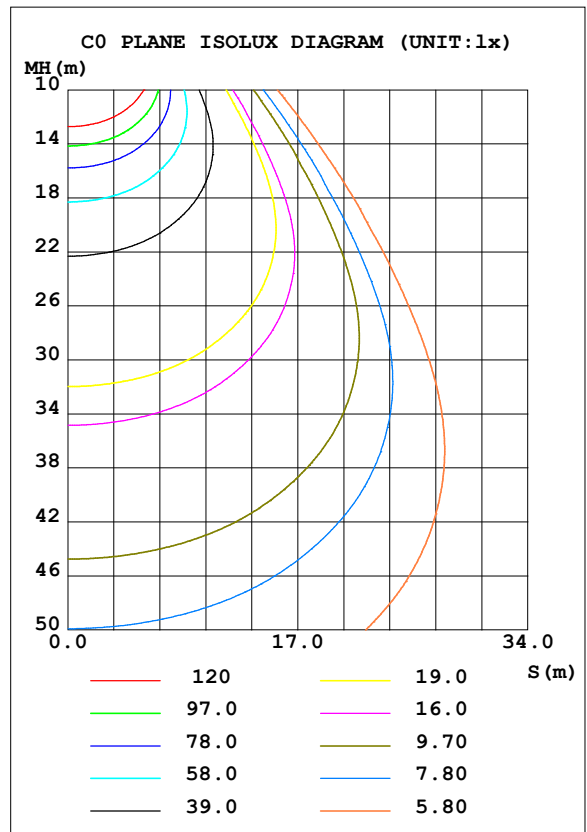
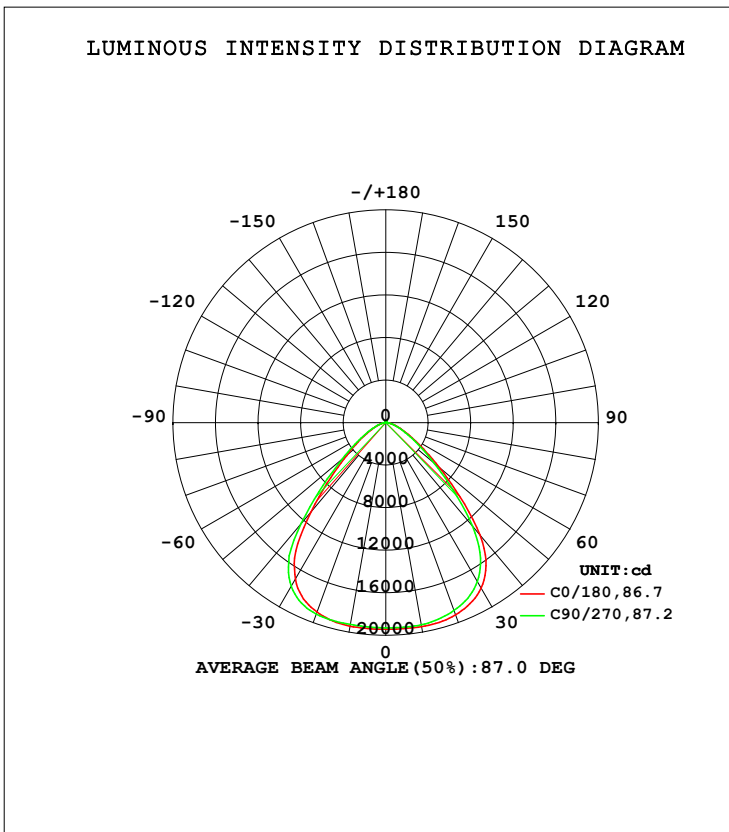


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.1V I:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 140.67 lm/W			
MODEL		I _{max} (cd)	19466	S/MH (C0/180)	1.19
NOMINAL POWER (W)	300	LOR (%)	101.6	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	41429	<input type="checkbox"/> UP, DN (C0-180)	0.5, 51.7
NOMINAL FLUX (lm)	41429	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 49.0
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.7	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:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1946	1938	1929	1923	1943	1935	1926	1924	0- 10	1845	1845	4.81,4.89
20	1923	1898	1878	1869	1894	1917	1916	1905	10- 20	5444	7289	19,19.3
30	1795	1760	1723	1688	1700	1761	1778	1766	20- 30	8493	15782	41.1,41.8
40	1378	1373	1268	1174	1092	1168	1235	1255	30- 40	9610	25393	66.2,67.3
50	662.7	646.9	599.2	541.3	482.5	511.6	539.8	584.6	40- 50	6732	32124	83.7,85.1
60	286.5	278.3	265.2	240.9	207.9	214.6	231.2	261.3	50- 60	3453	35577	92.7,94.3
70	120.8	116.7	111.2	99.99	83.22	84.89	92.26	108.1	60- 70	1637	37214	97,98.6
80	39.87	39.56	36.00	29.71	20.73	20.19	22.98	30.22	70- 80	652.4	37867	98.7,100
90	1.505	1.758	1.439	1.591	1.450	1.400	1.259	1.363	80- 90	124.1	37991	99,101
100	1.650	1.709	1.797	1.887	1.964	1.894	1.821	1.679	90-100	16.11	38007	99.1,101
110	2.949	3.046	3.198	3.289	3.445	3.307	3.210	2.965	100-110	25.79	38033	99.1,101
120	4.729	4.844	5.063	5.114	5.351	5.130	5.052	4.705	110-120	40.17	38073	99.3,101
130	6.781	6.871	7.167	7.144	7.487	7.179	7.163	6.719	120-130	53.84	38127	99.4,101
140	8.795	8.917	9.109	9.197	9.554	9.286	9.186	8.849	130-140	62.50	38189	99.6,101
150	10.57	10.67	10.81	10.94	11.41	11.11	10.99	10.73	140-150	62.71	38252	99.7,101
160	12.45	12.51	12.72	12.74	13.41	13.04	12.98	12.67	150-160	54.51	38306	99.9,102
170	14.47	14.43	14.62	14.56	15.14	14.78	14.81	14.48	160-170	38.78	38345	100,102
180	15.72	15.54	15.61	15.44	15.77	15.51	15.64	15.42	170-180	14.40	38359	100,102
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 29268 lm

%lum = 76.3%

%lamp = 77.6%

Conical surface Flux(120deg): 35577 lm

%lum = 92.7%

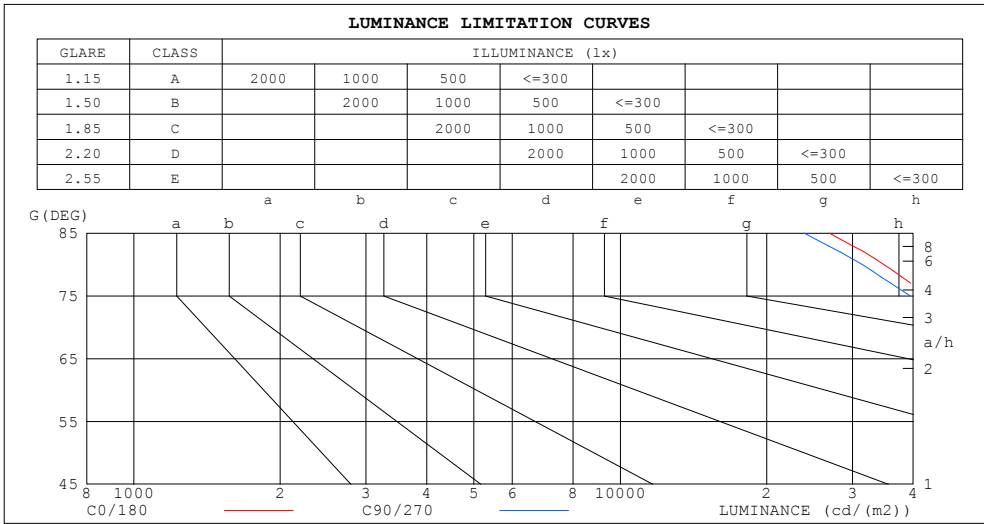
%lamp = 94.3%

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:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	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:

WEC AND CCEC

Test:U:121.1V I:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	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	.237 .135 .043	.229 .131 .042	.216 .124 .040	.203 .117 .038	.192 .111 .036	
2.0	.230 .126 .039	.223 .123 .038	.211 .118 .037	.201 .113 .035	.190 .108 .034	
3.0	.218 .116 .035	.213 .114 .034	.203 .110 .033	.193 .106 .032	.184 .102 .032	
4.0	.207 .107 .032	.202 .106 .031	.193 .102 .031	.184 .099 .030	.176 .096 .029	
5.0	.195 .100 .029	.191 .098 .029	.183 .095 .028	.175 .093 .028	.168 .090 .027	
6.0	.185 .093 .026	.181 .091 .026	.174 .089 .026	.167 .087 .025	.161 .085 .025	
7.0	.175 .086 .024	.171 .085 .024	.165 .083 .024	.159 .081 .024	.153 .079 .023	
8.0	.165 .081 .023	.162 .080 .023	.156 .078 .022	.151 .077 .022	.146 .075 .022	
9.0	.157 .076 .021	.154 .075 .021	.149 .074 .021	.144 .072 .021	.139 .071 .020	
10.0	.149 .071 .020	.147 .071 .020	.142 .069 .020	.137 .068 .019	.133 .067 .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	.201 .201 .201	.172 .172 .172	.117 .117 .117	.067 .067 .067	.022 .022 .022	
1.0	.185 .167 .150	.159 .143 .129	.108 .099 .089	.062 .057 .052	.020 .018 .017	
2.0	.174 .142 .115	.149 .122 .100	.102 .085 .070	.059 .049 .041	.019 .016 .013	
3.0	.164 .123 .091	.141 .106 .079	.097 .074 .055	.056 .043 .033	.018 .014 .011	
4.0	.156 .109 .074	.134 .094 .064	.092 .066 .045	.053 .039 .027	.017 .013 .009	
5.0	.148 .098 .061	.127 .085 .053	.088 .059 .038	.051 .035 .022	.016 .011 .007	
6.0	.141 .089 .052	.121 .077 .045	.084 .054 .032	.049 .032 .019	.016 .010 .006	
7.0	.135 .082 .045	.116 .071 .039	.080 .050 .028	.047 .029 .017	.015 .010 .005	
8.0	.129 .076 .040	.111 .066 .035	.077 .046 .025	.045 .027 .015	.014 .009 .005	
9.0	.124 .071 .036	.107 .062 .031	.074 .043 .022	.043 .026 .013	.014 .008 .004	
10.0	.119 .067 .032	.102 .058 .028	.071 .041 .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:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm										
NAME: ASD-UHB3-300ADAC-BK-300W3000K					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	29.0	30.2	29.2	30.4	30.6	28.7	29.9	28.9	30.1	30.3
3H	29.2	30.4	29.5	30.6	30.9	28.9	30.1	29.2	30.3	30.5
4H	29.3	30.4	29.6	30.6	30.9	29.0	30.1	29.3	30.3	30.6
6H	29.3	30.3	29.7	30.6	30.9	29.0	30.0	29.3	30.3	30.6
8H	29.3	30.3	29.7	30.6	30.9	29.0	29.9	29.3	30.2	30.5
12H	29.3	30.2	29.6	30.5	30.8	28.9	29.9	29.3	30.2	30.5
4H 2H	29.0	30.1	29.3	30.3	30.6	28.7	29.8	29.0	30.1	30.3
3H	29.4	30.3	29.7	30.6	30.9	29.1	30.0	29.4	30.3	30.6
4H	29.5	30.4	29.9	30.7	31.0	29.2	30.1	29.6	30.4	30.7
6H	29.6	30.4	30.0	30.7	31.1	29.3	30.0	29.7	30.4	30.8
8H	29.6	30.3	30.0	30.7	31.1	29.3	30.0	29.7	30.4	30.8
12H	29.6	30.3	30.1	30.6	31.1	29.3	29.9	29.7	30.3	30.7
8H 4H	29.5	30.2	29.9	30.6	31.0	29.2	29.9	29.6	30.3	30.7
6H	29.7	30.2	30.1	30.6	31.1	29.4	29.9	29.8	30.3	30.8
8H	29.7	30.2	30.2	30.6	31.1	29.4	29.9	29.9	30.3	30.8
12H	29.7	30.1	30.2	30.6	31.1	29.4	29.8	29.9	30.3	30.8
12H 4H	29.5	30.1	29.9	30.5	30.9	29.2	29.8	29.6	30.2	30.6
6H	29.6	30.1	30.1	30.6	31.0	29.3	29.8	29.8	30.3	30.7
8H	29.7	30.1	30.2	30.6	31.1	29.4	29.8	29.9	30.3	30.8
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, 37737 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.6)

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:

UTILIZATION FACTORS TABLE

Test:U:121.1V I:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

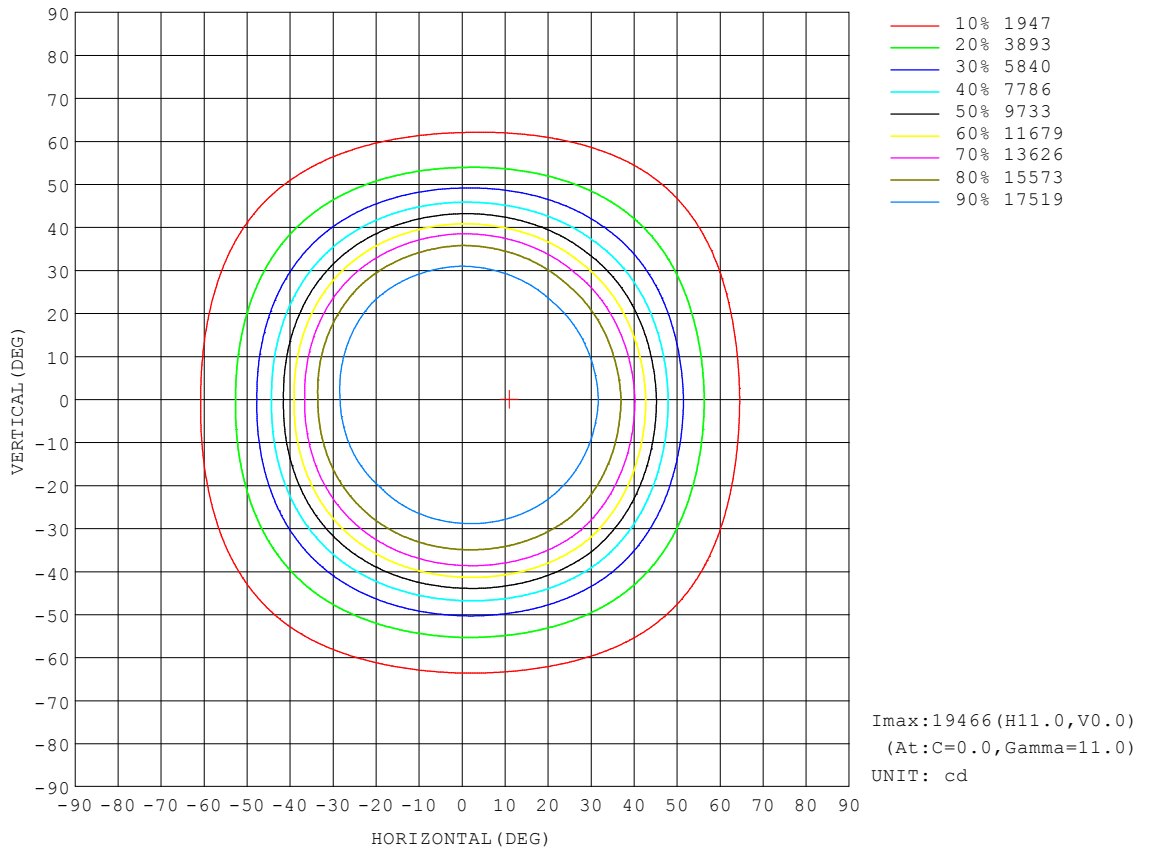
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	62	56	71	62	56	70	61	56	51
0.80	81	72	66	80	72	66	79	71	66	60
1.00	89	80	75	88	80	74	85	80	74	68
1.25	95	87	82	93	86	81	91	85	80	74
1.50	99	92	86	97	91	86	95	89	85	78
2.00	104	98	93	102	96	92	99	94	90	84
2.50	107	101	96	105	100	96	101	97	93	86
3.00	109	104	100	107	102	99	103	100	96	89
4.00	112	108	104	110	106	103	105	103	100	92
5.00	114	110	107	111	108	105	107	104	102	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: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:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

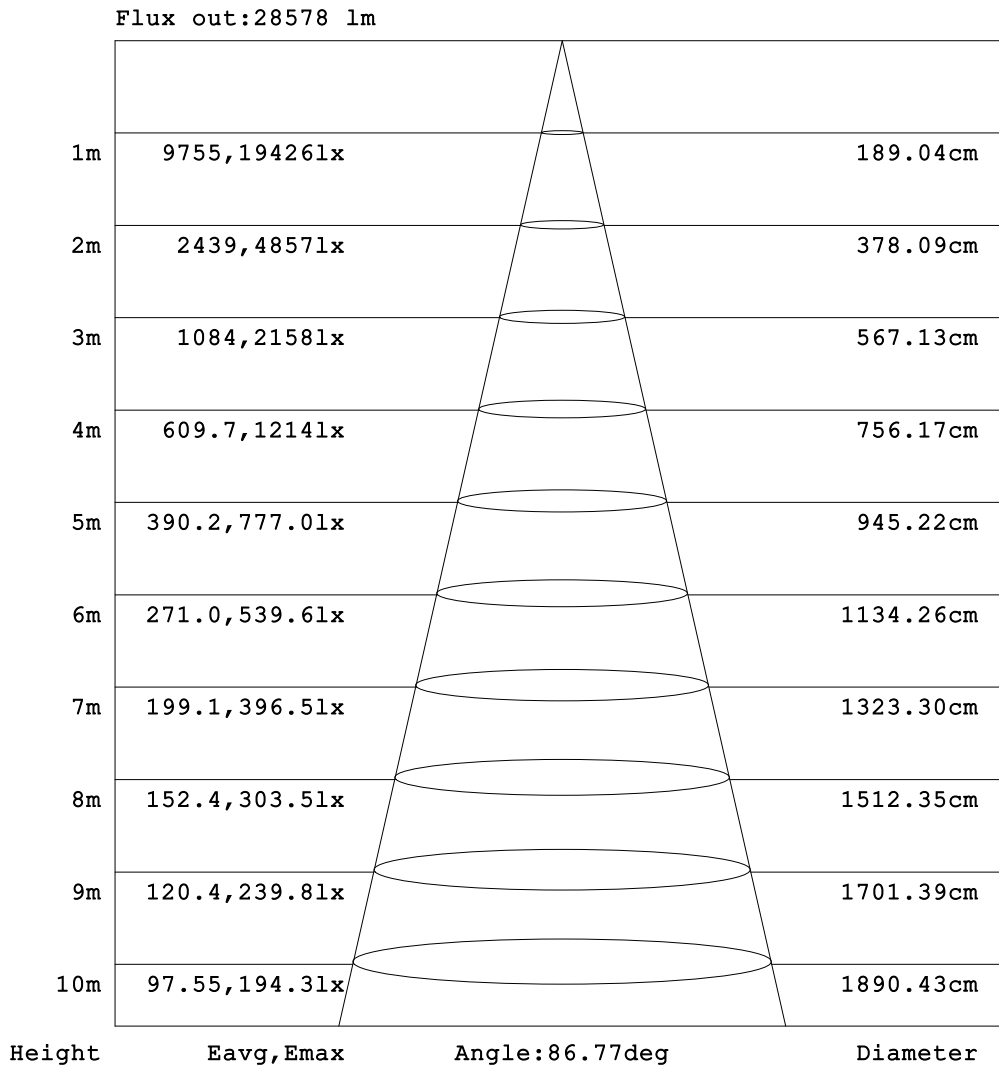


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

□ 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:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

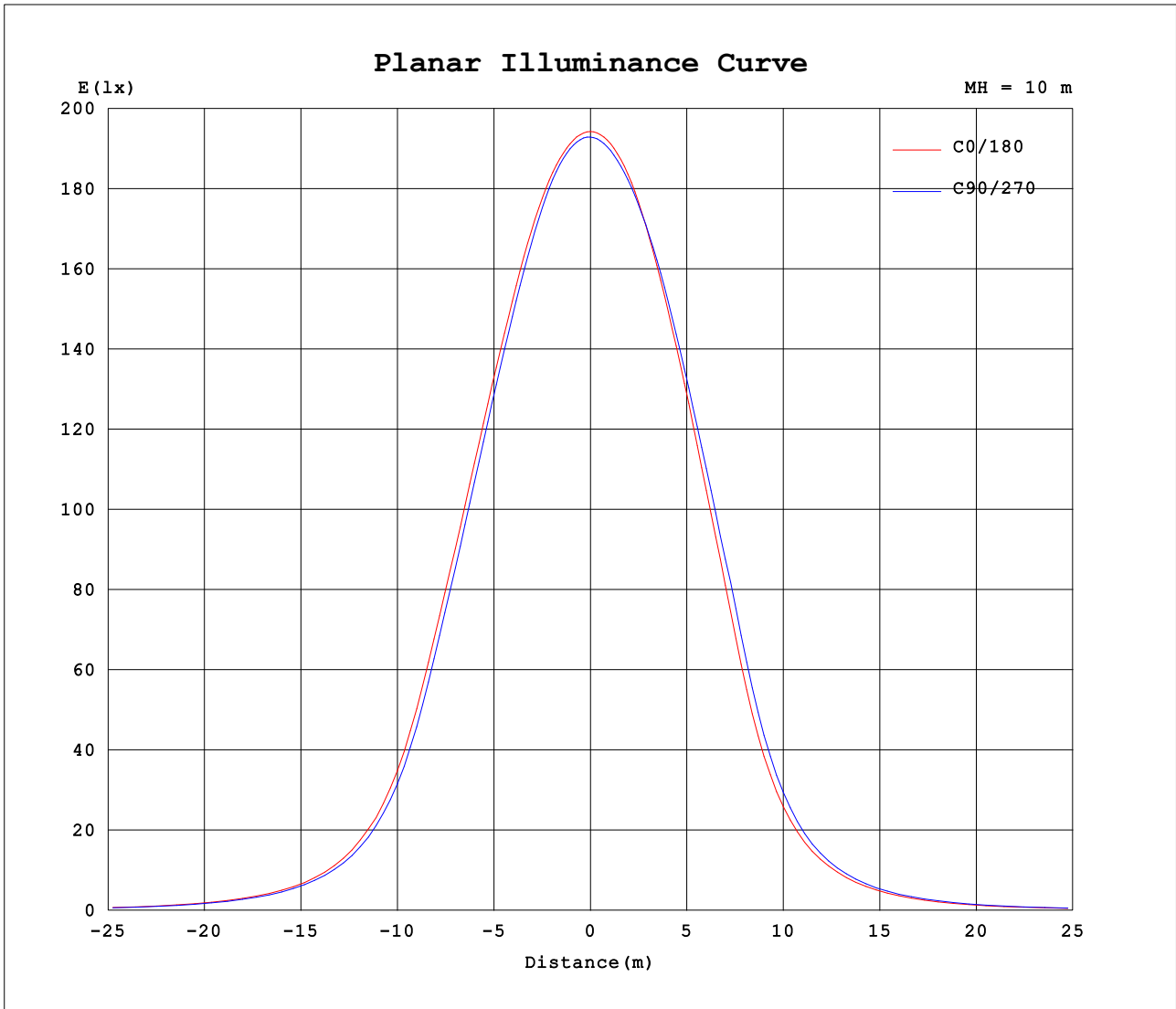


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:2.308A P:294.5W PF:0.9967 Freq:59.98Hz Lamp Flux:41429x1 lm		
NAME: ASD-UHB3-300ADAC-BK-300W3000K	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	1943	1935	1929	1924	1943	1935	1929	1924										
5	1944	1938	1931	1925	1943	1934	1927	1922										
10	1946	1938	1929	1923	1943	1935	1926	1924										
15	1943	1928	1914	1906	1930	1932	1927	1923										
20	1923	1898	1878	1869	1894	1917	1916	1905										
25	1878	1848	1822	1806	1830	1868	1873	1859										
30	1795	1760	1723	1688	1700	1761	1778	1766										
35	1643	1612	1554	1506	1476	1551	1593	1586										
40	1378	1373	1268	1174	1092	1168	1235	1255										
45	988	986	895	812	734	784	834	871										
50	663	647	599	541	482	512	540	585										
55	434	421	400	363	320	332	354	392										
60	287	278	265	241	208	215	231	261										
65	187	182	173	156	133	138	148	171										
70	121	117	111	100.0	83.2	84.9	92.3	108										
75	74.3	72.1	67.4	59.0	46.5	46.4	51.3	62.1										
80	39.9	39.6	36.0	29.7	20.7	20.2	23.0	30.2										
85	15.5	14.6	13.7	8.48	4.20	3.85	4.79	7.85										
90	1.50	1.76	1.44	1.59	1.45	1.40	1.26	1.36										
95	1.33	1.48	1.40	1.52	1.44	1.40	1.34	1.36										
100	1.65	1.71	1.80	1.89	1.96	1.89	1.82	1.68										
105	2.22	2.31	2.42	2.52	2.64	2.54	2.45	2.25										
110	2.95	3.05	3.20	3.29	3.45	3.31	3.21	2.97										
115	3.79	3.90	4.08	4.16	4.35	4.18	4.09	3.79										
120	4.73	4.84	5.06	5.11	5.35	5.13	5.05	4.71										
125	5.74	5.85	6.10	6.12	6.40	6.14	6.09	5.69										
130	6.78	6.87	7.17	7.14	7.49	7.18	7.16	6.72										
135	7.82	7.88	8.18	8.18	8.55	8.26	8.20	7.77										
140	8.79	8.92	9.11	9.20	9.55	9.29	9.19	8.85										
145	9.70	9.84	9.96	10.1	10.5	10.2	10.1	9.82										
150	10.6	10.7	10.8	10.9	11.4	11.1	11.0	10.7										
155	11.5	11.6	11.7	11.8	12.4	12.0	11.9	11.7										
160	12.5	12.5	12.7	12.7	13.4	13.0	13.0	12.7										
165	13.5	13.5	13.7	13.7	14.4	14.0	14.0	13.6										
170	14.5	14.4	14.6	14.6	15.1	14.8	14.8	14.5										
175	15.3	15.2	15.3	15.2	15.7	15.3	15.4	15.1										
180	15.7	15.5	15.6	15.4	15.8	15.5	15.6	15.4										

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: