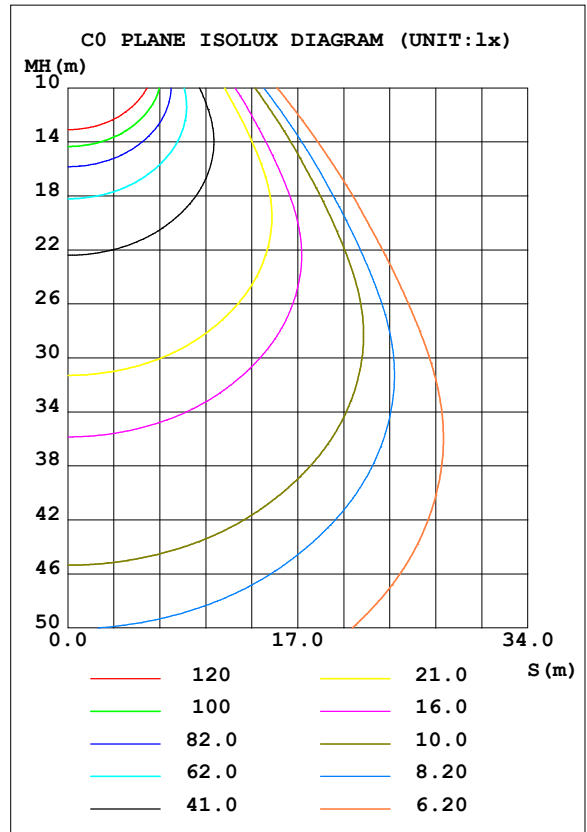
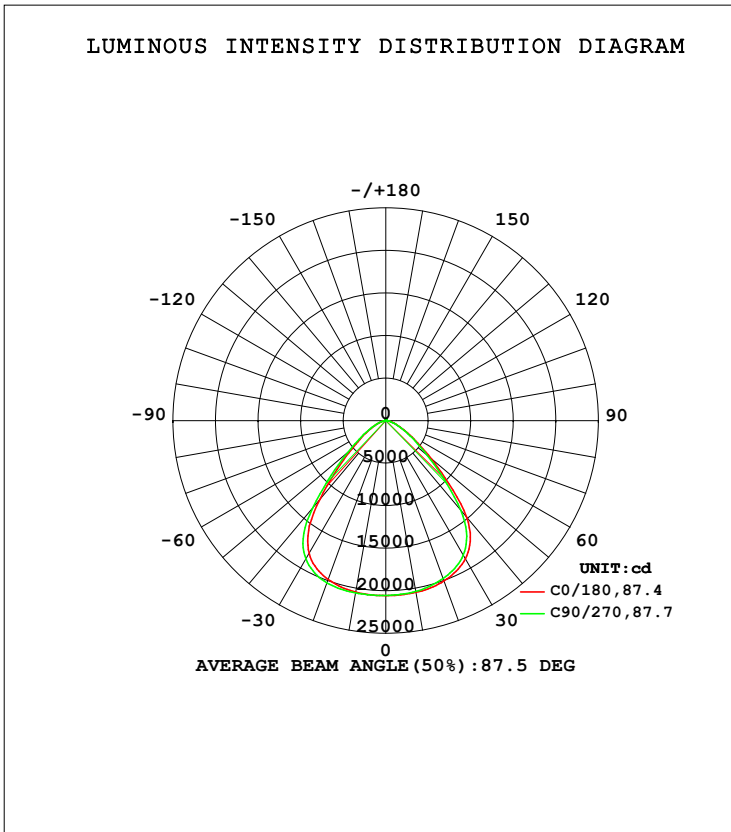


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.86 lm/W			
MODEL		I <sub>max</sub> (cd)	20573	S/MH (C0/180)	1.21
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	40913	<input type="checkbox"/> UP, DN (C0-180)	0.5, 50.7
NOMINAL FLUX (lm)	40913.3	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 48.4
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: 2023-05-04

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	2049	2041	2037	2038	2046	2054	2055	2051	0- 10	1958	1958	4.79,4.79
20	2004	1984	1974	1972	1985	2020	2029	2013	10- 20	5739	7697	18.8,18.8
30	1874	1844	1823	1801	1802	1857	1878	1864	20- 30	8934	16631	40.6,40.6
40	1475	1467	1370	1281	1205	1280	1338	1356	30- 40	10249	26881	65.7,65.7
50	702.0	691.6	642.8	594.2	529.4	558.4	584.9	626.1	40- 50	7287	34167	83.5,83.5
60	304.6	298.5	285.5	265.2	230.6	238.5	251.1	277.5	50- 60	3727	37894	92.6,92.6
70	128.8	126.1	120.8	110.8	93.21	95.11	101.0	115.5	60- 70	1780	39674	97,97
80	42.22	42.72	39.11	33.13	23.27	22.87	25.12	32.20	70- 80	713.2	40387	98.7,98.7
90	1.573	1.850	1.561	1.703	1.501	1.488	1.337	1.483	80- 90	134.1	40521	99,99
100	1.795	1.854	1.934	2.012	2.075	2.013	1.950	1.824	90-100	17.27	40538	99.1,99.1
110	3.196	3.291	3.433	3.507	3.641	3.511	3.437	3.212	100-110	27.66	40566	99.2,99.2
120	5.089	5.195	5.412	5.443	5.642	5.435	5.389	5.073	110-120	42.95	40609	99.3,99.3
130	7.251	7.336	7.646	7.590	7.882	7.590	7.625	7.211	120-130	57.37	40666	99.4,99.4
140	9.353	9.465	9.698	9.743	10.04	9.821	9.730	9.461	130-140	66.36	40733	99.6,99.6
150	11.21	11.32	11.48	11.58	11.99	11.73	11.62	11.45	140-150	66.45	40799	99.7,99.7
160	13.21	13.24	13.50	13.50	14.09	13.78	13.75	13.51	150-160	57.73	40857	99.9,99.9
170	15.30	15.27	15.51	15.44	15.91	15.61	15.68	15.41	160-170	41.06	40898	100,100
180	16.58	16.40	16.54	16.37	16.59	16.40	16.55	16.37	170-180	15.24	40913	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 31082 lm

%lum = 76.0%

%lamp = 76.0%

Conical surface Flux(120deg): 37894 lm

%lum = 92.6%

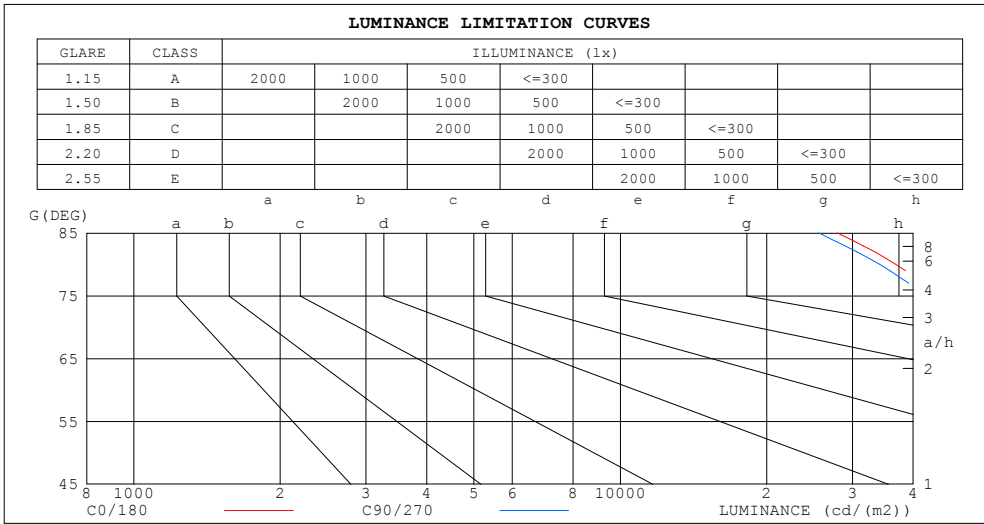
%lamp = 92.6%

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

□ 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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	27966	25583
80	36841	34126
75	46244	43123
70	57080	53498
65	71381	67270
60	92306	86511
55	121812	113196
50	165472	151529
45	225558	206847

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	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	.234 .133 .042	.227 .129 .041	.213 .122 .039	.201 .116 .037	.189 .110 .035	
2.0	.227 .124 .038	.221 .121 .037	.209 .116 .036	.198 .111 .035	.188 .107 .034	
3.0	.216 .115 .034	.210 .113 .034	.200 .108 .033	.191 .105 .032	.182 .101 .031	
4.0	.204 .106 .031	.199 .104 .031	.190 .101 .030	.182 .098 .029	.174 .095 .029	
5.0	.193 .098 .028	.189 .097 .028	.181 .094 .028	.173 .091 .027	.166 .089 .027	
6.0	.182 .091 .026	.178 .090 .026	.171 .088 .026	.165 .086 .025	.158 .083 .025	
7.0	.172 .085 .024	.169 .084 .024	.163 .082 .024	.157 .080 .023	.151 .078 .023	
8.0	.163 .080 .022	.160 .079 .022	.154 .077 .022	.149 .076 .022	.144 .074 .022	
9.0	.155 .075 .021	.152 .074 .021	.147 .073 .021	.142 .071 .020	.137 .070 .020	
10.0	.147 .070 .020	.145 .070 .019	.140 .069 .019	.135 .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	.182 .164 .148	.156 .141 .127	.107 .097 .088	.061 .056 .051	.020 .018 .017	
2.0	.171 .140 .113	.146 .120 .098	.100 .083 .068	.058 .048 .040	.019 .016 .013	
3.0	.161 .121 .089	.138 .105 .078	.095 .073 .054	.055 .042 .032	.018 .014 .010	
4.0	.153 .107 .073	.131 .093 .063	.090 .065 .044	.052 .038 .026	.017 .012 .009	
5.0	.146 .097 .060	.125 .084 .052	.086 .058 .037	.050 .034 .022	.016 .011 .007	
6.0	.139 .088 .051	.120 .076 .045	.082 .053 .032	.048 .031 .019	.015 .010 .006	
7.0	.133 .081 .044	.114 .070 .039	.079 .049 .027	.046 .029 .016	.015 .009 .005	
8.0	.127 .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:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	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	29.2	30.4	29.4	30.6	30.8	28.9	30.2	29.2	30.4	30.6
3H	29.4	30.6	29.7	30.8	31.1	29.2	30.3	29.5	30.6	30.8
4H	29.5	30.6	29.8	30.9	31.1	29.2	30.3	29.5	30.6	30.8
6H	29.5	30.6	29.9	30.8	31.1	29.3	30.3	29.6	30.5	30.8
8H	29.5	30.5	29.9	30.8	31.1	29.2	30.2	29.6	30.5	30.8
12H	29.5	30.4	29.9	30.7	31.1	29.2	30.1	29.6	30.4	30.8
4H 2H	29.2	30.3	29.5	30.6	30.8	29.0	30.1	29.3	30.3	30.6
3H	29.6	30.5	30.0	30.8	31.1	29.4	30.3	29.7	30.6	30.9
4H	29.7	30.6	30.1	30.9	31.3	29.5	30.3	29.9	30.7	31.0
6H	29.8	30.6	30.2	30.9	31.3	29.6	30.3	30.0	30.7	31.1
8H	29.8	30.5	30.3	30.9	31.3	29.6	30.3	30.0	30.7	31.0
12H	29.8	30.5	30.3	30.9	31.3	29.6	30.2	30.0	30.6	31.0
8H 4H	29.7	30.4	30.2	30.8	31.2	29.5	30.2	29.9	30.6	31.0
6H	29.9	30.4	30.3	30.9	31.3	29.6	30.2	30.1	30.6	31.1
8H	29.9	30.4	30.4	30.9	31.3	29.7	30.2	30.1	30.6	31.1
12H	29.9	30.4	30.4	30.8	31.3	29.7	30.1	30.2	30.6	31.1
12H 4H	29.7	30.3	30.1	30.7	31.1	29.5	30.1	29.9	30.5	30.9
6H	29.9	30.4	30.3	30.8	31.3	29.6	30.1	30.1	30.6	31.0
8H	29.9	30.3	30.4	30.8	31.3	29.7	30.1	30.2	30.6	31.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.5					+ 1.2 / - 1.6				
1.5H	+ 1.1 / - 1.2					+ 1.1 / - 1.1				
2.0H	+ 2.4 / - 1.8					+ 2.3 / - 1.7				

CIE Pub.117, 40913 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.9)

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

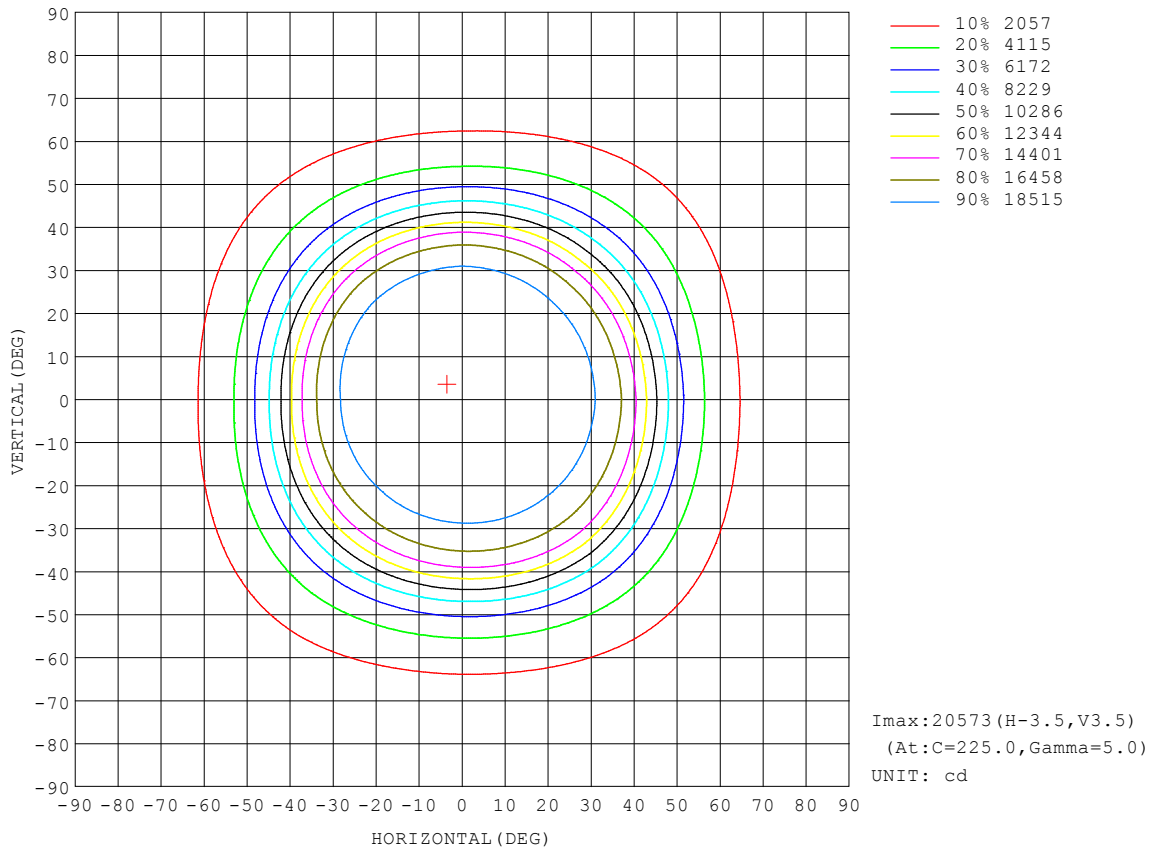
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	60	55	69	60	55	68	60	55	49
0.80	80	70	65	79	70	65	77	69	64	59
1.00	87	79	73	86	78	73	84	79	72	66
1.25	93	85	80	92	85	79	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	93	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:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

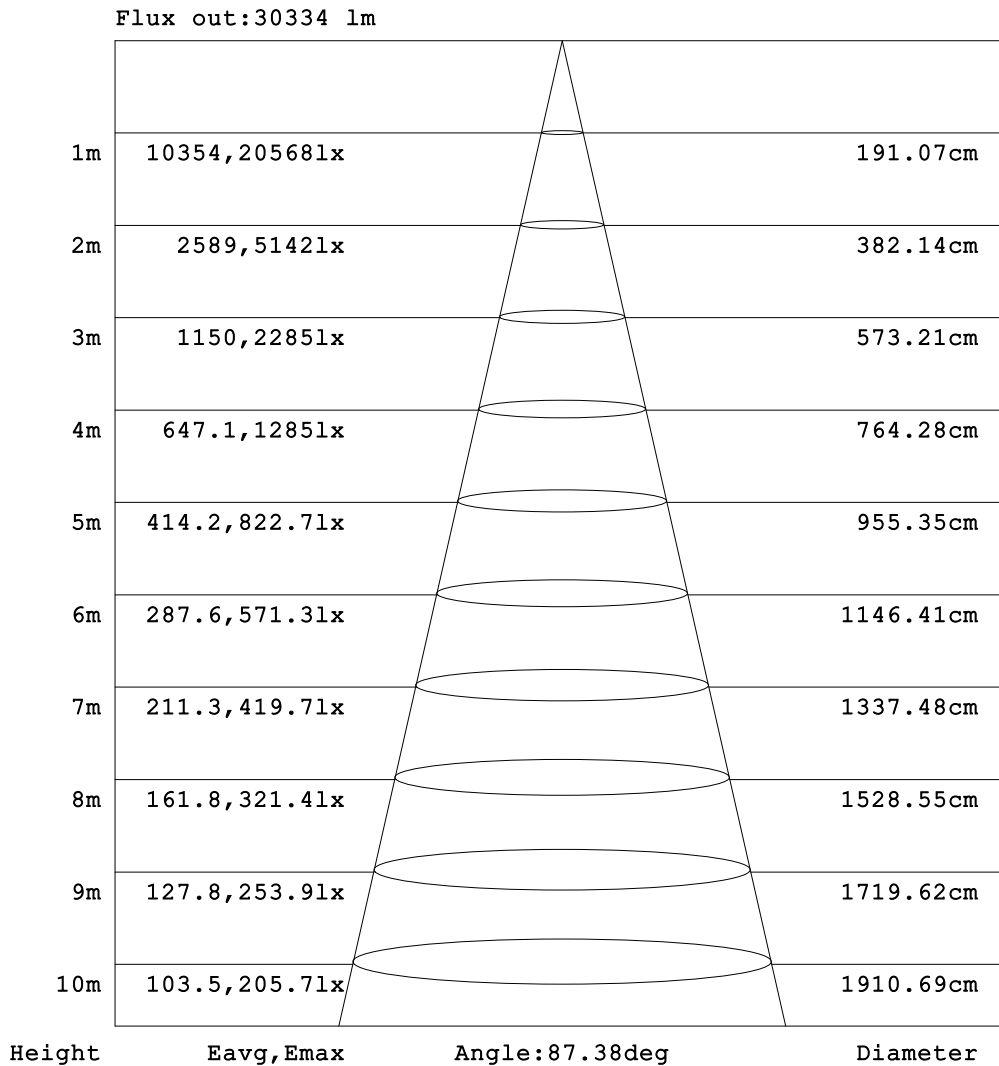


C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:



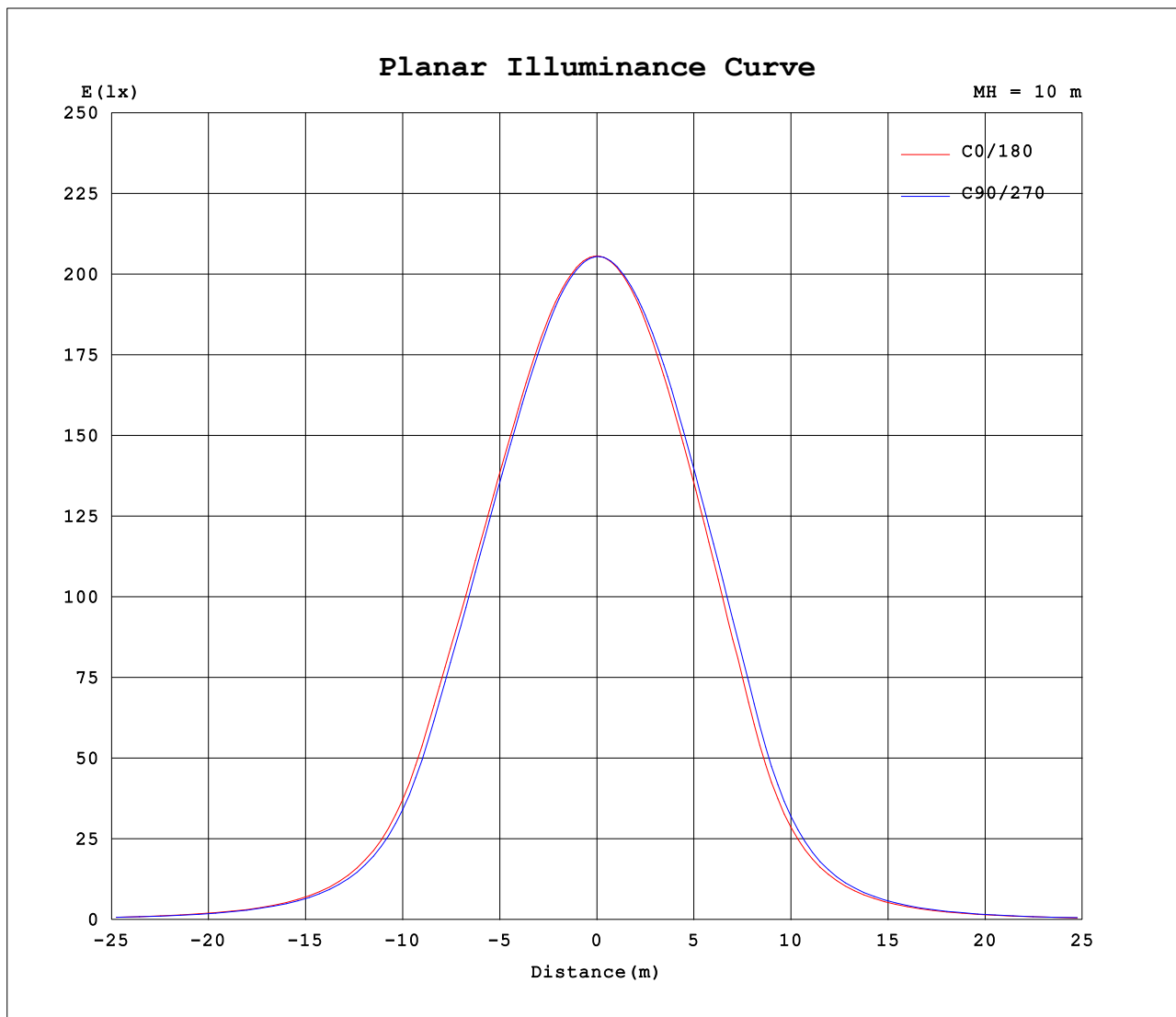
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

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: 2023-05-04

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:121.1V I:2.307A P:278.6W PF:0.9967 Freq:59.97Hz Lamp Flux:40913.3x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

Table--1

UNIT: x10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315											
0	2057	2055	2055	2054	2057	2055	2055	2054											
5	2055	2051	2049	2049	2054	2057	2057	2054											
10	2049	2041	2037	2038	2046	2054	2055	2051											
15	2035	2021	2013	2013	2025	2045	2049	2041											
20	2004	1984	1974	1972	1985	2020	2029	2013											
25	1955	1932	1918	1911	1921	1965	1976	1959											
30	1874	1844	1823	1801	1802	1857	1878	1864											
35	1732	1701	1658	1607	1582	1661	1696	1691											
40	1475	1467	1370	1281	1205	1280	1338	1356											
45	1053	1051	965	891	810	859	907	939											
50	702	692	643	594	529	558	585	626											
55	461	452	429	398	350	365	383	418											
60	305	298	285	265	231	239	251	278											
65	199	196	188	174	149	153	162	181											
70	129	126	121	111	93.2	95.1	101	116											
75	79.0	78.5	73.7	65.6	52.2	52.4	56.3	66.6											
80	42.2	42.7	39.1	33.1	23.3	22.9	25.1	32.2											
85	16.1	15.4	14.7	9.53	4.90	4.53	5.26	7.93											
90	1.57	1.85	1.56	1.70	1.50	1.49	1.34	1.48											
95	1.44	1.59	1.51	1.63	1.52	1.49	1.43	1.48											
100	1.80	1.85	1.93	2.01	2.07	2.01	1.95	1.82											
105	2.42	2.50	2.61	2.69	2.79	2.70	2.62	2.45											
110	3.20	3.29	3.43	3.51	3.64	3.51	3.44	3.21											
115	4.10	4.20	4.38	4.43	4.59	4.43	4.37	4.10											
120	5.09	5.20	5.41	5.44	5.64	5.44	5.39	5.07											
125	6.15	6.26	6.52	6.51	6.74	6.50	6.49	6.12											
130	7.25	7.34	7.65	7.59	7.88	7.59	7.63	7.21											
135	8.34	8.39	8.72	8.66	8.98	8.72	8.70	8.32											
140	9.35	9.47	9.70	9.74	10.0	9.82	9.73	9.46											
145	10.3	10.4	10.6	10.7	11.0	10.8	10.7	10.5											
150	11.2	11.3	11.5	11.6	12.0	11.7	11.6	11.5											
155	12.2	12.2	12.4	12.5	13.0	12.7	12.7	12.4											
160	13.2	13.2	13.5	13.5	14.1	13.8	13.7	13.5											
165	14.3	14.3	14.6	14.5	15.1	14.8	14.8	14.5											
170	15.3	15.3	15.5	15.4	15.9	15.6	15.7	15.4											
175	16.1	16.0	16.2	16.1	16.5	16.2	16.3	16.1											
180	16.6	16.4	16.5	16.4	16.6	16.4	16.5	16.4											

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:27DEG  
 Operators:lianghaizhu  
 Test Date:2023-05-04

□ 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: