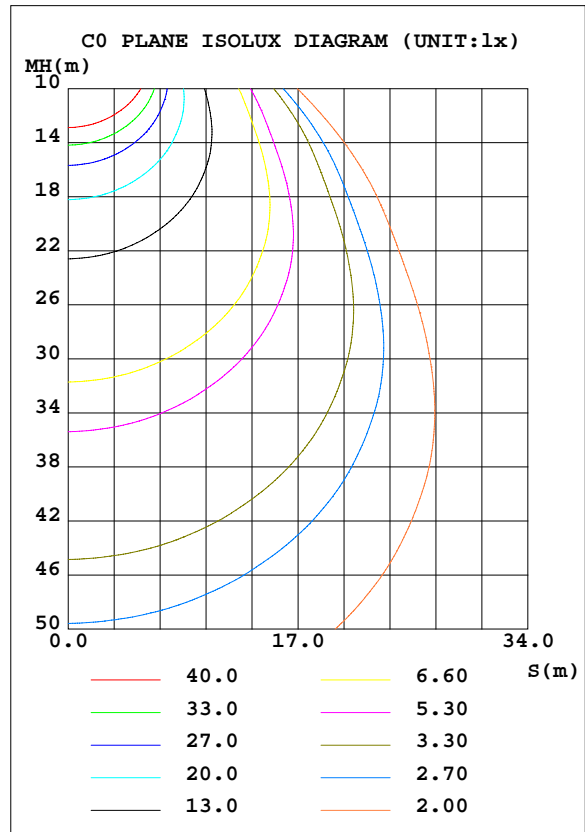
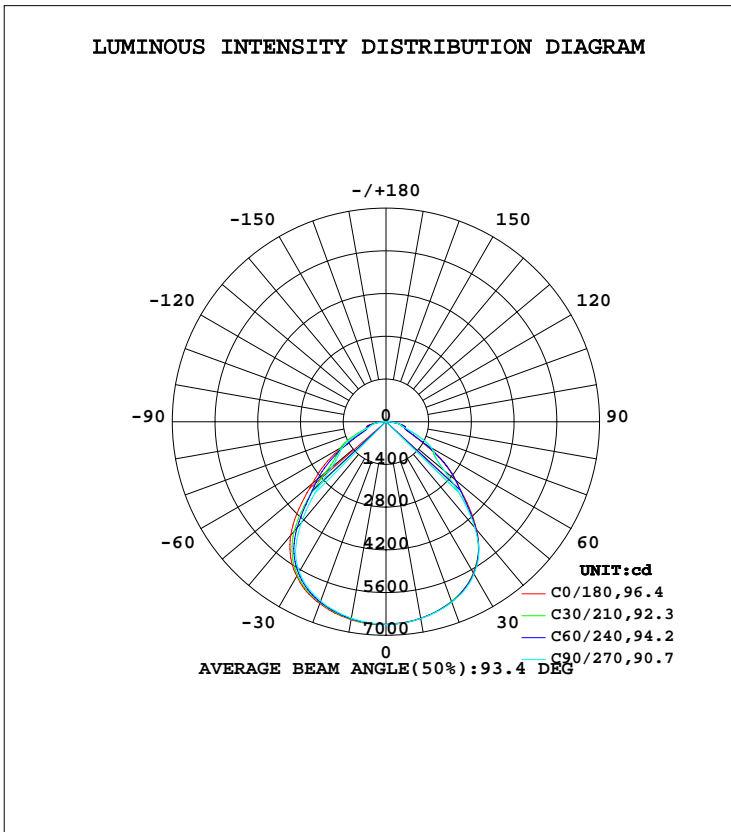


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.28 lm/W			
MODEL	ASD-WHB5M-2D11050-MSR	I _{max} (cd)	6651	S/MH(C0/180)	1.30
NOMINAL POWER(W)	110	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	15290	η UP, DN(C0-180)	0.1,50.4
NOMINAL FLUX(lm)	15290	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,49.4
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	6542	6544	6546	6571	6588	6562	6535	6531	0- 10	629.6	629.6	4.11,4.11
20	6274	6277	6296	6321	6343	6301	6254	6252	10- 20	1820	2450	16,16
30	5719	5750	5765	5818	5845	5767	5683	5677	20- 30	2795	5245	34.2,34.2
40	4622	4564	4535	4728	4858	4599	4314	4428	30- 40	3282	8527	55.7,55.7
50	2963	2718	2502	2877	3153	2761	2325	2621	40- 50	2787	11315	73.9,73.9
60	1440	1727	1728	1790	1655	1706	1607	1624	50- 60	1938	13253	86.5,86.5
70	665.6	901.4	787.2	917.4	695.1	894.2	701.6	848.7	60- 70	1165	14418	94.1,94.1
80	454.1	411.3	432.9	433.3	514.2	408.5	384.0	365.9	70- 80	656.9	15075	98.4,98.4
90	7.634	8.808	9.990	53.99	35.18	12.01	2.717	4.087	80- 90	221.0	15296	99.9,99.9
100	2.310	0.9687	0.6267	0.9985	1.585	1.456	1.309	1.710	90-100	3.056	15299	99.9,99.9
110	2.363	1.633	1.019	1.685	2.195	2.122	1.832	2.266	100-110	1.818	15301	99.9,99.9
120	2.613	1.910	1.621	2.083	2.762	2.707	2.565	2.646	110-120	2.000	15303	99.9,99.9
130	2.822	2.481	2.463	2.813	3.858	4.072	4.029	3.723	120-130	2.442	15305	99.9,99.9
140	3.352	3.193	3.366	3.535	4.849	5.109	5.147	4.702	130-140	2.854	15308	100,100
150	3.993	3.779	4.092	4.217	5.617	6.017	6.027	5.627	140-150	2.821	15311	100,100
160	4.737	4.707	5.049	5.037	6.391	6.704	6.755	6.325	150-160	2.429	15313	100,100
170	5.487	5.654	5.684	5.627	6.664	6.630	6.815	6.731	160-170	1.686	15315	100,100
180	6.308	6.308	6.308	6.308	6.415	6.415	6.415	6.415	170-180	0.5949	15316	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10044 lm

%lum = 65.6%

%lamp = 65.6%

Conical surface Flux(120deg): 13253 lm

%lum = 86.5%

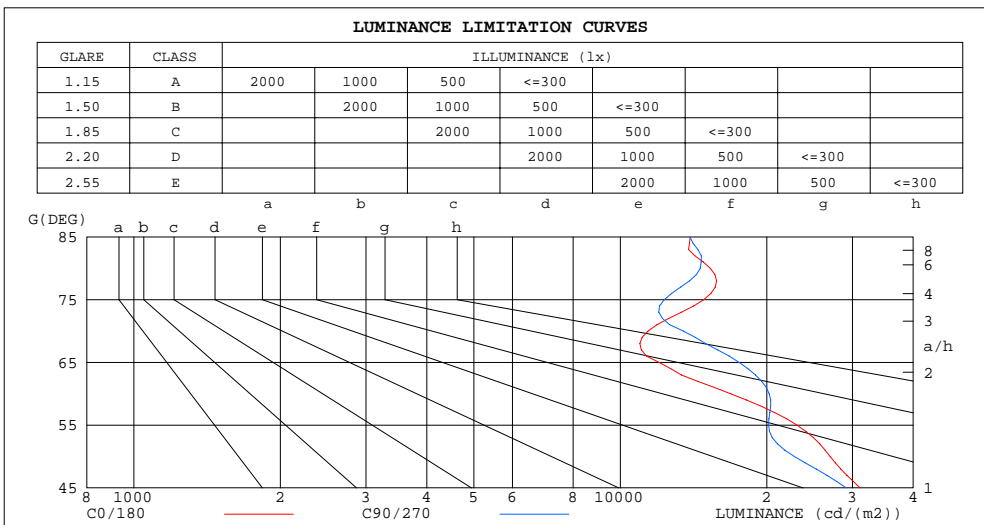
%lamp = 86.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	13913	13907
80	15315	14600
75	14845	12310
70	11398	13480
65	12026	17546
60	16869	20238
55	23078	20167
50	26995	22801
45	31106	29146

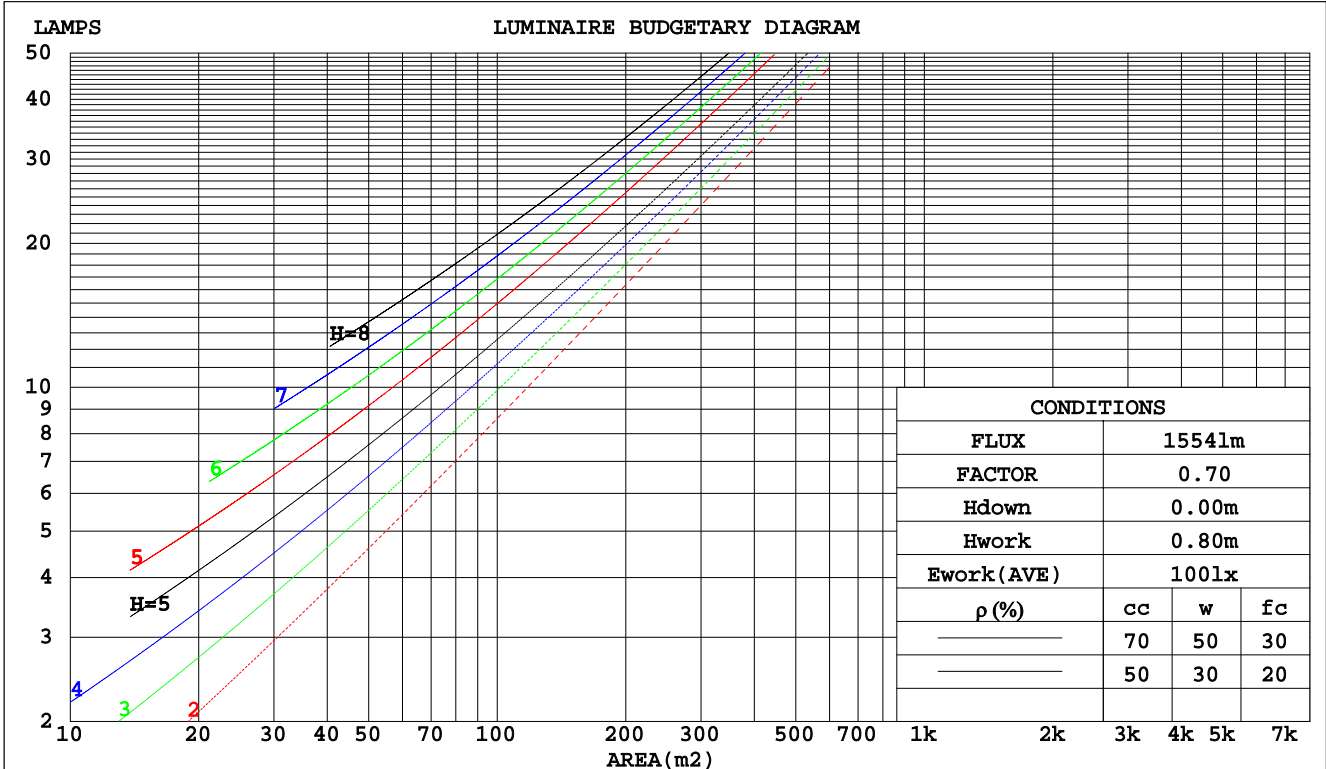
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.86	.82	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.70	.82	.75	.70	.79	.73	.69	.77	.72	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.68	.59	.53	.67	.59	.53	.65	.58	.52	.63	.57	.52	.61	.56	.51	.49
6.0	.61	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.41	.35	.31	.29



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.273	.155	.049	.266	.152	.048	.253	.145	.046	.241	.139	.045	.230	.133	.043	
2.0	.259	.142	.044	.253	.139	.043	.241	.134	.042	.231	.129	.041	.221	.125	.039	
3.0	.242	.129	.039	.237	.127	.038	.227	.123	.037	.217	.119	.037	.209	.116	.036	
4.0	.226	.117	.035	.221	.116	.034	.212	.113	.034	.204	.110	.033	.196	.107	.032	
5.0	.211	.107	.031	.207	.106	.031	.199	.104	.030	.192	.101	.030	.185	.099	.030	
6.0	.197	.099	.028	.194	.098	.028	.187	.096	.028	.180	.094	.028	.174	.092	.027	
7.0	.185	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.164	.085	.025	
8.0	.174	.085	.024	.171	.084	.024	.165	.083	.024	.160	.081	.023	.155	.080	.023	
9.0	.164	.079	.022	.161	.079	.022	.156	.077	.022	.152	.076	.022	.147	.075	.022	
10.0	.155	.074	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.140	.070	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.179	.157	.138	.153	.135	.119	.105	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.169	.133	.103	.145	.115	.089	.099	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.160	.115	.079	.137	.099	.069	.094	.069	.048	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.063	.131	.088	.055	.090	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.145	.091	.051	.124	.079	.044	.086	.055	.031	.050	.032	.019	.016	.011	.006	
6.0	.138	.082	.042	.118	.071	.037	.082	.050	.026	.047	.029	.016	.015	.010	.005	
7.0	.131	.075	.036	.113	.065	.031	.078	.046	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.031	.108	.060	.027	.075	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.065	.027	.103	.056	.024	.071	.039	.017	.042	.023	.010	.013	.008	.003	
10.0	.114	.060	.024	.098	.052	.021	.068	.037	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-WHB5M-2D11050-MSR					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp					SUR.:			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	22.0	23.5	22.4	23.8	24.2	22.1	23.6	22.5	24.0	24.3
3H	23.2	24.6	23.6	24.9	25.3	23.4	24.7	23.8	25.0	25.4
4H	23.8	25.1	24.2	25.4	25.8	23.8	25.1	24.2	25.4	25.8
6H	24.3	25.5	24.7	25.8	26.2	24.3	25.4	24.7	25.8	26.2
8H	24.5	25.6	24.9	26.0	26.4	24.4	25.5	24.9	25.9	26.3
12H	24.6	25.6	25.0	26.0	26.4	24.6	25.6	25.0	26.0	26.4
4H 2H	22.4	23.7	22.9	24.1	24.4	22.6	23.8	23.0	24.2	24.6
3H	23.8	24.8	24.2	25.2	25.6	23.9	24.9	24.3	25.3	25.7
4H	24.5	25.4	24.9	25.8	26.3	24.5	25.5	25.0	25.9	26.3
6H	25.1	25.9	25.6	26.4	26.8	25.2	26.0	25.6	26.4	26.9
8H	25.3	26.1	25.8	26.5	27.0	25.4	26.2	25.9	26.6	27.1
12H	25.5	26.1	26.0	26.6	27.1	25.6	26.3	26.1	26.8	27.2
8H 4H	24.7	25.5	25.2	25.9	26.4	24.8	25.6	25.3	26.0	26.5
6H	25.5	26.1	26.0	26.6	27.1	25.6	26.3	26.1	26.8	27.2
8H	25.8	26.4	26.3	26.9	27.4	26.0	26.5	26.5	27.0	27.5
12H	26.0	26.5	26.6	27.0	27.6	26.2	26.8	26.8	27.2	27.8
12H 4H	24.8	25.4	25.3	25.9	26.4	24.9	25.6	25.4	26.0	26.5
6H	25.6	26.2	26.1	26.6	27.2	25.7	26.3	26.2	26.7	27.3
8H	25.9	26.4	26.4	26.9	27.5	26.1	26.6	26.6	27.1	27.7
CIE190: 2010										

CIE190: 2010
Area: 0.170742 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 05 June 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.7%
Test Distance: 2.500m [K=1.0462]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

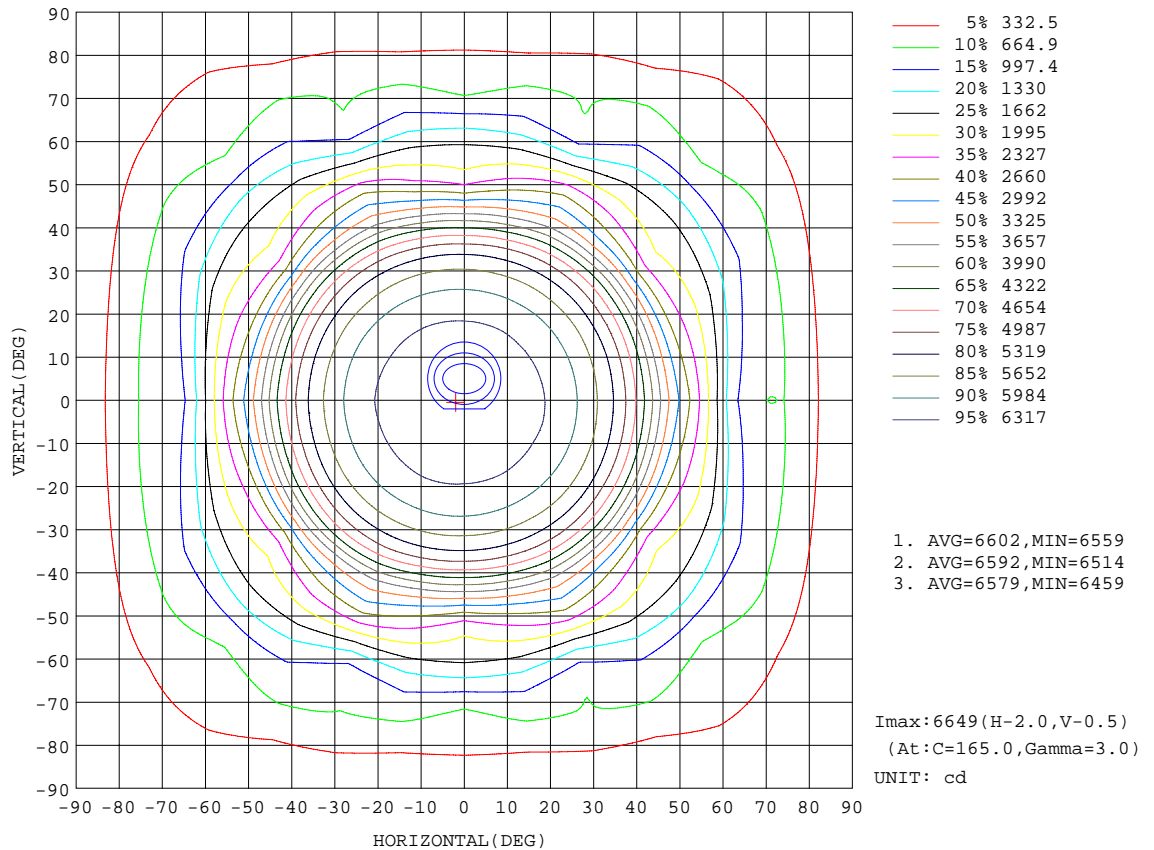
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	53	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	62	56	50
1.00	82	72	66	81	72	65	79	73	65	59
1.25	88	79	73	87	79	73	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	91	86	97	90	85	94	88	84	76
2.50	102	95	90	100	94	89	96	91	87	80
3.00	105	99	94	103	97	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	102	108	104	101	103	100	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

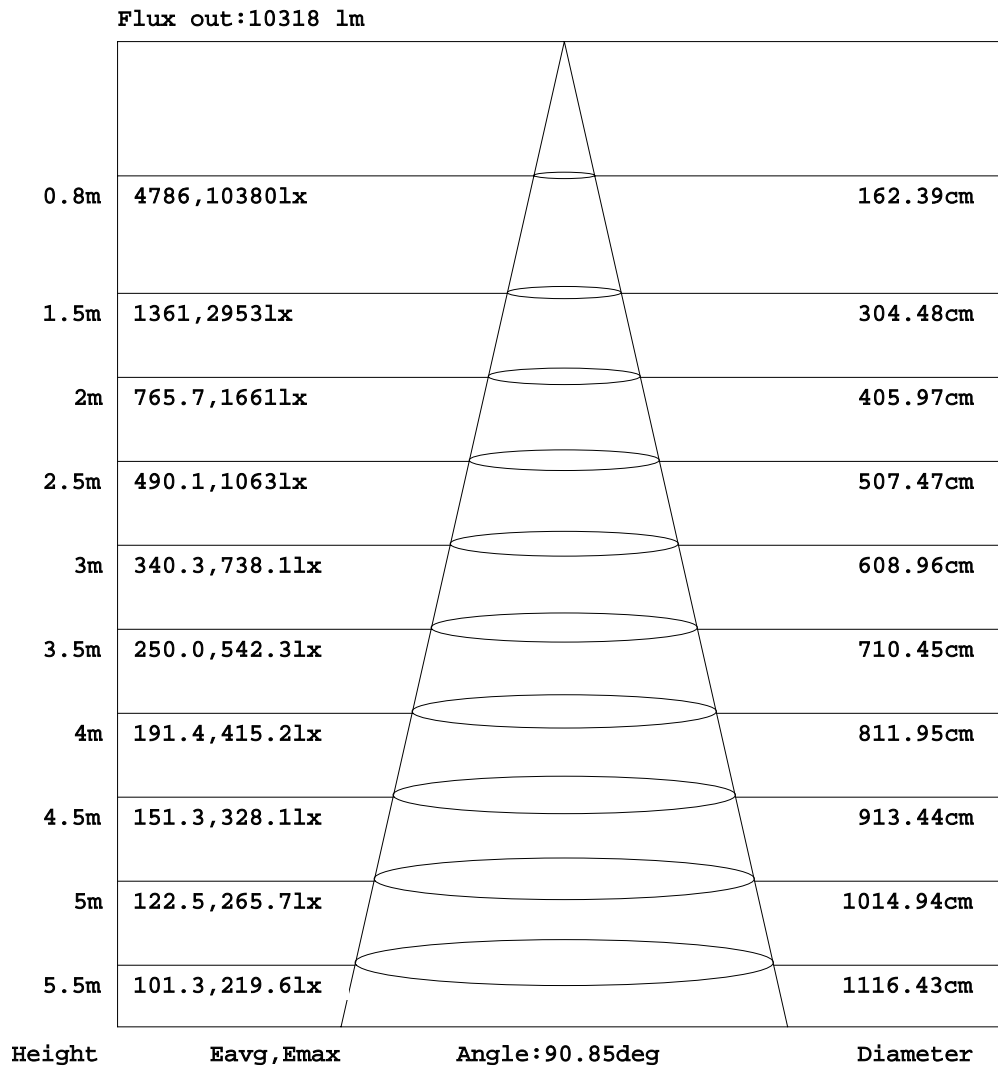


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

AAI Figure

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



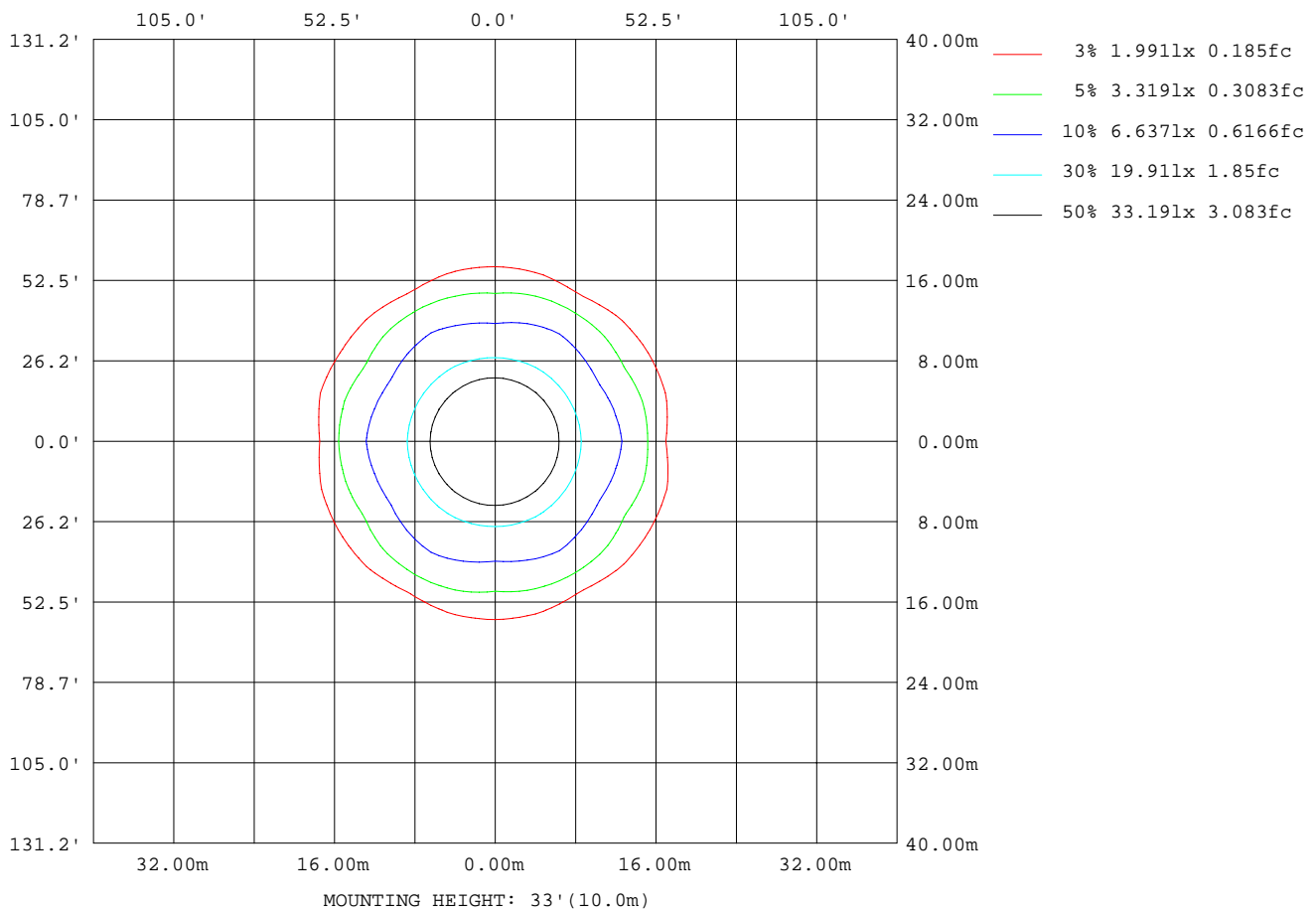
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

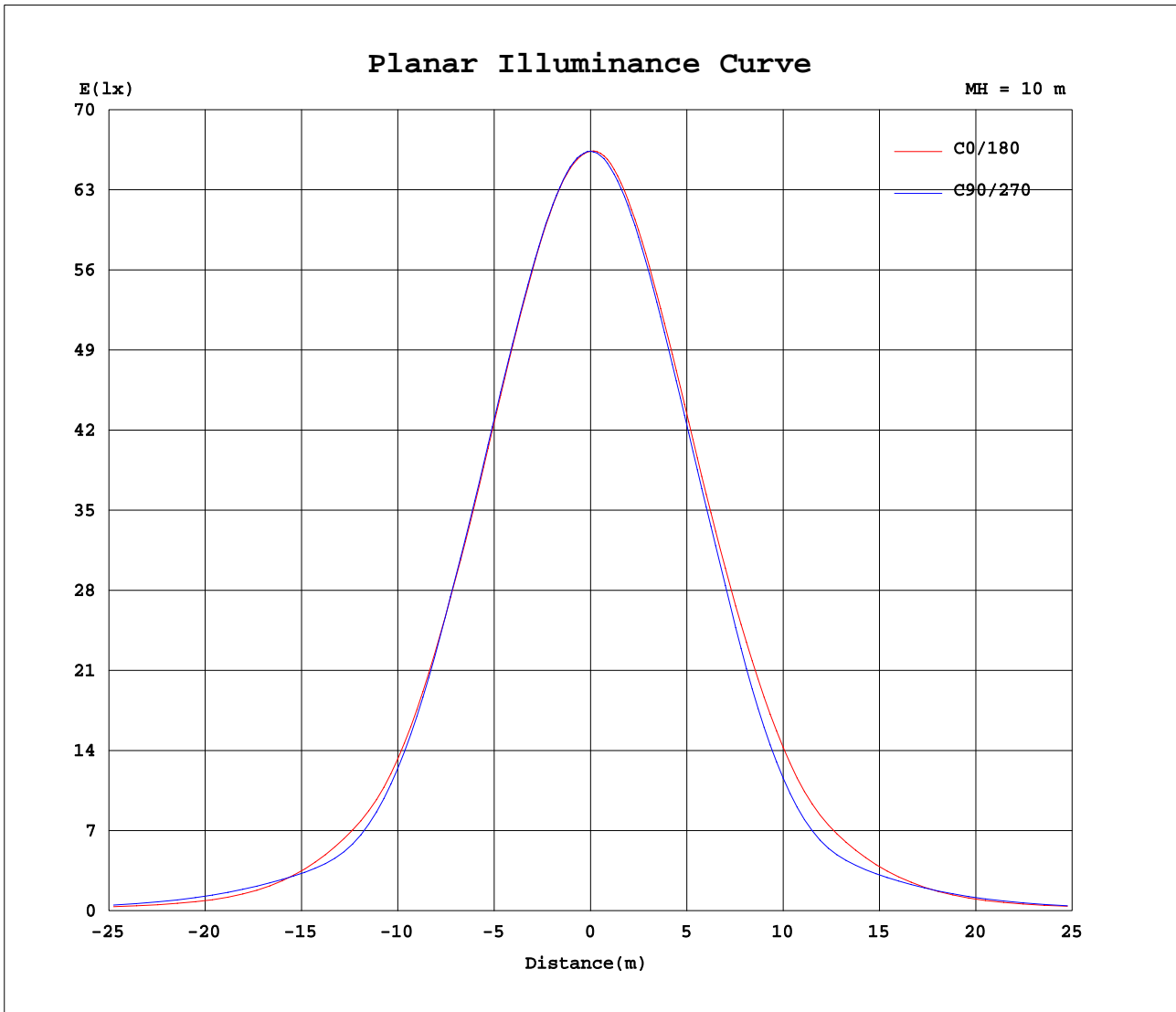
AvgL	cd/m2
L_0~180(65)av	12707
L_0~180(75)av	15012
L_0~180(85)av	15208
L_90~270(65)av	16655
L_90~270(75)av	12011
L_90~270(85)av	12420
L_45(65)av	16727
L_45(75)av	15229
L_45(85)av	12854

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637	6637
5	6605	6615	6616	6616	6616	6616	6616	6624	6625	6630	6630	6642	6642	6638	6634	6627	6620	6615	6609
10	6542	6548	6545	6544	6542	6545	6546	6559	6566	6571	6575	6579	6588	6582	6571	6562	6551	6543	6535
15	6434	6437	6432	6435	6435	6439	6444	6455	6461	6467	6474	6479	6491	6478	6460	6456	6442	6432	6421
20	6274	6278	6269	6277	6286	6291	6296	6310	6322	6321	6324	6329	6343	6326	6309	6301	6289	6271	6254
25	6049	6057	6057	6058	6061	6072	6089	6102	6104	6117	6128	6135	6147	6132	6106	6085	6067	6043	6022
30	5719	5733	5742	5750	5747	5756	5765	5792	5804	5818	5834	5831	5845	5829	5806	5767	5733	5704	5683
35	5279	5280	5275	5278	5282	5292	5304	5330	5359	5382	5400	5416	5444	5406	5353	5311	5262	5211	5170
40	4622	4591	4562	4564	4580	4546	4535	4578	4691	4728	4749	4803	4858	4771	4679	4599	4530	4402	4314
45	3756	3628	3515	3547	3679	3575	3519	3610	3768	3706	3756	3878	4038	3846	3657	3583	3608	3408	3278
50	2963	2729	2486	2718	2990	2723	2502	2799	3083	2877	2655	2891	3153	2878	2594	2761	2923	2557	2325
55	2260	2180	1944	2204	2320	2147	1975	2206	2415	2310	2028	2234	2464	2275	2010	2213	2236	2033	1901
60	1440	1734	1716	1727	1527	1695	1728	1724	1604	1790	1784	1798	1655	1850	1728	1706	1477	1608	1607
65	868	1246	1272	1225	922	1228	1266	1238	944	1258	1338	1332	966	1349	1311	1202	891	1168	1137
70	666	912	762	901	674	906	787	910	686	917	832	973	695	964	799	894	663	854	702
75	656	673	531	687	642	661	544	666	657	701	554	713	671	704	542	678	614	609	518
80	454	394	451	411	458	420	433	424	478	433	472	441	514	441	453	409	431	379	384
85	207	186	192	192	220	202	207	212	239	217	228	213	246	211	219	189	195	168	163
90	7.63	6.80	7.29	8.81	8.35	9.95	9.99	12.0	12.5	54.0	55.1	55.4	35.2	25.6	17.6	12.0	6.95	3.99	2.72
95	0.75	0.98	1.02	1.18	1.27	1.28	1.25	1.18	1.11	1.07	0.92	1.08	1.92	1.59	1.26	1.44	1.51	1.52	1.57
100	2.31	2.03	1.39	0.97	0.70	0.63	0.63	0.66	0.81	1.00	1.12	1.43	1.59	1.95	1.90	1.46	1.29	1.27	1.31
105	2.52	1.94	2.06	1.41	1.19	0.93	0.81	0.95	1.10	1.31	2.05	1.37	2.33	2.26	2.40	1.96	1.64	1.60	1.63
110	2.36	2.01	1.88	1.63	1.33	1.07	1.02	1.21	1.34	1.68	1.58	1.47	2.19	2.10	2.13	2.12	1.92	1.86	1.83
115	2.38	2.14	1.93	2.23	1.49	1.29	1.27	1.50	1.63	1.83	1.67	1.66	2.35	2.24	2.54	2.46	2.20	2.18	2.14
120	2.61	2.27	2.13	1.91	1.71	1.60	1.62	1.84	1.97	2.08	2.08	1.94	2.76	2.61	2.66	2.71	2.64	2.59	2.56
125	2.42	2.31	2.28	2.22	2.08	1.96	2.04	2.19	2.34	2.55	2.42	2.26	3.24	3.13	3.22	3.36	3.35	3.24	3.21
130	2.82	2.53	2.59	2.48	2.50	2.31	2.46	2.58	2.78	2.81	2.80	2.56	3.86	3.74	3.97	4.07	4.10	4.01	4.03
135	3.13	2.95	2.92	2.81	2.88	2.82	2.95	3.02	3.16	3.16	3.13	3.08	4.12	4.40	4.47	4.69	4.74	4.68	4.71
140	3.35	3.29	3.31	3.19	3.20	3.27	3.37	3.41	3.53	3.54	3.42	3.54	4.85	4.87	4.95	5.11	5.22	5.16	5.15
145	3.70	3.68	3.52	3.43	3.58	3.65	3.74	3.79	3.89	3.75	3.70	3.65	5.06	5.12	5.30	5.49	5.67	5.66	5.62
150	3.99	3.96	3.82	3.78	3.80	4.08	4.09	4.23	4.06	4.22	4.04	4.02	5.62	5.52	5.55	6.02	5.89	6.07	6.03
155	4.36	4.38	4.37	4.14	4.38	4.35	4.33	4.40	4.79	4.65	4.60	4.38	6.02	5.88	6.12	6.09	6.46	6.48	6.23
160	4.74	4.77	4.81	4.71	4.78	5.12	5.05	5.09	5.04	5.04	5.07	4.72	6.39	6.30	6.44	6.70	6.67	6.68	6.76
165	5.08	5.16	5.25	5.37	5.34	5.26	5.17	5.41	5.39	5.58	5.44	5.17	6.42	6.45	6.47	6.77	6.97	6.90	6.85
170	5.49	5.54	5.58	5.65	5.67	5.70	5.68	5.82	5.81	5.63	5.42	5.48	6.66	6.65	6.64	6.63	6.70	6.80	6.82
175	6.15	6.20	6.11	5.87	5.64	5.55	5.45	5.59	5.69	5.77	5.90	6.10	6.87	6.87	6.91	6.97	6.87	6.70	6.50
180	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.41	6.41	6.41	6.41	6.41	6.41	6.41

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.9182A P:109.96W PF:0.9980 Freq:60.00Hz Lamp Flux:15290x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D11050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	6637	6637	6637	6637	6637														
5	6606	6604	6602	6603	6604														
10	6530	6530	6531	6531	6533														
15	6414	6414	6408	6411	6419														
20	6250	6251	6252	6249	6260														
25	6014	6012	6022	6028	6039														
30	5667	5670	5677	5698	5711														
35	5168	5179	5188	5205	5256														
40	4327	4398	4428	4468	4551														
45	3375	3488	3373	3403	3577														
50	2626	2865	2621	2393	2680														
55	2059	2171	2092	1929	2127														
60	1566	1377	1624	1679	1689														
65	1104	812	1143	1191	1214														
70	820	655	849	716	894														
75	597	615	626	522	662														
80	367	410	366	432	390														
85	163	178	167	177	178														
90	4.18	3.72	4.09	3.67	2.93														
95	1.52	1.41	1.33	1.00	1.06														
100	1.27	1.39	1.71	2.23	2.27														
105	1.50	1.73	2.17	2.43	2.26														
110	1.68	1.93	2.27	2.32	2.42														
115	1.96	2.12	2.38	2.42	2.53														
120	2.36	2.46	2.65	2.74	2.66														
125	3.00	3.01	3.12	3.16	2.96														
130	3.79	3.78	3.72	3.71	3.52														
135	4.45	4.31	4.26	4.21	4.06														
140	4.91	4.78	4.70	4.69	4.45														
145	5.44	5.33	5.18	5.09	4.98														
150	5.94	5.72	5.63	5.46	5.32														
155	6.24	6.15	5.87	5.99	5.65														
160	6.49	6.44	6.33	6.47	6.02														
165	6.83	6.99	6.96	6.76	6.16														
170	6.95	6.96	6.73	6.61	6.17														
175	6.46	6.53	6.65	6.74	6.30														
180	6.41	6.41	6.41	6.41	6.41														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.7%
 Test Distance: 2.500m [K=1.0462]
 Remarks: