30.3	32.6	33.5	35.4	35.9											
145	37.7	36.5	35.1	34.1	36.6	37.5	39.2	39.7											
150	41.2	40.0	38.7	37.6	40.5	41.2	42.8	43.3											
155	44.8	43.5	42.3	41.1	44.3	44.9	46.5	46.9											
160	48.7	47.3	46.2	44.8	48.3	48.9	50.5	50.8											
165	52.6	51.1	50.3	48.8	52.3	52.5	54.1	54.2											
170	56.1	54.6	54.0	52.8	55.7	55.7	57.0	56.8											
175	58.5	57.3	57.2	56.2	58.3	57.9	58.8	58.3											
180	59.5	58.8	59.1	58.4	59.6	58.7	59.1	58.3											

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:lianghaizhu  
 Test Date:2023-04-11

□ 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: