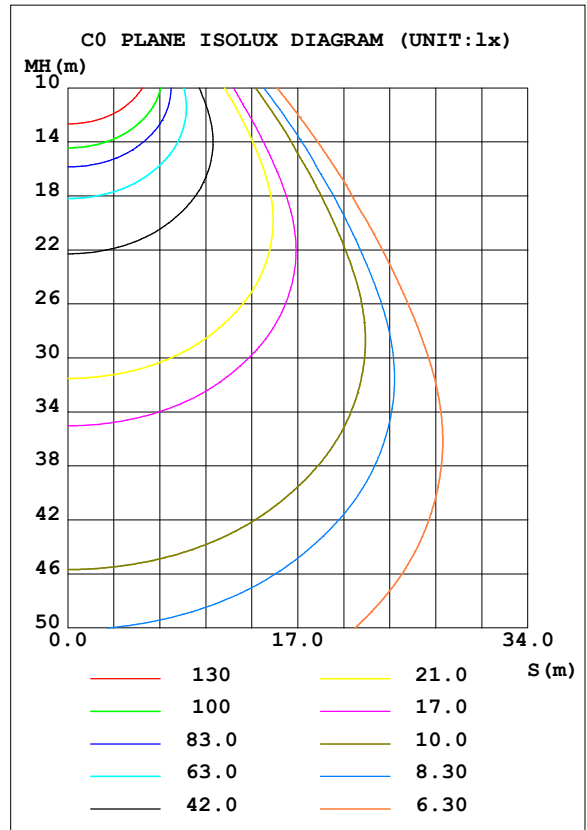
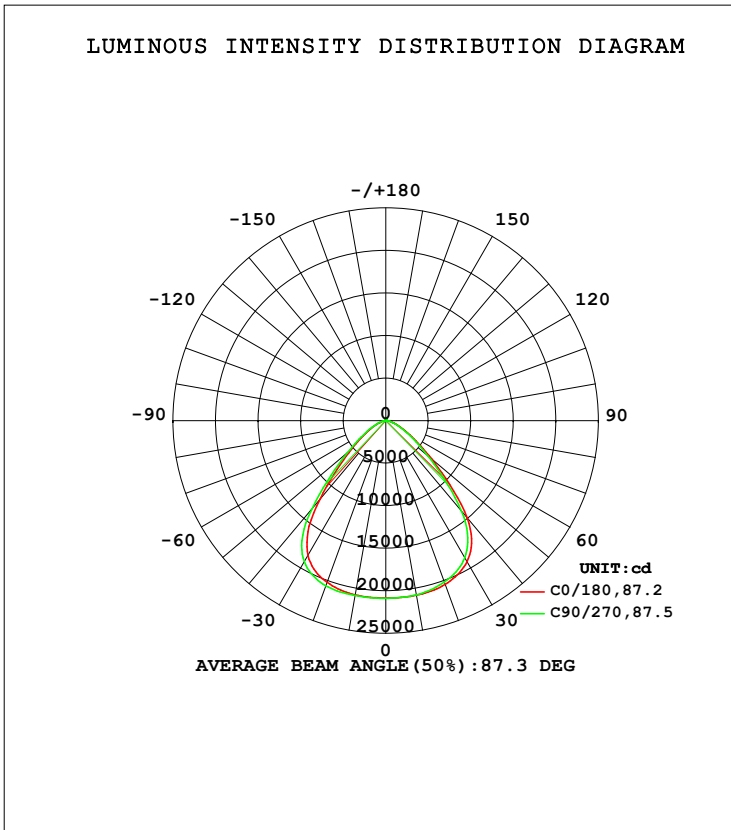


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.1V I:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.44 lm/W			
MODEL		I _{max} (cd)	20890	S/MH (C0/180)	1.20
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	41507	<input type="checkbox"/> UP, DN (C0-180)	0.5, 50.7
NOMINAL FLUX (lm)	41506.9	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 48.3
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	2083	2080	2078	2079	2079	2085	2086	2087	0- 10	1990	1990	4.8,4.8
20	2046	2028	2018	2016	2021	2057	2066	2057	10- 20	5850	7841	18.9,18.9
30	1913	1883	1859	1833	1829	1891	1915	1906	20- 30	9118	16958	40.9,40.9
40	1488	1484	1384	1292	1204	1284	1351	1373	30- 40	10395	27354	65.9,65.9
50	712.0	700.5	651.0	597.5	530.5	562.7	590.3	636.2	40- 50	7349	34703	83.6,83.6
60	308.1	302.1	288.4	266.2	229.8	238.6	253.0	283.0	50- 60	3764	38467	92.7,92.7
70	129.9	127.1	121.6	110.7	92.36	94.80	101.5	117.4	60- 70	1791	40258	97,97
80	42.63	42.96	39.31	33.01	23.10	22.64	25.20	32.72	70- 80	715.5	40974	98.7,98.7
90	1.595	1.879	1.571	1.729	1.526	1.509	1.356	1.495	80- 90	134.9	41108	99,99
100	1.805	1.869	1.959	2.048	2.105	2.046	1.977	1.842	90-100	17.48	41126	99.1,99.1
110	3.220	3.322	3.483	3.570	3.693	3.568	3.484	3.248	100-110	28.01	41154	99.1,99.1
120	5.141	5.259	5.499	5.547	5.729	5.528	5.468	5.144	110-120	43.55	41198	99.3,99.3
130	7.343	7.436	7.776	7.739	8.007	7.727	7.747	7.324	120-130	58.26	41256	99.4,99.4
140	9.485	9.607	9.869	9.936	10.20	10.00	9.904	9.620	130-140	67.46	41323	99.6,99.6
150	11.38	11.48	11.69	11.81	12.19	11.94	11.83	11.66	140-150	67.61	41391	99.7,99.7
160	13.42	13.46	13.76	13.76	14.33	14.03	13.99	13.76	150-160	58.76	41450	99.9,99.9
170	15.55	15.53	15.82	15.74	16.17	15.91	15.96	15.71	160-170	41.80	41491	100,100
180	16.87	16.70	16.86	16.70	16.86	16.71	16.86	16.70	170-180	15.51	41507	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 31589 lm

%lum = 76.1%

%lamp = 76.1%

Conical surface Flux(120deg): 38467 lm

%lum = 92.7%

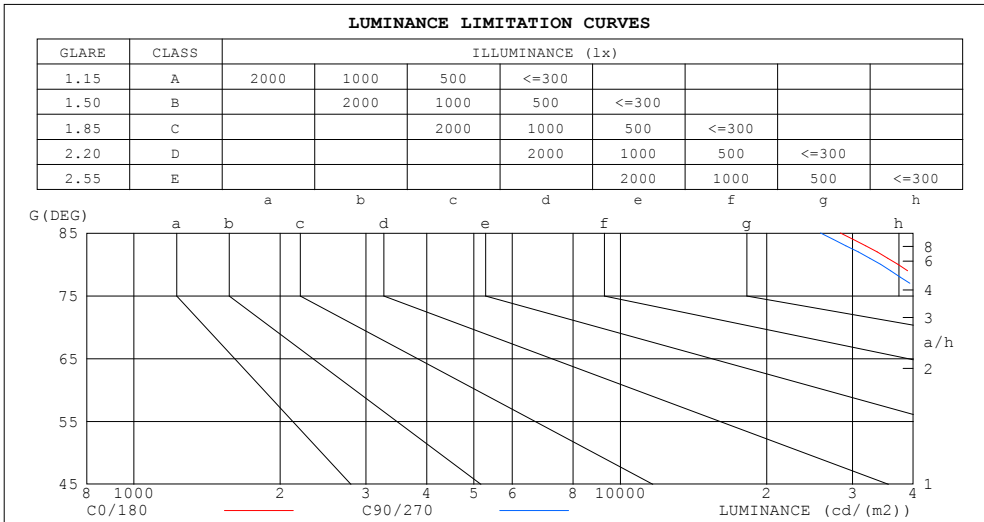
%lamp = 92.7%

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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	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	28343	25793
80	37199	34299
75	46627	43346
70	57542	53851
65	72119	67737
60	93363	87404
55	123349	114617
50	167828	153445
45	228183	209015

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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	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	.233 .133 .042	.226 .129 .041	.213 .122 .039	.200 .116 .037	.189 .110 .035	
2.0	.226 .124 .038	.220 .121 .037	.209 .116 .036	.198 .111 .035	.188 .106 .034	
3.0	.215 .115 .034	.210 .112 .034	.200 .108 .033	.190 .104 .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	.188 .097 .028	.180 .094 .028	.173 .091 .027	.166 .089 .027	
6.0	.182 .091 .026	.178 .090 .026	.171 .088 .026	.164 .085 .025	.158 .083 .025	
7.0	.172 .085 .024	.169 .084 .024	.162 .082 .024	.156 .080 .023	.151 .078 .023	
8.0	.163 .080 .022	.160 .079 .022	.154 .077 .022	.149 .075 .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	.144 .070 .019	.140 .068 .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 .011	
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	.109 .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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm										
NAME: ASD-UHB3-300ADAC-BK-300W4000K					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	30.5	29.5	30.7	30.9	28.9	30.2	29.2	30.4	30.6
3H	29.5	30.6	29.8	30.9	31.1	29.2	30.3	29.5	30.6	30.8
4H	29.5	30.6	29.9	30.9	31.1	29.3	30.3	29.6	30.6	30.9
6H	29.6	30.6	29.9	30.9	31.1	29.3	30.3	29.6	30.6	30.9
8H	29.6	30.5	29.9	30.8	31.1	29.3	30.2	29.6	30.5	30.8
12H	29.5	30.5	29.9	30.8	31.1	29.2	30.2	29.6	30.5	30.8
4H 2H	29.2	30.3	29.6	30.6	30.8	29.0	30.1	29.3	30.4	30.6
3H	29.6	30.6	30.0	30.9	31.2	29.4	30.3	29.7	30.6	30.9
4H	29.8	30.6	30.2	30.9	31.3	29.5	30.4	29.9	30.7	31.0
6H	29.9	30.6	30.3	31.0	31.3	29.6	30.3	30.0	30.7	31.1
8H	29.9	30.6	30.3	30.9	31.3	29.6	30.3	30.0	30.7	31.1
12H	29.9	30.5	30.3	30.9	31.3	29.6	30.2	30.0	30.6	31.0
8H 4H	29.8	30.4	30.2	30.8	31.2	29.5	30.2	29.9	30.6	31.0
6H	29.9	30.5	30.4	30.9	31.3	29.7	30.2	30.1	30.6	31.1
8H	29.9	30.4	30.4	30.9	31.3	29.7	30.2	30.2	30.6	31.1
12H	30.0	30.4	30.5	30.9	31.3	29.7	30.1	30.2	30.6	31.1
12H 4H	29.7	30.4	30.2	30.7	31.2	29.5	30.1	29.9	30.5	30.9
6H	29.9	30.4	30.4	30.8	31.3	29.6	30.1	30.1	30.6	31.0
8H	29.9	30.4	30.4	30.8	31.3	29.7	30.1	30.2	30.6	31.1
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 / - 1.9					+ 2.3 / - 1.8				

CIE Pub.117, 41507 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.9$)

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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

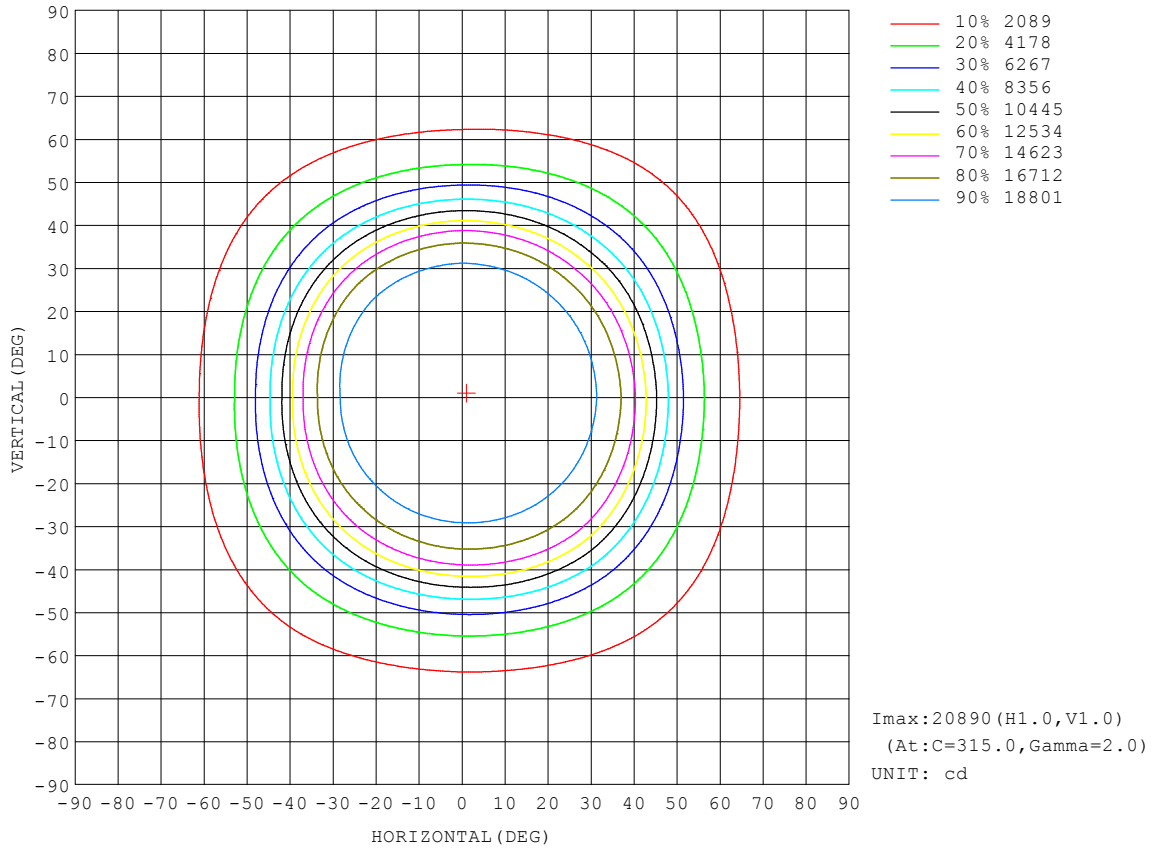
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	69	60	55	68	60	55	49
0.80	80	71	65	79	70	65	77	69	64	59
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	85	80	92	85	80	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	95	91	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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

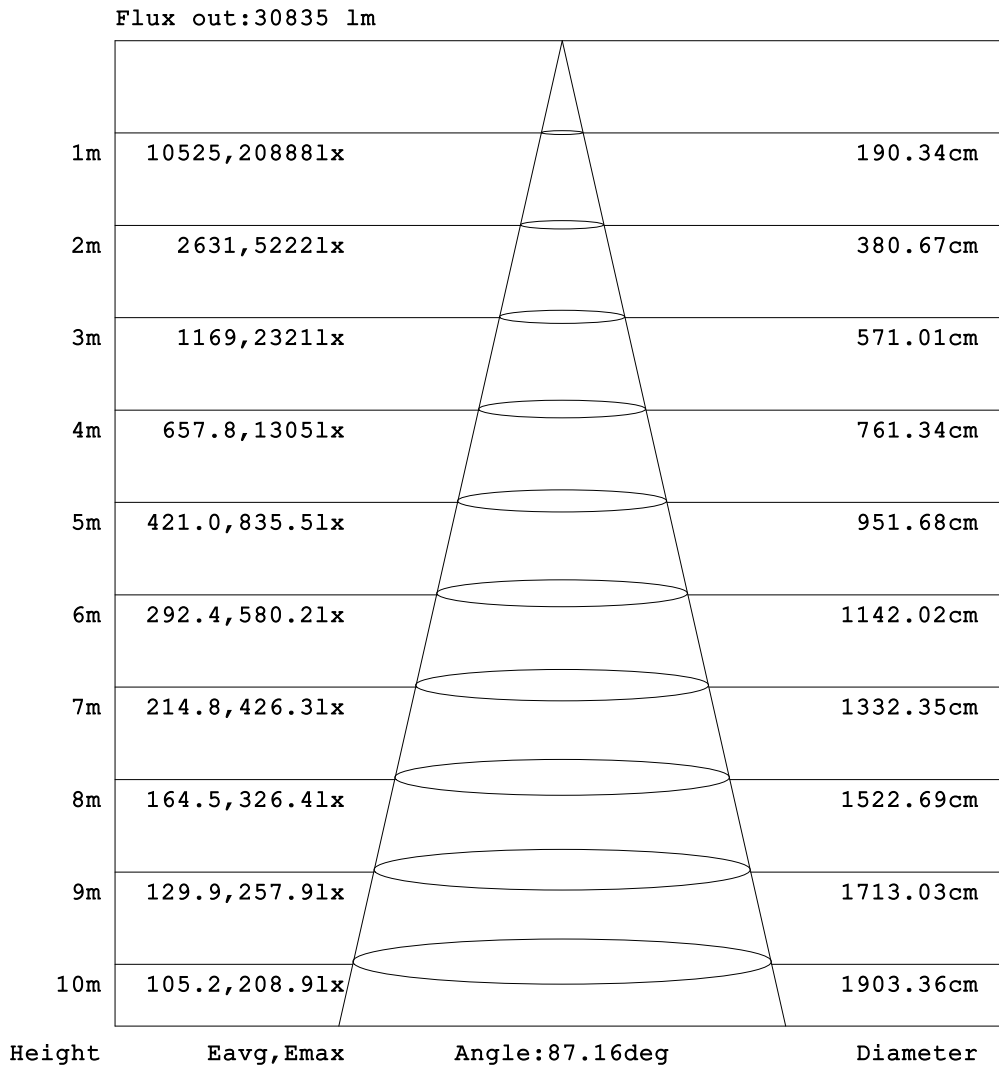


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu
 Test Date: 2023-05-04

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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

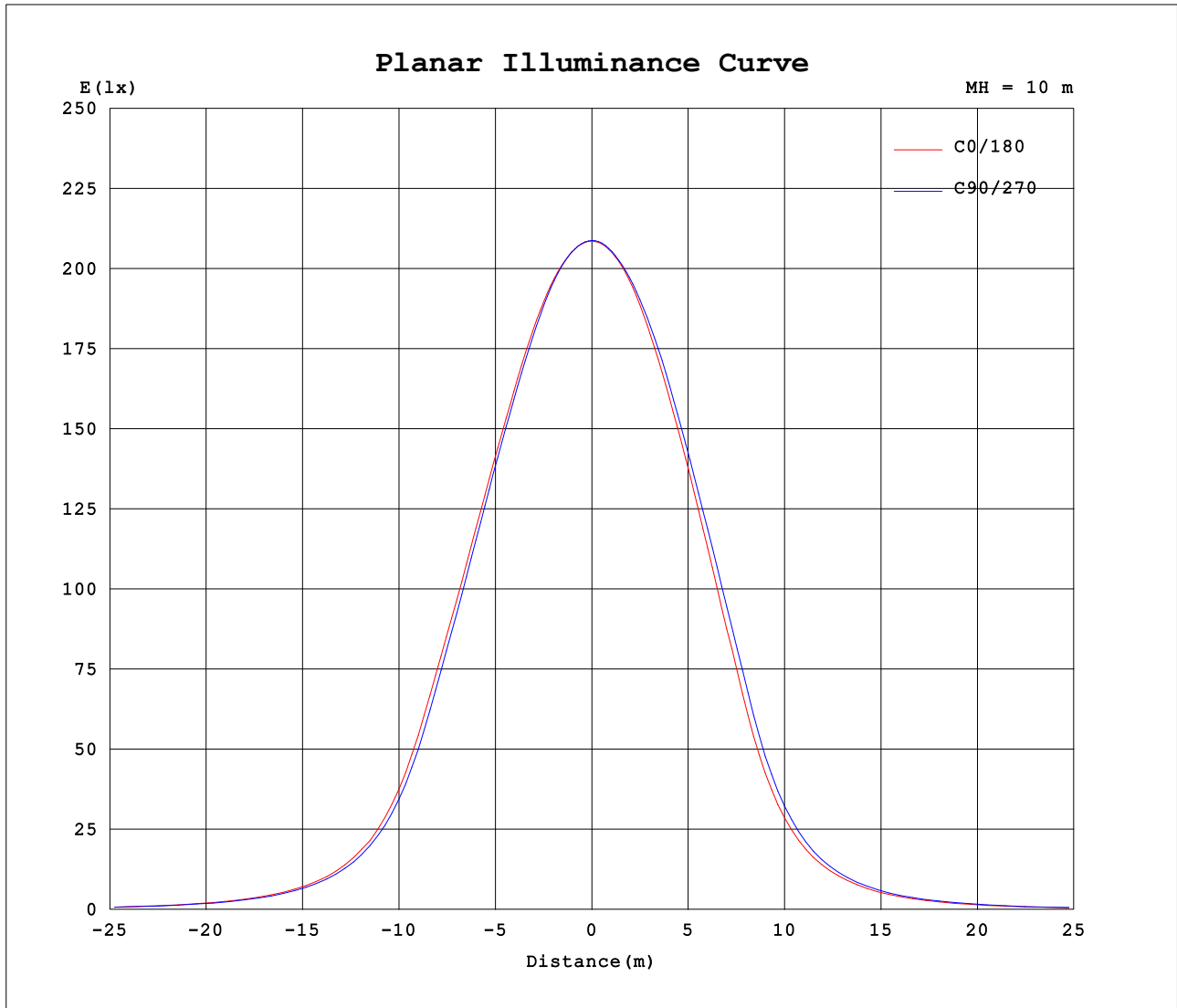


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:2.227A P:268.8W PF:0.9965 Freq:59.98Hz Lamp Flux:41506.9x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W4000K	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	2086	2087	2088	2089	2086	2087	2088	2089											
5	2086	2085	2086	2086	2085	2087	2088	2088											
10	2083	2080	2078	2079	2079	2085	2086	2087											
15	2074	2063	2057	2057	2061	2078	2083	2080											
20	2046	2028	2018	2016	2021	2057	2066	2057											
25	1997	1975	1960	1952	1956	2003	2015	2004											
30	1913	1883	1859	1833	1829	1891	1915	1906											
35	1760	1729	1684	1628	1594	1682	1722	1722											
40	1488	1484	1384	1292	1204	1284	1351	1373											
45	1065	1064	975	897	810	862	913	951											
50	712	700	651	598	531	563	590	636											
55	467	457	434	400	351	367	387	426											
60	308	302	288	266	230	239	253	283											
65	201	198	189	174	148	153	163	185											
70	130	127	122	111	92.4	94.8	101	117											
75	79.6	78.8	74.0	65.5	51.7	52.0	56.5	67.5											
80	42.6	43.0	39.3	33.0	23.1	22.6	25.2	32.7											
85	16.3	15.6	14.8	9.45	4.81	4.42	5.27	7.98											
90	1.60	1.88	1.57	1.73	1.53	1.51	1.36	1.50											
95	1.45	1.61	1.53	1.66	1.54	1.51	1.45	1.49											
100	1.80	1.87	1.96	2.05	2.10	2.05	1.98	1.84											
105	2.44	2.52	2.64	2.74	2.83	2.74	2.65	2.48											
110	3.22	3.32	3.48	3.57	3.69	3.57	3.48	3.25											
115	4.13	4.24	4.44	4.51	4.66	4.51	4.43	4.15											
120	5.14	5.26	5.50	5.55	5.73	5.53	5.47	5.14											
125	6.22	6.34	6.63	6.64	6.85	6.61	6.59	6.21											
130	7.34	7.44	7.78	7.74	8.01	7.73	7.75	7.32											
135	8.45	8.49	8.87	8.83	9.13	8.88	8.85	8.46											
140	9.49	9.61	9.87	9.94	10.2	10.0	9.90	9.62											
145	10.4	10.6	10.8	10.9	11.2	11.0	10.9	10.7											
150	11.4	11.5	11.7	11.8	12.2	11.9	11.8	11.7											
155	12.4	12.4	12.7	12.7	13.2	13.0	12.9	12.7											
160	13.4	13.5	13.8	13.8	14.3	14.0	14.0	13.8											
165	14.5	14.5	14.9	14.8	15.4	15.1	15.1	14.8											
170	15.6	15.5	15.8	15.7	16.2	15.9	16.0	15.7											
175	16.4	16.3	16.5	16.4	16.7	16.5	16.6	16.4											
180	16.9	16.7	16.9	16.7	16.9	16.7	16.9	16.7											

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: