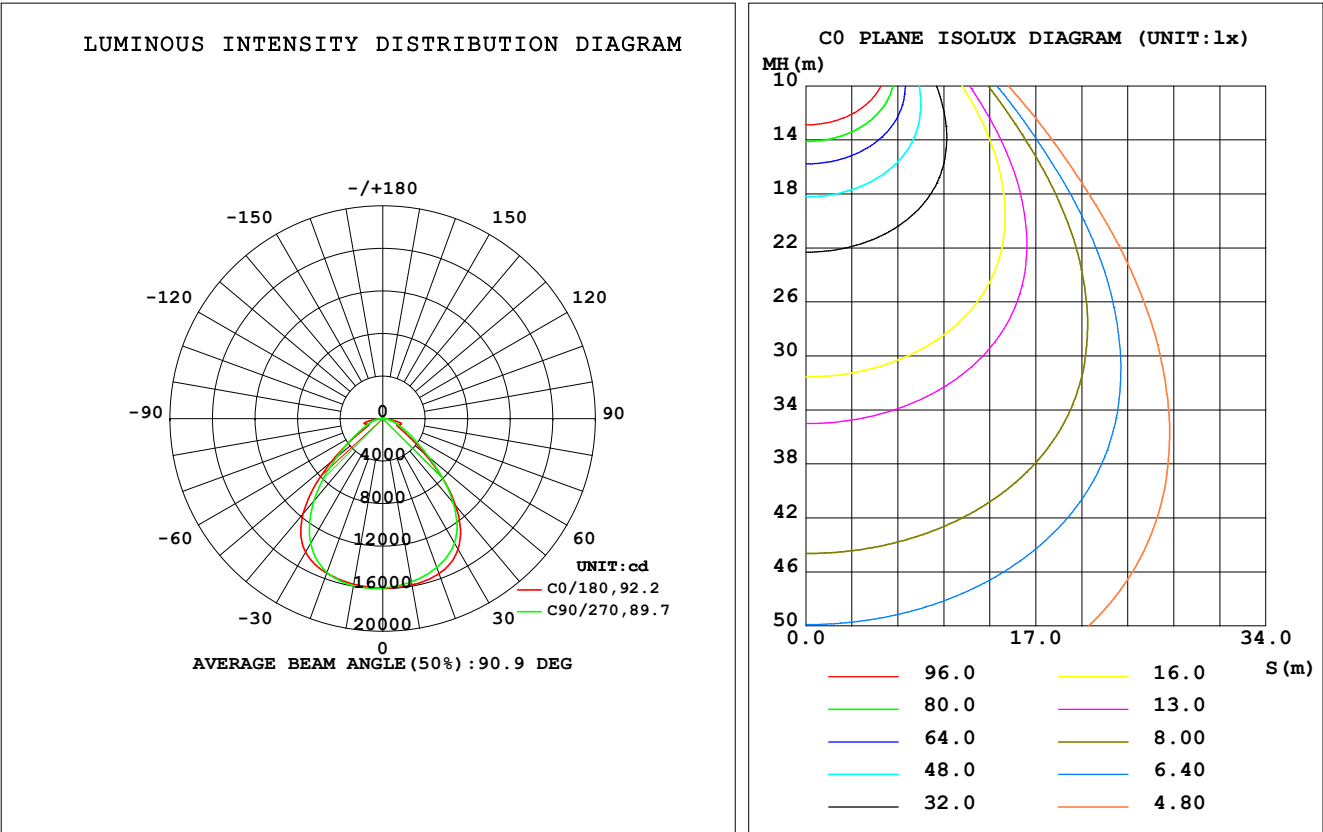


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*0.335	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 166.51 lm/W
MODEL	ASD-WHB5B-ST-220-BA	Imax(cd)	15986	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	35071	□ UP,DN(C0-180)	0.3,48.7	
NOMINAL FLUX(lm)	35071.1	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.4,50.6	
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:2025-07-01

□ 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	1588	1571	1558	1563	1580	1591	1595	1597	0- 10	1515	1515	4.32,4.32
20	1550	1520	1488	1508	1546	1558	1537	1563	10- 20	4417	5932	16.9,16.9
30	1417	1412	1348	1412	1451	1458	1357	1446	20- 30	6845	12776	36.4,36.4
40	1066	1143	1029	1180	1165	1201	1007	1160	30- 40	8032	20808	59.3,59.3
50	524.3	661.5	569.6	708.3	628.3	736.1	567.3	694.6	40- 50	6797	27605	78.7,78.7
60	191.0	300.9	282.5	324.6	221.0	337.0	269.8	317.5	50- 60	3891	31496	89.8,89.8
70	172.7	108.7	132.2	114.3	152.6	124.8	141.0	121.0	60- 70	1911	33407	95.3,95.3
80	106.8	40.65	53.85	40.73	129.4	68.83	68.74	72.40	70- 80	1106	34513	98.4,98.4
90	0.4374	0.4125	0.3890	0.3789	0.8708	0.8021	1.036	0.8854	80- 90	319.4	34832	99.3,99.3
100	0.6790	0.6899	0.6789	0.6766	1.238	1.352	1.336	1.418	90-100	8.201	34840	99.3,99.3
110	1.301	1.307	1.265	1.281	2.355	2.568	2.533	2.714	100-110	14.99	34855	99.4,99.4
120	2.299	2.240	2.198	2.159	4.200	4.276	4.225	4.408	110-120	25.30	34881	99.5,99.5
130	3.509	3.362	3.389	3.238	6.113	5.995	5.998	6.052	120-130	35.64	34916	99.6,99.6
140	4.654	4.668	4.666	4.436	7.506	7.332	7.407	7.394	130-140	41.42	34958	99.7,99.7
150	6.207	6.254	6.160	5.923	8.560	8.383	8.486	8.521	140-150	41.61	34999	99.8,99.8
160	8.070	7.965	7.847	7.675	9.406	9.226	9.375	9.412	150-160	36.74	35036	99.9,99.9
170	9.484	9.276	9.305	9.195	9.970	9.777	9.959	9.929	160-170	25.81	35062	100,100
180	10.05	9.880	10.05	9.951	10.06	9.884	10.05	9.955	170-180	9.356	35071	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 24533 lm

%lum = 70.0%

%lamp = 70.0%

Conical surface Flux(120deg): 31496 lm

%lum = 89.8%

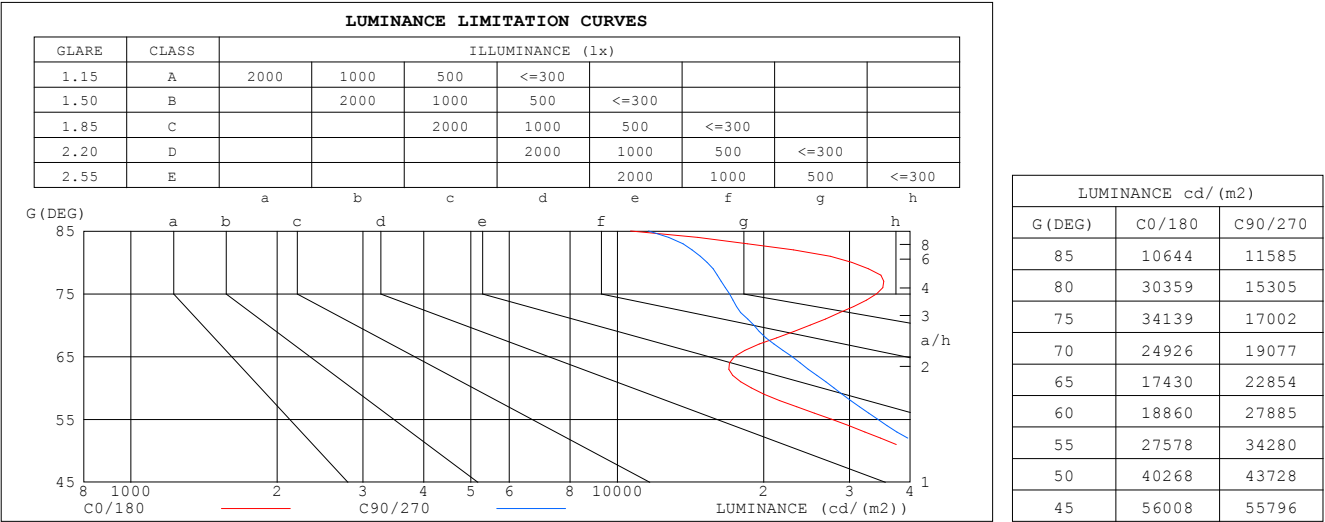
%lamp = 89.8%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

□ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*0.335	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-01

☐ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*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	.254 .145 .046	.247 .141 .045	.234 .134 .043	.222 .128 .041	.210 .122 .039	
2.0	.244 .134 .041	.238 .131 .040	.226 .126 .039	.215 .121 .038	.205 .116 .037	
3.0	.230 .122 .037	.225 .120 .036	.214 .116 .035	.205 .112 .034	.196 .109 .034	
4.0	.216 .112 .033	.211 .111 .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	.169 .083 .023	.166 .082 .023	.161 .080 .023	.155 .079 .023	.150 .077 .022	
9.0	.160 .078 .022	.158 .077 .022	.152 .075 .021	.147 .074 .021	.143 .073 .021	
10.0	.152 .073 .020	.149 .072 .020	.145 .071 .020	.140 .070 .020	.136 .068 .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	.182 .162 .144	.155 .139 .124	.106 .096 .086	.061 .055 .050	.020 .018 .016	
2.0	.171 .137 .109	.147 .118 .094	.100 .082 .066	.058 .048 .039	.019 .015 .013	
3.0	.162 .119 .085	.139 .103 .074	.095 .072 .052	.055 .042 .031	.018 .014 .010	
4.0	.154 .106 .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 .018	.016 .010 .006	
7.0	.134 .079 .041	.115 .069 .036	.079 .048 .025	.046 .028 .015	.015 .009 .005	
8.0	.128 .073 .036	.110 .064 .032	.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:2025-07-01

☐ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm										
NAME: ASD-WHB5B-ST-220-BA					TYPE:			WEIGHT:		
SPEC.:220W-5000K-90D					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.605*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	24.2	25.6	24.5	25.8	26.0	24.7	26.0	24.9	26.2	26.4
3H	24.8	26.0	25.1	26.3	26.5	25.1	26.3	25.4	26.5	26.8
4H	25.5	26.6	25.8	26.9	27.2	25.2	26.4	25.5	26.6	26.9
6H	26.2	27.2	26.5	27.5	27.8	25.4	26.4	25.7	26.7	27.0
8H	26.3	27.3	26.6	27.6	27.9	25.4	26.4	25.7	26.7	27.0
12H	26.3	27.3	26.6	27.6	27.9	25.4	26.4	25.7	26.7	27.0
4H 2H	24.4	25.6	24.7	25.8	26.1	24.8	26.0	25.1	26.2	26.5
3H	25.1	26.1	25.5	26.4	26.8	25.3	26.3	25.7	26.6	26.9
4H	26.0	26.9	26.3	27.2	27.5	25.5	26.4	25.9	26.8	27.1
6H	26.8	27.6	27.2	27.9	28.3	25.8	26.6	26.2	26.9	27.3
8H	26.9	27.7	27.4	28.1	28.4	25.8	26.6	26.2	26.9	27.3
12H	27.0	27.6	27.4	28.0	28.4	25.9	26.5	26.3	26.9	27.3
8H 4H	26.0	26.7	26.4	27.1	27.5	25.6	26.3	26.0	26.7	27.1
6H	26.9	27.5	27.3	27.9	28.3	25.9	26.5	26.3	26.9	27.3
8H	27.1	27.6	27.6	28.1	28.5	26.0	26.5	26.4	26.9	27.4
12H	27.2	27.6	27.6	28.1	28.6	26.0	26.5	26.5	27.0	27.5
12H 4H	26.0	26.6	26.4	27.0	27.4	25.6	26.2	26.0	26.6	27.0
6H	26.9	27.4	27.3	27.8	28.3	25.9	26.4	26.3	26.8	27.3
8H	27.1	27.6	27.6	28.0	28.5	26.0	26.5	26.5	26.9	27.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.7					+ 0.9 / - 1.0				
1.5H	+ 0.4 / - 0.6					+ 0.4 / - 0.7				
2.0H	+ 1.5 / - 1.2					+ 1.6 / - 1.2				

CIE Pub.117, 35071 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.4$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

☐ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*0.335	Shielding Angle:

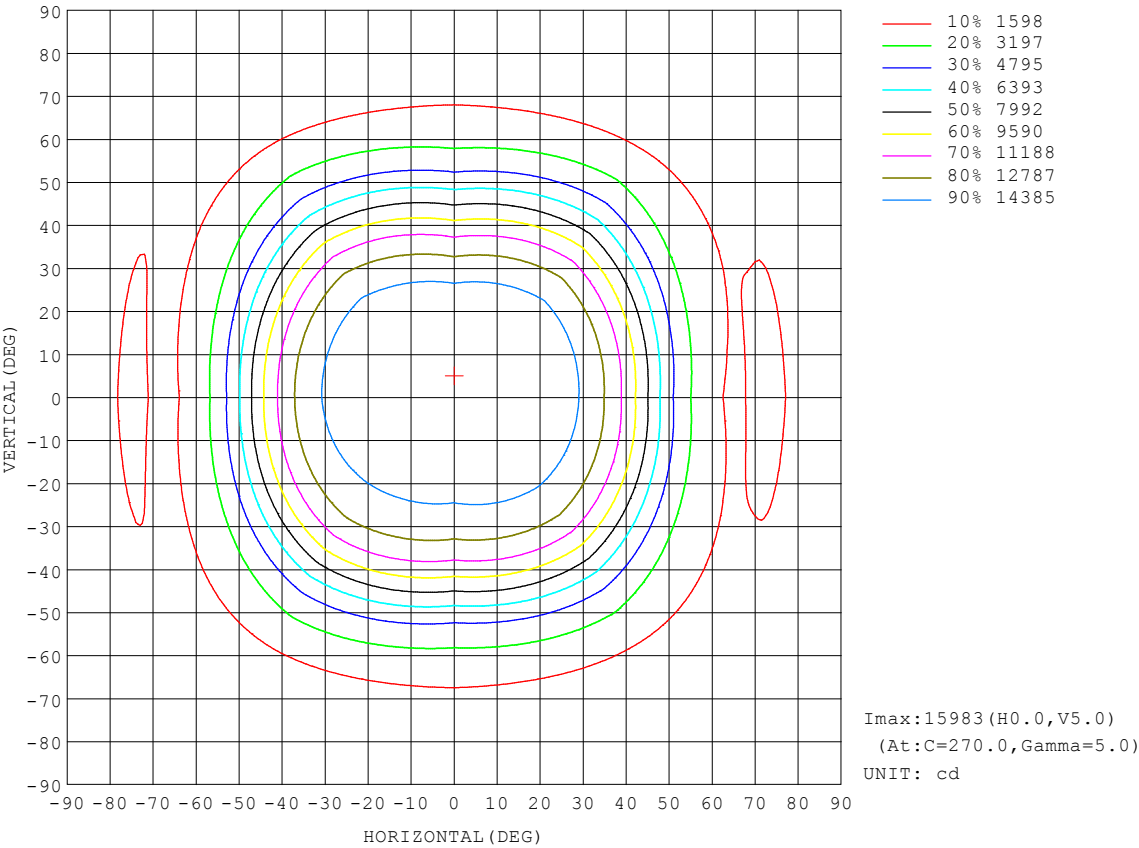
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	50	44
0.80	76	66	60	75	66	60	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	98	92	87	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	102	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:2025-07-01

☐ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*0.335	Shielding Angle:

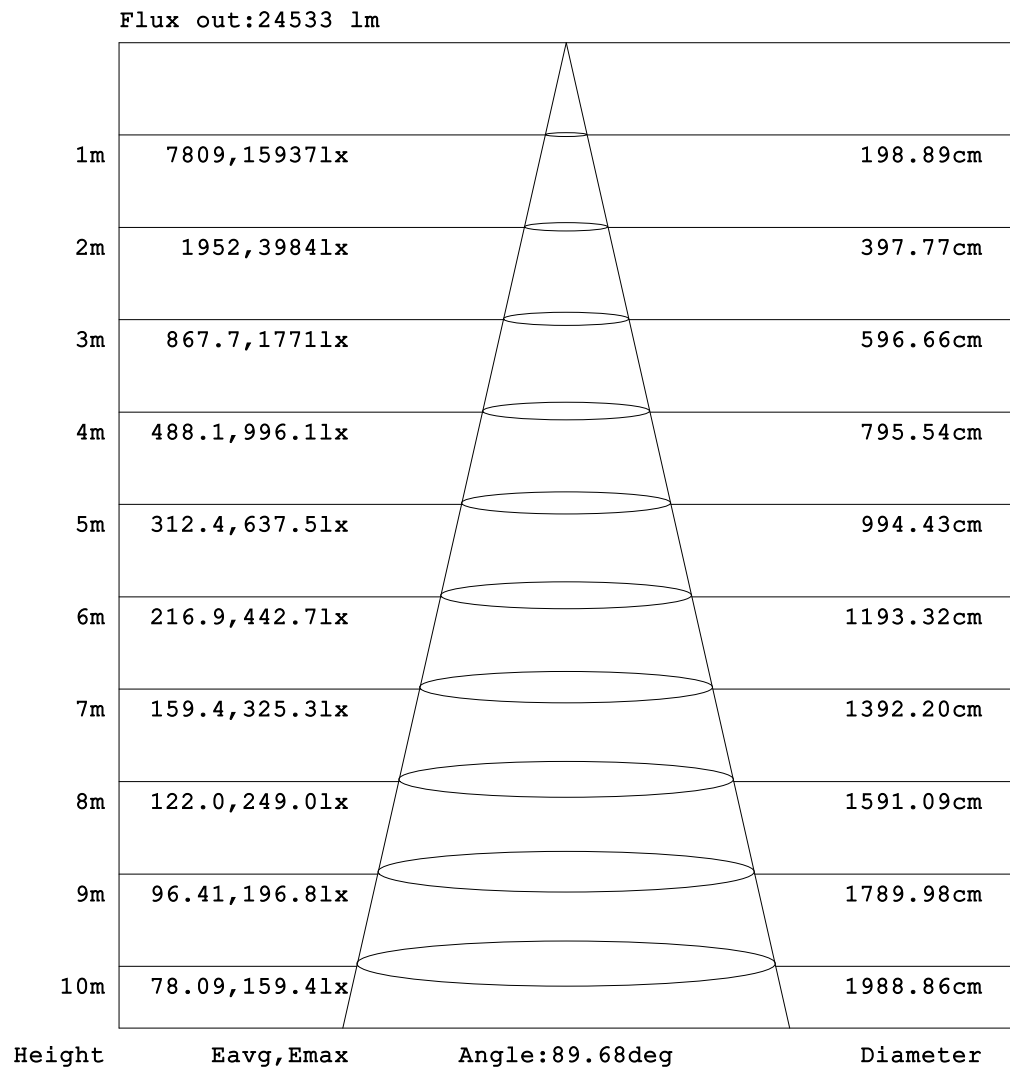


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-07-01

☐ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*0.335	Shielding Angle:

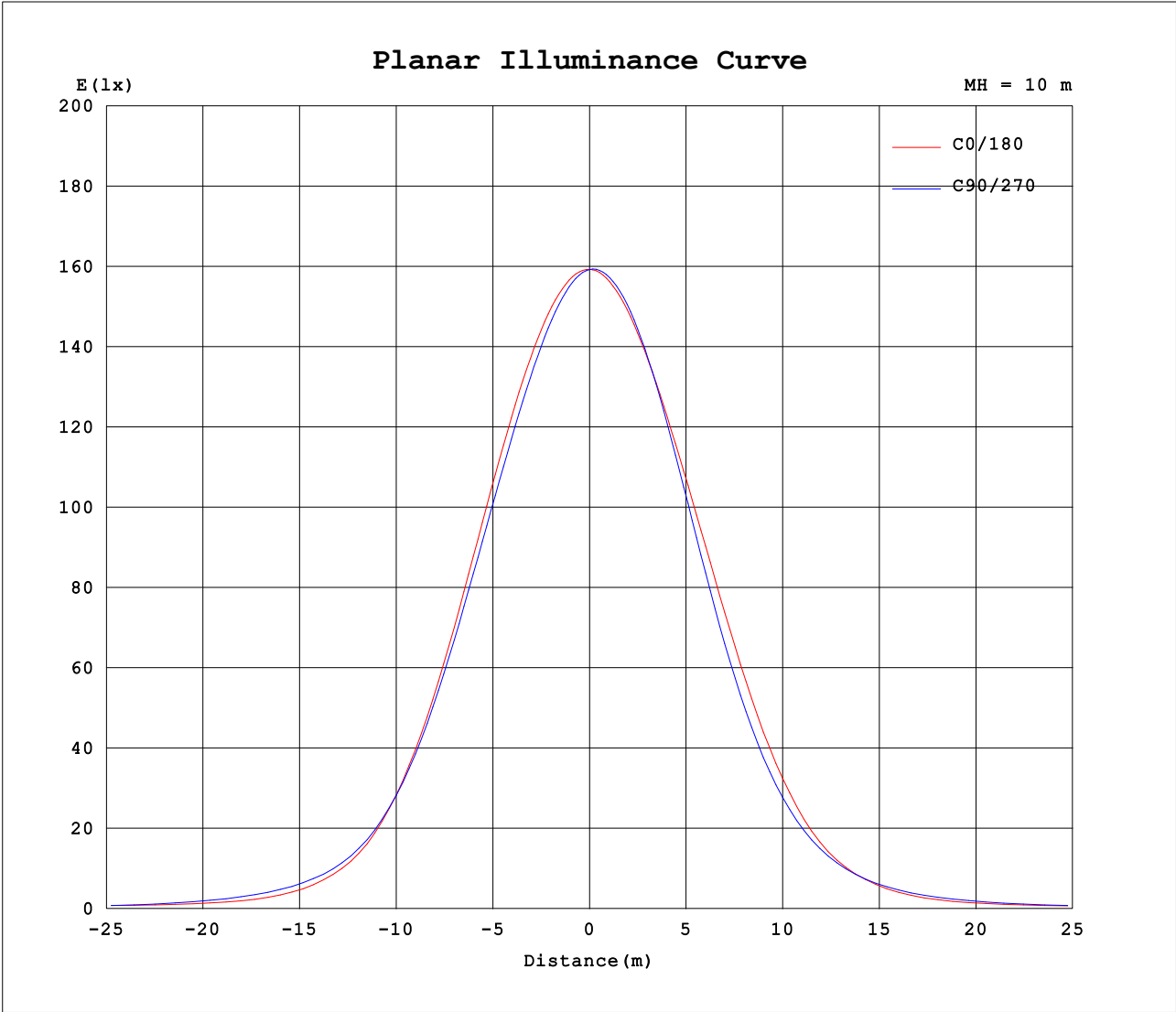


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-07-01

☐ 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:2025-07-01

☐ 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:119.5V I:1.768A P:210.6W PF:0.9972 Freq:59.98Hz Lamp Flux:35071.1x1 lm		
NAME: ASD-WHB5B-ST-220-BA	TYPE:	WEIGHT:
SPEC.:220W-5000K-90D	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.605*0.335	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	1593	1593	1593	1593	1593	1593	1593	1593										
5	1593	1585	1579	1581	1589	1595	1599	1598										
10	1588	1571	1558	1563	1580	1591	1595	1597										
15	1575	1550	1528	1539	1567	1580	1576	1587										
20	1550	1520	1488	1508	1546	1558	1537	1563										
25	1503	1477	1432	1467	1511	1520	1467	1519										
30	1417	1412	1348	1412	1451	1458	1357	1446										
35	1274	1308	1218	1324	1343	1357	1202	1329										
40	1066	1143	1029	1180	1165	1201	1007	1160										
45	802	915	799	963	919	986	785	940										
50	524	662	570	708	628	736	567	695										
55	320	448	398	482	388	505	394	475										
60	191	301	283	325	221	337	270	317										
65	149	190	196	204	151	210	192	203										
70	173	109	132	114	153	125	141	121										
75	179	66.1	89.2	67.1	183	81.7	102	81.5										
80	107	40.6	53.9	40.7	129	68.8	68.7	72.4										
85	18.8	14.2	20.5	14.6	28.2	37.8	33.3	39.4										
90	0.44	0.41	0.39	0.38	0.87	0.80	1.04	0.89										
95	0.52	0.50	0.50	0.49	0.93	0.96	0.95	0.99										
100	0.68	0.69	0.68	0.68	1.24	1.35	1.34	1.42										
105	0.93	0.95	0.93	0.94	1.70	1.88	1.86	2.00										
110	1.30	1.31	1.27	1.28	2.35	2.57	2.53	2.71										
115	1.77	1.74	1.69	1.68	3.22	3.39	3.34	3.54										
120	2.30	2.24	2.20	2.16	4.20	4.28	4.22	4.41										
125	2.91	2.78	2.78	2.69	5.20	5.18	5.14	5.27										
130	3.51	3.36	3.39	3.24	6.11	5.99	6.00	6.05										
135	4.07	3.98	4.01	3.81	6.87	6.72	6.76	6.76										
140	4.65	4.67	4.67	4.44	7.51	7.33	7.41	7.39										
145	5.34	5.42	5.37	5.14	8.05	7.87	7.97	7.97										
150	6.21	6.25	6.16	5.92	8.56	8.38	8.49	8.52										
155	7.15	7.12	6.99	6.78	9.02	8.83	8.96	9.01										
160	8.07	7.96	7.85	7.68	9.41	9.23	9.38	9.41										
165	8.87	8.69	8.63	8.52	9.72	9.55	9.71	9.72										
170	9.48	9.28	9.30	9.19	9.97	9.78	9.96	9.93										
175	9.90	9.70	9.81	9.69	10.1	9.89	10.1	10.0										
180	10.1	9.88	10.1	9.95	10.1	9.88	10.1	9.95										

C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:27DEG

Operators:lianghaizhu-1

Test Date:2025-07-01

□ 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: