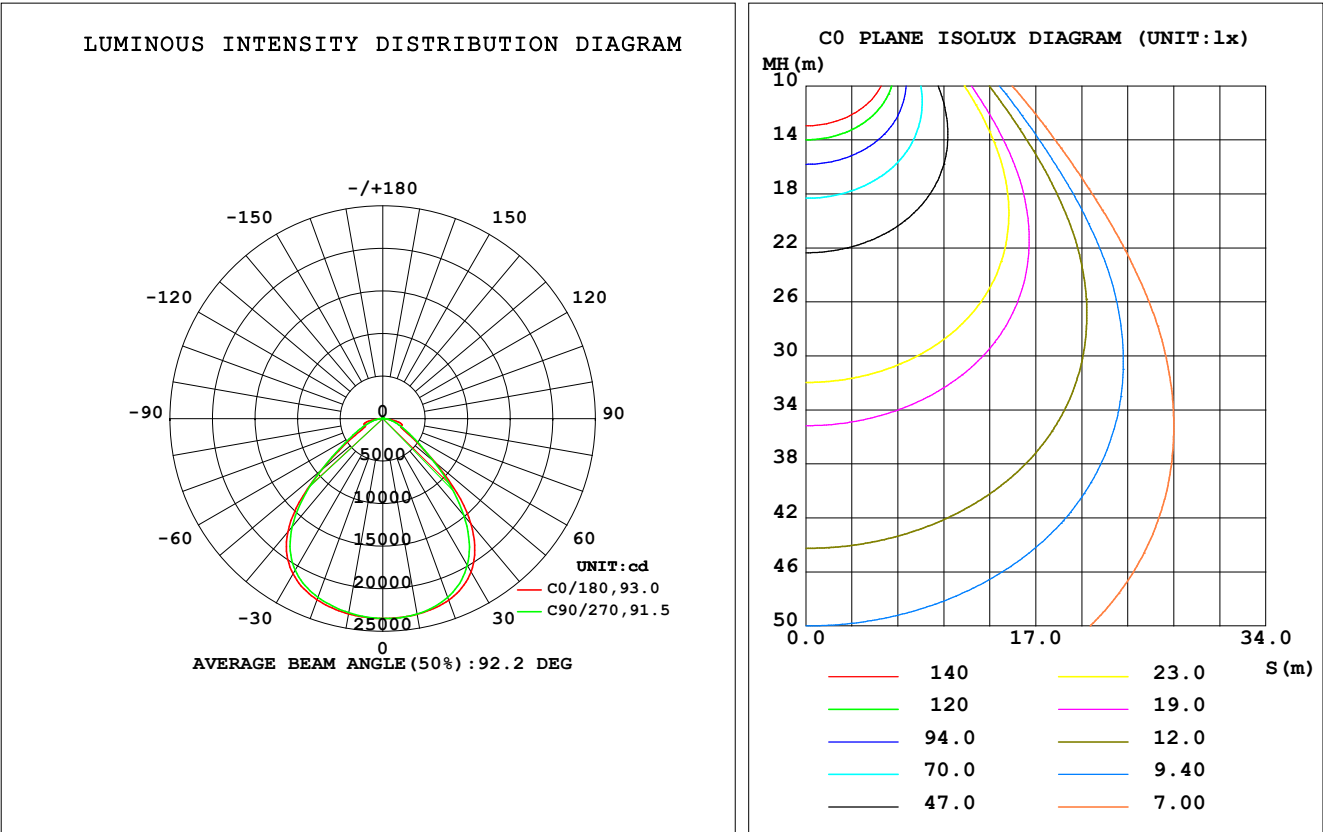


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm		
NAME: ASD-WHB5B-ST-320-BA	TYPE:	WEIGHT:
SPEC.:320W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.845*0.335	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 165.54 lm/W
MODEL	ASD-WHB5B-ST-320-BA	Imax(cd)	23504	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	320	LOR(%)	100.0	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	52028	□ UP,DN(C0-180)	0.3,48.3	
NOMINAL FLUX(lm)	52028.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.4,51.0	
LAMPS INSIDE	1	□ up(%)	0.7	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	□ down(%)	99.3	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-15

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	2335	2338	2332	2332	2329	2318	2315	2324	0- 10	2232	2232	4.29,4.29
20	2269	2269	2235	2258	2264	2244	2233	2256	10- 20	6498	8730	16.8,16.8
30	2076	2091	1988	2088	2110	2105	2058	2116	20- 30	10058	18788	36.1,36.1
40	1611	1691	1480	1710	1736	1809	1657	1780	30- 40	11925	30712	59,59
50	805.3	1003	789.8	1025	938.0	1181	955.2	1094	40- 50	10359	41072	78.9,78.9
60	314.0	438.4	369.5	440.4	343.6	506.0	429.6	466.9	50- 60	5847	46918	90.2,90.2
70	239.3	171.9	184.6	167.2	225.2	188.1	206.3	180.4	60- 70	2835	49753	95.6,95.6
80	138.7	79.88	78.37	67.37	155.1	76.37	85.42	73.68	70- 80	1516	51268	98.5,98.5
90	0.6421	0.6235	0.5919	0.5865	1.452	1.254	1.228	1.246	80- 90	411.5	51680	99.3,99.3
100	0.9891	1.048	1.060	1.020	1.870	2.065	1.950	2.046	90-100	12.19	51692	99.4,99.4
110	1.895	1.979	2.017	1.967	3.570	3.882	3.676	3.895	100-110	22.42	51715	99.4,99.4
120	3.317	3.317	3.457	3.316	6.203	6.284	6.078	6.329	110-120	37.51	51752	99.5,99.5
130	4.957	4.923	5.173	4.913	8.894	8.627	8.534	8.690	120-130	52.08	51804	99.6,99.6
140	6.626	6.830	7.032	6.667	10.86	10.50	10.56	10.62	130-140	60.10	51864	99.7,99.7
150	8.879	9.219	9.248	8.760	12.34	11.98	12.16	12.25	140-150	60.34	51925	99.8,99.8
160	11.56	11.63	11.62	11.25	13.50	13.11	13.37	13.46	150-160	53.19	51978	99.9,99.9
170	13.62	13.32	13.45	13.21	14.27	13.83	14.12	14.11	160-170	37.07	52015	100,100
180	14.35	13.97	14.29	14.14	14.36	13.98	14.29	14.14	170-180	13.34	52028	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 36363 lm

%lum = 69.9%

%lamp = 69.9%

Conical surface Flux(120deg): 46918 lm

%lum = 90.2%

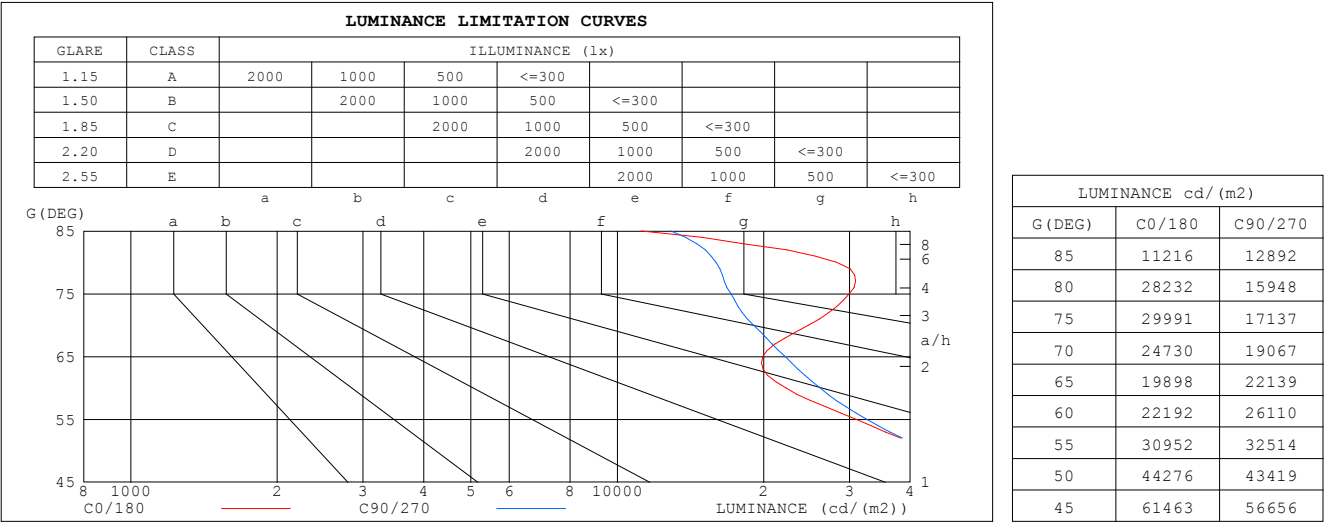
%lamp = 90.2%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-15

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm		
NAME: ASD-WHB5B-ST-320-BA	TYPE:	WEIGHT:
SPEC.:320W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.845*0.335	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm					
NAME: ASD-WHB5B-ST-320-BA			TYPE:		WEIGHT:
SPEC.:320W-5000K-90D			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp.			SUR.:0.845*0.335		Shielding Angle:

☐ cc	80%			70%			50%			30%			10%			0	
☐ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
☐ fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.253	.144	.046	.245	.140	.044	.232	.133	.043	.220	.127	.041	.209	.121	.039		
2.0	.243	.133	.041	.237	.130	.040	.225	.125	.039	.214	.120	.038	.204	.116	.036		
3.0	.229	.122	.037	.224	.120	.036	.214	.116	.035	.204	.112	.034	.196	.108	.034		
4.0	.216	.112	.033	.211	.110	.033	.202	.107	.032	.194	.104	.031	.186	.101	.031		
5.0	.203	.103	.030	.199	.102	.030	.191	.099	.029	.183	.097	.029	.176	.094	.028		
6.0	.191	.096	.027	.187	.094	.027	.180	.092	.027	.173	.090	.026	.167	.088	.026		
7.0	.180	.089	.025	.176	.088	.025	.170	.086	.025	.164	.084	.024	.158	.082	.024		
8.0	.170	.083	.023	.167	.082	.023	.161	.080	.023	.155	.079	.023	.150	.077	.022		
9.0	.160	.078	.022	.158	.077	.022	.153	.075	.021	.148	.074	.021	.143	.073	.021		
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.140	.070	.020	.136	.069	.020		

☐ cc	80%			70%			50%			30%			10%			0
☐ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
☐ 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	.144	.155	.139	.124	.106	.096	.086	.061	.055	.050	.020	.018	.016	
2.0	.171	.137	.109	.146	.118	.094	.100	.082	.066	.058	.048	.039	.019	.015	.013	
3.0	.162	.119	.085	.139	.103	.074	.095	.071	.052	.055	.042	.031	.018	.014	.010	
4.0	.154	.105	.069	.132	.091	.060	.091	.064	.042	.053	.037	.025	.017	.012	.008	
5.0	.147	.095	.057	.126	.082	.049	.087	.057	.035	.050	.034	.021	.016	.011	.007	
6.0	.140	.086	.048	.120	.075	.042	.083	.052	.029	.048	.031	.017	.016	.010	.006	
7.0	.133	.079	.041	.115	.069	.036	.079	.048	.025	.046	.028	.015	.015	.009	.005	
8.0	.128	.073	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
9.0	.122	.068	.032	.105	.059	.028	.073	.042	.020	.042	.025	.012	.014	.008	.004	
10.0	.117	.064	.029	.101	.056	.025	.070	.039	.018	.041	.023	.011	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm										
NAME: ASD-WHB5B-ST-320-BA					TYPE:			WEIGHT:		
SPEC.:320W-5000K-90D					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.845*0.335			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	24.6	25.9	24.9	26.1	26.4	24.6	26.0	24.9	26.2	26.4
3H	25.1	26.3	25.4	26.6	26.8	25.0	26.3	25.3	26.5	26.7
4H	25.6	26.8	25.9	27.0	27.3	25.2	26.3	25.5	26.6	26.9
6H	26.1	27.2	26.4	27.5	27.7	25.3	26.4	25.7	26.7	27.0
8H	26.2	27.3	26.6	27.5	27.8	25.4	26.4	25.7	26.7	27.0
12H	26.2	27.2	26.6	27.5	27.8	25.4	26.4	25.7	26.7	27.0
4H 2H	24.8	25.9	25.1	26.2	26.4	24.8	25.9	25.1	26.2	26.5
3H	25.4	26.4	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
4H	26.1	27.0	26.4	27.3	27.6	25.6	26.5	25.9	26.8	27.1
6H	26.7	27.5	27.1	27.9	28.2	25.8	26.6	26.2	26.9	27.3
8H	26.9	27.6	27.3	28.0	28.4	25.9	26.6	26.3	27.0	27.4
12H	26.9	27.6	27.3	28.0	28.4	25.9	26.6	26.4	27.0	27.4
8H 4H	26.1	26.8	26.5	27.2	27.6	25.6	26.4	26.0	26.7	27.1
6H	26.9	27.5	27.3	27.9	28.3	26.0	26.6	26.4	27.0	27.4
8H	27.1	27.6	27.6	28.1	28.5	26.1	26.7	26.6	27.1	27.6
12H	27.2	27.6	27.7	28.1	28.6	26.2	26.7	26.7	27.1	27.6
12H 4H	26.1	26.8	26.5	27.1	27.6	25.6	26.3	26.0	26.7	27.1
6H	26.9	27.4	27.3	27.9	28.3	26.0	26.5	26.5	27.0	27.4
8H	27.1	27.6	27.6	28.0	28.5	26.2	26.7	26.7	27.1	27.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.8					+ 0.9 / - 1.0				
1.5H	+ 0.4 / - 0.7					+ 0.4 / - 0.9				
2.0H	+ 1.6 / - 1.3					+ 1.6 / - 1.4				

CIE Pub.117, 52028 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 13.7$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm		
NAME: ASD-WHB5B-ST-320-BA	TYPE:	WEIGHT:
SPEC.:320W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.845*0.335	Shielding Angle:

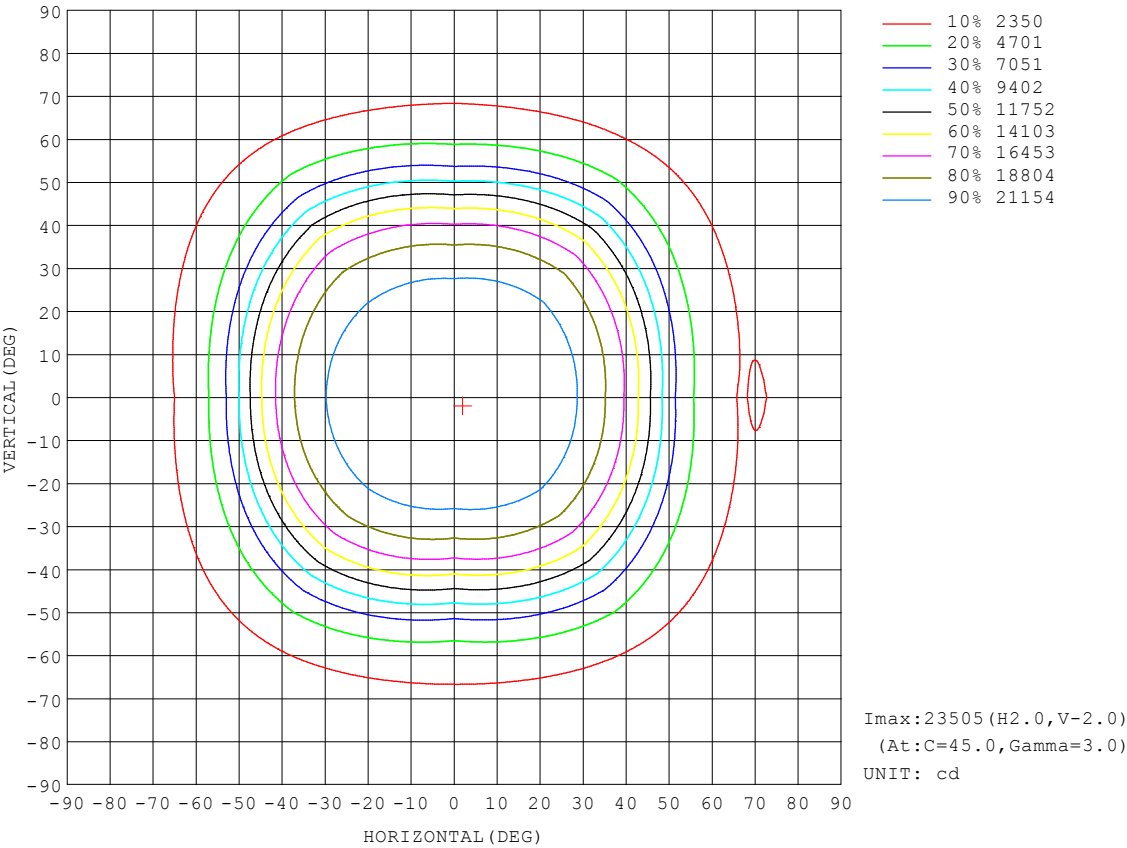
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	49	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	76	86	80	75	68
1.50	95	87	81	93	86	81	90	84	79	73
2.00	100	93	88	99	92	88	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	96	88
5.00	111	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: 27DEG
 Operators: lianghaizhu-1
 Test Date: 2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm		
NAME: ASD-WHB5B-ST-320-BA	TYPE:	WEIGHT:
SPEC.:320W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.845*0.335	Shielding Angle:

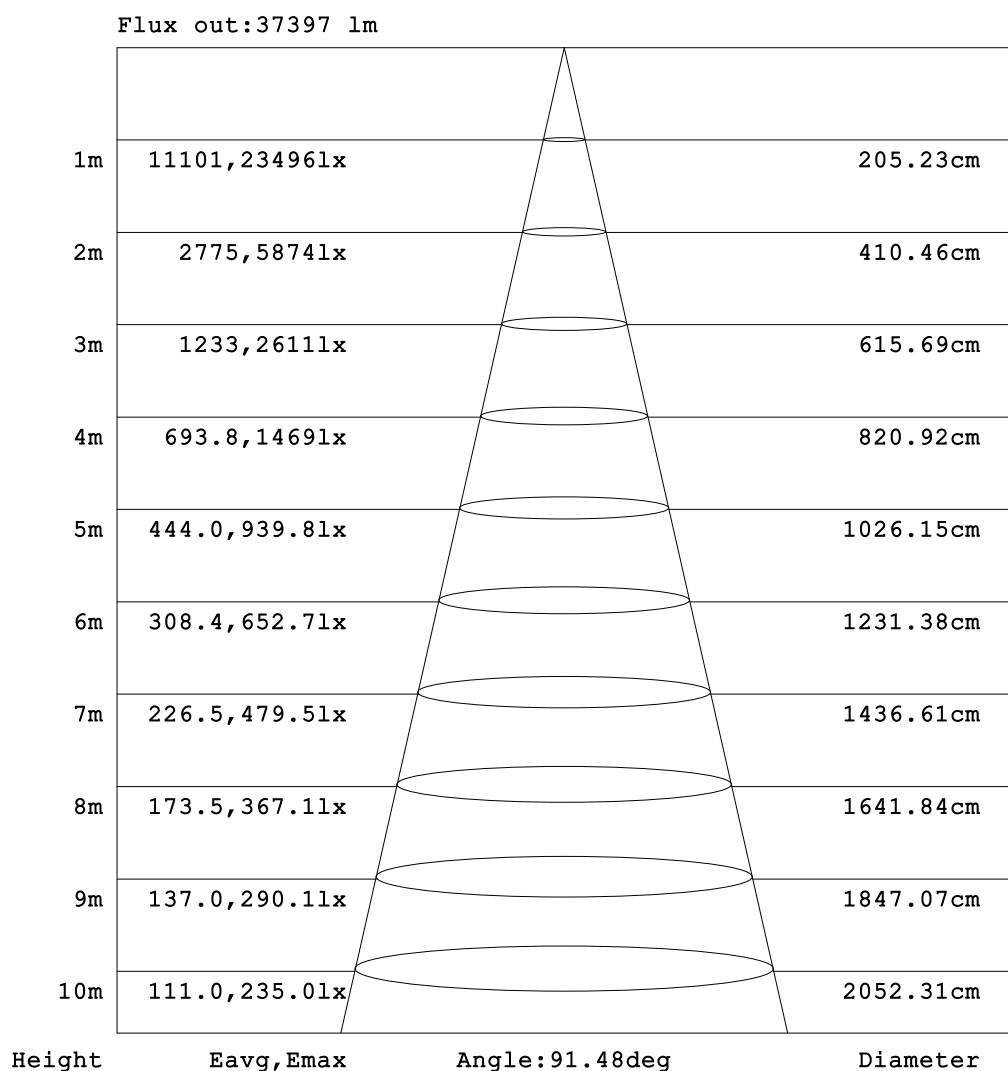


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm		
NAME: ASD-WHB5B-ST-320-BA	TYPE:	WEIGHT:
SPEC.:320W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.845*0.335	Shielding Angle:

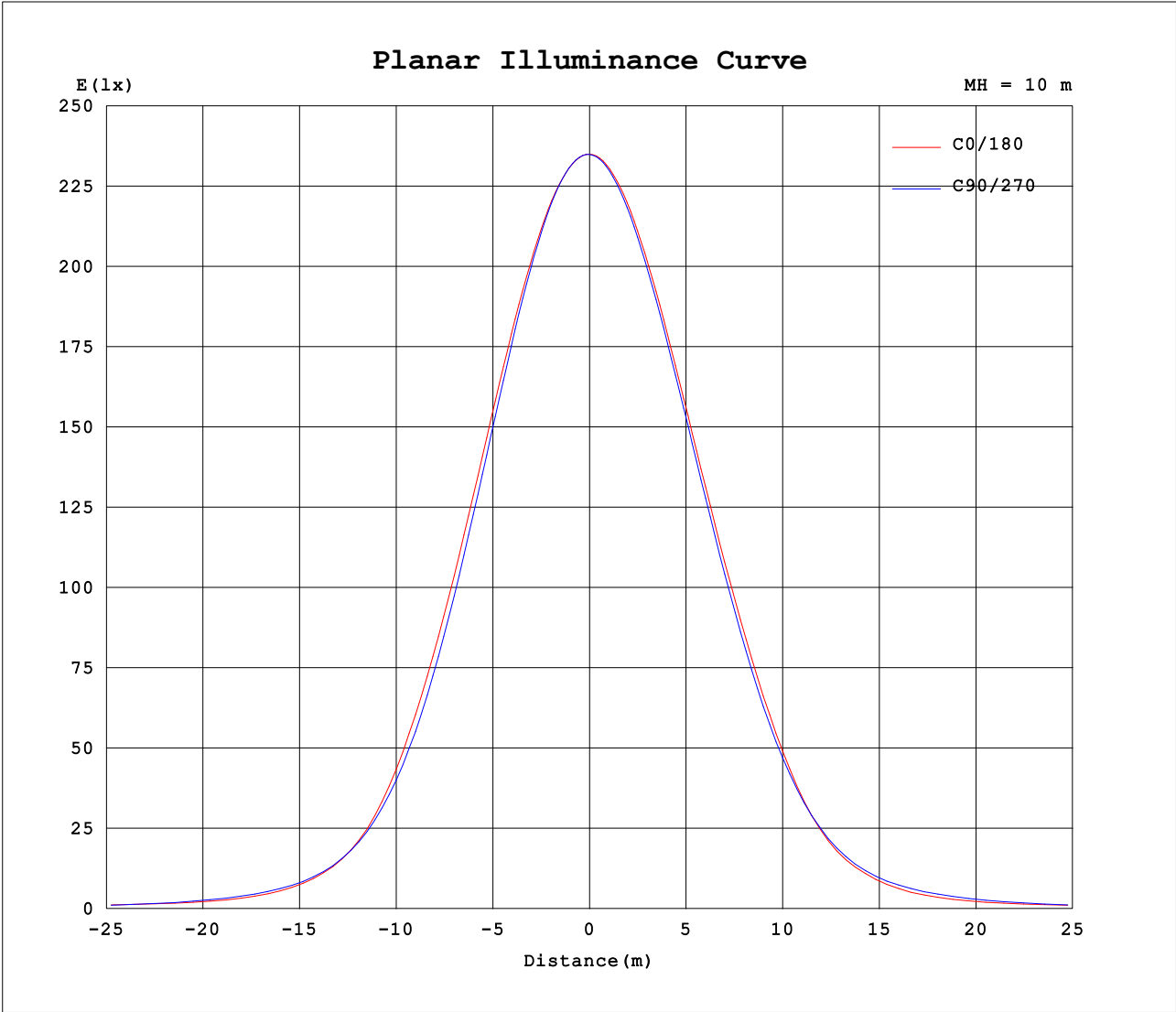


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.300m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-15

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.3V I:2.641A P:314.3W PF:0.9978 Freq:64.98Hz Lamp Flux:52028.1x1 lm								
NAME: ASD-WHB5B-ST-320-BA					TYPE:			WEIGHT:
SPEC.:320W-5000K-90D					DIM.:			SERIAL No.:
MFR.: ASD Lighting Corp.					SUR.:0.845*0.335			Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	2349	2349	2349	2349	2349	2349	2349	2349										
5	2346	2349	2348	2346	2343	2339	2338	2342										
10	2335	2338	2332	2332	2329	2318	2315	2324										
15	2311	2313	2296	2304	2304	2287	2281	2296										
20	2269	2269	2235	2258	2264	2244	2233	2256										
25	2197	2199	2137	2191	2203	2186	2164	2199										
30	2076	2091	1988	2088	2110	2105	2058	2116										
35	1887	1928	1774	1936	1964	1986	1897	1985										
40	1611	1691	1480	1710	1736	1809	1657	1780										
45	1230	1372	1134	1400	1388	1543	1329	1475										
50	805	1003	790	1025	938	1181	955	1094										
55	502	669	528	678	580	791	630	724										
60	314	438	369	440	344	506	430	467										
65	238	281	265	280	235	323	301	300										
70	239	172	185	167	225	188	206	180										
75	220	110	126	103	223	114	137	112										
80	139	79.9	78.4	67.4	155	76.4	85.4	73.7										
85	27.7	33.0	31.8	28.8	39.5	35.0	37.1	34.0										
90	0.64	0.62	0.59	0.59	1.45	1.25	1.23	1.25										
95	0.76	0.76	0.76	0.74	1.38	1.47	1.39	1.44										
100	0.99	1.05	1.06	1.02	1.87	2.07	1.95	2.05										
105	1.37	1.45	1.47	1.43	2.58	2.88	2.71	2.87										
110	1.90	1.98	2.02	1.97	3.57	3.88	3.68	3.89										
115	2.56	2.61	2.68	2.60	4.81	5.04	4.82	5.07										
120	3.32	3.32	3.46	3.32	6.20	6.28	6.08	6.33										
125	4.14	4.09	4.30	4.10	7.61	7.50	7.34	7.56										
130	4.96	4.92	5.17	4.91	8.89	8.63	8.53	8.69										
135	5.76	5.83	6.08	5.76	9.97	9.63	9.61	9.71										
140	6.63	6.83	7.03	6.67	10.9	10.5	10.6	10.6										
145	7.64	7.96	8.07	7.64	11.6	11.3	11.4	11.5										
150	8.88	9.22	9.25	8.76	12.3	12.0	12.2	12.2										
155	10.3	10.5	10.5	10.00	13.0	12.6	12.8	12.9										
160	11.6	11.6	11.6	11.2	13.5	13.1	13.4	13.5										
165	12.7	12.6	12.6	12.3	13.9	13.5	13.8	13.9										
170	13.6	13.3	13.4	13.2	14.3	13.8	14.1	14.1										
175	14.2	13.8	14.0	13.8	14.4	14.0	14.3	14.2										
180	14.3	14.0	14.3	14.1	14.4	14.0	14.3	14.1										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:27DEG

Operators:lianghaizhu-1

Test Date:2025-07-15

□ Range: 0 - 180DEG

□ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364

Humidity:56%

Test Distance:8.300m [K=1.0000]

Remarks: