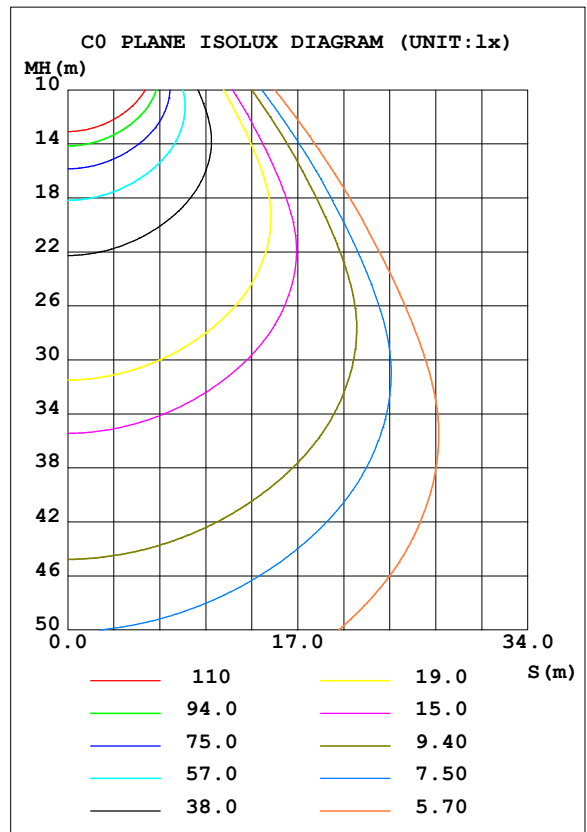
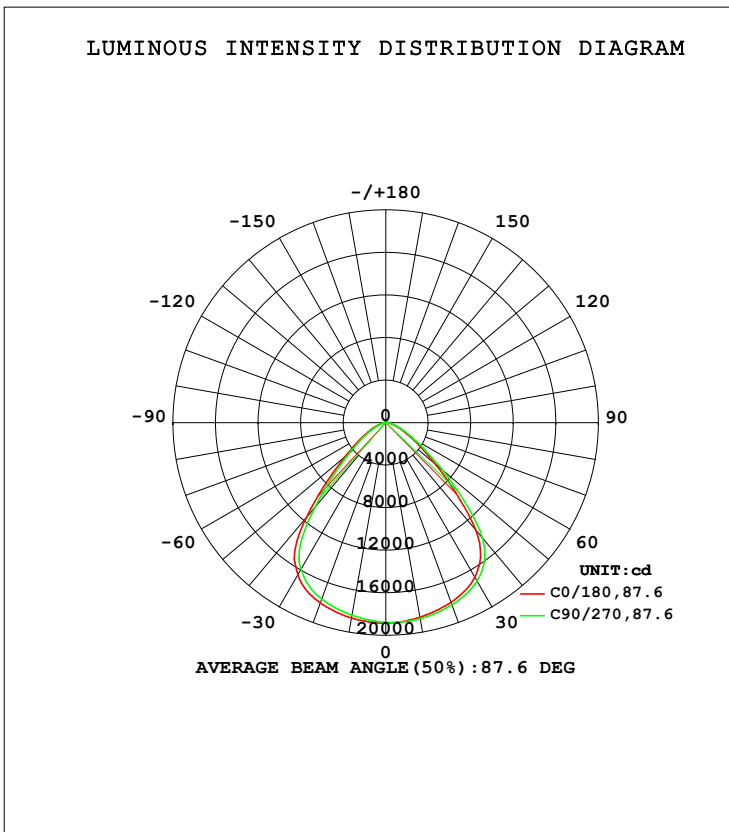


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-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: 142.42 lm/W			
MODEL		I _{max} (cd)	18846	S/MH (C0/180)	1.23
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	42244	<input type="checkbox"/> UP, DN (C0-180)	0.5, 53.1
NOMINAL FLUX (lm)	42244	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 45.9
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	1.30



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	1858	1864	1871	1869	1864	1849	1838	1835	0- 10	1782	1782	4.79,4.79
20	1796	1809	1821	1821	1803	1781	1764	1765	10- 20	5174	6957	18.7,18.7
30	1677	1701	1719	1711	1653	1614	1591	1606	20- 30	8027	14984	40.3,40.3
40	1317	1397	1415	1381	1158	1058	1038	1092	30- 40	9297	24281	65.2,65.2
50	616.1	681.1	703.0	655.0	507.8	474.8	449.6	488.9	40- 50	6730	31011	83.3,83.3
60	265.8	298.2	301.9	279.5	222.7	206.4	194.1	211.9	50- 60	3449	34460	92.6,92.6
70	111.7	123.8	126.7	116.0	90.23	81.66	76.81	85.85	60- 70	1632	36092	97,97
80	35.55	40.49	40.95	36.47	23.46	19.59	18.25	22.20	70- 80	647.8	36740	98.7,98.7
90	1.335	1.777	1.716	1.649	1.508	1.494	1.478	1.408	80- 90	125.1	36865	99,99
100	1.674	1.600	1.542	1.625	1.812	1.926	1.981	1.879	90-100	16.15	36882	99.1,99.1
110	2.979	2.817	2.758	2.874	3.197	3.351	3.441	3.285	100-110	25.10	36907	99.2,99.2
120	4.709	4.503	4.424	4.546	4.976	5.146	5.264	5.071	110-120	38.93	36946	99.3,99.3
130	6.675	6.418	6.334	6.438	6.982	7.113	7.288	7.043	120-130	51.86	36997	99.4,99.4
140	8.580	8.334	8.246	8.305	8.947	9.051	9.212	8.961	130-140	59.86	37057	99.6,99.6
150	10.29	10.09	9.952	9.997	10.74	10.82	10.95	10.70	140-150	59.97	37117	99.7,99.7
160	12.13	11.84	11.81	11.78	12.68	12.69	12.86	12.56	150-160	52.27	37170	99.9,99.9
170	13.99	13.70	13.75	13.68	14.37	14.30	14.48	14.18	160-170	37.20	37207	100,100
180	15.05	14.87	14.97	14.78	15.07	14.86	14.98	14.77	170-180	13.80	37221	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 28150 lm

%lum = 75.6%

%lamp = 75.6%

Conical surface Flux(120deg): 34460 lm

%lum = 92.6%

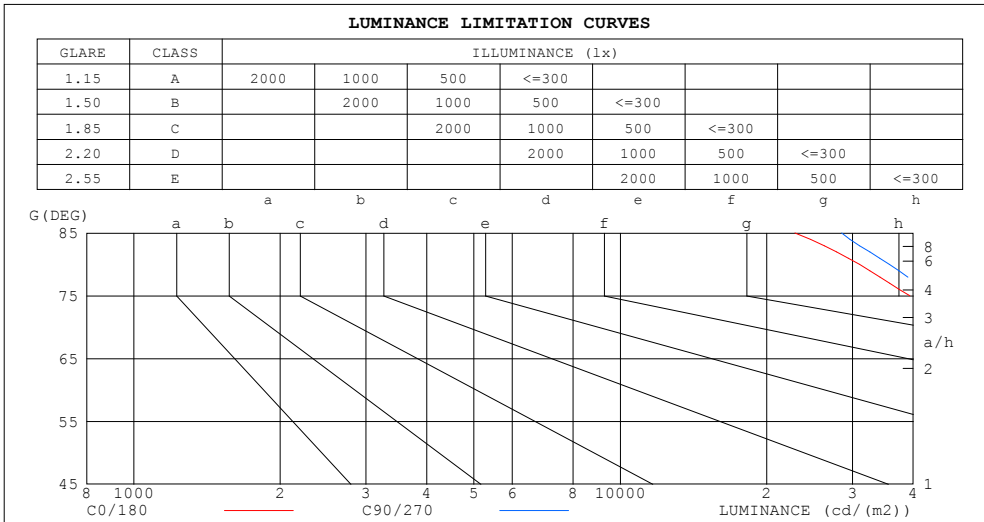
%lamp = 92.6%

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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W3000K	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	22865	28495
80	31017	35733
75	39367	44836
70	49494	56125
65	62330	70605
60	80555	91487
55	106531	120918
50	145219	165698
45	199619	224475

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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-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	.234 .133 .042	.227 .130 .041	.214 .123 .039	.201 .116 .037	.190 .110 .036	
2.0	.227 .125 .038	.221 .122 .038	.210 .117 .036	.199 .112 .035	.189 .107 .034	
3.0	.216 .115 .034	.211 .113 .034	.201 .109 .033	.191 .105 .032	.183 .101 .031	
4.0	.205 .106 .031	.200 .105 .031	.191 .101 .030	.183 .098 .030	.175 .095 .029	
5.0	.193 .099 .029	.189 .097 .028	.181 .094 .028	.174 .092 .027	.167 .089 .027	
6.0	.183 .092 .026	.179 .090 .026	.172 .088 .026	.165 .086 .025	.159 .084 .025	
7.0	.173 .085 .024	.169 .084 .024	.163 .082 .024	.157 .081 .023	.151 .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	.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	.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	.162 .121 .089	.139 .105 .077	.095 .073 .054	.055 .042 .032	.018 .014 .010	
4.0	.153 .107 .072	.132 .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 .044	.083 .053 .031	.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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-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	29.3	30.6	29.6	30.8	31.0
3H	29.2	30.3	29.5	30.6	30.8	29.6	30.8	29.9	31.0	31.2
4H	29.3	30.3	29.6	30.6	30.9	29.7	30.8	30.0	31.0	31.3
6H	29.3	30.3	29.6	30.6	30.8	29.7	30.7	30.0	31.0	31.3
8H	29.2	30.2	29.6	30.5	30.8	29.7	30.7	30.0	31.0	31.3
12H	29.2	30.2	29.6	30.5	30.8	29.7	30.6	30.0	30.9	31.2
4H 2H	29.0	30.1	29.4	30.4	30.7	29.4	30.5	29.7	30.7	31.0
3H	29.4	30.3	29.8	30.6	31.0	29.8	30.7	30.1	31.0	31.3
4H	29.5	30.4	29.9	30.7	31.0	29.9	30.8	30.3	31.1	31.4
6H	29.6	30.3	30.0	30.7	31.1	30.0	30.8	30.4	31.1	31.5
8H	29.6	30.3	30.0	30.7	31.1	30.0	30.7	30.4	31.1	31.5
12H	29.6	30.2	30.0	30.6	31.0	30.0	30.6	30.5	31.0	31.5
8H 4H	29.5	30.2	29.9	30.6	31.0	29.9	30.6	30.3	31.0	31.4
6H	29.7	30.2	30.1	30.6	31.1	30.0	30.6	30.5	31.0	31.5
8H	29.7	30.2	30.2	30.6	31.1	30.1	30.6	30.6	31.0	31.5
12H	29.7	30.1	30.2	30.6	31.1	30.1	30.5	30.6	31.0	31.5
12H 4H	29.5	30.1	29.9	30.5	30.9	29.9	30.5	30.3	30.9	31.3
6H	29.6	30.1	30.1	30.6	31.0	30.0	30.5	30.5	31.0	31.4
8H	29.7	30.1	30.2	30.6	31.1	30.1	30.5	30.6	31.0	31.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.6					+ 1.1 / - 1.4				
1.5H	+ 1.1 / - 1.1					+ 0.9 / - 1.1				
2.0H	+ 2.3 / - 1.8					+ 2.4 / - 1.9				

CIE Pub.117, 37221 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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

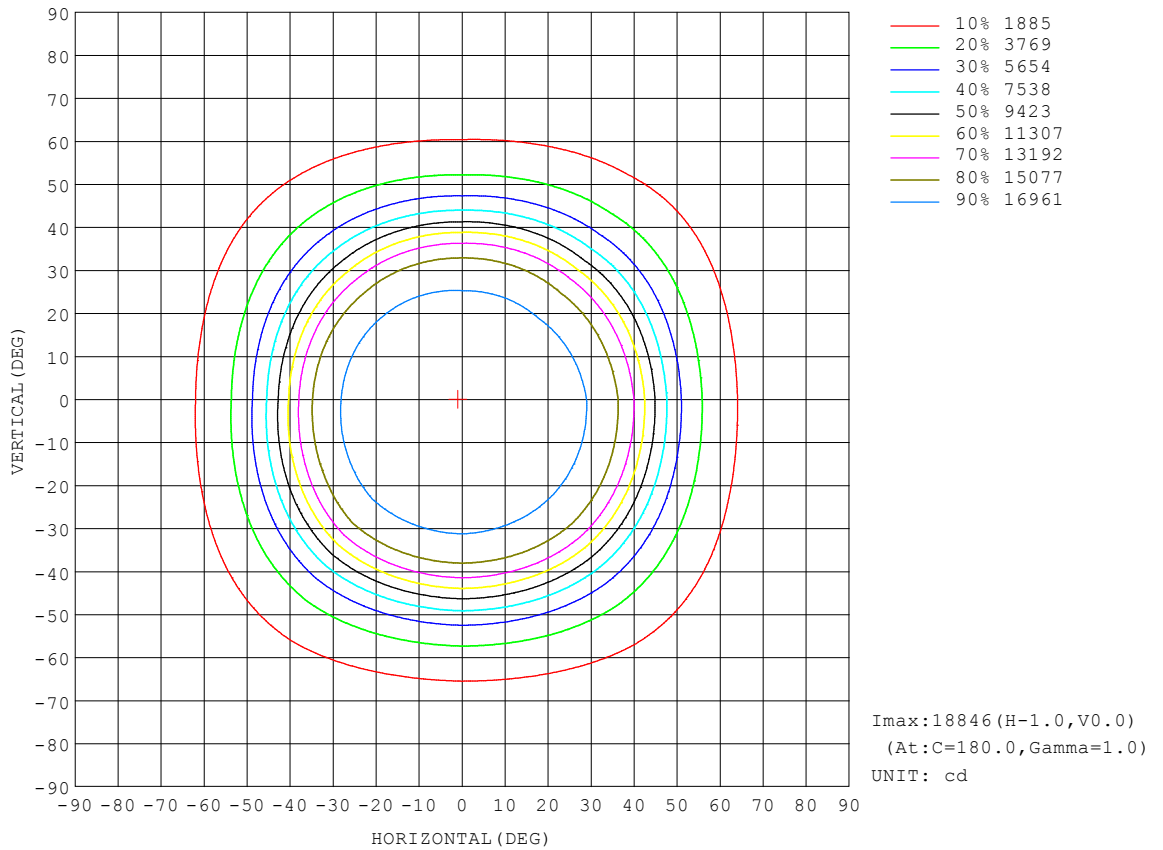
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	60	54	69	60	54	68	59	54	49
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	85	95	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	102	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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

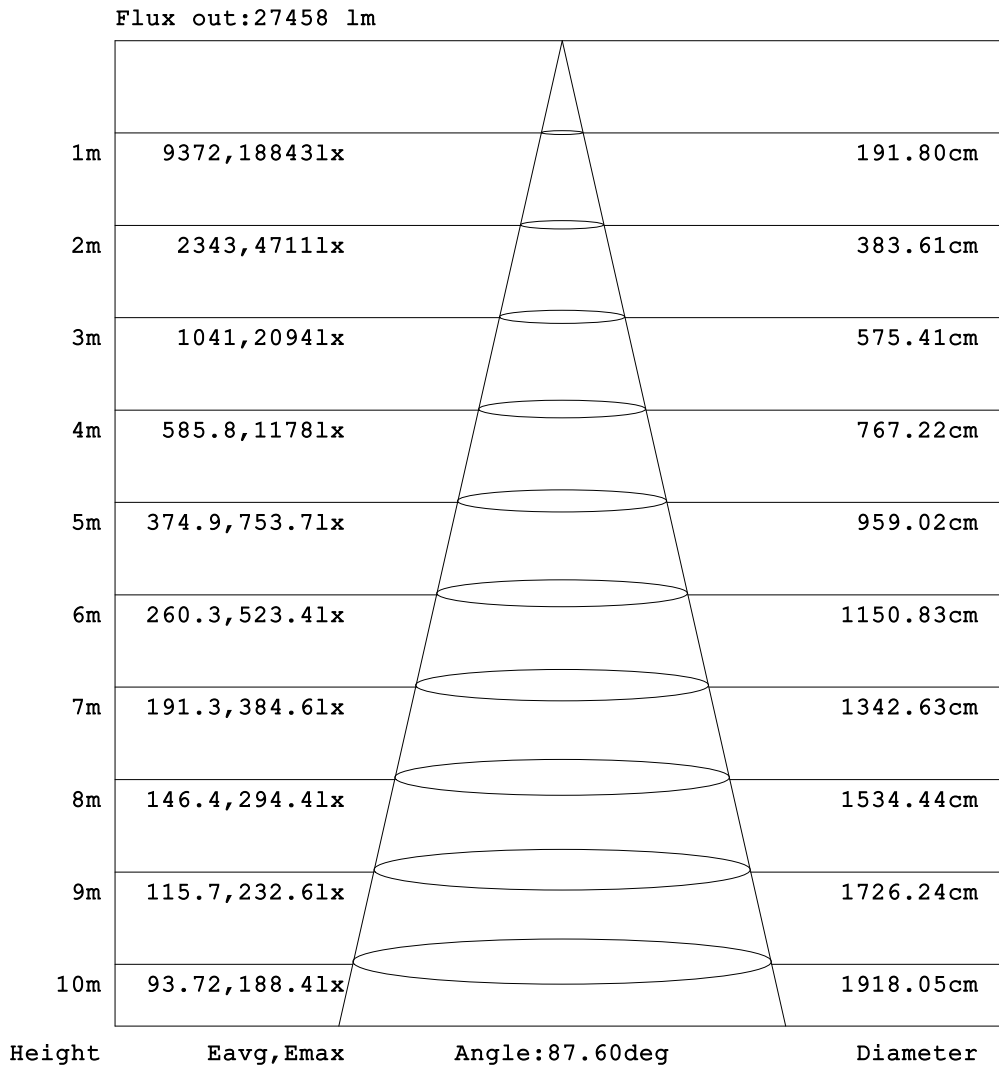


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2023-05-04

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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-300ADAC-BK-300W3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.29*0.29m	Shielding Angle:

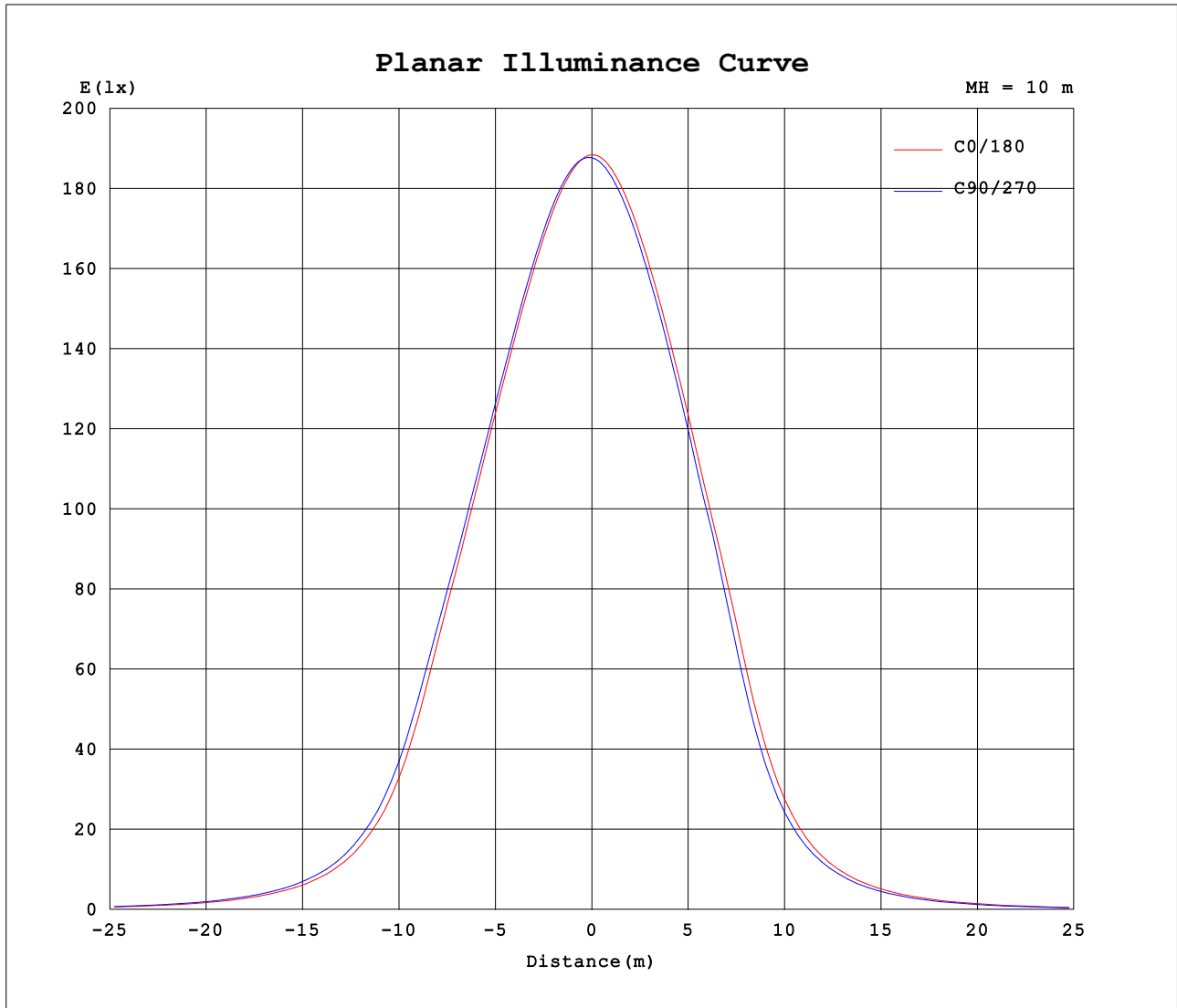


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:277.6V I:0.9871A P:296.6W PF:0.9860 Freq:59.98Hz Lamp Flux:42244x1 lm		
NAME: ASD-UHB3HV-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	1884	1880	1877	1874	1884	1880	1877	1874										
5	1876	1878	1880	1878	1880	1871	1862	1859										
10	1858	1864	1871	1869	1864	1849	1838	1835										
15	1831	1841	1851	1850	1839	1820	1806	1805										
20	1796	1809	1821	1821	1803	1781	1764	1765										
25	1750	1766	1781	1779	1749	1720	1701	1707										
30	1677	1701	1719	1711	1653	1614	1591	1606										
35	1552	1589	1611	1592	1498	1415	1401	1432										
40	1317	1397	1415	1381	1158	1058	1038	1092										
45	932	1020	1048	993	782	719	689	741										
50	616	681	703	655	508	475	450	489										
55	403	450	458	426	338	316	297	323										
60	266	298	302	279	223	206	194	212										
65	174	194	197	182	144	133	125	137										
70	112	124	127	116	90.2	81.7	76.8	85.8										
75	67.2	75.2	76.6	69.6	50.8	44.8	42.3	48.2										
80	35.5	40.5	41.0	36.5	23.5	19.6	18.3	22.2										
85	13.2	15.2	16.4	12.5	5.57	3.50	2.96	4.90										
90	1.34	1.78	1.72	1.65	1.51	1.49	1.48	1.41										
95	1.31	1.49	1.31	1.44	1.34	1.44	1.46	1.43										
100	1.67	1.60	1.54	1.63	1.81	1.93	1.98	1.88										
105	2.26	2.13	2.08	2.19	2.44	2.58	2.65	2.52										
110	2.98	2.82	2.76	2.87	3.20	3.35	3.44	3.28										
115	3.80	3.62	3.55	3.67	4.05	4.21	4.32	4.15										
120	4.71	4.50	4.42	4.55	4.98	5.15	5.26	5.07										
125	5.68	5.45	5.36	5.48	5.97	6.12	6.26	6.05										
130	6.68	6.42	6.33	6.44	6.98	7.11	7.29	7.04										
135	7.65	7.39	7.32	7.38	7.98	8.09	8.28	8.01										
140	8.58	8.33	8.25	8.30	8.95	9.05	9.21	8.96										
145	9.45	9.24	9.11	9.18	9.85	9.95	10.1	9.84										
150	10.3	10.1	9.95	10.00	10.7	10.8	11.0	10.7										
155	11.2	10.9	10.8	10.8	11.7	11.7	11.9	11.6										
160	12.1	11.8	11.8	11.8	12.7	12.7	12.9	12.6										
165	13.1	12.8	12.8	12.8	13.6	13.6	13.8	13.5										
170	14.0	13.7	13.7	13.7	14.4	14.3	14.5	14.2										
175	14.7	14.5	14.5	14.4	14.9	14.8	14.9	14.7										
180	15.0	14.9	15.0	14.8	15.1	14.9	15.0	14.8										

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: