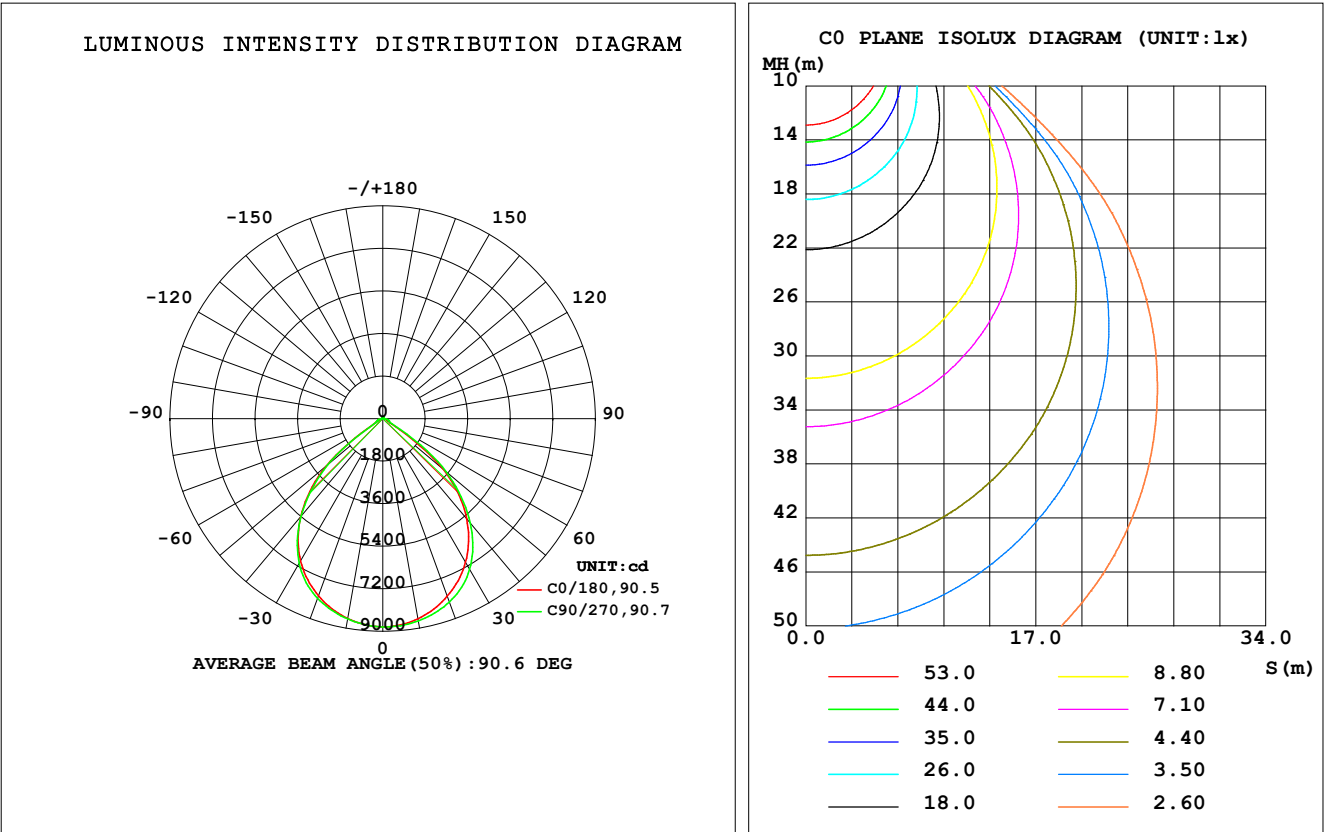


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm					
NAME: ASD-WHB5B-ST-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: 162.36 lm/W
MODEL	ASD-WHB5B-ST-100	I _{max} (cd)	8813	S/MH(C0/180)	1.18	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.20	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	16366	□ UP,DN(C0-180)	0.5,50.8	
NOMINAL FLUX(lm)	16366	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.5,48.2	
LAMPS INSIDE	1	□ up(%)	1.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	□ 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:2024-05-27

□ 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:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	8597	8645	8687	8663	8582	8579	8603	8589	0- 10	831.7	831.7	5.08,5.08
20	7993	8126	8255	8156	7969	7986	8086	8013	10- 20	2366	3198	19.5,19.5
30	7010	7160	7356	7193	6959	6917	7072	6969	20- 30	3514	6712	41,41
40	5528	5619	5759	5615	5400	5292	5373	5341	30- 40	3960	10672	65.2,65.2
50	3363	3476	3502	3390	3139	3042	3042	3137	40- 50	3407	14078	86,86
60	353.2	866.3	477.7	877.3	347.6	659.3	357.4	592.4	50- 60	1587	15665	95.7,95.7
70	217.7	223.9	248.9	244.3	218.5	211.3	239.3	201.3	60- 70	327.5	15993	97.7,97.7
80	84.75	94.06	135.7	98.41	87.85	84.90	101.6	80.51	70- 80	169.8	16162	98.8,98.8
90	3.825	3.869	3.731	3.871	3.785	3.986	3.972	3.985	80- 90	39.86	16202	99,99
100	7.600	7.467	7.496	7.571	7.840	8.270	8.388	8.209	90-100	6.118	16208	99,99
110	13.83	13.56	13.66	13.73	14.21	14.74	15.01	14.67	100-110	11.43	16220	99.1,99.1
120	21.94	21.49	21.76	21.72	22.91	23.55	23.93	23.32	110-120	18.06	16238	99.2,99.2
130	30.75	29.98	30.57	30.18	32.28	32.67	33.55	32.41	120-130	24.22	16262	99.4,99.4
140	39.22	38.30	38.91	38.32	40.90	41.15	42.24	40.95	130-140	27.64	16290	99.5,99.5
150	48.21	46.95	47.69	46.84	49.96	49.91	51.11	49.63	140-150	27.75	16317	99.7,99.7
160	57.66	56.17	57.15	56.01	59.41	58.87	60.39	58.57	150-160	24.58	16342	99.9,99.9
170	66.13	64.60	65.98	64.53	67.02	66.09	67.81	65.91	160-170	17.55	16360	100,100
180	69.87	68.56	70.27	68.46	69.90	68.54	70.29	68.45	170-180	6.448	16366	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12515 lm

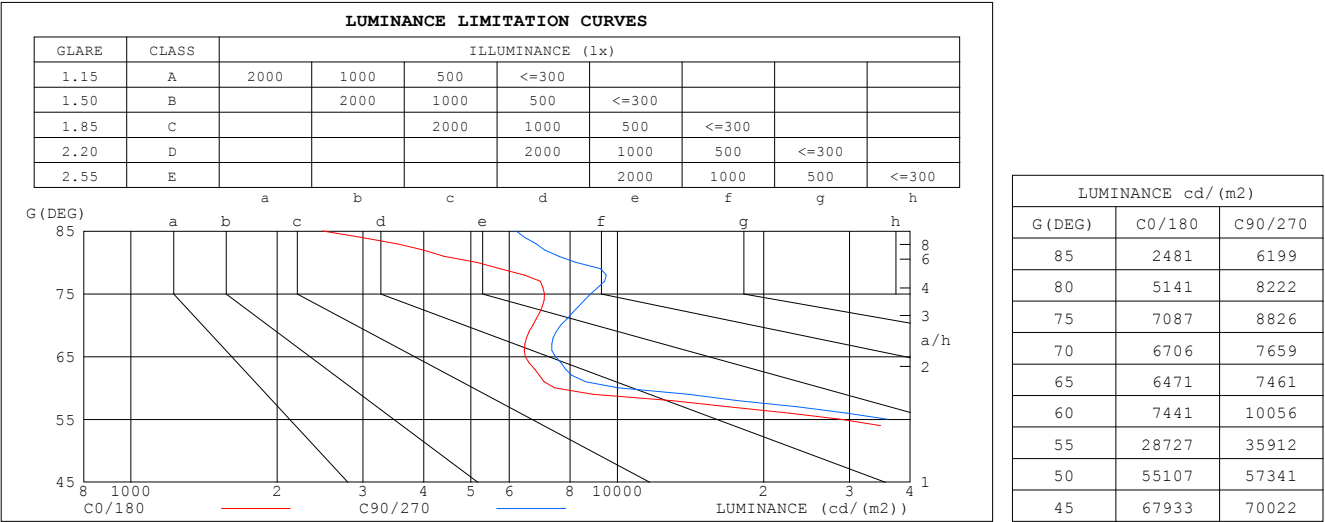
%lum = 76.5%
%lamp = 76.5%

Conical surface Flux(120deg): 15665 lm

%lum = 95.7%
%lamp = 95.7%

LUMINANCE LIMITATION CURVES

Test:U:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm		
NAME: ASD-WHB5B-ST-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: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-27

☐ 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:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm					
NAME: ASD-WHB5B-ST-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	.225	.128	.041	.218	.124	.039	.205	.117	.037	.192	.111	.036	.181	.105	.034	
2.0	.219	.120	.037	.213	.118	.036	.202	.112	.035	.191	.107	.034	.181	.103	.032	
3.0	.210	.112	.033	.205	.110	.033	.195	.105	.032	.185	.101	.031	.177	.098	.030	
4.0	.200	.104	.031	.195	.102	.030	.186	.099	.029	.178	.095	.029	.170	.092	.028	
5.0	.189	.097	.028	.185	.095	.028	.177	.092	.027	.170	.090	.027	.163	.087	.026	
6.0	.180	.090	.026	.176	.089	.026	.169	.086	.025	.162	.084	.025	.156	.082	.024	
7.0	.170	.084	.024	.167	.083	.024	.161	.081	.023	.155	.079	.023	.149	.077	.023	
8.0	.162	.079	.022	.159	.078	.022	.153	.076	.022	.147	.075	.022	.142	.073	.021	
9.0	.153	.074	.021	.151	.073	.021	.146	.072	.020	.141	.071	.020	.136	.069	.020	
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.134	.067	.019	.130	.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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.182	.165	.149	.156	.141	.128	.107	.097	.089	.061	.056	.051	.020	.018	.017	
2.0	.170	.140	.114	.146	.121	.099	.100	.083	.069	.058	.049	.040	.018	.016	.013	
3.0	.161	.122	.091	.138	.105	.079	.095	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.152	.108	.073	.131	.093	.064	.090	.065	.045	.052	.038	.027	.017	.012	.009	
5.0	.145	.097	.061	.125	.084	.053	.086	.059	.038	.050	.034	.022	.016	.011	.007	
6.0	.139	.088	.052	.119	.076	.045	.082	.053	.032	.048	.031	.019	.015	.010	.006	
7.0	.133	.081	.045	.114	.070	.039	.079	.049	.028	.046	.029	.017	.015	.010	.005	
8.0	.127	.075	.040	.109	.065	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.122	.070	.036	.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:2024-05-27

☐ 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:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm										
NAME: ASD-WHB5B-ST-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	24.6	25.8	24.8	26.0	26.2	24.9	26.1	25.1	26.3	26.5
3H	24.5	25.6	24.7	25.8	26.1	24.8	25.9	25.0	26.1	26.4
4H	24.4	25.5	24.7	25.7	26.0	24.7	25.8	25.0	26.0	26.3
6H	24.4	25.3	24.7	25.6	25.9	24.7	25.7	25.0	26.0	26.3
8H	24.3	25.3	24.7	25.6	25.9	24.7	25.6	25.0	25.9	26.2
12H	24.3	25.2	24.6	25.5	25.8	24.6	25.6	25.0	25.9	26.2
4H 2H	24.5	25.5	24.8	25.8	26.0	24.7	25.8	25.0	26.0	26.3
3H	24.4	25.3	24.7	25.6	25.9	24.7	25.6	25.0	25.9	26.2
4H	24.4	25.2	24.7	25.5	25.8	24.7	25.5	25.0	25.8	26.1
6H	24.3	25.1	24.7	25.4	25.8	24.7	25.4	25.1	25.8	26.1
8H	24.3	25.0	24.7	25.3	25.7	24.7	25.3	25.1	25.7	26.1
12H	24.3	24.9	24.7	25.3	25.7	24.7	25.3	25.1	25.7	26.1
8H 4H	24.3	24.9	24.7	25.3	25.7	24.5	25.2	25.0	25.6	26.0
6H	24.3	24.8	24.7	25.2	25.7	24.6	25.2	25.1	25.6	26.0
8H	24.2	24.7	24.7	25.2	25.6	24.6	25.1	25.1	25.5	26.0
12H	24.2	24.6	24.7	25.1	25.6	24.6	25.0	25.1	25.5	26.0
12H 4H	24.2	24.8	24.6	25.2	25.6	24.5	25.1	24.9	25.5	25.9
6H	24.2	24.7	24.7	25.1	25.6	24.6	25.1	25.0	25.5	26.0
8H	24.2	24.6	24.7	25.1	25.6	24.6	25.0	25.1	25.5	26.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 3.7					+ 1.6 / - 2.7				
1.5H	+ 0.8 / - 1.6					+ 0.7 / - 1.4				
2.0H	+ 3.6 / - 7.3					+ 3.3 / - 6.3				

CIE Pub.117, 16366 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.7$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-05-27

☐ 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:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm		
NAME: ASD-WHB5B-ST-100	TYPE:	WEIGHT:
SPEC.: 100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

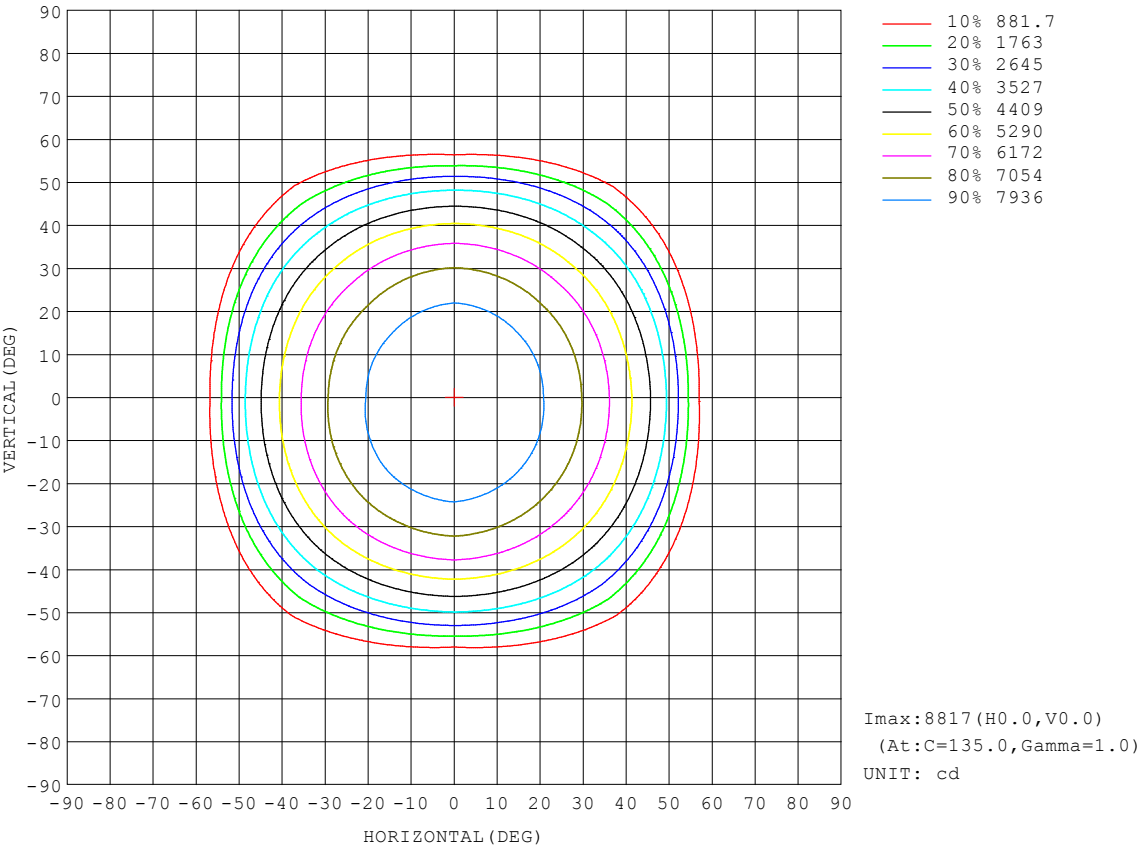
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	68	59	54	67	59	54	48
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	79	73	86	78	73	84	79	73	67
1.25	94	86	81	92	85	80	90	84	79	74
1.50	98	91	86	96	90	85	93	88	84	78
2.00	103	97	92	101	96	91	98	93	90	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	90
5.00	112	108	105	109	106	104	105	103	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: 2024-05-27

☐ 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:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm		
NAME: ASD-WHB5B-ST-100	TYPE:	WEIGHT:
SPEC.: 100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

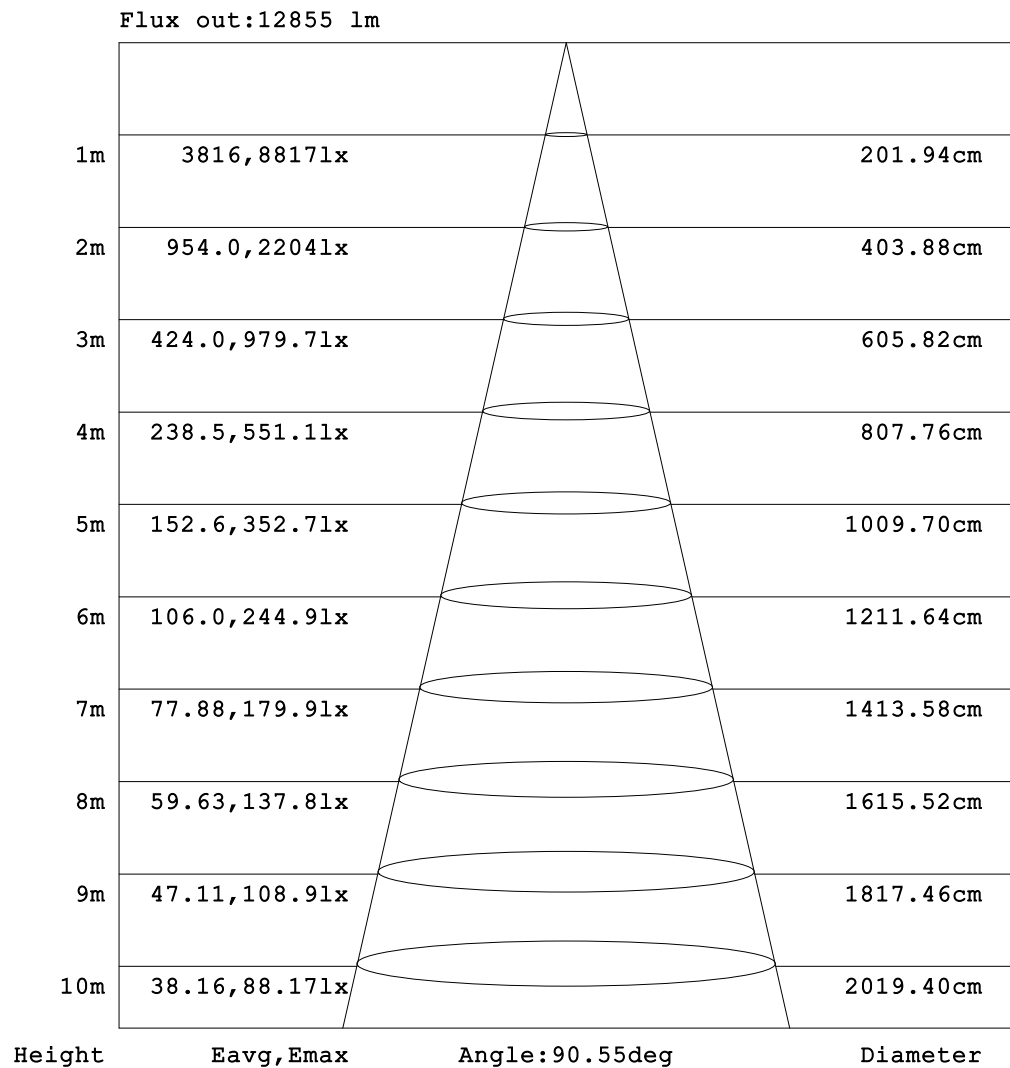


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-27

☐ 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:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm		
NAME: ASD-WHB5B-ST-100	TYPE:	WEIGHT:
SPEC.: 100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

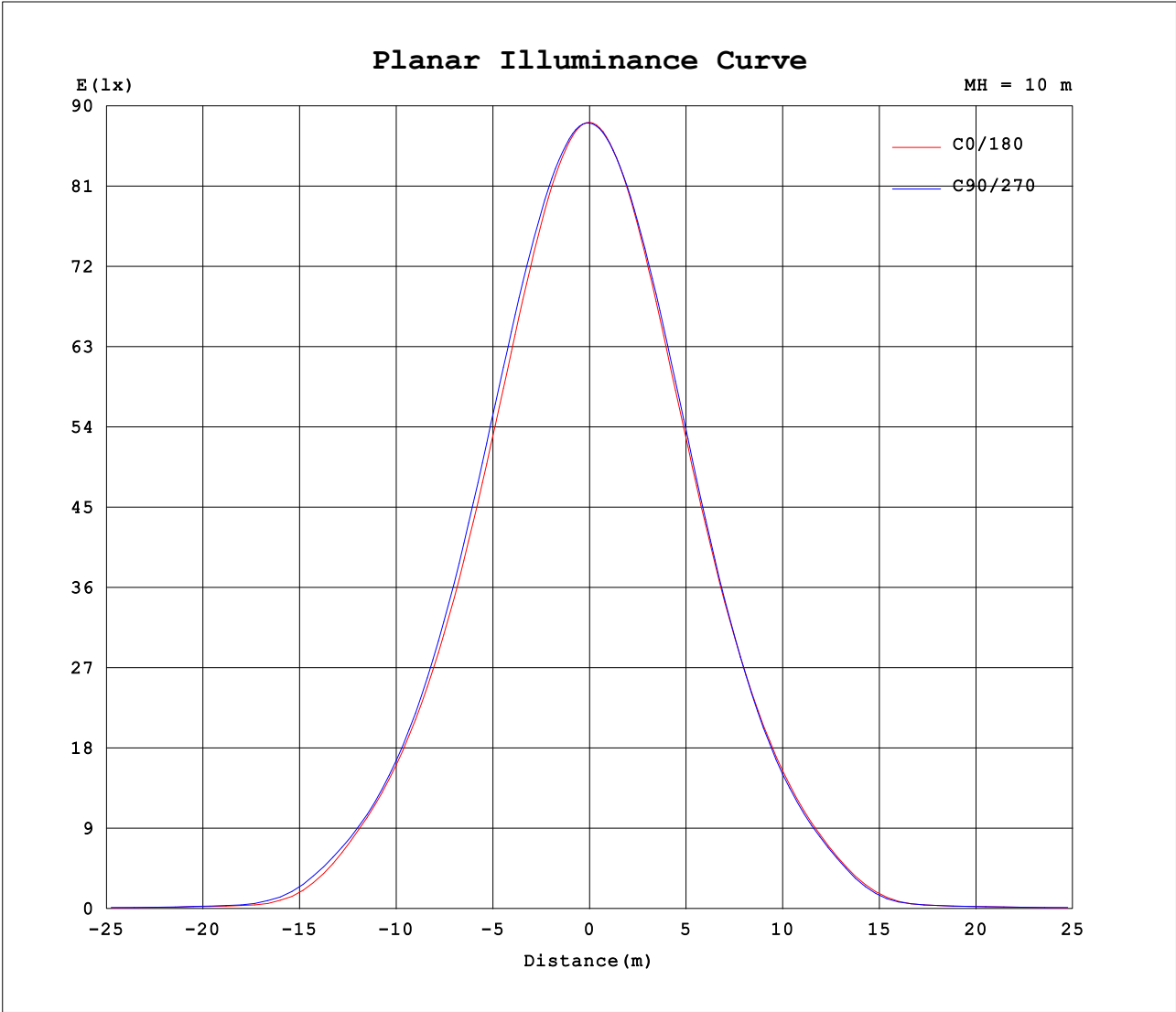


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:27DEG
 Operators:lianghaizhu
 Test Date:2024-05-27

☐ 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:2024-05-27

☐ 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:120.3V I:0.8431A P:100.8W PF:0.9942 Freq:59.98Hz Lamp Flux:16366x1 lm		
NAME: ASD-WHB5B-ST-100	TYPE:	WEIGHT:
SPEC.: 100W-5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:0.38*0.25	Shielding Angle:

Table--1									UNIT: cd									
C (DEG) □ (DEG)	0	45	90	135	180	225	270	315										
0	8811	8811	8811	8811	8811	8811	8811	8811										
5	8758	8776	8791	8781	8748	8740	8746	8746										
10	8597	8645	8687	8663	8582	8579	8603	8589										
15	8343	8426	8512	8453	8329	8329	8389	8347										
20	7993	8126	8255	8156	7969	7986	8086	8013										
25	7558	7712	7881	7750	7525	7518	7664	7565										
30	7010	7160	7356	7193	6959	6917	7072	6969										
35	6336	6466	6650	6484	6253	6178	6310	6226										
40	5528	5619	5759	5615	5400	5292	5373	5341										
45	4560	4623	4705	4582	4373	4244	4271	4307										
50	3363	3476	3502	3390	3139	3042	3042	3137										
55	1564	2150	1957	2074	1429	1713	1312	1736										
60	353	866	478	877	348	659	357	592										
65	260	339	300	383	262	316	272	301										
70	218	224	249	244	219	211	239	201										
75	174	129	217	135	178	122	204	119										
80	84.7	94.1	136	98.4	87.8	84.9	102	80.5										
85	20.5	33.0	51.3	37.3	20.3	21.8	34.3	18.9										
90	3.83	3.87	3.73	3.87	3.79	3.99	3.97	3.98										
95	5.28	5.25	5.21	5.32	5.42	5.84	5.89	5.81										
100	7.60	7.47	7.50	7.57	7.84	8.27	8.39	8.21										
105	10.4	10.3	10.3	10.4	10.7	11.2	11.4	11.1										
110	13.8	13.6	13.7	13.7	14.2	14.7	15.0	14.7										
115	17.7	17.3	17.5	17.5	18.3	18.9	19.2	18.8										
120	21.9	21.5	21.8	21.7	22.9	23.6	23.9	23.3										
125	26.3	25.7	26.2	25.9	27.7	28.2	28.9	27.9										
130	30.7	30.0	30.6	30.2	32.3	32.7	33.6	32.4										
135	35.1	34.2	34.9	34.3	36.6	36.9	38.0	36.7										
140	39.2	38.3	38.9	38.3	40.9	41.1	42.2	40.9										
145	43.6	42.6	43.2	42.5	45.3	45.5	46.6	45.3										
150	48.2	46.9	47.7	46.8	50.0	49.9	51.1	49.6										
155	52.9	51.5	52.2	51.4	54.7	54.4	55.8	54.1										
160	57.7	56.2	57.2	56.0	59.4	58.9	60.4	58.6										
165	62.3	60.7	61.9	60.6	63.8	63.1	64.7	62.8										
170	66.1	64.6	66.0	64.5	67.0	66.1	67.8	65.9										
175	68.8	67.2	68.8	67.1	69.1	67.9	69.7	67.8										
180	69.9	68.6	70.3	68.5	69.9	68.5	70.3	68.5										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:27DEG
Operators:lianghaizhu
Test Date:2024-05-27

□ 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: