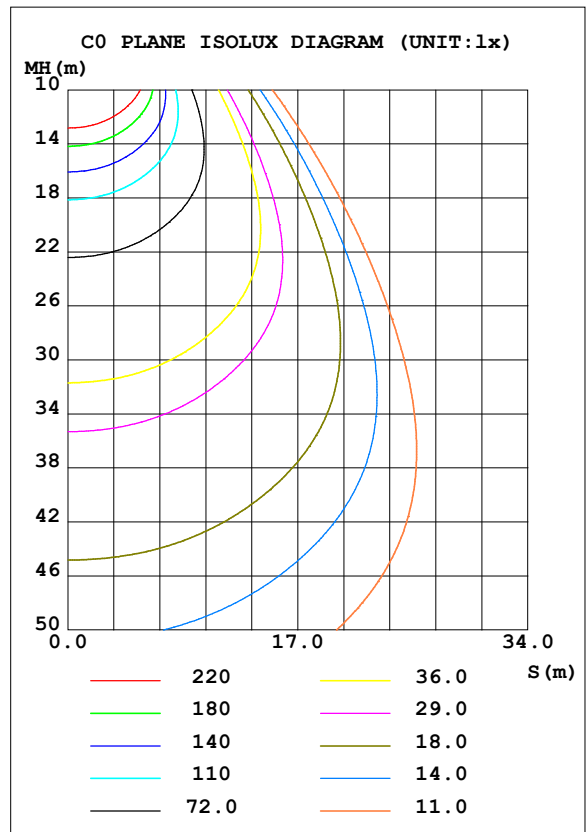
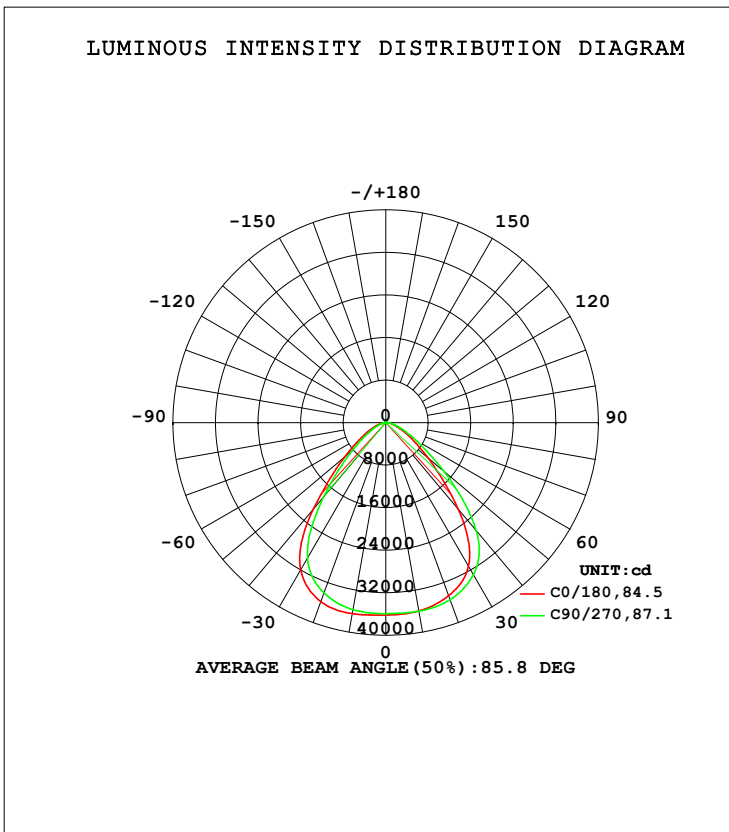


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.11 lm/W			
MODEL		I <sub>max</sub> (cd)	36486	S/MH (C0/180)	1.21
NOMINAL POWER (W)	500	LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	70425	<input type="checkbox"/> UP, DN (C0-180)	0.5, 53.2
NOMINAL FLUX (lm)	70425	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 45.8
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	277	<input type="checkbox"/> down (%)	99.0	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: lianghaizhu  
 Test Date: 2023-03-17

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	3595	3596	3598	3600	3646	3610	3572	3549	0- 10	3435	3435	4.86,4.86
20	3463	3498	3542	3563	3580	3496	3405	3387	10- 20	10071	13506	19.1,19.1
30	3112	3221	3300	3270	3204	3072	2944	2953	20- 30	15428	28934	41,41
40	2123	2407	2648	2449	2116	1939	1817	1842	30- 40	16910	45844	64.9,64.9
50	1048	1247	1434	1265	1015	908.3	833.9	901.4	40- 50	12143	57987	82.1,82.1
60	503.0	601.4	645.6	608.8	477.5	420.7	366.2	424.3	50- 60	6766	64753	91.7,91.7
70	229.6	269.4	281.8	269.3	210.2	173.6	145.4	178.3	60- 70	3422	68174	96.5,96.5
80	81.02	99.38	104.9	92.48	61.85	43.26	32.96	48.12	70- 80	1449	69624	98.5,98.5
90	4.940	9.732	14.28	5.831	4.115	4.049	4.093	4.202	80- 90	334.8	69959	99,99
100	4.870	4.633	4.340	4.452	4.455	4.504	4.588	4.572	90-100	49.56	70008	99.1,99.1
110	5.857	5.450	5.204	5.427	5.674	6.251	6.683	6.196	100-110	53.33	70061	99.2,99.2
120	9.173	8.514	8.145	8.378	8.869	9.561	10.07	9.507	110-120	72.89	70134	99.3,99.3
130	12.96	12.21	11.77	12.00	12.57	13.23	13.78	13.16	120-130	97.02	70231	99.4,99.4
140	16.61	15.87	15.39	15.64	16.33	16.84	17.34	16.70	130-140	112.2	70344	99.6,99.6
150	19.90	19.20	18.75	18.94	19.93	20.30	20.79	20.08	140-150	113.0	70457	99.7,99.7
160	23.27	22.61	22.31	22.37	23.58	23.84	24.31	23.48	150-160	98.80	70555	99.9,99.9
170	26.58	26.04	25.89	25.75	26.95	26.97	27.30	26.60	160-170	70.21	70626	100,100
180	28.32	28.11	28.04	27.76	28.42	28.03	28.11	27.70	170-180	26.00	70652	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 52707 lm

%lum = 74.6%

%lamp = 74.6%

Conical surface Flux(120deg): 64753 lm

%lum = 91.7%

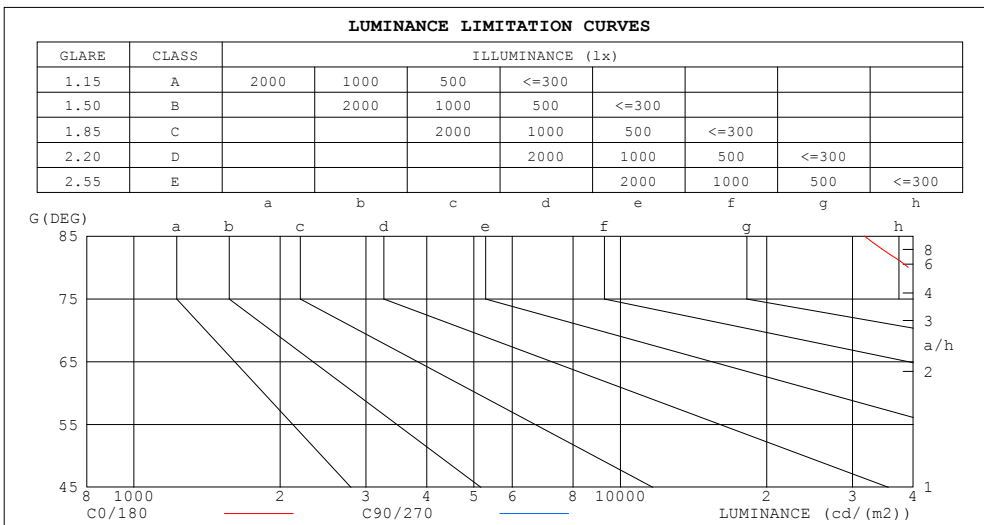
%lamp = 91.7%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

□ 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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-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	31735	49404
80	39079	50614
75	47132	58096
70	56238	69023
65	67837	85091
60	84258	108155
55	106509	139814
50	136539	186878
45	179191	242406

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-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	.238 .135 .043	.231 .132 .042	.217 .125 .040	.205 .118 .038	.193 .112 .036	
2.0	.230 .126 .039	.224 .123 .038	.212 .118 .037	.201 .113 .035	.191 .108 .034	
3.0	.218 .116 .035	.213 .114 .034	.203 .110 .033	.193 .106 .032	.184 .102 .032	
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 .022	.161 .079 .022	.155 .077 .022	.149 .076 .022	.144 .074 .022	
9.0	.155 .075 .021	.152 .074 .021	.147 .073 .021	.142 .071 .020	.138 .070 .020	
10.0	.147 .071 .020	.145 .070 .020	.140 .069 .019	.136 .067 .019	.131 .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	.172 .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	.053 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.126 .084 .052	.087 .059 .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	.042 .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:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm										
NAME: ASD-UHB3HV-500D50-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	28.7	30.0	29.0	30.2	30.4	29.7	30.9	29.9	31.1	31.3
3H	29.1	30.2	29.4	30.5	30.7	30.1	31.2	30.3	31.4	31.7
4H	29.2	30.3	29.5	30.6	30.8	30.2	31.3	30.5	31.5	31.8
6H	29.3	30.3	29.6	30.6	30.9	30.3	31.3	30.6	31.6	31.9
8H	29.3	30.3	29.6	30.5	30.8	30.3	31.3	30.6	31.6	31.9
12H	29.3	30.2	29.6	30.5	30.8	30.3	31.2	30.6	31.5	31.9
4H 2H	28.9	30.0	29.2	30.3	30.5	29.7	30.8	30.1	31.1	31.4
3H	29.4	30.4	29.8	30.7	31.0	30.3	31.2	30.6	31.5	31.8
4H	29.6	30.5	30.0	30.8	31.2	30.5	31.4	30.9	31.7	32.0
6H	29.8	30.5	30.2	30.9	31.3	30.7	31.4	31.1	31.8	32.2
8H	29.8	30.5	30.2	30.9	31.3	30.7	31.4	31.1	31.8	32.2
12H	29.8	30.5	30.3	30.9	31.3	30.8	31.4	31.2	31.8	32.2
8H 4H	29.7	30.4	30.1	30.8	31.2	30.5	31.2	30.9	31.6	32.0
6H	29.9	30.5	30.4	30.9	31.4	30.8	31.3	31.2	31.7	32.2
8H	30.0	30.5	30.5	31.0	31.4	30.9	31.4	31.3	31.8	32.3
12H	30.1	30.5	30.6	31.0	31.4	31.0	31.4	31.4	31.8	32.3
12H 4H	29.7	30.3	30.1	30.7	31.1	30.5	31.1	30.9	31.5	31.9
6H	29.9	30.4	30.4	30.9	31.3	30.8	31.3	31.2	31.7	32.2
8H	30.0	30.5	30.5	30.9	31.4	30.9	31.3	31.4	31.8	32.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.8 / - 1.0				
1.5H	+ 0.8 / - 0.9					+ 0.7 / - 0.8				
2.0H	+ 1.6 / - 1.4					+ 2.1 / - 1.5				

CIE Pub.117, 70652 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 14.8)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

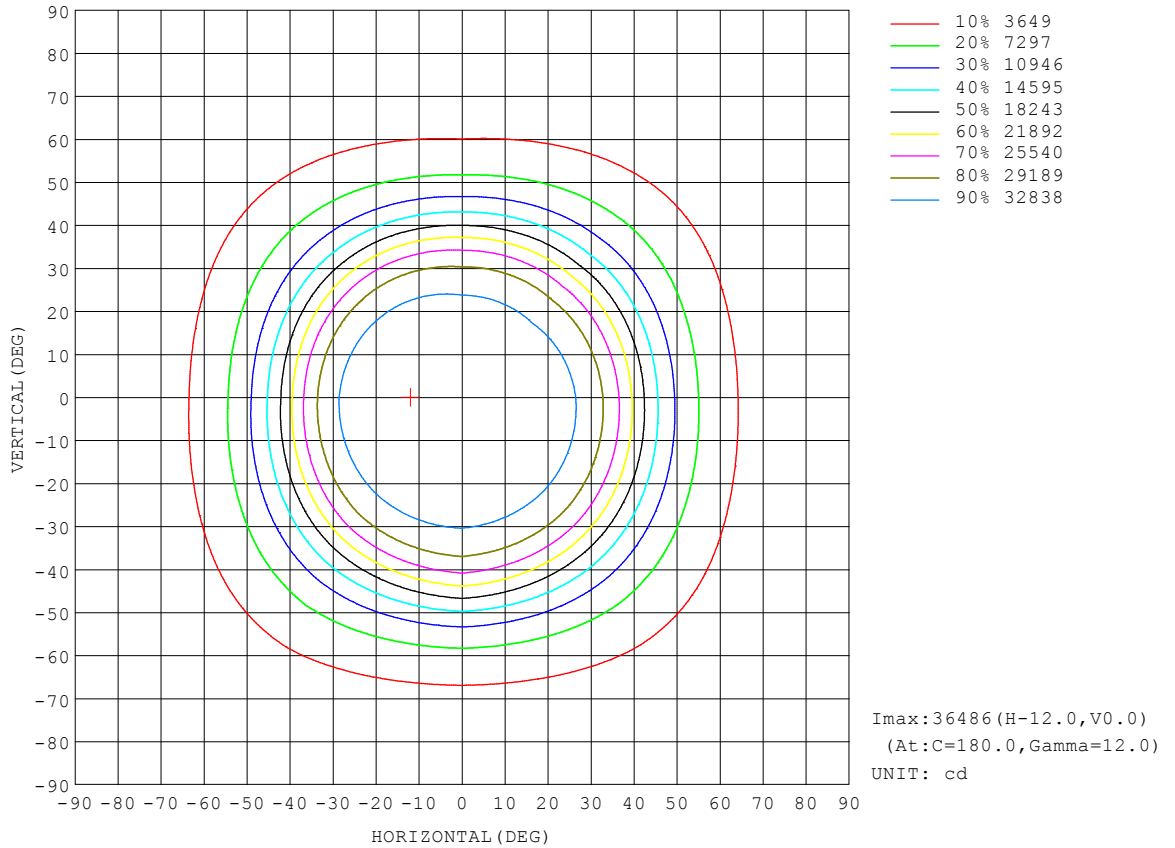
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	69	64	77	69	63	58
1.00	86	78	72	85	77	72	83	78	71	66
1.25	93	85	79	91	84	79	89	82	78	72
1.50	97	89	84	95	88	84	92	87	82	76
2.00	102	95	91	100	94	90	97	92	88	82
2.50	104	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	103	100	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:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:

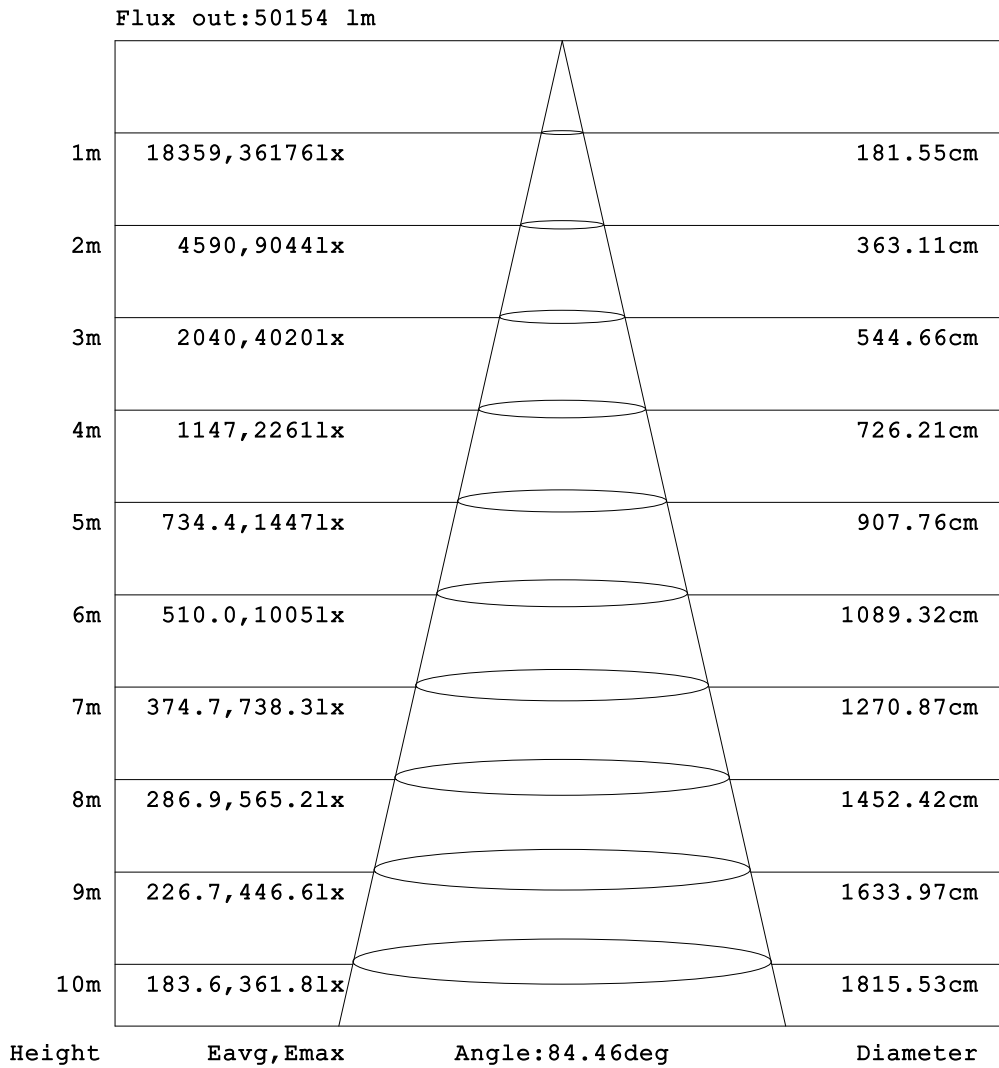


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-BK	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.39*0.39m	Shielding Angle:



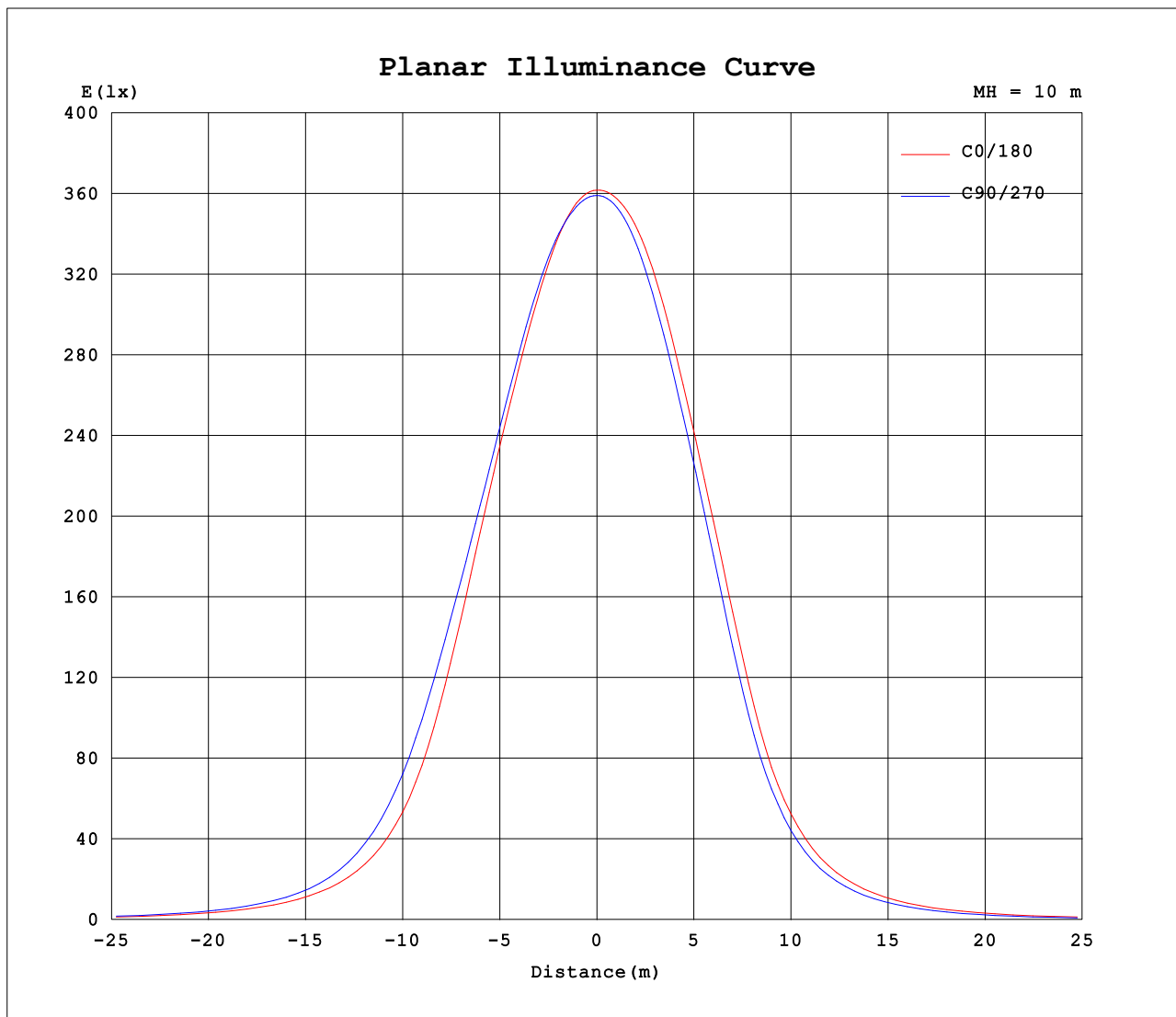
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

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: 2023-03-17

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:277.7V I:1.750A P:475.5W PF:0.9929 Freq:59.98Hz Lamp Flux:70425x1 lm		
NAME: ASD-UHB3HV-500D50-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	3618	3603	3591	3579	3618	3603	3591	3579											
5	3613	3603	3593	3585	3629	3608	3590	3574											
10	3595	3596	3598	3600	3646	3610	3572	3549											
15	3546	3565	3589	3604	3642	3582	3514	3487											
20	3463	3498	3542	3563	3580	3496	3405	3387											
25	3335	3392	3449	3455	3443	3337	3234	3232											
30	3112	3221	3300	3270	3204	3072	2944	2953											
35	2714	2914	3060	2968	2775	2604	2461	2470											
40	2123	2407	2648	2449	2116	1939	1817	1842											
45	1513	1770	2046	1794	1488	1333	1252	1293											
50	1048	1247	1434	1265	1015	908	834	901											
55	729	868	957	881	697	626	556	630											
60	503	601	646	609	478	421	366	424											
65	342	407	429	410	323	277	237	280											
70	230	269	282	269	210	174	145	178											
75	146	172	180	167	125	97.6	80.1	104											
80	81.0	99.4	105	92.5	61.9	43.3	33.0	48.1											
85	33.0	46.2	51.4	40.2	18.5	8.70	4.34	10.2											
90	4.94	9.73	14.3	5.83	4.11	4.05	4.09	4.20											
95	4.66	4.45	4.18	4.22	4.15	4.20	4.23	4.30											
100	4.87	4.63	4.34	4.45	4.45	4.50	4.59	4.57											
105	5.16	4.97	4.74	4.86	4.73	4.96	5.25	5.00											
110	5.86	5.45	5.20	5.43	5.67	6.25	6.68	6.20											
115	7.42	6.85	6.50	6.76	7.20	7.84	8.30	7.78											
120	9.17	8.51	8.14	8.38	8.87	9.56	10.1	9.51											
125	11.0	10.3	9.92	10.2	10.7	11.4	11.9	11.3											
130	13.0	12.2	11.8	12.0	12.6	13.2	13.8	13.2											
135	14.8	14.1	13.6	13.8	14.5	15.1	15.6	15.0											
140	16.6	15.9	15.4	15.6	16.3	16.8	17.3	16.7											
145	18.3	17.6	17.1	17.3	18.1	18.6	19.1	18.4											
150	19.9	19.2	18.7	18.9	19.9	20.3	20.8	20.1											
155	21.6	20.9	20.5	20.6	21.7	22.1	22.5	21.7											
160	23.3	22.6	22.3	22.4	23.6	23.8	24.3	23.5											
165	25.0	24.4	24.2	24.2	25.4	25.6	26.0	25.2											
170	26.6	26.0	25.9	25.8	26.9	27.0	27.3	26.6											
175	27.8	27.4	27.2	27.0	28.0	27.8	28.1	27.5											
180	28.3	28.1	28.0	27.8	28.4	28.0	28.1	27.7											

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25DEG  
 Operators:lianghaizhu  
 Test Date:2023-03-17

□ 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: