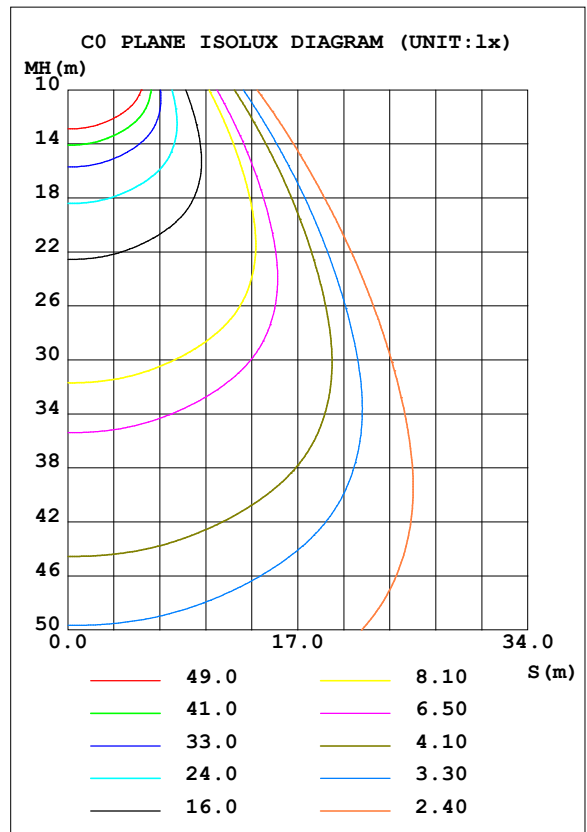
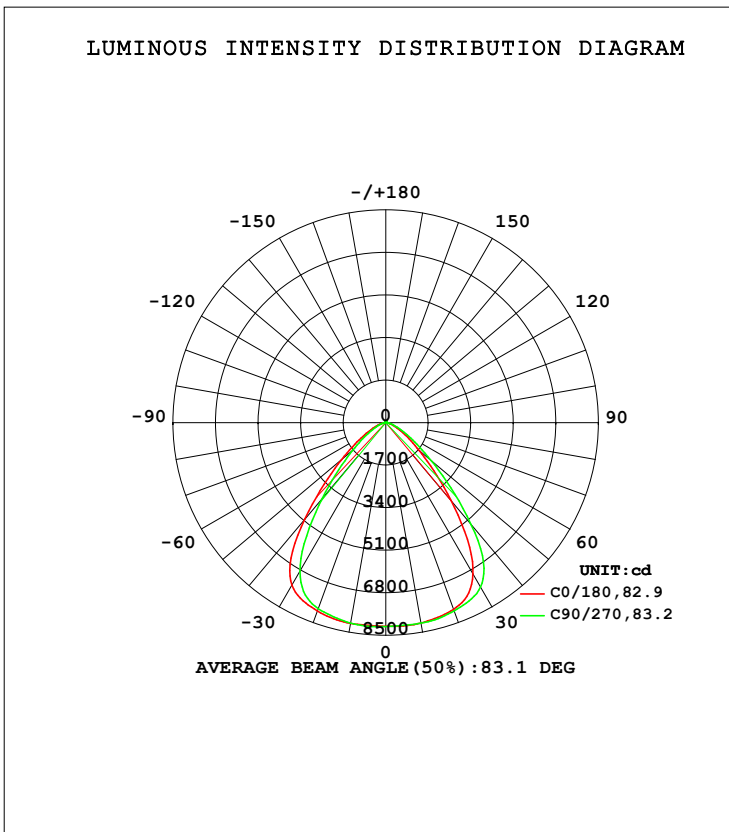


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.5V I:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.96 lm/W			
MODEL		I _{max} (cd)	8166	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)	15018	<input type="checkbox"/> UP, DN (C0-180)	0.5, 51.3
NOMINAL FLUX (lm)	15017.9	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 47.7
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	8128	8137	8136	8133	8143	8149	8131	8116	0- 10	777.3	777.3	5.18,5.18
20	7933	7963	8004	8058	8006	7966	7906	7871	10- 20	2284	3061	20.4,20.4
30	6975	7306	7582	7701	7498	7252	6863	6634	20- 30	3551	6613	44,44
40	4067	4548	5308	5703	5033	4467	3953	3588	30- 40	3773	10385	69.2,69.2
50	1770	1994	2389	2630	2329	2000	1746	1572	40- 50	2446	12831	85.4,85.4
60	756.4	853.3	990.8	1100	979.9	846.4	728.2	664.1	50- 60	1226	14057	93.6,93.6
70	296.3	337.5	393.5	444.3	383.3	332.9	283.2	255.2	60- 70	559.8	14617	97.3,97.3
80	78.12	96.89	121.4	145.0	113.7	94.01	71.59	57.08	70- 80	216.4	14833	98.8,98.8
90	8.385	6.977	4.887	6.048	4.100	6.144	7.009	7.465	80- 90	40.41	14873	99,99
100	6.963	6.285	5.670	5.475	5.499	6.040	6.815	7.371	90-100	6.076	14879	99.1,99.1
110	12.54	11.51	10.43	9.776	10.35	11.23	12.55	13.34	100-110	9.138	14889	99.1,99.1
120	20.16	18.82	17.45	16.50	17.49	18.67	20.37	21.31	110-120	14.85	14903	99.2,99.2
130	28.73	27.24	25.81	24.66	26.24	27.51	29.47	30.41	120-130	20.66	14924	99.4,99.4
140	37.11	35.66	34.33	33.10	35.38	36.47	38.49	39.21	130-140	24.61	14949	99.5,99.5
150	44.76	43.53	42.20	41.01	43.87	44.84	46.57	47.25	140-150	25.21	14974	99.7,99.7
160	52.93	51.40	50.43	48.91	52.41	53.14	54.92	55.42	150-160	22.23	14996	99.9,99.9
170	60.90	59.38	58.94	57.55	60.44	60.57	62.07	62.03	160-170	15.90	15012	100,100
180	64.60	63.86	64.38	63.63	64.57	63.89	64.39	63.64	170-180	5.920	15018	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11799 lm

%lum = 78.6%

%lamp = 78.6%

Conical surface Flux(120deg): 14057 lm

%lum = 93.6%

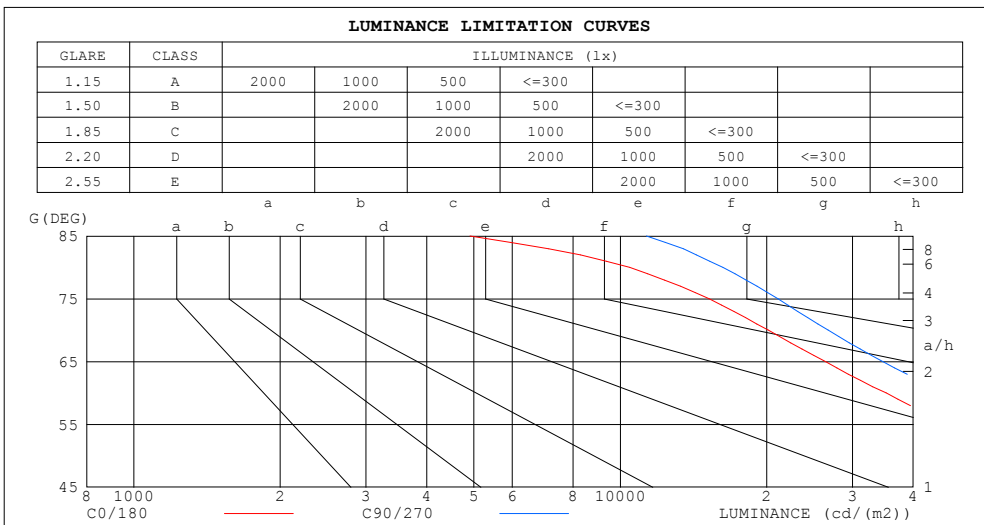
%lamp = 93.6%

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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	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	4907	11322
80	10462	16253
75	15222	21075
70	20148	26755
65	26379	34630
60	35183	46085
55	47109	62330
50	64032	86442
45	89369	120973

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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	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	.194 .112 .036	.182 .106 .034	
2.0	.220 .120 .037	.214 .118 .036	.202 .112 .035	.191 .107 .034	.181 .103 .032	
3.0	.209 .111 .033	.204 .109 .033	.194 .105 .032	.185 .101 .031	.176 .097 .030	
4.0	.198 .103 .030	.194 .101 .030	.185 .098 .029	.176 .095 .029	.169 .092 .028	
5.0	.188 .096 .028	.183 .094 .027	.176 .091 .027	.168 .089 .026	.161 .086 .026	
6.0	.178 .089 .025	.174 .088 .025	.167 .085 .025	.160 .083 .024	.154 .081 .024	
7.0	.168 .083 .024	.165 .082 .023	.159 .080 .023	.153 .078 .023	.147 .076 .022	
8.0	.159 .078 .022	.156 .077 .022	.151 .075 .022	.146 .074 .021	.141 .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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm										
NAME: ASD-UHB3-100ADAC-BK-100W-4000K					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	25.4	26.7	25.7	26.9	27.1	26.4	27.7	26.7	27.9	28.1
3H	25.6	26.7	25.9	26.9	27.2	26.6	27.7	26.9	28.0	28.2
4H	25.6	26.7	25.9	26.9	27.2	26.7	27.7	27.0	28.0	28.2
6H	25.6	26.6	25.9	26.8	27.1	26.7	27.6	27.0	27.9	28.2
8H	25.5	26.5	25.9	26.8	27.1	26.6	27.6	27.0	27.9	28.2
12H	25.5	26.4	25.8	26.7	27.0	26.6	27.5	27.0	27.8	28.1
4H 2H	25.5	26.5	25.8	26.8	27.1	26.4	27.4	26.7	27.7	28.0
3H	25.7	26.6	26.1	26.9	27.3	26.7	27.6	27.0	27.9	28.2
4H	25.8	26.6	26.2	26.9	27.3	26.8	27.6	27.1	27.9	28.3
6H	25.8	26.5	26.2	26.9	27.3	26.8	27.5	27.2	27.9	28.3
8H	25.8	26.5	26.2	26.8	27.2	26.8	27.5	27.2	27.9	28.3
12H	25.7	26.4	26.2	26.8	27.2	26.8	27.4	27.2	27.8	28.2
8H 4H	25.8	26.4	26.2	26.8	27.2	26.7	27.4	27.1	27.8	28.1
6H	25.8	26.4	26.3	26.8	27.2	26.8	27.3	27.2	27.8	28.2
8H	25.8	26.3	26.3	26.7	27.2	26.8	27.3	27.3	27.7	28.2
12H	25.8	26.2	26.3	26.6	27.1	26.8	27.2	27.3	27.7	28.2
12H 4H	25.7	26.3	26.2	26.7	27.2	26.7	27.3	27.1	27.7	28.1
6H	25.8	26.3	26.3	26.7	27.2	26.8	27.2	27.2	27.7	28.1
8H	25.8	26.2	26.3	26.7	27.1	26.8	27.2	27.3	27.7	28.1
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					+ 3.1 / - 2.3				

CIE Pub.117, 15018 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.4)

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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

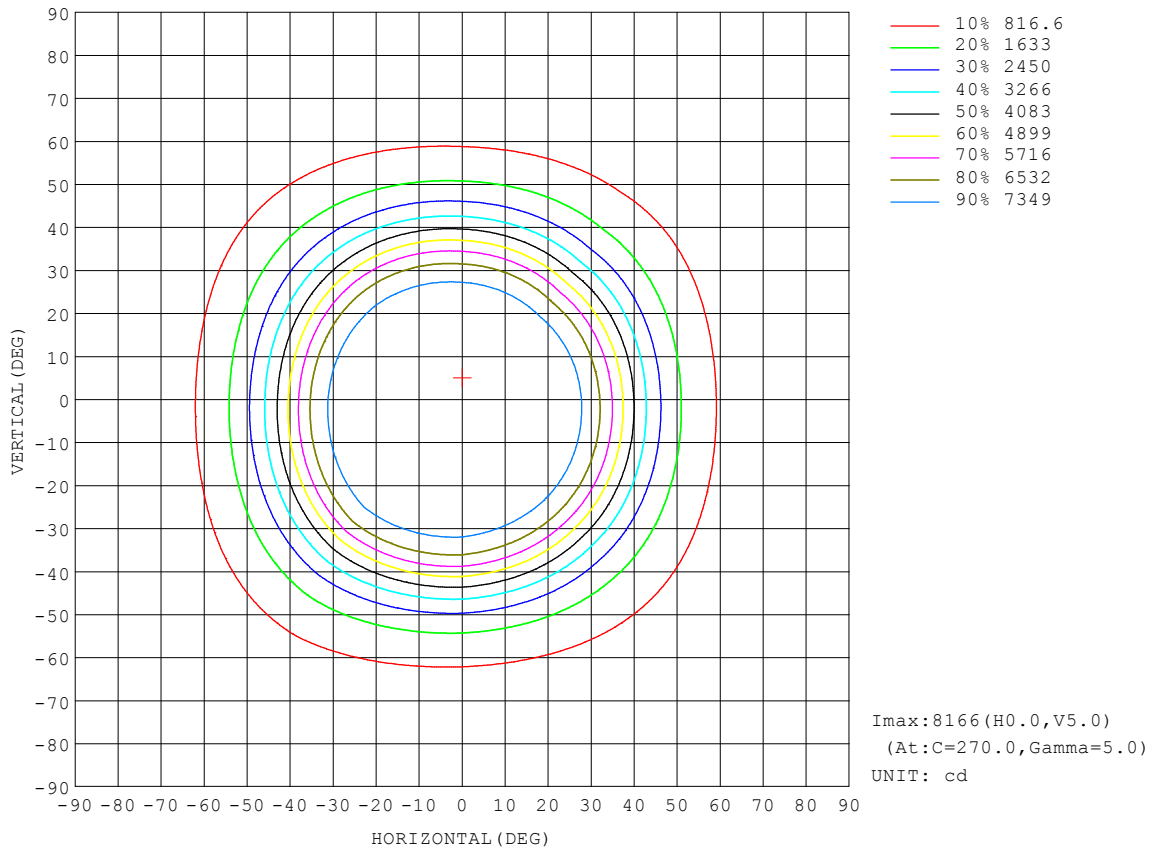
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	58	71	63	58	70	62	57	52
0.80	81	73	67	81	72	67	79	72	67	61
1.00	89	80	75	87	80	75	86	80	74	69
1.25	94	87	82	93	86	81	91	85	81	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	93	101	96	92	98	94	90	84
2.50	105	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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

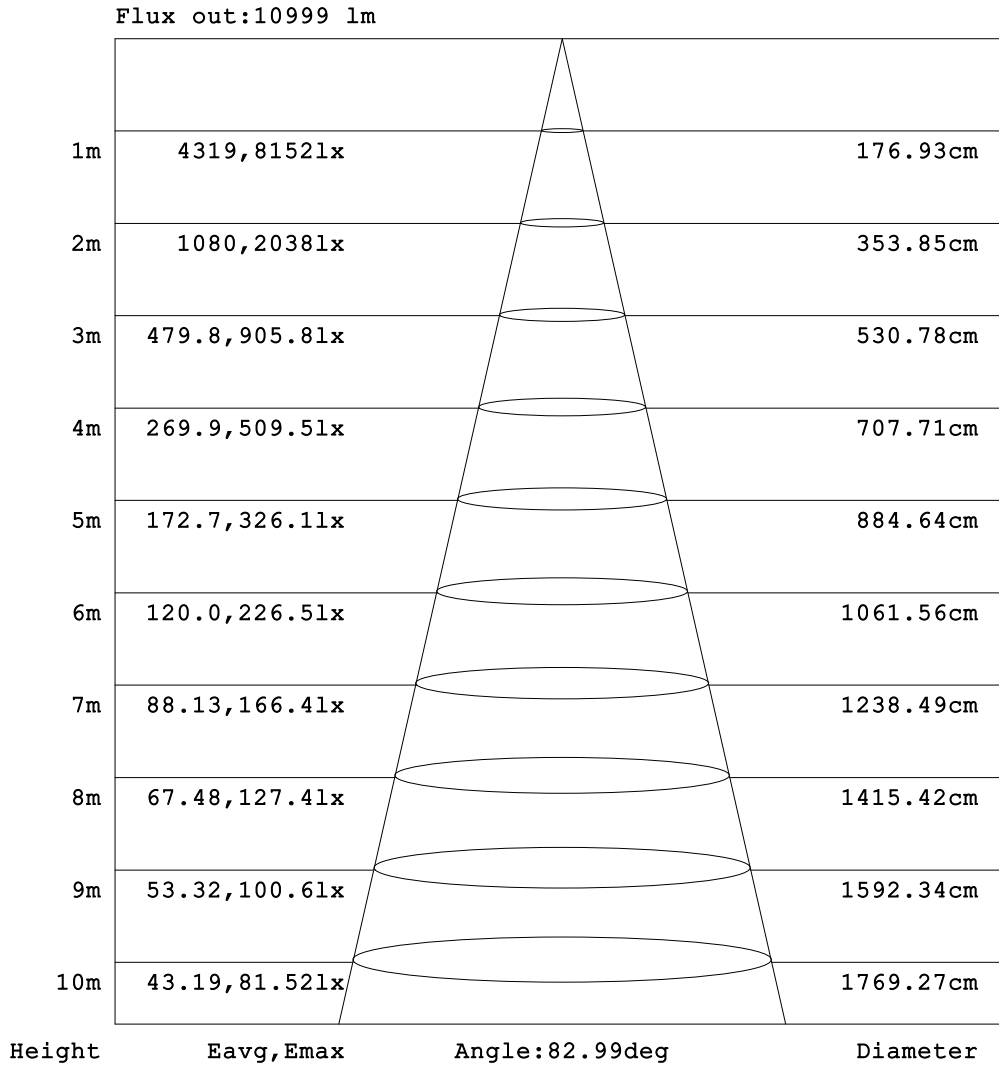


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-11

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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp.	SUR.:0.235*0.235m	Shielding Angle:

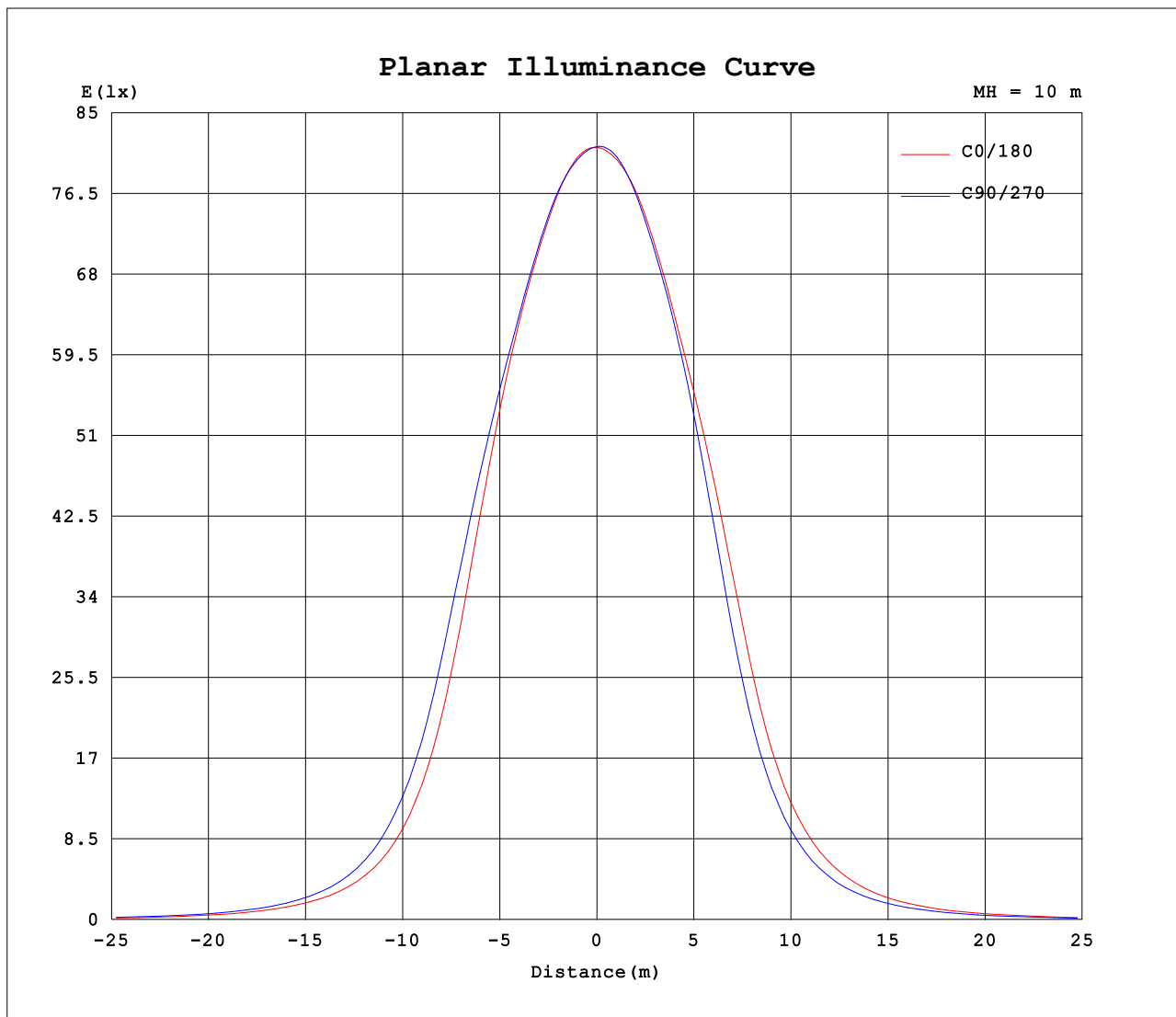


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.7810A P:94.48W PF:0.9954 Freq:59.98Hz Lamp Flux:15017.9x1 lm		
NAME: ASD-UHB3-100ADAC-BK-100W-4000K	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	8137	8142	8145	8150	8137	8142	8145	8150										
5	8152	8145	8129	8125	8132	8158	8166	8163										
10	8128	8137	8136	8133	8143	8149	8131	8116										
15	8053	8071	8103	8135	8108	8080	8039	8020										
20	7933	7963	8004	8058	8006	7966	7906	7871										
25	7662	7785	7866	7925	7844	7766	7603	7498										
30	6975	7306	7582	7701	7498	7252	6863	6634										
35	5686	6217	6809	7086	6611	6124	5524	5137										
40	4067	4548	5308	5703	5033	4467	3953	3588										
45	2717	3070	3678	3973	3496	3063	2668	2383										
50	1770	1994	2389	2630	2329	2000	1746	1572										
55	1162	1307	1537	1703	1519	1302	1131	1036										
60	756	853	991	1100	980	846	728	664										
65	479	544	629	705	619	537	461	420										
70	296	338	393	444	383	333	283	255										
75	169	197	235	268	225	194	161	139										
80	78.1	96.9	121	145	114	94.0	71.6	57.1										
85	18.4	28.2	42.4	57.2	35.8	26.0	15.6	10.9										
90	8.39	6.98	4.89	6.05	4.10	6.14	7.01	7.47										
95	5.79	5.68	4.35	5.17	4.24	5.15	5.26	5.55										
100	6.96	6.28	5.67	5.47	5.50	6.04	6.81	7.37										
105	9.44	8.61	7.78	7.22	7.61	8.34	9.39	10.0										
110	12.5	11.5	10.4	9.78	10.3	11.2	12.6	13.3										
115	16.2	14.9	13.7	12.9	13.7	14.7	16.2	17.1										
120	20.2	18.8	17.4	16.5	17.5	18.7	20.4	21.3										
125	24.4	23.0	21.5	20.5	21.7	22.9	24.8	25.8										
130	28.7	27.2	25.8	24.7	26.2	27.5	29.5	30.4										
135	33.0	31.5	30.1	28.9	30.8	32.0	34.1	34.9										
140	37.1	35.7	34.3	33.1	35.4	36.5	38.5	39.2										
145	41.0	39.7	38.3	37.2	39.7	40.8	42.6	43.3										
150	44.8	43.5	42.2	41.0	43.9	44.8	46.6	47.2										
155	48.7	47.4	46.2	44.8	48.0	48.9	50.6	51.3										
160	52.9	51.4	50.4	48.9	52.4	53.1	54.9	55.4										
165	57.2	55.5	54.8	53.3	56.7	57.2	58.9	59.2										
170	60.9	59.4	58.9	57.5	60.4	60.6	62.1	62.0										
175	63.6	62.3	62.3	61.2	63.2	63.0	64.0	63.6										
180	64.6	63.9	64.4	63.6	64.6	63.9	64.4	63.6										

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: