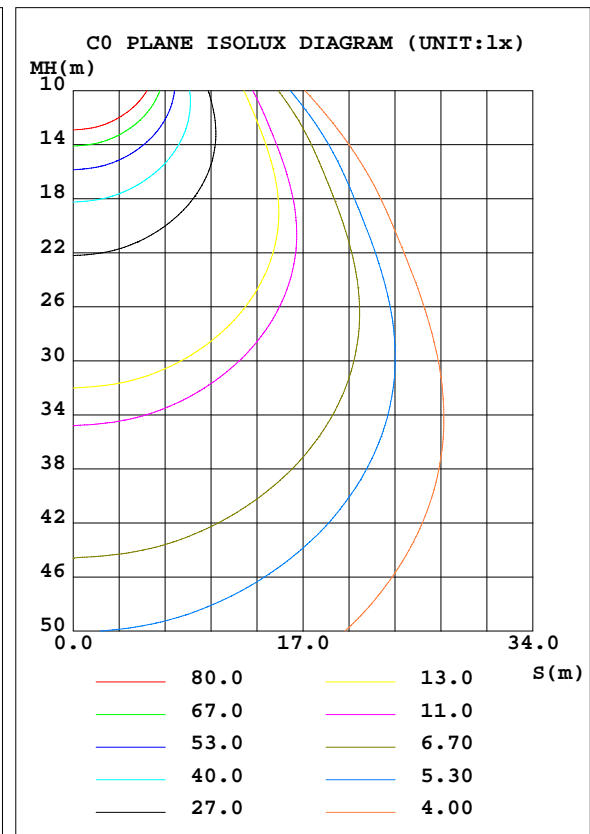
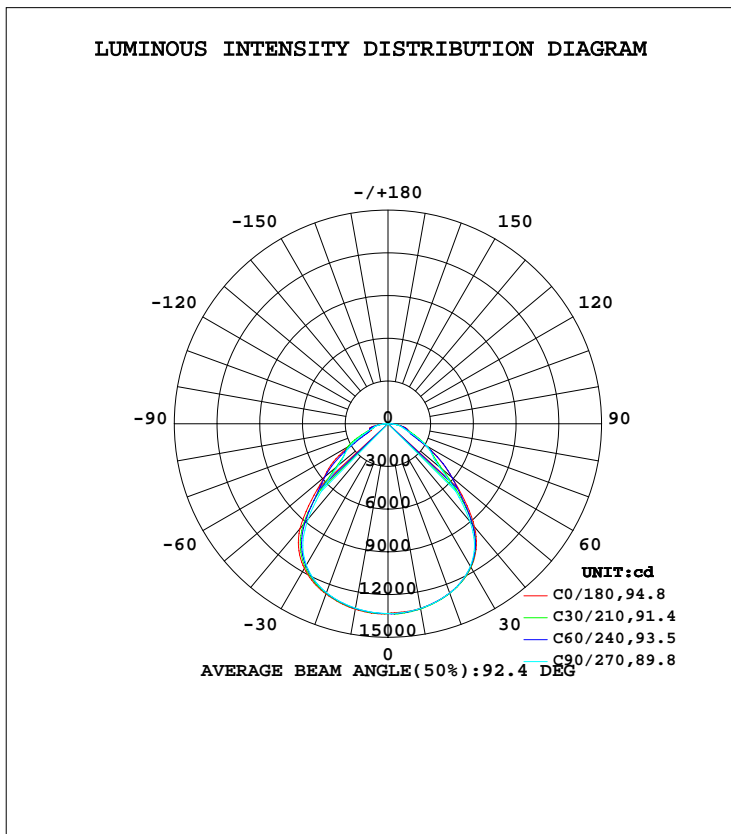


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.62 lm/W			
MODEL	ASD-WHB5M-2D22050-MSR	Imax(cd)	13381	S/MH(C0/180)	1.30
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	30580	η UP, DN(C0-180)	0.1,50.8
NOMINAL FLUX(lm)	30580	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,49.1
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: 48.3%
 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	1317	1318	1317	1317	1322	1317	1315	1308	0- 10	1265	1265	4.16,4.16
20	1266	1266	1266	1269	1272	1265	1263	1252	10- 20	3659	4923	16.2,16.2
30	1165	1160	1156	1172	1174	1157	1146	1135	20- 30	5622	10545	34.7,34.7
40	945.3	922.5	895.1	961.8	962.1	914.3	871.1	863.6	30- 40	6600	17145	56.4,56.4
50	587.7	556.7	472.1	574.6	585.7	549.1	453.7	514.4	40- 50	5489	22634	74.4,74.4
60	305.7	325.6	312.1	333.8	312.5	309.8	299.9	291.9	50- 60	3721	26355	86.7,86.7
70	158.7	174.0	145.0	187.4	122.3	180.5	139.5	158.0	60- 70	2232	28588	94,94
80	98.10	84.17	82.40	92.07	101.8	76.62	79.74	74.54	70- 80	1314	29901	98.3,98.3
90	0.2489	1.230	0.4718	6.143	7.545	2.783	0.5062	0.3326	80- 90	469.7	30371	99.9,99.9
100	0.2775	0.1608	0.1178	0.1621	0.3360	0.2784	0.2203	0.2879	90-100	4.640	30376	99.9,99.9
110	0.3123	0.2605	0.1993	0.2356	0.4438	0.3538	0.3252	0.3771	100-110	2.935	30379	99.9,99.9
120	0.4139	0.3369	0.3227	0.3416	0.4894	0.4738	0.4735	0.5001	110-120	3.453	30382	99.9,99.9
130	0.5106	0.4636	0.4785	0.4883	0.7056	0.7639	0.7719	0.7574	120-130	4.514	30387	99.9,99.9
140	0.6444	0.6134	0.6510	0.6317	0.8759	0.9536	1.034	0.9450	130-140	5.445	30392	100,100
150	0.7834	0.7406	0.7821	0.7671	1.062	1.146	1.176	1.132	140-150	5.444	30397	100,100
160	0.9524	0.9108	0.9275	0.9574	1.284	1.299	1.312	1.291	150-160	4.741	30402	100,100
170	1.114	1.086	1.060	1.074	1.301	1.313	1.351	1.306	160-170	3.289	30405	100,100
180	1.261	1.261	1.261	1.261	1.241	1.241	1.241	1.241	170-180	1.167	30407	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 20158 lm

%lum = 66.3%

%lamp = 66.3%

Conical surface Flux(120deg): 26355 lm

%lum = 86.7%

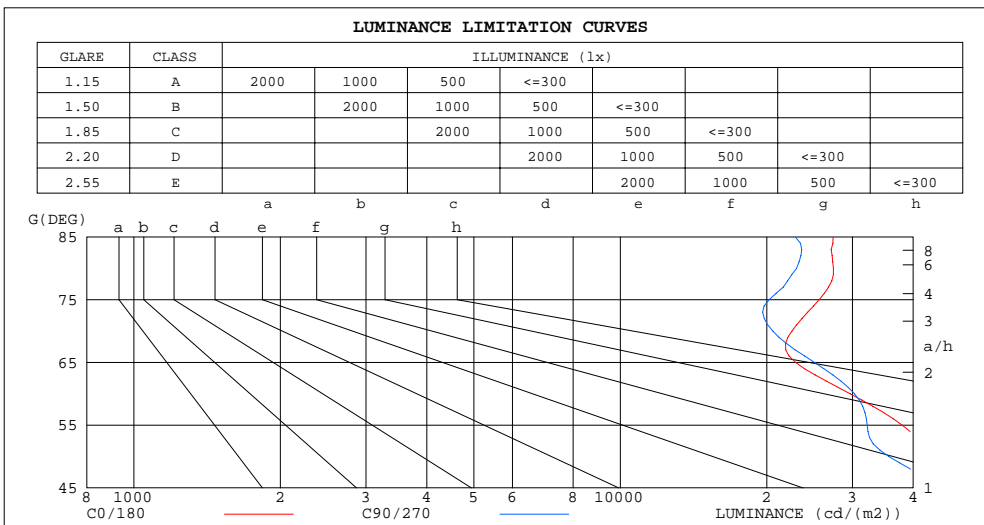
%lamp = 86.7%

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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	27372	22891
80	27427	23040
75	25637	20224
70	22532	20582
65	22927	25079
60	29684	30306
55	37979	32159
50	44394	35659
45	52236	46313

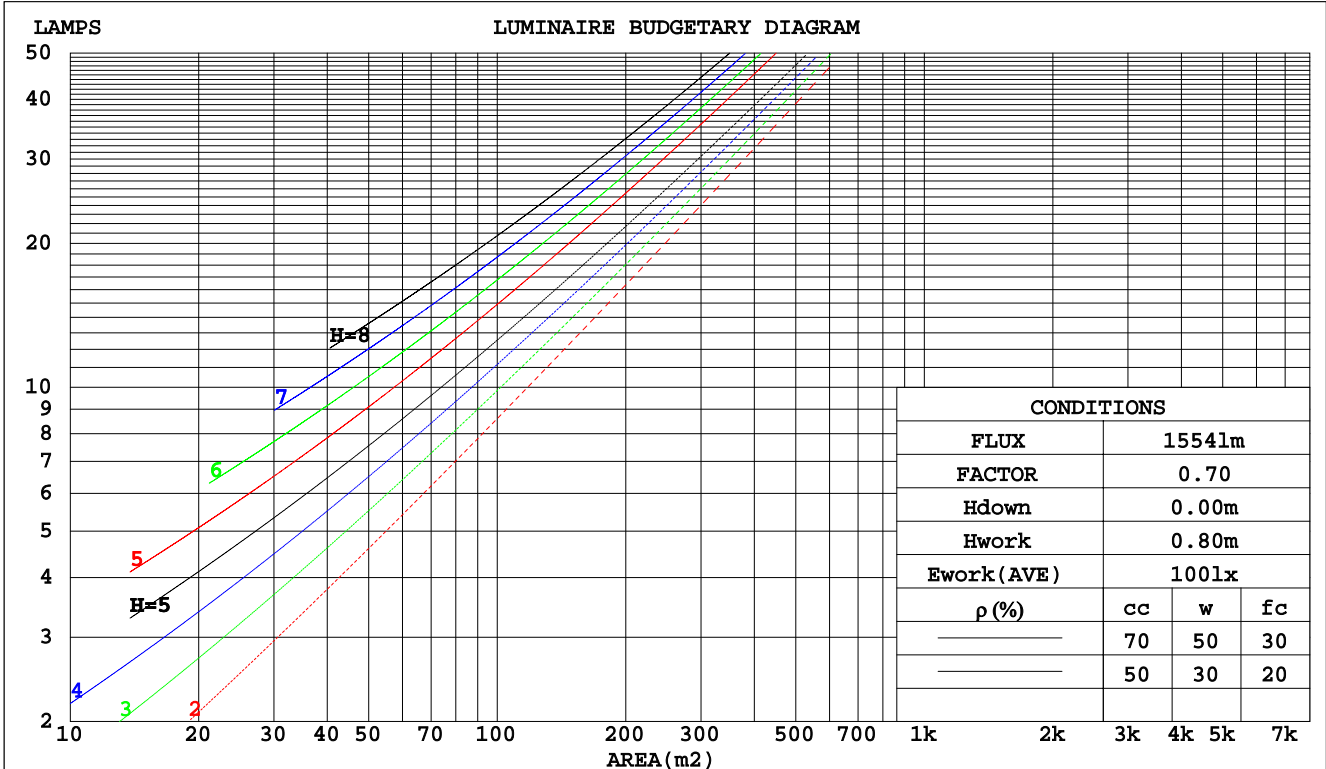
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-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	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.74	.69	.77	.72	.68	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.62	.53	.48	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.56	.48	.42	.54	.47	.42	.53	.46	.42	.51	.46	.41	.40
8.0	.52	.44	.38	.51	.43	.38	.50	.43	.38	.49	.42	.38	.47	.42	.37	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.36	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.30



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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-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	.229	.133	.043	
2.0	.258	.141	.043	.252	.139	.043	.241	.134	.042	.230	.129	.040	.220	.125	.039	
3.0	.241	.128	.038	.236	.126	.038	.226	.122	.037	.217	.119	.036	.208	.115	.036	
4.0	.225	.117	.034	.220	.115	.034	.211	.112	.033	.203	.109	.033	.195	.106	.032	
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.030	
6.0	.197	.099	.028	.193	.097	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027	
7.0	.184	.091	.026	.181	.090	.026	.175	.088	.025	.169	.087	.025	.163	.085	.025	
8.0	.173	.085	.024	.171	.084	.024	.165	.082	.024	.160	.081	.023	.155	.079	.023	
9.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.151	.076	.022	.147	.074	.022	
10.0	.155	.074	.021	.152	.074	.021	.148	.072	.020	.143	.071	.020	.139	.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	.144	.114	.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	.130	.088	.055	.090	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.144	.091	.051	.124	.078	.044	.085	.055	.031	.049	.032	.019	.016	.011	.006	
6.0	.137	.082	.043	.118	.071	.037	.081	.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	.107	.060	.027	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.027	.103	.056	.024	.071	.039	.017	.041	.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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-WHB5M-2D22050-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	23.4	24.9	23.8	25.2	25.5	23.6	25.1	24.0	25.4	25.8
3H	24.8	26.1	25.2	26.4	26.8	24.8	26.1	25.2	26.5	26.8
4H	25.4	26.7	25.8	27.0	27.4	25.3	26.5	25.7	26.9	27.3
6H	26.0	27.1	26.4	27.5	27.9	25.7	26.9	26.1	27.3	27.6
8H	26.2	27.3	26.6	27.7	28.1	25.9	27.0	26.4	27.4	27.8
12H	26.4	27.4	26.8	27.8	28.2	26.1	27.1	26.5	27.5	27.9
4H 2H	23.8	25.1	24.2	25.4	25.8	24.0	25.3	24.5	25.6	26.0
3H	25.4	26.4	25.8	26.8	27.2	25.4	26.4	25.8	26.8	27.2
4H	26.1	27.1	26.6	27.5	27.9	26.1	27.0	26.5	27.4	27.8
6H	26.9	27.7	27.3	28.1	28.6	26.7	27.5	27.2	28.0	28.4
8H	27.1	27.9	27.6	28.3	28.8	27.0	27.7	27.4	28.2	28.6
12H	27.4	28.1	27.9	28.6	29.0	27.2	27.8	27.6	28.3	28.8
8H 4H	26.4	27.2	26.9	27.6	28.1	26.4	27.2	26.9	27.6	28.1
6H	27.3	27.9	27.8	28.4	28.9	27.3	27.9	27.8	28.4	28.9
8H	27.7	28.2	28.2	28.7	29.2	27.7	28.2	28.2	28.8	29.2
12H	28.0	28.5	28.5	29.0	29.6	28.0	28.5	28.5	29.0	29.5
12H 4H	26.4	27.1	26.9	27.6	28.1	26.5	27.1	27.0	27.6	28.1
6H	27.3	27.9	27.9	28.4	28.9	27.4	28.0	27.9	28.4	29.0
8H	27.8	28.3	28.3	28.8	29.4	27.8	28.3	28.4	28.8	29.4
CIE190: 2010										

CIE190: 2010
Area: 0.205965 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: 48.3%
Test Distance: 2.500m [K=1.0462]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

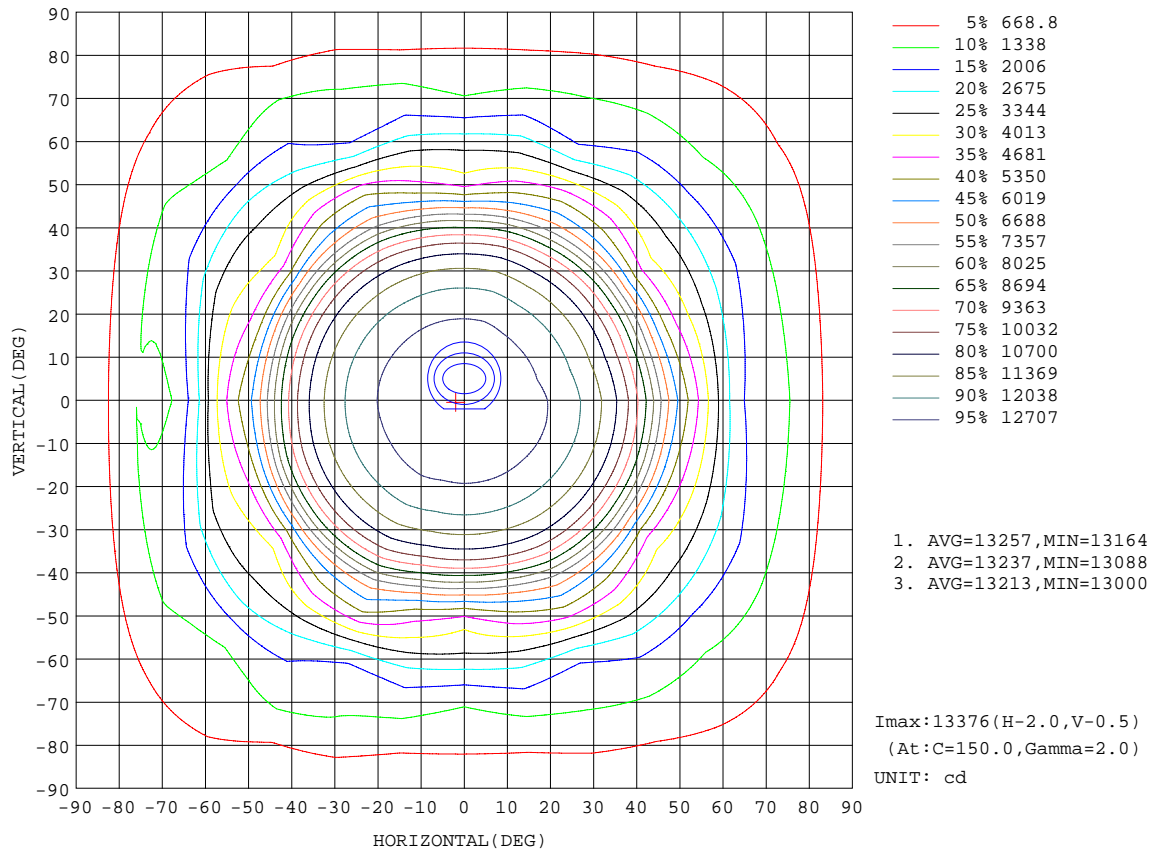
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	64	54	48	64	54	48	63	53	47	42
0.80	74	64	58	73	64	57	72	63	57	51
1.00	82	72	66	81	72	66	79	73	65	59
1.25	89	80	73	87	79	73	85	78	72	66
1.50	93	85	79	92	84	78	89	82	77	70
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	95	90	100	94	89	97	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	103	108	104	101	103	101	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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

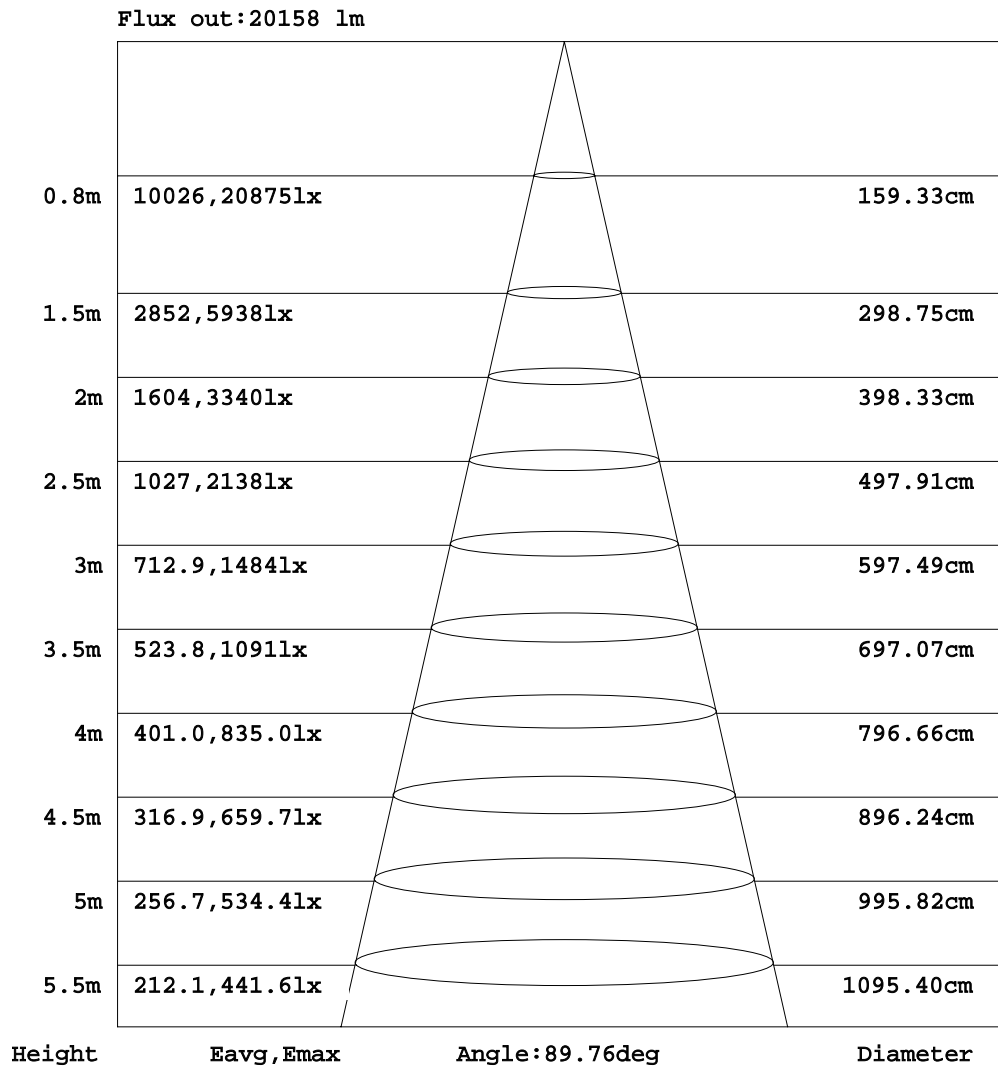


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

AAI Figure

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



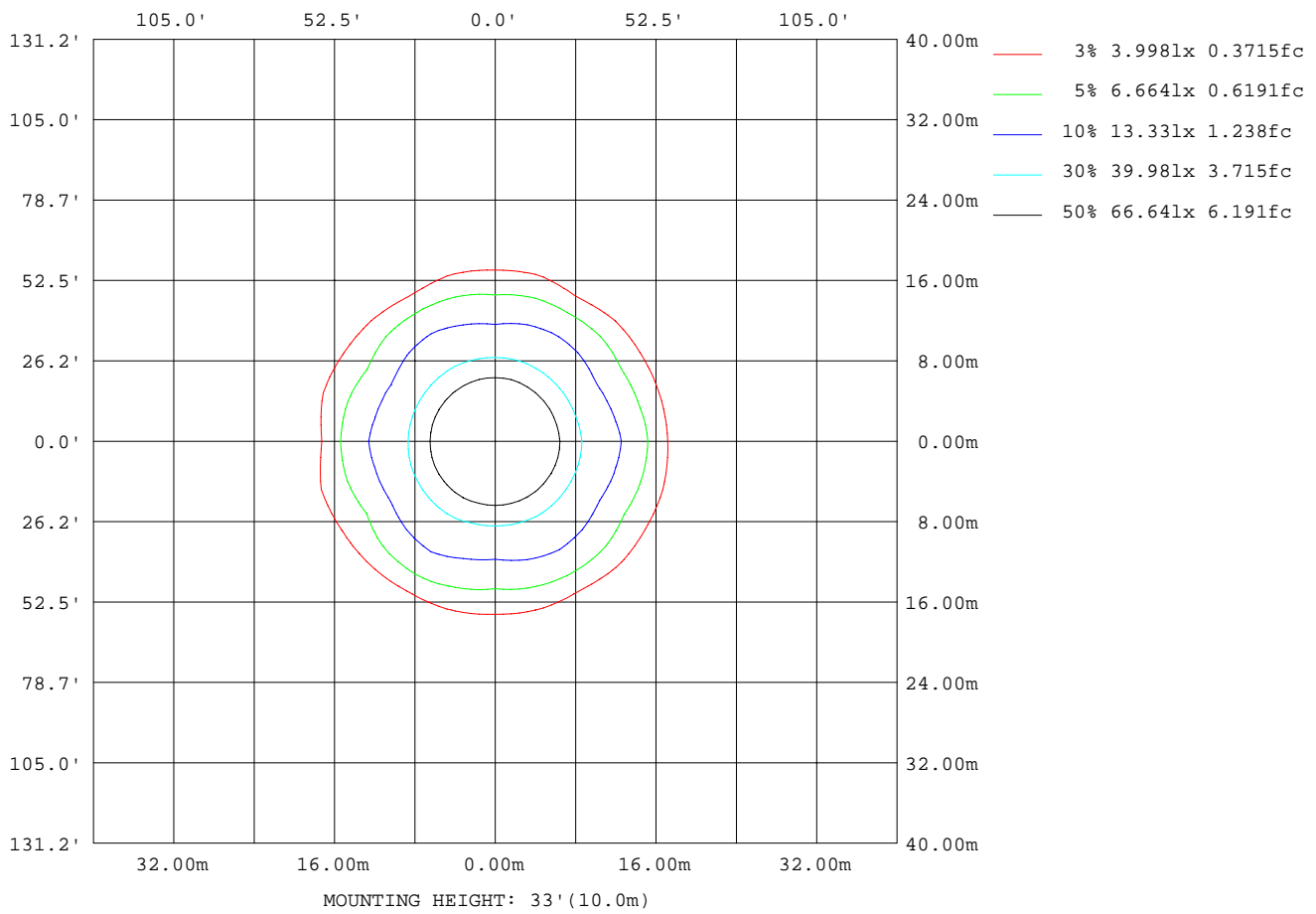
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 48.3%
 Test Distance:2.500m [K=1.0462]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

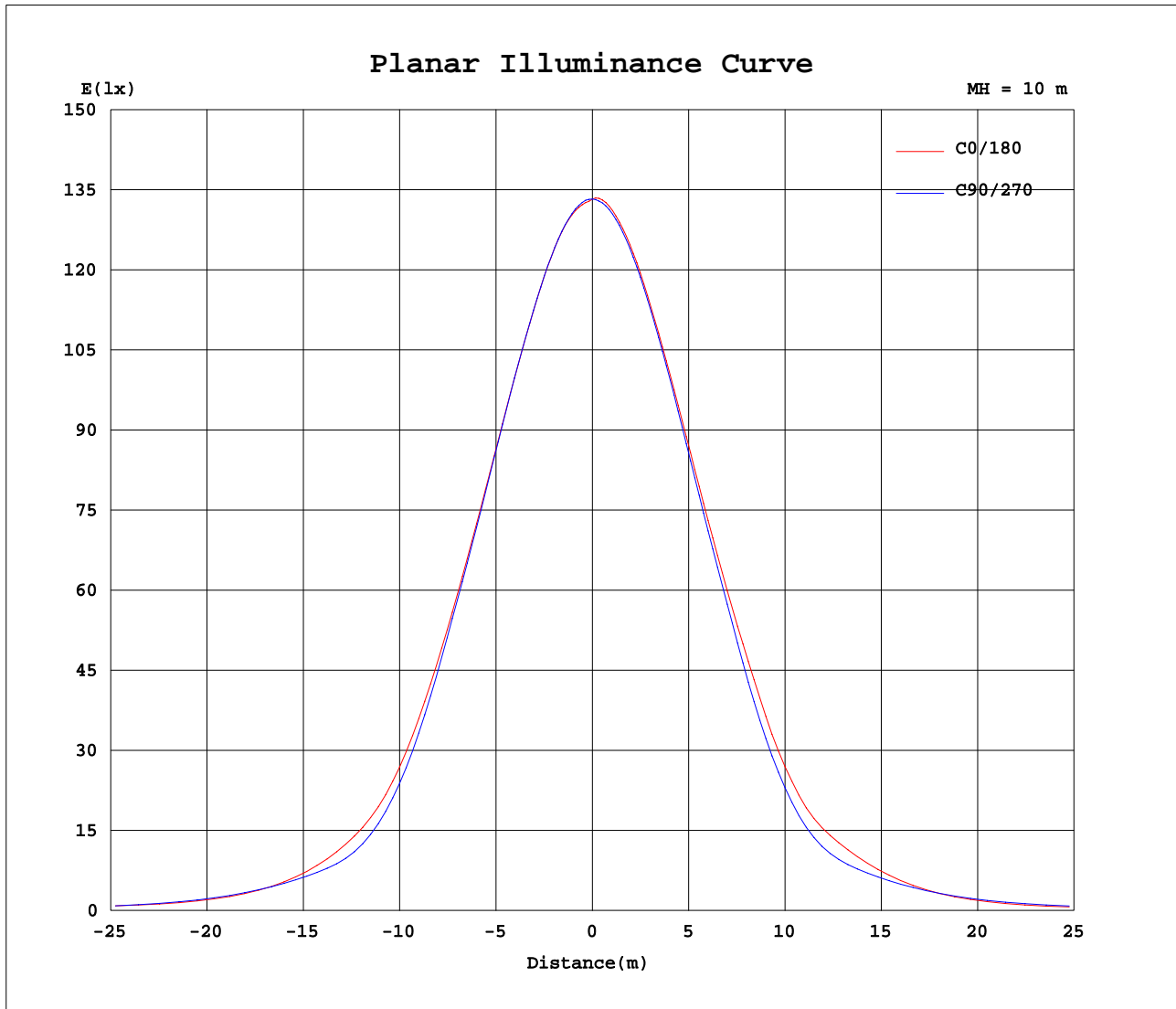
AvgL	cd/m2
L_0~180(65)av	21481
L_0~180(75)av	25276
L_0~180(85)av	25841
L_90~270(65)av	24507
L_90~270(75)av	20042
L_90~270(85)av	21934
L_45(65)av	26031
L_45(75)av	25059
L_45(85)av	24024

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: 48.3%
 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: 48.3%
Test Distance: 2.500m [K=1.0462]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333	1333
5	1326	1334	1334	1333	1331	1329	1329	1328	1329	1328	1328	1334	1335	1333	1332	1330	1329	1328	1328
10	1317	1321	1320	1318	1317	1317	1317	1316	1318	1317	1317	1319	1322	1320	1319	1317	1317	1316	1315
15	1296	1299	1298	1296	1295	1295	1296	1295	1298	1298	1297	1298	1302	1300	1299	1297	1295	1294	1294
20	1266	1268	1268	1266	1266	1266	1266	1265	1271	1269	1269	1269	1272	1271	1268	1265	1265	1264	1263
25	1225	1227	1225	1222	1221	1222	1222	1222	1230	1229	1230	1231	1232	1230	1226	1222	1219	1218	1216
30	1165	1166	1163	1160	1159	1157	1156	1158	1172	1172	1175	1176	1174	1170	1164	1157	1152	1150	1146
35	1078	1077	1071	1068	1068	1061	1059	1062	1086	1089	1093	1095	1090	1082	1072	1064	1057	1049	1044
40	945	940	925	923	925	903	895	907	957	962	966	973	962	946	925	914	908	888	871
45	761	740	709	721	734	696	674	697	763	752	750	772	762	729	697	702	714	678	650
50	588	547	501	557	587	537	472	519	609	575	512	549	586	522	481	549	577	507	454
55	449	420	388	439	448	417	380	418	481	458	380	426	470	423	373	430	433	405	372
60	306	322	319	326	299	317	312	323	317	334	339	361	312	352	328	310	272	308	300
65	200	240	231	234	189	235	218	232	188	238	264	270	174	253	241	224	169	222	208
70	159	184	163	174	149	174	145	175	139	187	167	187	122	177	150	180	139	170	139
75	137	131	117	130	129	123	108	129	135	152	105	142	133	138	101	137	131	126	106
80	98.1	86.4	88.8	84.2	90.5	81.3	82.4	86.3	105	92.1	95.5	101	102	92.4	91.2	76.6	88.9	80.2	79.7
85	49.1	45.5	43.4	46.2	48.7	42.6	41.1	41.0	56.4	49.8	53.8	45.7	43.6	39.0	40.4	41.5	45.0	38.9	37.7
90	0.25	1.96	5.07	1.23	0.91	0.71	0.47	2.52	5.95	6.14	6.59	7.37	7.55	5.10	3.80	2.78	1.61	0.82	0.51
95	0.12	0.19	0.17	0.20	0.19	0.17	0.17	0.19	0.21	0.22	0.30	0.28	0.36	0.24	0.25	0.24	0.21	0.21	0.21
100	0.28	0.22	0.22	0.16	0.13	0.12	0.12	0.12	0.13	0.16	0.19	0.15	0.34	0.32	0.36	0.28	0.24	0.22	0.22
105	0.30	0.27	0.29	0.23	0.19	0.16	0.15	0.17	0.18	0.22	0.26	0.23	0.43	0.40	0.42	0.36	0.29	0.27	0.28
110	0.31	0.29	0.27	0.26	0.23	0.20	0.20	0.21	0.22	0.24	0.26	0.25	0.44	0.41	0.37	0.35	0.33	0.31	0.33
115	0.36	0.32	0.31	0.29	0.27	0.25	0.25	0.26	0.27	0.29	0.29	0.27	0.43	0.41	0.41	0.39	0.38	0.36	0.38
120	0.41	0.37	0.36	0.34	0.32	0.31	0.32	0.33	0.33	0.34	0.34	0.33	0.49	0.48	0.50	0.47	0.46	0.45	0.47
125	0.44	0.41	0.41	0.40	0.40	0.38	0.40	0.40	0.40	0.41	0.41	0.39	0.59	0.59	0.60	0.61	0.59	0.59	0.60
130	0.51	0.48	0.47	0.46	0.48	0.45	0.48	0.48	0.48	0.49	0.49	0.46	0.71	0.71	0.73	0.76	0.76	0.76	0.77
135	0.58	0.57	0.55	0.53	0.56	0.55	0.57	0.57	0.56	0.56	0.56	0.53	0.77	0.81	0.84	0.87	0.91	0.92	0.93
140	0.64	0.63	0.63	0.61	0.63	0.64	0.65	0.65	0.64	0.63	0.62	0.63	0.88	0.89	0.92	0.95	0.99	1.02	1.03
145	0.71	0.71	0.69	0.67	0.70	0.72	0.72	0.73	0.72	0.70	0.68	0.68	0.98	0.98	1.01	1.05	1.09	1.11	1.11
150	0.78	0.79	0.76	0.74	0.74	0.77	0.78	0.80	0.78	0.77	0.73	0.74	1.06	1.07	1.08	1.15	1.15	1.18	1.18
155	0.86	0.87	0.86	0.82	0.84	0.85	0.84	0.85	0.85	0.88	0.88	0.84	1.16	1.16	1.19	1.19	1.24	1.24	1.22
160	0.95	0.95	0.94	0.91	0.89	0.95	0.93	0.96	0.96	0.96	0.96	0.92	1.28	1.27	1.26	1.30	1.29	1.30	1.31
165	1.03	1.04	1.04	1.02	0.99	1.00	0.99	1.04	1.01	1.05	1.05	1.01	1.26	1.27	1.29	1.33	1.35	1.35	1.37
170	1.11	1.12	1.11	1.09	1.06	1.06	1.06	1.09	1.09	1.07	1.07	1.07	1.30	1.30	1.31	1.31	1.33	1.36	1.35
175	1.24	1.24	1.22	1.17	1.12	1.10	1.08	1.10	1.11	1.11	1.12	1.14	1.32	1.33	1.34	1.35	1.34	1.32	1.31
180	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.24	1.24	1.24	1.24	1.24	1.24	1.24

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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.8313A P:219.36W PF:0.9982 Freq:60.00Hz Lamp Flux:30580x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22050-MSR	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1333	1333	1333	1333	1333														
5	1326	1325	1324	1323	1323														
10	1314	1310	1308	1308	1309														
15	1293	1288	1286	1286	1286														
20	1262	1255	1252	1253	1254														
25	1215	1206	1204	1206	1209														
30	1147	1136	1135	1137	1143														
35	1046	1032	1032	1035	1046														
40	878	864	864	868	893														
45	666	673	655	638	684														
50	513	539	514	451	504														
55	396	395	399	365	392														
60	304	254	292	292	299														
65	225	171	210	210	224														
70	165	144	158	150	172														
75	116	120	116	109	120														
80	77.3	78.9	74.5	81.0	77.1														
85	39.6	36.7	35.1	33.3	36.7														
90	0.85	0.33	0.33	0.32	0.29														
95	0.20	0.19	0.21	0.20	0.18														
100	0.23	0.26	0.29	0.42	0.32														
105	0.29	0.32	0.36	0.34	0.34														
110	0.33	0.36	0.38	0.37	0.37														
115	0.38	0.41	0.43	0.43	0.41														
120	0.47	0.49	0.50	0.52	0.49														
125	0.59	0.61	0.63	0.61	0.58														
130	0.75	0.78	0.76	0.73	0.69														
135	0.90	0.89	0.85	0.83	0.80														
140	0.99	0.98	0.95	0.93	0.88														
145	1.08	1.08	1.05	1.00	0.98														
150	1.17	1.15	1.13	1.09	1.06														
155	1.23	1.26	1.18	1.22	1.13														
160	1.29	1.29	1.29	1.29	1.21														
165	1.36	1.36	1.34	1.34	1.24														
170	1.36	1.35	1.31	1.32	1.24														
175	1.29	1.30	1.33	1.34	1.26														
180	1.24	1.24	1.24	1.24	1.24														

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: 48.3%
 Test Distance: 2.500m [K=1.0462]
 Remarks: