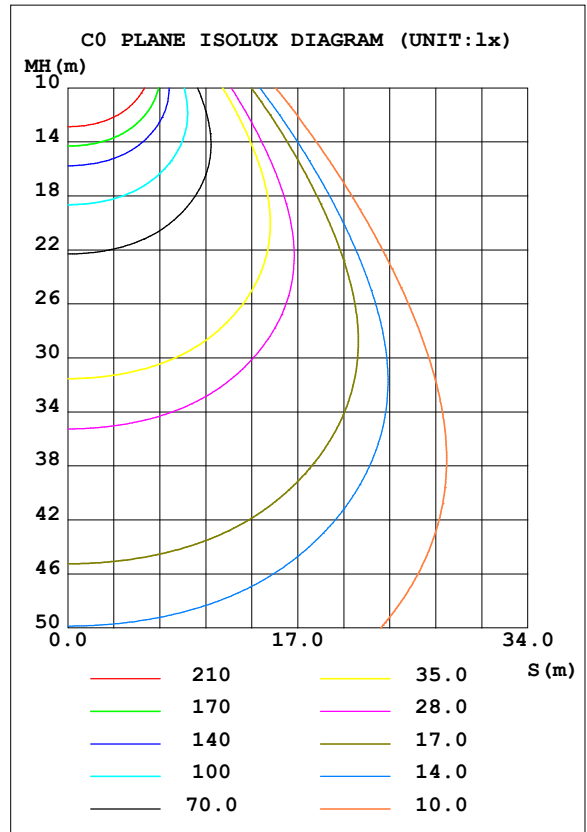
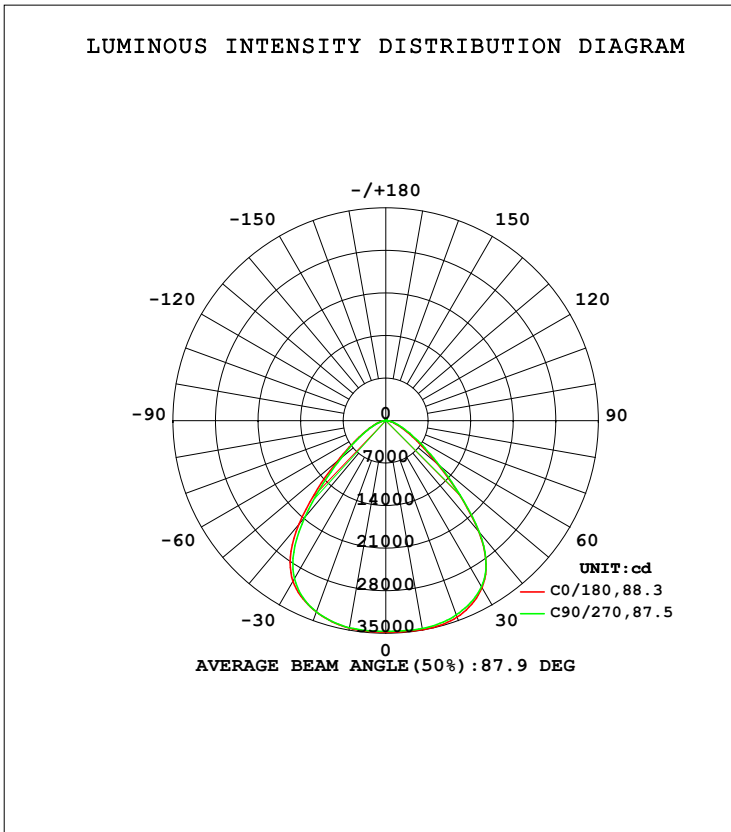


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.59 lm/W			
MODEL		I _{max} (cd)	34913	S/MH (C0/180)	1.25
NOMINAL POWER (W)	500	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	69777	<input type="checkbox"/> UP, DN (C0-180)	0.5, 51.3
NOMINAL FLUX (lm)	69777	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	1.30



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-04-28

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	3491	3483	3471	3455	3465	3459	3458	3463	0- 10	3313	3313	4.75,4.75
20	3439	3421	3399	3370	3348	3334	3345	3373	10- 20	9726	13039	18.7,18.7
30	3171	3148	3153	3126	3053	3007	3005	3056	20- 30	15035	28074	40.2,40.2
40	2377	2330	2393	2421	2224	2108	2065	2132	30- 40	17121	45196	64.8,64.8
50	1115	1154	1173	1205	1049	1025	968.5	987.5	40- 50	12513	57708	82.7,82.7
60	470.2	520.9	528.6	537.5	440.8	469.6	421.7	441.0	50- 60	6612	64320	92.2,92.2
70	195.4	218.6	226.6	226.2	182.8	194.4	175.8	180.4	60- 70	3171	67492	96.7,96.7
80	60.99	69.03	77.03	78.14	60.98	61.64	52.69	51.43	70- 80	1313	68804	98.6,98.6
90	4.109	4.420	4.648	4.641	3.833	3.954	3.962	3.845	80- 90	293.0	69097	99,99
100	4.491	4.648	4.622	4.449	4.369	4.469	4.503	4.385	90-100	45.90	69143	99.1,99.1
110	5.822	5.722	5.600	5.660	5.864	5.893	6.031	6.005	100-110	53.14	69196	99.2,99.2
120	9.021	8.817	8.710	8.757	9.103	9.135	9.287	9.230	110-120	72.91	69269	99.3,99.3
130	12.56	12.34	12.24	12.28	12.76	12.75	12.94	12.77	120-130	96.44	69366	99.4,99.4
140	15.96	15.76	15.65	15.66	16.33	16.28	16.49	16.21	130-140	110.6	69476	99.6,99.6
150	19.10	18.93	18.76	18.71	19.65	19.52	19.75	19.45	140-150	110.4	69587	99.7,99.7
160	22.52	22.26	22.14	21.98	23.18	22.93	23.23	22.91	150-160	96.31	69683	99.9,99.9
170	25.90	25.54	25.56	25.36	26.31	25.99	26.30	25.94	160-170	68.47	69752	100,100
180	27.60	27.30	27.47	27.16	27.64	27.26	27.50	27.14	170-180	25.37	69777	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 52327 lm

%lum = 75.0%

%lamp = 75.0%

Conical surface Flux(120deg): 64320 lm

%lum = 92.2%

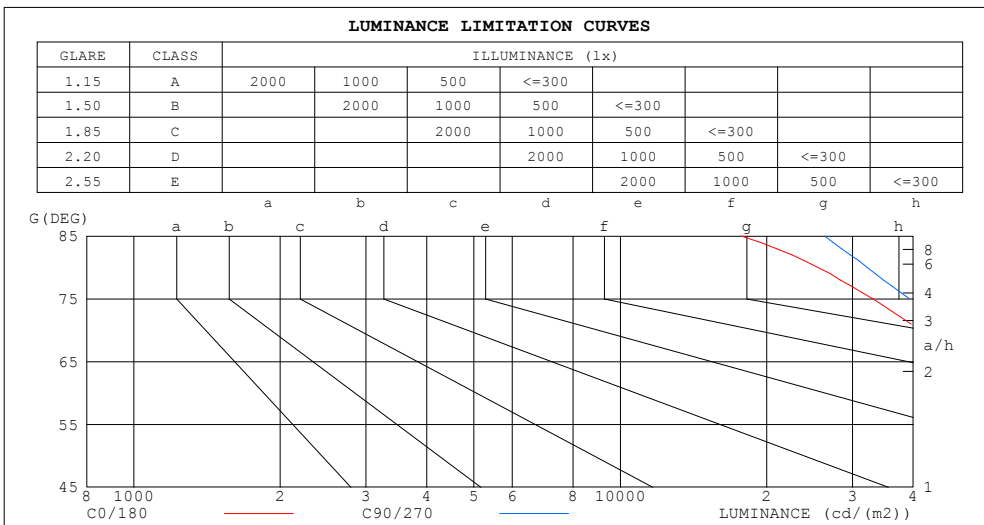
%lamp = 92.2%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

□ 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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17707	26316
80	25451	32144
75	33012	39294
70	41393	48018
65	52261	59691
60	68142	76604
55	91602	99284
50	125650	132212
45	174089	177543

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	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	.236 .134 .043	.229 .131 .042	.216 .124 .040	.203 .117 .038	.192 .111 .036	
2.0	.229 .125 .038	.223 .123 .038	.211 .117 .036	.200 .112 .035	.190 .108 .034	
3.0	.218 .116 .035	.212 .114 .034	.202 .109 .033	.193 .106 .032	.184 .102 .031	
4.0	.206 .107 .031	.201 .105 .031	.192 .102 .030	.184 .099 .030	.176 .096 .029	
5.0	.194 .099 .029	.190 .097 .028	.182 .095 .028	.174 .092 .027	.168 .090 .027	
6.0	.183 .092 .026	.179 .091 .026	.172 .088 .026	.166 .086 .025	.159 .084 .025	
7.0	.173 .086 .024	.170 .085 .024	.163 .083 .024	.157 .081 .023	.152 .079 .023	
8.0	.164 .080 .023	.161 .079 .022	.155 .078 .022	.150 .076 .022	.145 .074 .022	
9.0	.155 .075 .021	.153 .074 .021	.147 .073 .021	.143 .071 .020	.138 .070 .020	
10.0	.148 .071 .020	.145 .070 .020	.140 .069 .019	.136 .068 .019	.132 .066 .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	.183 .164 .148	.156 .141 .127	.107 .097 .088	.062 .056 .051	.020 .018 .017	
2.0	.171 .140 .113	.147 .120 .098	.101 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.162 .122 .089	.139 .105 .077	.095 .073 .054	.055 .043 .032	.018 .014 .010	
4.0	.154 .108 .072	.132 .093 .063	.091 .065 .044	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.126 .084 .052	.087 .058 .037	.050 .034 .022	.016 .011 .007	
6.0	.140 .088 .051	.120 .076 .045	.083 .053 .032	.048 .031 .019	.015 .010 .006	
7.0	.133 .081 .044	.115 .070 .039	.079 .049 .027	.046 .029 .016	.015 .010 .005	
8.0	.128 .075 .039	.110 .065 .034	.076 .046 .024	.044 .027 .014	.014 .009 .005	
9.0	.122 .070 .035	.105 .061 .031	.073 .043 .022	.043 .025 .013	.014 .008 .004	
10.0	.117 .066 .032	.101 .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:2023-04-28

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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	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	28.1	29.4	28.4	29.6	29.8	28.3	29.6	28.6	29.8	30.0
3H	28.4	29.5	28.7	29.8	30.0	28.6	29.8	28.9	30.0	30.3
4H	28.4	29.5	28.7	29.8	30.0	28.7	29.8	29.0	30.1	30.3
6H	28.4	29.5	28.8	29.7	30.0	28.8	29.8	29.1	30.1	30.3
8H	28.4	29.4	28.8	29.7	30.0	28.8	29.7	29.1	30.0	30.3
12H	28.4	29.3	28.7	29.6	29.9	28.7	29.7	29.1	30.0	30.3
4H 2H	28.2	29.3	28.5	29.6	29.8	28.4	29.5	28.7	29.7	30.0
3H	28.6	29.5	28.9	29.8	30.1	28.8	29.8	29.2	30.1	30.4
4H	28.7	29.6	29.1	29.9	30.2	29.0	29.8	29.4	30.2	30.5
6H	28.8	29.5	29.2	29.9	30.2	29.1	29.8	29.5	30.2	30.6
8H	28.8	29.5	29.2	29.8	30.2	29.1	29.8	29.5	30.2	30.6
12H	28.7	29.4	29.2	29.8	30.2	29.1	29.7	29.5	30.1	30.6
8H 4H	28.7	29.4	29.1	29.8	30.2	29.0	29.7	29.4	30.0	30.4
6H	28.8	29.4	29.3	29.8	30.2	29.1	29.7	29.6	30.1	30.6
8H	28.8	29.3	29.3	29.8	30.2	29.2	29.7	29.6	30.1	30.6
12H	28.8	29.3	29.3	29.7	30.2	29.2	29.6	29.7	30.1	30.6
12H 4H	28.7	29.3	29.1	29.7	30.1	28.9	29.6	29.4	30.0	30.4
6H	28.8	29.3	29.3	29.7	30.2	29.1	29.6	29.6	30.0	30.5
8H	28.8	29.3	29.3	29.7	30.2	29.2	29.6	29.7	30.1	30.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.6					+ 1.0 / - 1.3				
1.5H	+ 1.1 / - 1.0					+ 1.0 / - 1.0				
2.0H	+ 2.3 / - 1.8					+ 2.1 / - 1.7				

CIE Pub.117, 69777 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 14.7)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

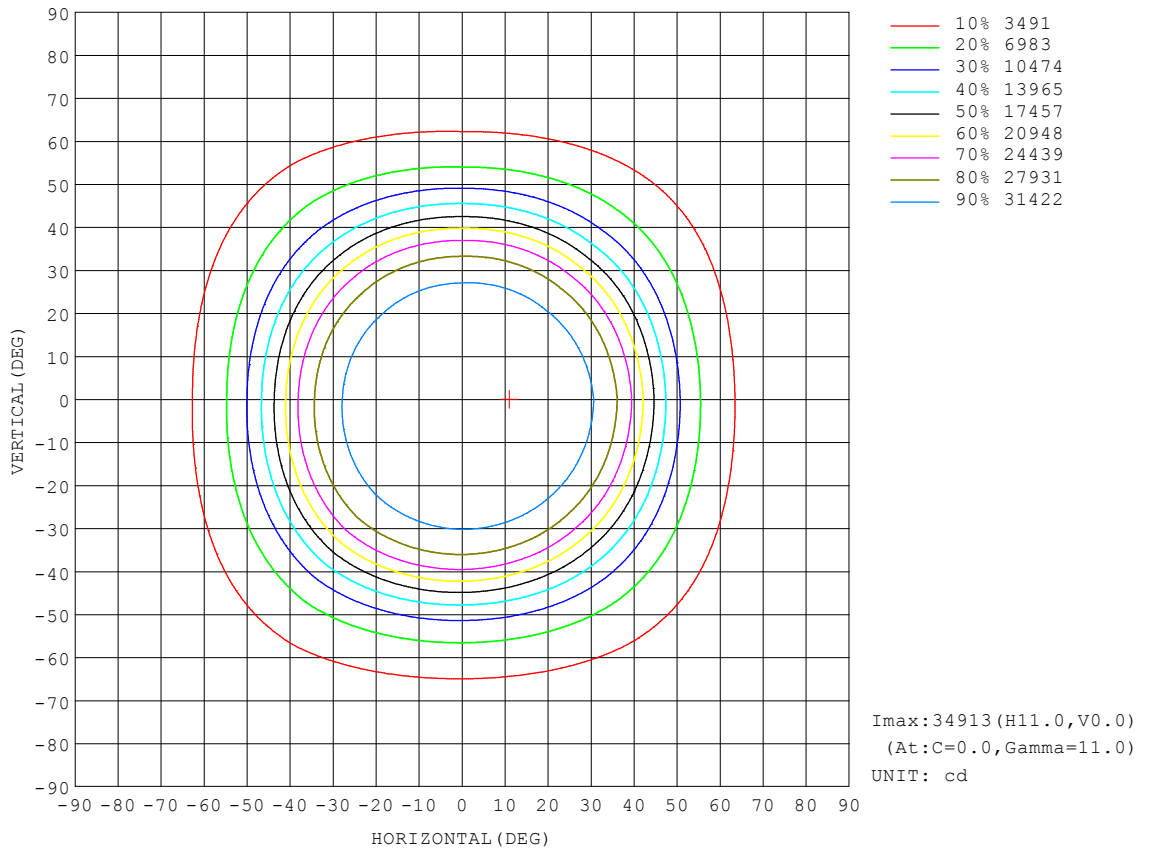
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	69	64	76	69	63	58
1.00	87	78	72	85	77	72	83	78	71	66
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	89	84	95	88	84	92	87	82	76
2.00	102	96	91	100	94	90	97	92	88	82
2.50	105	99	94	103	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	97	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	102	100	91
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:2023-04-28

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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

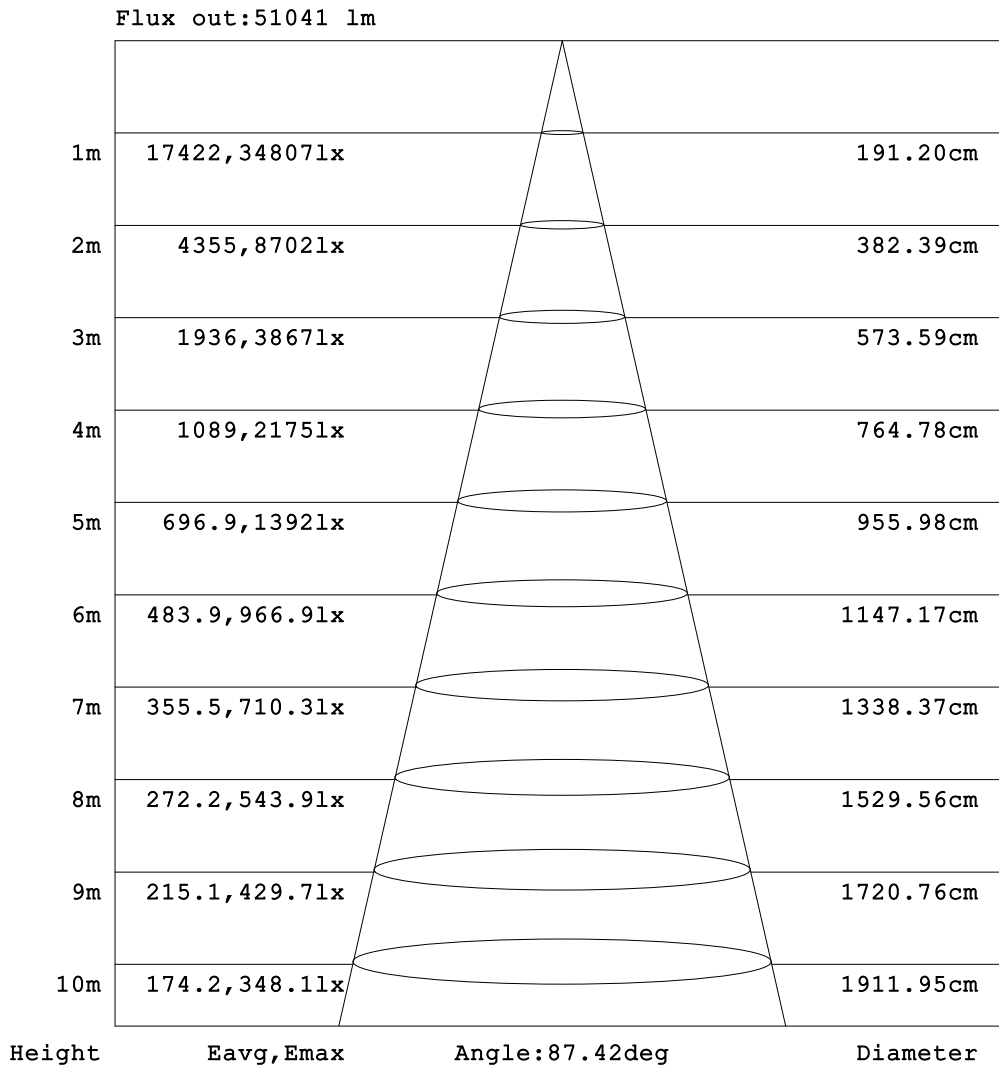


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-04-28

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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

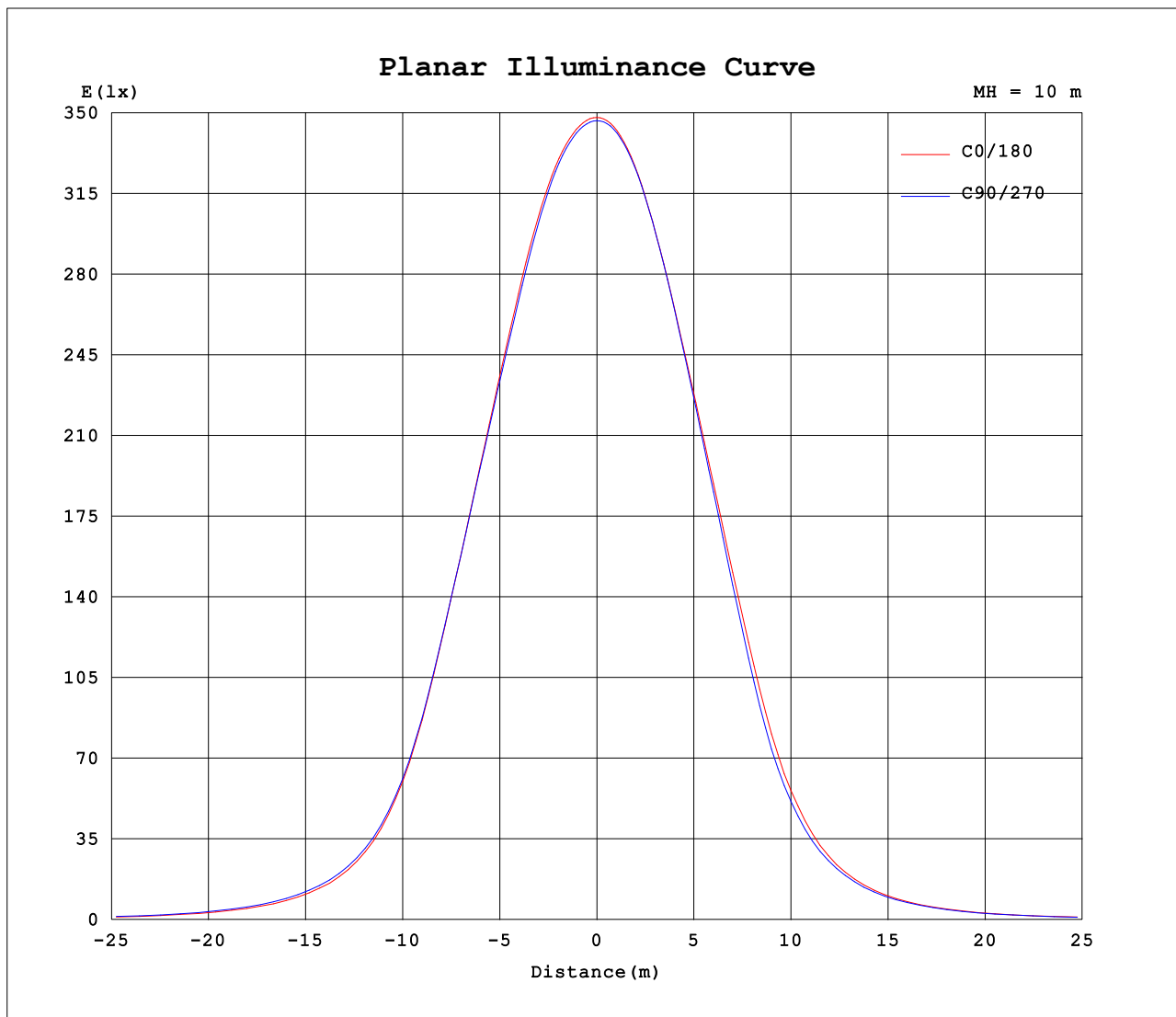


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

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: 2023-04-28

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:120.9V I:3.897A P:469.6W PF:0.9970 Freq:59.98Hz Lamp Flux:69777x1 lm		
NAME: ASD-UHB3-500ADAC-BK-500W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.42*0.42m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	3481	3473	3466	3460	3481	3473	3466	3460										
5	3484	3477	3469	3460	3480	3473	3468	3464										
10	3491	3483	3471	3455	3465	3459	3458	3463										
15	3484	3473	3454	3429	3423	3414	3421	3439										
20	3439	3421	3399	3370	3348	3334	3345	3373										
25	3339	3318	3304	3275	3234	3207	3217	3255										
30	3171	3148	3153	3126	3053	3007	3005	3056										
35	2880	2850	2878	2869	2742	2663	2642	2709										
40	2377	2330	2393	2421	2224	2108	2065	2132										
45	1699	1674	1732	1768	1589	1497	1453	1478										
50	1115	1154	1173	1205	1049	1025	968	987										
55	725	780	786	805	681	706	642	668										
60	470	521	529	538	441	470	422	441										
65	305	341	348	352	285	305	274	285										
70	195	219	227	226	183	194	176	180										
75	118	131	140	140	112	117	104	105										
80	61.0	69.0	77.0	78.1	61.0	61.6	52.7	51.4										
85	21.3	25.3	31.7	33.5	23.7	22.3	16.7	14.4										
90	4.11	4.42	4.65	4.64	3.83	3.95	3.96	3.84										
95	4.17	4.40	4.41	4.15	3.98	4.08	4.09	3.98										
100	4.49	4.65	4.62	4.45	4.37	4.47	4.50	4.38										
105	4.95	5.03	5.01	4.91	4.92	5.00	4.98	4.91										
110	5.82	5.72	5.60	5.66	5.86	5.89	6.03	6.01										
115	7.35	7.19	7.06	7.12	7.42	7.44	7.60	7.56										
120	9.02	8.82	8.71	8.76	9.10	9.13	9.29	9.23										
125	10.8	10.6	10.5	10.5	10.9	10.9	11.1	11.0										
130	12.6	12.3	12.2	12.3	12.8	12.8	12.9	12.8										
135	14.3	14.1	14.0	14.0	14.6	14.5	14.7	14.5										
140	16.0	15.8	15.6	15.7	16.3	16.3	16.5	16.2										
145	17.5	17.4	17.2	17.2	18.0	17.9	18.1	17.8										
150	19.1	18.9	18.8	18.7	19.6	19.5	19.7	19.5										
155	20.8	20.6	20.4	20.3	21.4	21.2	21.4	21.2										
160	22.5	22.3	22.1	22.0	23.2	22.9	23.2	22.9										
165	24.3	24.0	23.9	23.8	24.9	24.6	24.9	24.6										
170	25.9	25.5	25.6	25.4	26.3	26.0	26.3	25.9										
175	27.1	26.7	26.8	26.5	27.3	26.9	27.2	26.8										
180	27.6	27.3	27.5	27.2	27.6	27.3	27.5	27.1										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-04-28

□ 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: