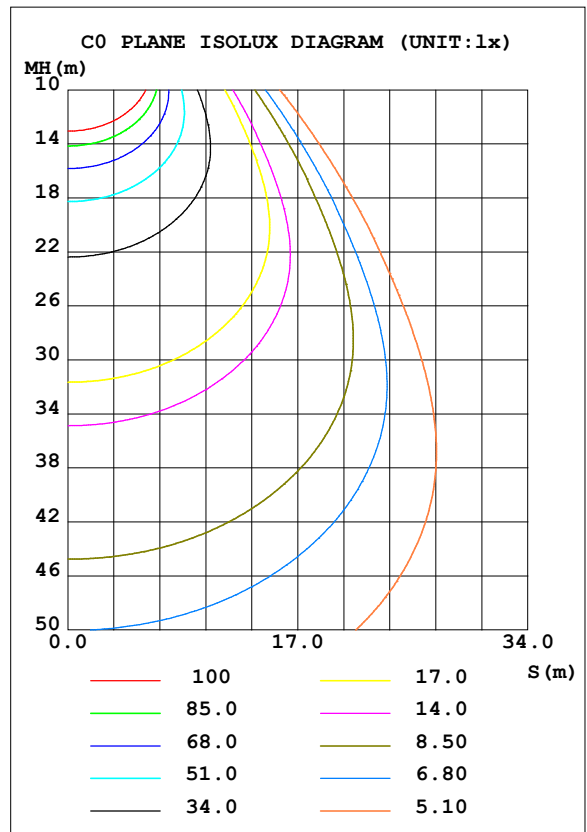
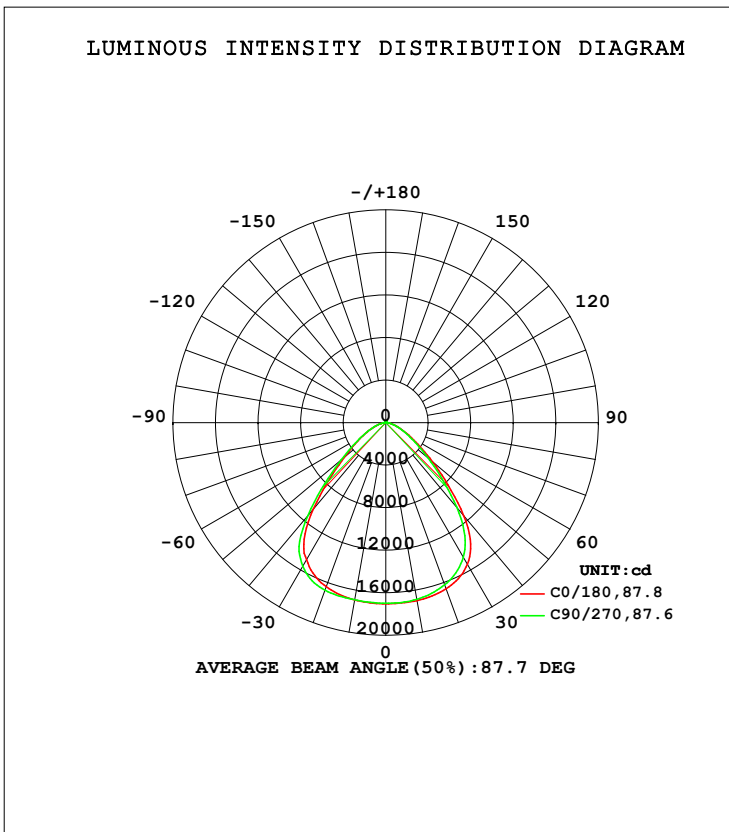


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.29*0.29m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.63 lm/W			
MODEL		I _{max} (cd)	17029	S/MH (C0/180)	1.23
NOMINAL POWER (W)	240	LOR (%)	99.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	34564	<input type="checkbox"/> UP, DN (C0-180)	0.5, 48.8
NOMINAL FLUX (lm)	34912.9	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.5, 49.2
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.9	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	98.1	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: lianghaizhu
 Test Date: 2023-04-07

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	1698	1691	1686	1686	1693	1694	1692	1692	0- 10	1619	1619	4.68,4.64
20	1662	1636	1622	1627	1641	1665	1676	1668	10- 20	4742	6361	18.4,18.2
30	1536	1487	1460	1478	1490	1537	1561	1548	20- 30	7356	13717	39.7,39.3
40	1140	1083	1039	1075	1060	1105	1139	1116	30- 40	8376	22092	63.9,63.3
50	576.5	531.9	523.2	533.9	511.2	540.5	551.6	544.4	40- 50	6102	28194	81.6,80.8
60	268.1	263.2	250.1	246.0	249.4	255.3	256.8	256.1	50- 60	3384	31578	91.4,90.4
70	119.3	123.1	114.5	108.9	111.3	112.1	112.5	113.2	60- 70	1752	33330	96.4,95.5
80	39.23	42.23	39.76	37.80	32.92	32.29	31.84	32.52	70- 80	753.8	34083	98.6,97.6
90	1.859	1.837	1.627	1.869	1.563	1.784	1.717	1.682	80- 90	154.8	34238	99.1,98.1
100	1.654	1.723	1.755	1.735	1.708	1.625	1.597	1.620	90-100	16.21	34255	99.1,98.1
110	2.831	2.940	3.004	2.958	2.928	2.784	2.738	2.774	100-110	23.62	34278	99.2,98.2
120	4.378	4.519	4.613	4.543	4.502	4.297	4.252	4.286	110-120	35.87	34314	99.3,98.3
130	6.131	6.267	6.387	6.298	6.305	6.040	6.018	6.026	120-130	47.33	34361	99.4,98.4
140	7.821	7.976	8.080	8.011	8.061	7.817	7.802	7.815	130-140	54.51	34416	99.6,98.6
150	9.340	9.496	9.579	9.524	9.660	9.438	9.415	9.442	140-150	54.53	34470	99.7,98.7
160	10.98	11.06	11.21	11.08	11.35	11.08	11.12	11.11	150-160	47.40	34518	99.9,98.9
170	12.59	12.55	12.72	12.58	12.85	12.61	12.70	12.62	160-170	33.58	34551	100,99
180	13.47	13.34	13.47	13.36	13.48	13.32	13.48	13.35	170-180	12.41	34564	100,99
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 25551 lm

%lum = 73.9%

%lamp = 73.2%

Conical surface Flux(120deg): 31578 lm

%lum = 91.4%

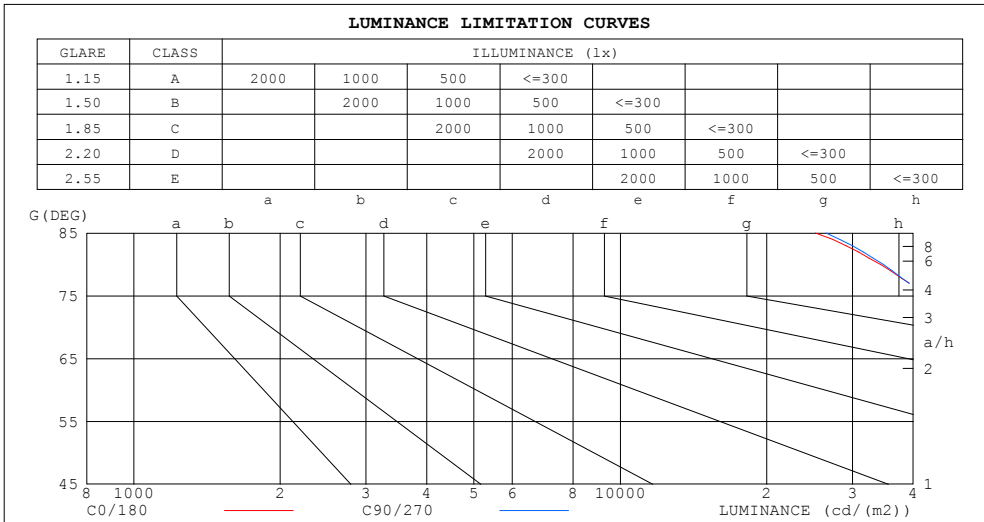
%lamp = 90.4%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

□ 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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	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	25176	26481
80	34229	34693
75	42977	42382
70	52870	50742
65	64630	61270
60	81254	75799
55	104114	95456
50	135893	123326
45	177331	160712

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	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	.238 .135 .043	.230 .131 .042	.217 .125 .040	.205 .118 .038	.194 .112 .036	
2.0	.230 .126 .039	.224 .123 .038	.212 .118 .037	.201 .113 .035	.192 .108 .034	
3.0	.218 .116 .035	.213 .114 .034	.203 .110 .033	.193 .106 .032	.185 .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 .090 .026	.172 .088 .026	.166 .086 .025	.159 .084 .025	
7.0	.173 .085 .024	.169 .084 .024	.163 .082 .024	.157 .081 .023	.152 .079 .023	
8.0	.163 .080 .022	.160 .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	.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	.196 .196 .196	.167 .167 .167	.114 .114 .114	.066 .066 .066	.021 .021 .021	
1.0	.181 .162 .146	.155 .139 .125	.106 .096 .087	.061 .055 .050	.020 .018 .016	
2.0	.170 .138 .111	.145 .119 .096	.100 .082 .067	.057 .048 .039	.018 .015 .013	
3.0	.161 .120 .088	.138 .104 .076	.095 .072 .053	.055 .042 .031	.018 .014 .010	
4.0	.152 .106 .071	.131 .092 .062	.090 .064 .043	.052 .038 .026	.017 .012 .008	
5.0	.145 .096 .059	.125 .083 .051	.086 .058 .036	.050 .034 .022	.016 .011 .007	
6.0	.138 .087 .050	.119 .075 .044	.082 .053 .031	.048 .031 .018	.015 .010 .006	
7.0	.132 .080 .044	.114 .069 .038	.079 .049 .027	.046 .029 .016	.015 .009 .005	
8.0	.127 .074 .038	.109 .064 .033	.075 .045 .024	.044 .027 .014	.014 .009 .005	
9.0	.121 .069 .034	.104 .060 .030	.072 .042 .021	.042 .025 .013	.014 .008 .004	
10.0	.116 .065 .031	.100 .057 .027	.070 .040 .019	.041 .024 .012	.013 .008 .004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	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	28.3	29.6	28.5	29.8	30.0	28.0	29.2	28.2	29.4	29.7
3H	28.7	29.9	29.0	30.1	30.3	28.4	29.5	28.7	29.8	30.0
4H	28.8	29.9	29.1	30.2	30.4	28.5	29.6	28.8	29.9	30.1
6H	28.9	29.9	29.2	30.2	30.5	28.6	29.6	28.9	29.9	30.2
8H	28.9	29.9	29.2	30.1	30.4	28.6	29.6	28.9	29.9	30.2
12H	28.8	29.8	29.2	30.1	30.4	28.6	29.5	28.9	29.8	30.1
4H 2H	28.4	29.5	28.7	29.8	30.0	28.1	29.2	28.4	29.5	29.7
3H	28.9	29.9	29.3	30.2	30.5	28.7	29.6	29.0	29.9	30.2
4H	29.2	30.0	29.5	30.3	30.7	28.9	29.8	29.3	30.1	30.4
6H	29.3	30.0	29.7	30.4	30.8	29.1	29.8	29.5	30.2	30.6
8H	29.3	30.0	29.7	30.4	30.8	29.1	29.8	29.5	30.2	30.6
12H	29.3	30.0	29.7	30.4	30.8	29.1	29.7	29.5	30.1	30.6
8H 4H	29.2	29.9	29.6	30.3	30.7	28.9	29.7	29.4	30.0	30.4
6H	29.4	30.0	29.8	30.4	30.8	29.2	29.8	29.6	30.2	30.6
8H	29.5	30.0	29.9	30.4	30.9	29.3	29.8	29.7	30.2	30.7
12H	29.5	29.9	30.0	30.4	30.9	29.3	29.7	29.8	30.2	30.7
12H 4H	29.2	29.8	29.6	30.2	30.6	28.9	29.6	29.4	30.0	30.4
6H	29.4	29.9	29.8	30.3	30.8	29.2	29.7	29.6	30.1	30.6
8H	29.5	29.9	30.0	30.4	30.9	29.3	29.7	29.8	30.2	30.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 0.9 / - 0.8					+ 0.9 / - 0.7				
2.0H	+ 1.9 / - 1.4					+ 1.7 / - 1.2				

CIE Pub.117, 34913 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 12.3)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.29*0.29m	Shielding Angle:

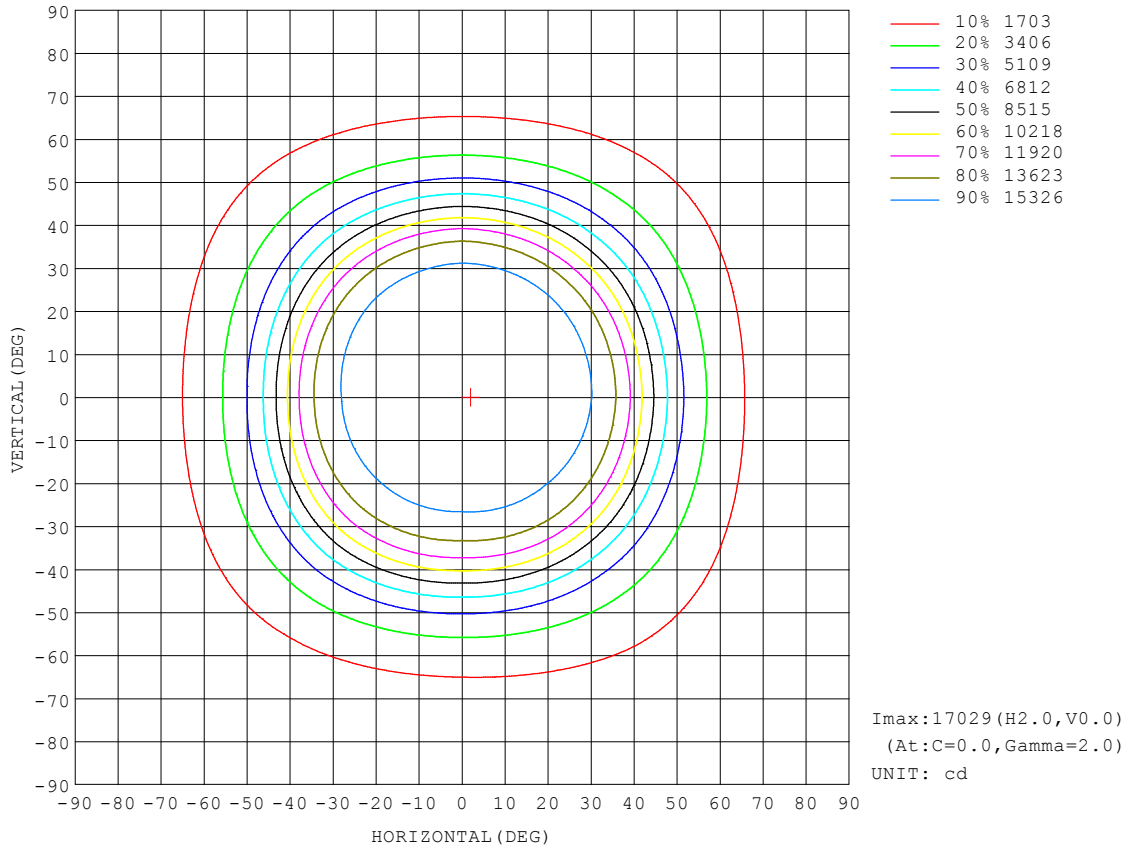
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	59	53	67	58	53	66	58	53	47
0.80	78	69	63	77	68	63	75	67	62	57
1.00	85	77	71	84	76	71	82	77	70	64
1.25	91	83	78	90	83	77	87	81	77	71
1.50	95	88	83	94	87	82	91	85	81	75
2.00	100	94	89	99	93	89	96	91	87	80
2.50	103	97	93	101	96	92	98	93	90	83
3.00	106	101	97	104	99	95	100	96	93	86
4.00	109	104	101	106	103	100	102	99	97	89
5.00	110	107	104	108	105	102	104	101	99	90
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:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.29*0.29m	Shielding Angle:

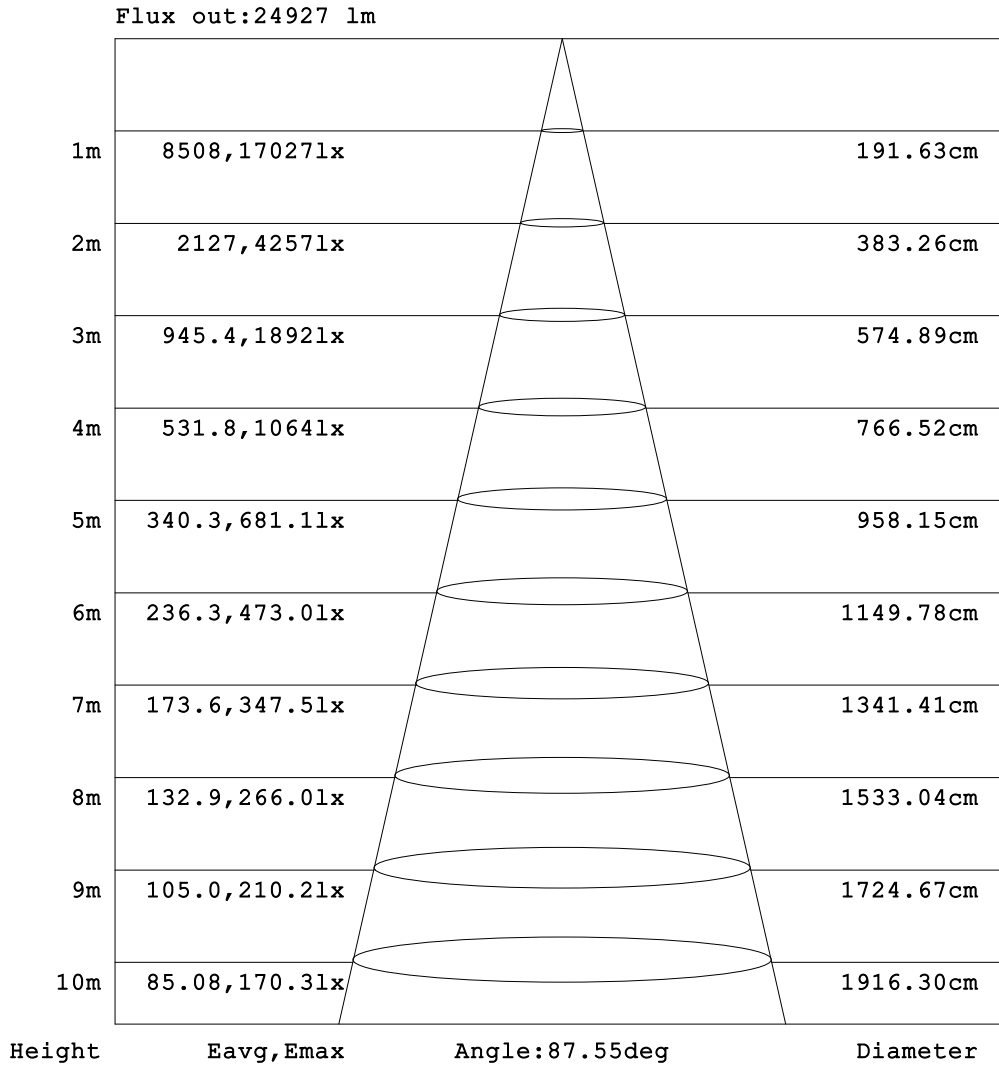


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: lianghaizhu
 Test Date: 2023-04-07

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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:0.29*0.29m	Shielding Angle:

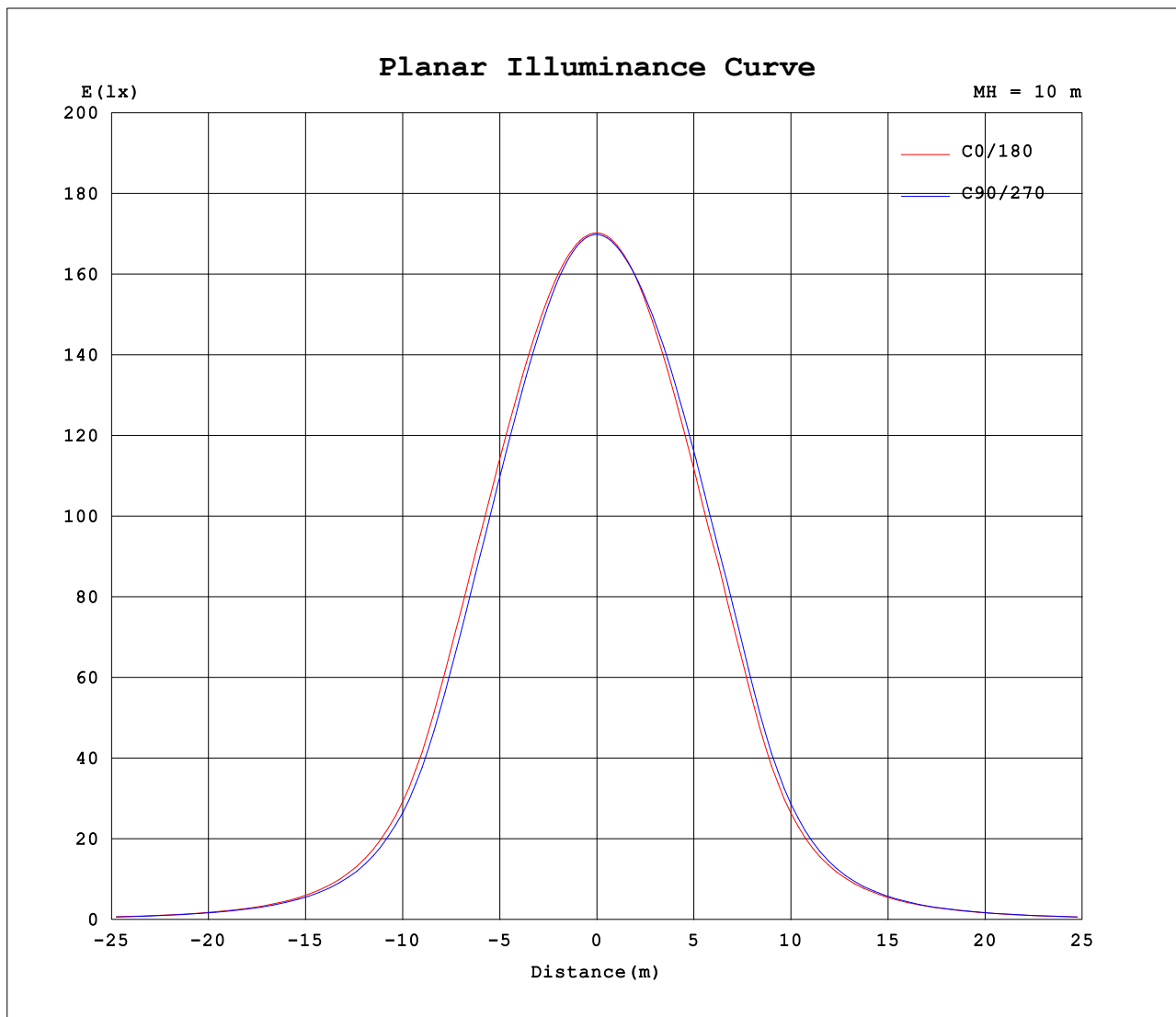


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

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: 25.1DEG
 Operators: lianghaizhu
 Test Date: 2023-04-07

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:122.0V I:1.953A P:237.3W PF:0.9967 Freq:59.98Hz Lamp Flux:34912.9x1 lm		
NAME: ASD-UHB3-240ADAC-BK-240W-5000K	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	1703	1701	1699	1697	1703	1701	1699	1697										
5	1702	1699	1697	1695	1700	1698	1696	1695										
10	1698	1691	1686	1686	1693	1694	1692	1692										
15	1687	1672	1662	1665	1675	1686	1688	1685										
20	1662	1636	1622	1627	1641	1665	1676	1668										
25	1617	1580	1560	1568	1585	1622	1640	1629										
30	1536	1487	1460	1478	1490	1537	1561	1548										
35	1394	1345	1297	1331	1339	1380	1423	1394										
40	1140	1083	1039	1075	1060	1105	1139	1116										
45	828	775	750	777	747	784	813	795										
50	577	532	523	534	511	541	552	544										
55	394	371	361	365	357	373	375	372										
60	268	263	250	246	249	255	257	256										
65	180	183	171	164	171	173	174	174										
70	119	123	115	109	111	112	113	113										
75	73.4	77.1	72.4	69.2	66.3	66.6	65.9	66.6										
80	39.2	42.2	39.8	37.8	32.9	32.3	31.8	32.5										
85	14.5	16.2	15.2	14.6	9.43	8.86	8.37	8.96										
90	1.86	1.84	1.63	1.87	1.56	1.78	1.72	1.68										
95	1.34	1.54	1.43	1.54	1.29	1.36	1.23	1.31										
100	1.65	1.72	1.75	1.74	1.71	1.62	1.60	1.62										
105	2.19	2.28	2.32	2.29	2.26	2.15	2.11	2.14										
110	2.83	2.94	3.00	2.96	2.93	2.78	2.74	2.77										
115	3.56	3.69	3.77	3.72	3.68	3.51	3.46	3.50										
120	4.38	4.52	4.61	4.54	4.50	4.30	4.25	4.29										
125	5.24	5.39	5.49	5.42	5.38	5.14	5.11	5.13										
130	6.13	6.27	6.39	6.30	6.31	6.04	6.02	6.03										
135	7.00	7.13	7.26	7.16	7.21	6.93	6.93	6.93										
140	7.82	7.98	8.08	8.01	8.06	7.82	7.80	7.81										
145	8.59	8.76	8.84	8.79	8.86	8.64	8.61	8.64										
150	9.34	9.50	9.58	9.52	9.66	9.44	9.41	9.44										
155	10.1	10.3	10.4	10.3	10.5	10.3	10.2	10.3										
160	11.0	11.1	11.2	11.1	11.3	11.1	11.1	11.1										
165	11.8	11.9	12.0	11.9	12.2	11.9	12.0	11.9										
170	12.6	12.6	12.7	12.6	12.8	12.6	12.7	12.6										
175	13.2	13.1	13.2	13.1	13.3	13.1	13.2	13.1										
180	13.5	13.3	13.5	13.4	13.5	13.3	13.5	13.3										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.1DEG
 Operators:lianghaizhu
 Test Date:2023-04-07

□ 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: