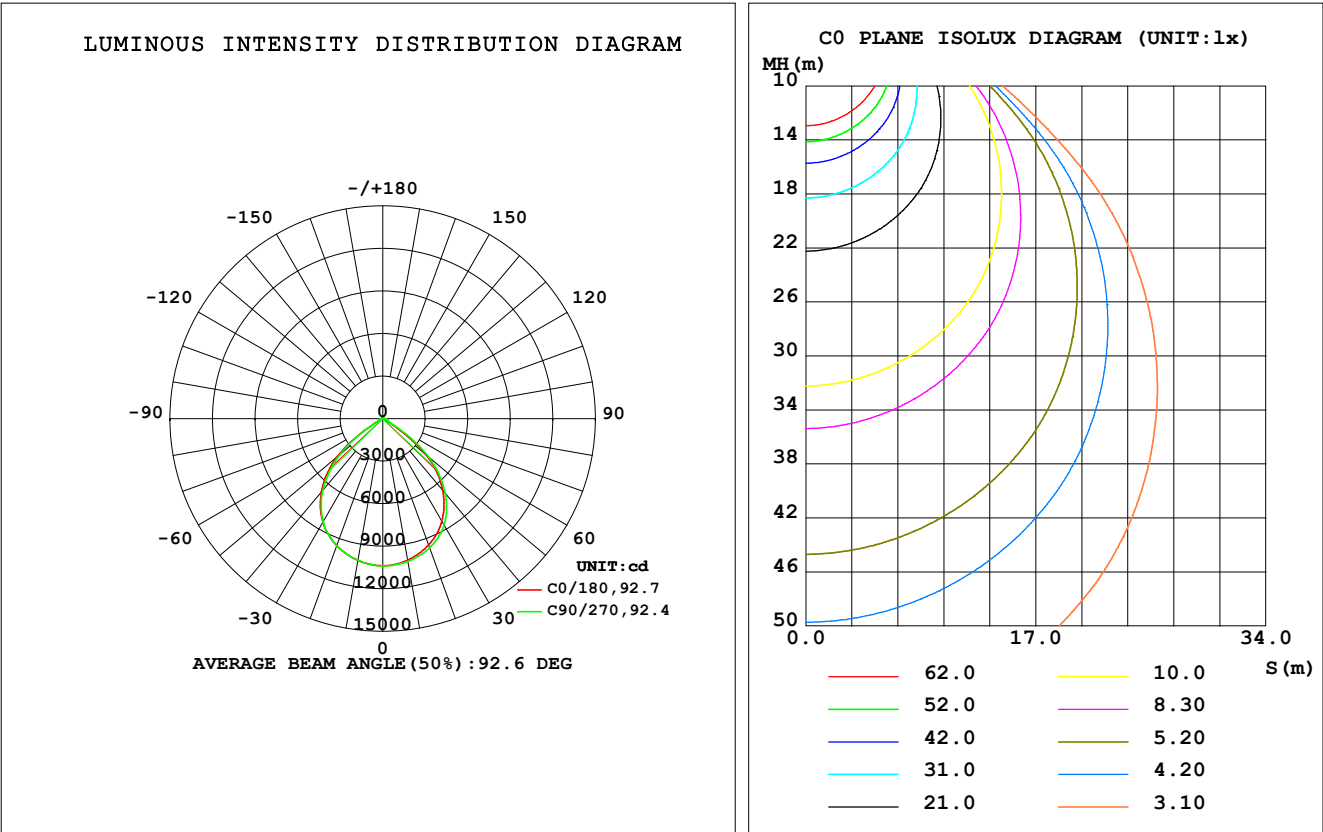


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm		
NAME: ASD-WHB5B-NEOX-100	TYPE:	WEIGHT:
SPEC.:100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 194.99 lm/W
MODEL	ASD-WHB5B-NEOX-100	I _{max} (cd)	10380	S/MH(C0/180)	1.21	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.21	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	19913	□ UP,DN(C0-180)	0.3,50.2	
NOMINAL FLUX(lm)	19913.3	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.4,49.1	
LAMPS INSIDE	1	□ up(%)	0.7	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	□ down(%)	99.3	CIBSE SHR MAX	1.30	



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-04-10

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1013	1018	1022	1018	1015	1013	1014	1014	0- 10	980.2	980.2	4.92,4.92
20	947.5	958.8	969.4	960.1	952.2	949.3	953.0	949.2	10- 20	2794	3774	19,19
30	834.5	847.2	865.8	852.0	845.1	835.7	841.5	832.4	20- 30	4172	7946	39.9,39.9
40	658.9	667.4	684.8	674.9	675.8	658.4	657.7	651.5	30- 40	4757	12703	63.8,63.8
50	401.3	417.4	425.6	422.8	427.2	410.9	397.2	403.1	40- 50	4198	16901	84.9,84.9
60	43.23	108.7	59.85	117.2	57.34	108.0	54.40	97.60	50- 60	2179	19080	95.8,95.8
70	25.88	28.04	30.80	30.40	25.85	29.24	30.80	28.36	60- 70	443.4	19524	98,98
80	10.76	9.909	17.40	10.43	12.82	10.43	16.41	10.44	70- 80	201.9	19726	99.1,99.1
90	0.1487	0.1474	0.2011	0.1779	0.2437	0.2342	0.2746	0.2424	80- 90	47.91	19773	99.3,99.3
100	0.2560	0.2590	0.2535	0.2532	0.4933	0.5584	0.5688	0.5874	90-100	2.867	19776	99.3,99.3
110	0.6133	0.6008	0.5908	0.5855	1.273	1.349	1.381	1.392	100-110	6.994	19783	99.3,99.3
120	1.171	1.137	1.133	1.111	2.434	2.504	2.565	2.547	110-120	13.69	19797	99.4,99.4
130	1.870	1.834	1.830	1.797	3.597	3.645	3.712	3.679	120-130	20.45	19817	99.5,99.5
140	2.675	2.665	2.621	2.606	4.577	4.613	4.670	4.642	130-140	24.63	19842	99.6,99.6
150	3.816	3.743	3.714	3.667	5.444	5.435	5.490	5.455	140-150	25.68	19868	99.8,99.8
160	5.022	4.882	4.892	4.810	6.077	6.001	6.073	6.006	150-160	23.25	19891	99.9,99.9
170	5.929	5.788	5.828	5.751	6.424	6.307	6.385	6.299	160-170	16.34	19907	100,100
180	6.436	6.282	6.362	6.265	6.443	6.289	6.365	6.267	170-180	5.920	19913	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 14955 lm

%lum = 75.1%

%lamp = 75.1%

Conical surface Flux(120deg): 19080 lm

%lum = 95.8%

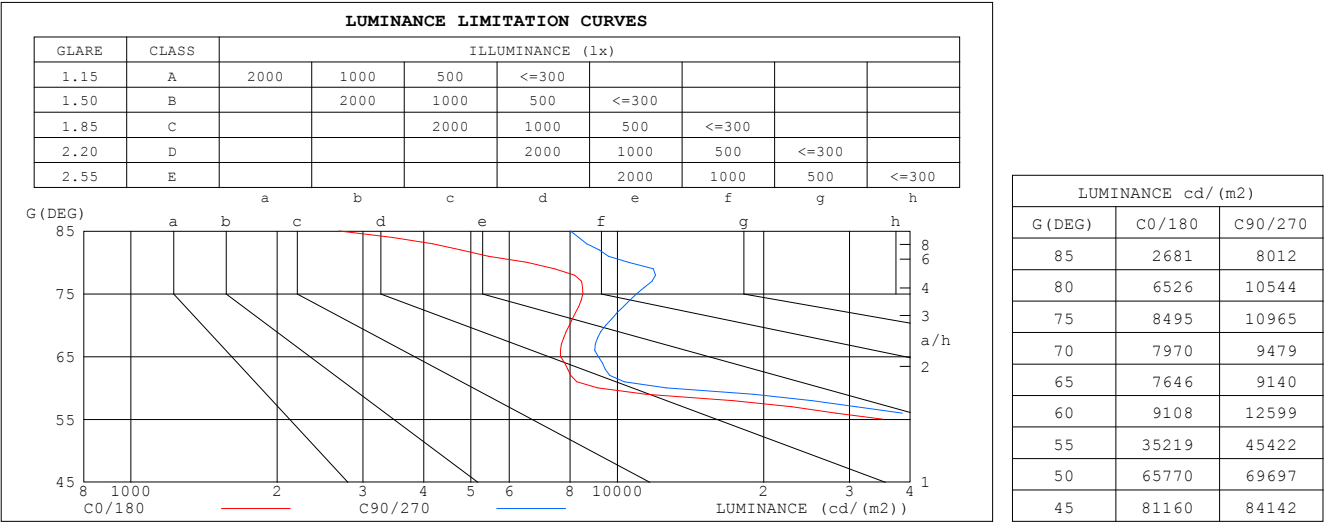
%lamp = 95.8%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-04-10

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm		
NAME: ASD-WHB5B-NEOX-100	TYPE:	WEIGHT:
SPEC.:100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm					
NAME: ASD-WHB5B-NEOX-100			TYPE:		WEIGHT:
SPEC.:100W-5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp.			SUR.:0.38*0.25		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	.228	.129	.041	.220	.126	.040	.207	.119	.038	.195	.112	.036	.184	.107	.034	
2.0	.222	.122	.037	.216	.119	.037	.205	.114	.035	.194	.109	.034	.184	.104	.033	
3.0	.213	.113	.034	.207	.111	.033	.197	.107	.033	.188	.103	.032	.180	.099	.031	
4.0	.202	.105	.031	.198	.103	.031	.189	.100	.030	.181	.097	.029	.173	.094	.029	
5.0	.192	.098	.028	.188	.096	.028	.180	.094	.028	.173	.091	.027	.166	.089	.027	
6.0	.182	.091	.026	.178	.090	.026	.171	.088	.025	.164	.085	.025	.158	.083	.025	
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.157	.080	.023	.151	.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	.138	.070	.020	
10.0	.147	.071	.020	.145	.070	.020	.140	.069	.019	.136	.067	.019	.132	.066	.019	

☐ 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	.180	.162	.146	.154	.139	.126	.105	.096	.087	.061	.055	.051	.019	.018	.016	
2.0	.168	.138	.112	.144	.119	.097	.099	.082	.067	.057	.048	.040	.018	.015	.013	
3.0	.159	.119	.088	.136	.103	.076	.094	.072	.053	.054	.042	.031	.017	.014	.010	
4.0	.151	.105	.071	.129	.091	.061	.089	.063	.043	.051	.037	.026	.017	.012	.008	
5.0	.144	.095	.058	.123	.082	.051	.085	.057	.036	.049	.034	.021	.016	.011	.007	
6.0	.137	.086	.049	.118	.074	.043	.081	.052	.030	.047	.031	.018	.015	.010	.006	
7.0	.131	.079	.042	.113	.068	.037	.078	.048	.026	.045	.028	.016	.015	.009	.005	
8.0	.125	.073	.037	.108	.063	.032	.075	.044	.023	.043	.026	.014	.014	.009	.005	
9.0	.120	.068	.033	.103	.059	.029	.072	.042	.020	.042	.025	.012	.014	.008	.004	
10.0	.115	.064	.030	.099	.055	.026	.069	.039	.018	.040	.023	.011	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm										
NAME: ASD-WHB5B-NEOX-100					TYPE:			WEIGHT:		
SPEC.:100W-5000K					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp.					SUR.:0.38*0.25			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	25.3	26.5	25.5	26.7	26.9	25.6	26.8	25.8	27.0	27.2
3H	25.1	26.3	25.4	26.5	26.7	25.5	26.6	25.8	26.9	27.1
4H	25.1	26.2	25.4	26.4	26.7	25.4	26.5	25.8	26.8	27.0
6H	25.0	26.0	25.3	26.3	26.6	25.4	26.4	25.8	26.7	27.0
8H	25.0	25.9	25.3	26.2	26.5	25.4	26.4	25.7	26.7	26.9
12H	24.9	25.9	25.3	26.2	26.5	25.4	26.3	25.7	26.6	26.9
4H 2H	25.2	26.2	25.5	26.5	26.7	25.5	26.5	25.8	26.8	27.1
3H	25.1	26.0	25.4	26.3	26.6	25.4	26.3	25.7	26.6	26.9
4H	25.0	25.9	25.4	26.2	26.5	25.4	26.2	25.8	26.5	26.9
6H	25.0	25.7	25.4	26.1	26.4	25.4	26.1	25.8	26.5	26.9
8H	25.0	25.6	25.4	26.0	26.4	25.4	26.1	25.8	26.4	26.8
12H	24.9	25.5	25.3	25.9	26.3	25.4	26.0	25.8	26.4	26.8
8H 4H	24.9	25.6	25.3	26.0	26.4	25.3	26.0	25.7	26.3	26.7
6H	24.9	25.5	25.3	25.9	26.3	25.3	25.9	25.8	26.3	26.7
8H	24.9	25.4	25.3	25.8	26.3	25.3	25.8	25.8	26.2	26.7
12H	24.8	25.3	25.3	25.7	26.2	25.3	25.7	25.8	26.2	26.7
12H 4H	24.9	25.5	25.3	25.9	26.3	25.2	25.9	25.7	26.2	26.7
6H	24.9	25.4	25.3	25.8	26.2	25.3	25.8	25.7	26.2	26.7
8H	24.8	25.3	25.3	25.7	26.2	25.3	25.7	25.8	26.2	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 3.5					+ 1.4 / - 2.5				
1.5H	+ 0.8 / - 1.3					+ 0.7 / - 1.1				
2.0H	+ 3.5 / - 7.8					+ 3.2 / - 6.7				

CIE Pub.117, 19913 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.4$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu-1
 Test Date:2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity:56%
 Test Distance:8.340m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm		
NAME: ASD-WHB5B-NEOX-100	TYPE:	WEIGHT:
SPEC.:100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

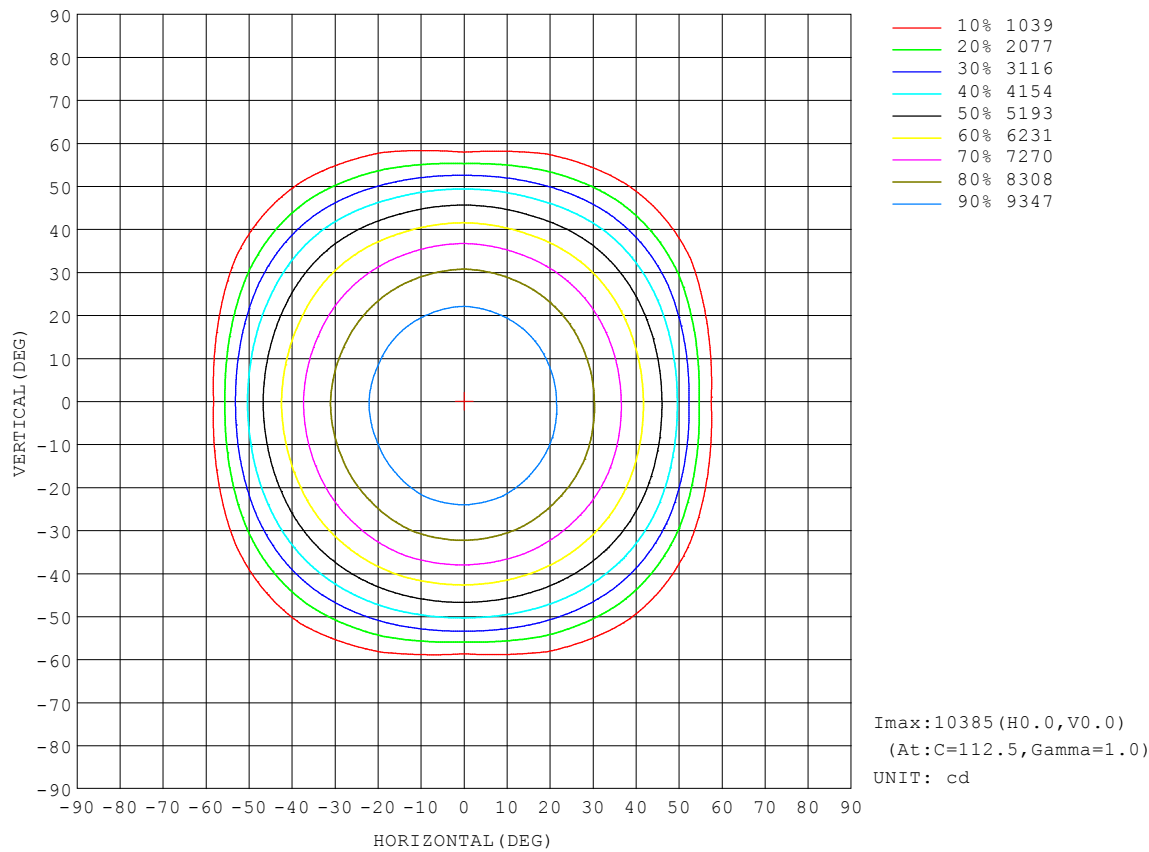
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	58	53	67	58	52	66	58	52	47
0.80	78	69	63	78	69	63	76	68	63	57
1.00	87	78	73	86	78	72	84	78	72	66
1.25	93	85	80	92	85	80	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	92	101	95	91	98	93	89	83
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	99	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	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: 22.5DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu-1
 Test Date: 2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 8.340m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm		
NAME: ASD-WHB5B-NEOX-100	TYPE:	WEIGHT:
SPEC.:100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

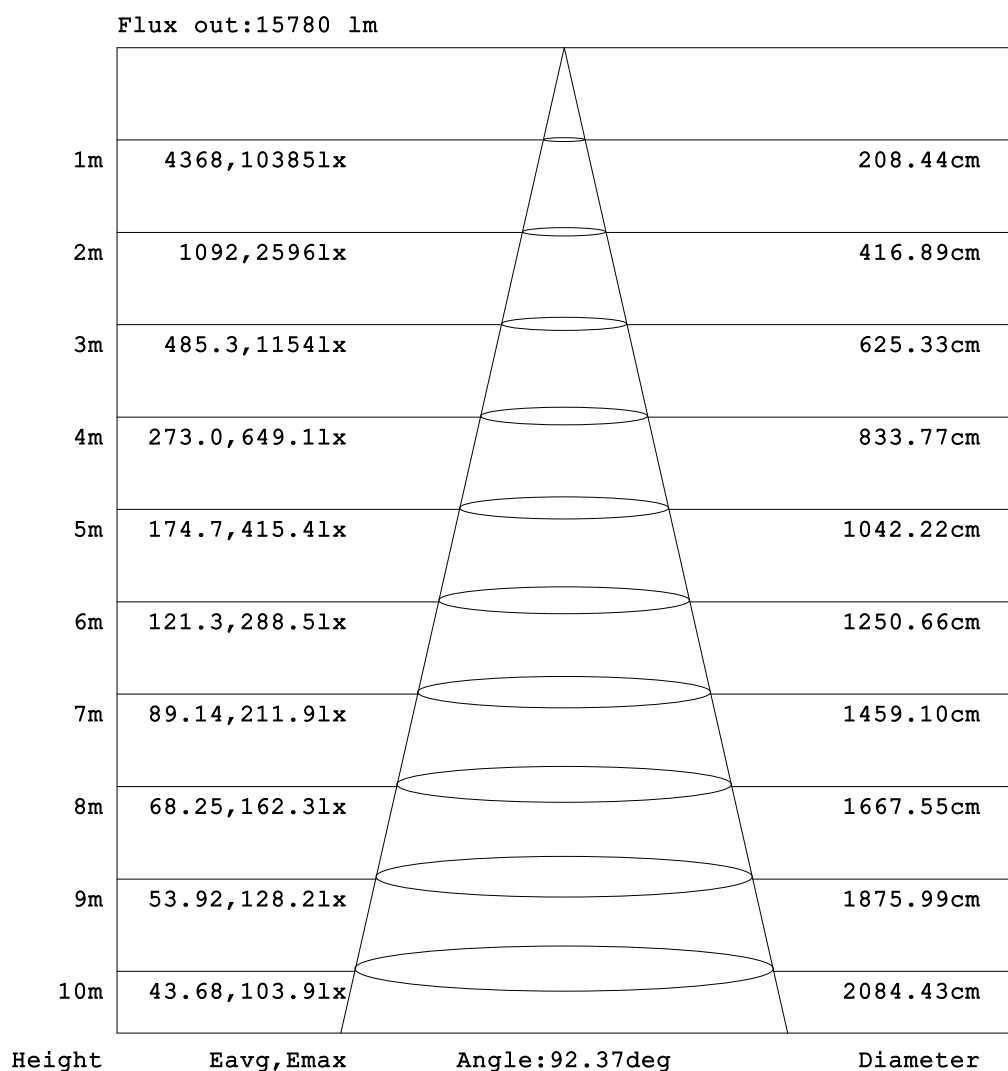


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm		
NAME: ASD-WHB5B-NEOX-100	TYPE:	WEIGHT:
SPEC.:100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

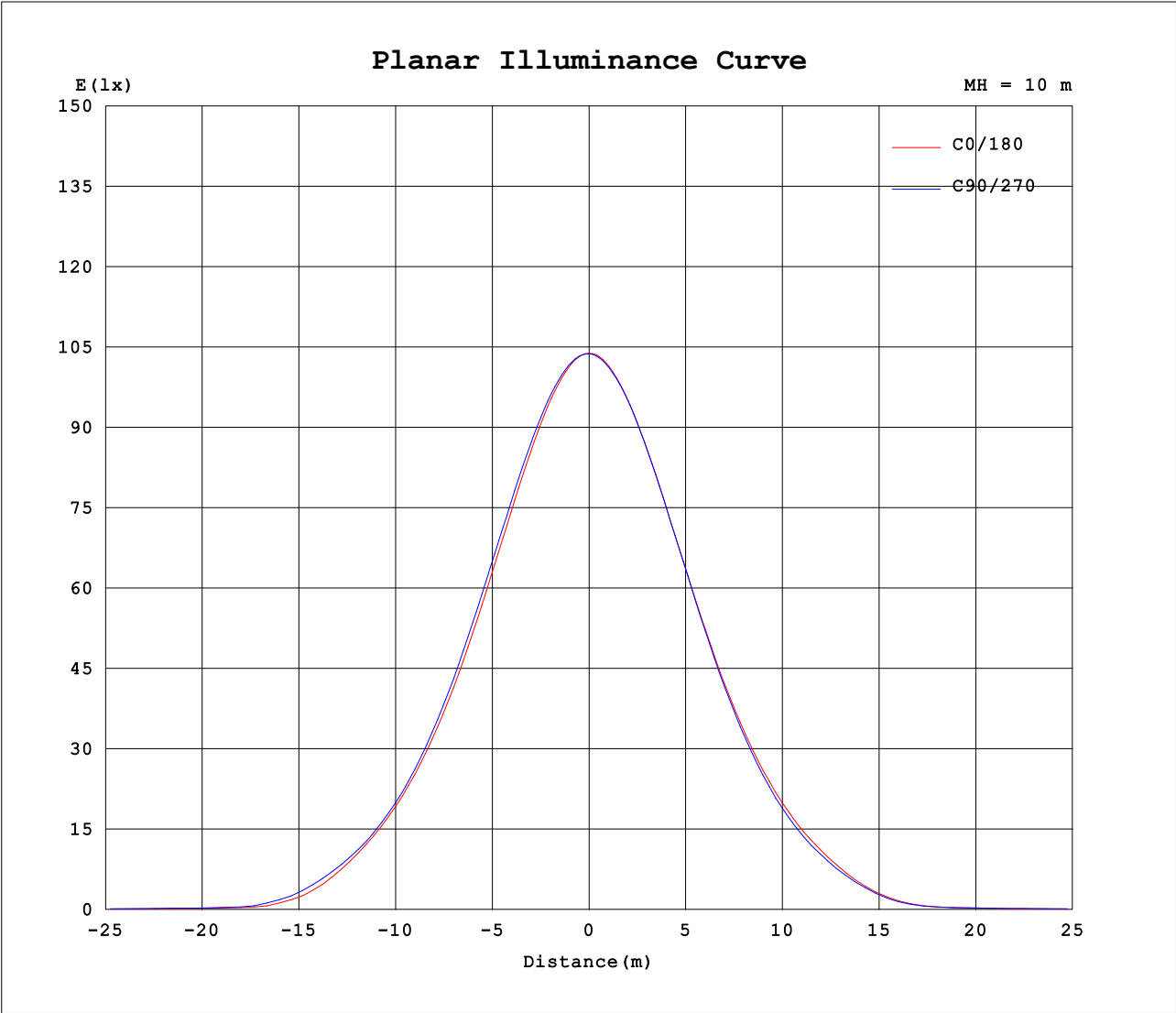


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 27DEG
 Operators: lianghaizhu-1
 Test Date: 2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.364
 Humidity: 56%
 Test Distance: 8.340m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu-1
Test Date:2025-04-10

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.364
Humidity:56%
Test Distance:8.340m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.8527A P:102.1W PF:0.9972 Freq:64.98Hz Lamp Flux:19913.3x1 lm		
NAME: ASD-WHB5B-NEOX-100	TYPE:	WEIGHT:
SPEC.:100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038			
5	1031	1032	1033	1035	1035	1035	1033	1033	1032	1031	1031	1031	1031	1031	1031	1031			
10	1013	1016	1018	1021	1022	1022	1018	1016	1015	1013	1013	1014	1014	1014	1014	1014			
15	985	990	994	999	1001	1000	994	990	988	986	986	987	989	987	987	986			
20	948	953	959	967	969	968	960	954	952	948	949	951	953	950	949	948			
25	899	905	911	922	926	924	914	907	905	900	900	902	906	901	898	897			
30	834	843	847	860	866	864	852	846	845	837	836	837	842	836	832	832			
35	754	763	766	780	785	785	772	769	768	758	755	755	759	752	750	751			
40	659	666	667	679	685	686	675	672	676	663	658	653	658	650	652	653			
45	545	552	552	560	565	566	558	558	564	549	544	532	536	529	537	539			
50	401	416	417	423	426	428	423	422	427	414	411	396	397	392	403	404			
55	192	244	260	263	248	268	267	257	234	253	254	241	218	235	243	240			
60	43.2	86.5	109	108	59.8	110	117	101	57.3	102	108	98.9	54.4	92.0	97.6	91.6			
65	30.7	34.3	42.5	42.3	36.7	44.2	48.8	41.1	32.2	38.3	44.5	39.4	35.3	38.1	42.1	35.7			
70	25.9	23.3	28.0	28.2	30.8	29.1	30.4	26.2	25.8	24.9	29.2	27.9	30.8	27.5	28.4	24.6			
75	20.9	15.7	14.9	19.5	27.0	19.7	15.3	17.0	21.3	16.8	15.5	19.9	27.0	19.5	15.0	16.7			
80	10.8	8.11	9.91	11.2	17.4	11.6	10.4	8.99	12.8	8.88	10.4	11.3	16.4	11.2	10.4	8.43			
85	2.22	2.28	3.08	4.43	6.63	4.76	3.73	2.95	3.51	2.89	3.78	4.45	6.75	4.45	3.51	2.42			
90	0.15	0.15	0.15	0.15	0.20	0.23	0.18	0.18	0.24	0.23	0.23	0.23	0.27	0.24	0.24	0.23			
95	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.16	0.27	0.30	0.32	0.34	0.33	0.35	0.35	0.33			
100	0.26	0.25	0.26	0.26	0.25	0.25	0.25	0.25	0.49	0.53	0.56	0.58	0.57	0.59	0.59	0.57			
105	0.41	0.39	0.40	0.40	0.39	0.38	0.39	0.38	0.83	0.87	0.90	0.93	0.92	0.94	0.93	0.92			
110	0.61	0.59	0.60	0.60	0.59	0.57	0.59	0.58	1.27	1.31	1.35	1.39	1.38	1.40	1.39	1.37			
115	0.87	0.84	0.85	0.85	0.84	0.82	0.83	0.83	1.82	1.87	1.90	1.94	1.95	1.97	1.95	1.93			
120	1.17	1.13	1.14	1.14	1.13	1.11	1.11	1.12	2.43	2.48	2.50	2.55	2.57	2.58	2.55	2.53			
125	1.51	1.46	1.46	1.47	1.47	1.44	1.43	1.44	3.04	3.09	3.09	3.14	3.16	3.18	3.13	3.11			
130	1.87	1.82	1.83	1.84	1.83	1.80	1.80	1.81	3.60	3.65	3.65	3.68	3.71	3.73	3.68	3.65			
135	2.26	2.22	2.23	2.24	2.21	2.19	2.19	2.20	4.10	4.16	4.15	4.18	4.21	4.24	4.18	4.15			
140	2.68	2.66	2.66	2.66	2.62	2.61	2.61	2.62	4.58	4.62	4.61	4.65	4.67	4.69	4.64	4.62			
145	3.20	3.18	3.17	3.15	3.12	3.10	3.10	3.11	5.02	5.05	5.04	5.08	5.09	5.11	5.07	5.06			
150	3.82	3.77	3.74	3.72	3.71	3.68	3.67	3.68	5.44	5.44	5.44	5.49	5.49	5.48	5.45	5.47			
155	4.45	4.38	4.33	4.31	4.33	4.27	4.25	4.28	5.80	5.77	5.75	5.82	5.82	5.79	5.77	5.82			
160	5.02	4.96	4.88	4.87	4.89	4.84	4.81	4.85	6.08	6.02	6.00	6.08	6.07	6.03	6.01	6.08			
165	5.51	5.45	5.37	5.36	5.39	5.35	5.31	5.36	6.29	6.20	6.19	6.26	6.26	6.19	6.19	6.26			
170	5.93	5.87	5.79	5.78	5.83	5.78	5.75	5.79	6.42	6.31	6.31	6.36	6.38	6.29	6.30	6.38			
175	6.27	6.17	6.10	6.13	6.17	6.09	6.08	6.14	6.48	6.36	6.34	6.39	6.42	6.33	6.33	6.41			
180	6.44	6.33	6.28	6.32	6.36	6.27	6.26	6.34	6.44	6.33	6.29	6.32	6.37	6.27	6.27	6.34			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:27DEG

Operators:lianghaizhu-1

Test Date:2025-04-10

□ Range: 0 - 180DEG

□ Interval: 1.0DEG

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

Humidity:56%

Test Distance:8.340m [K=1.0000]

Remarks: