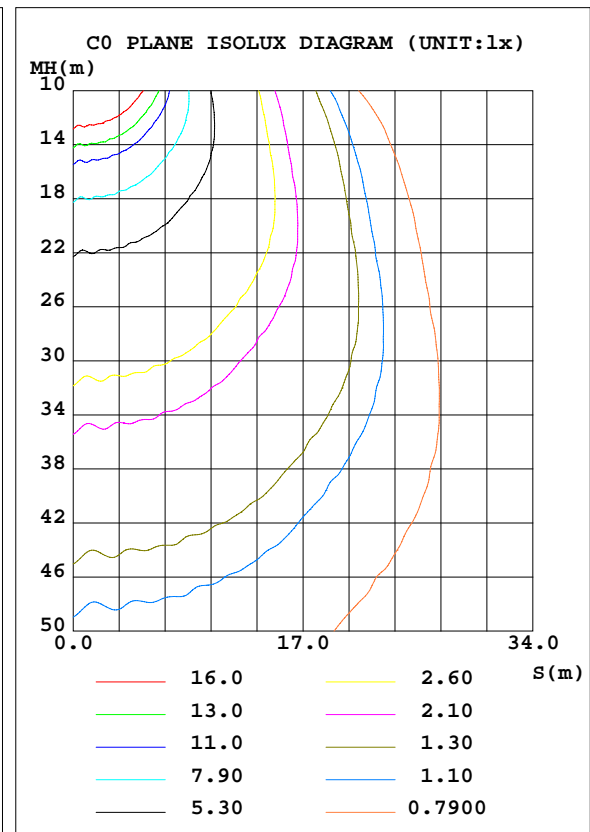
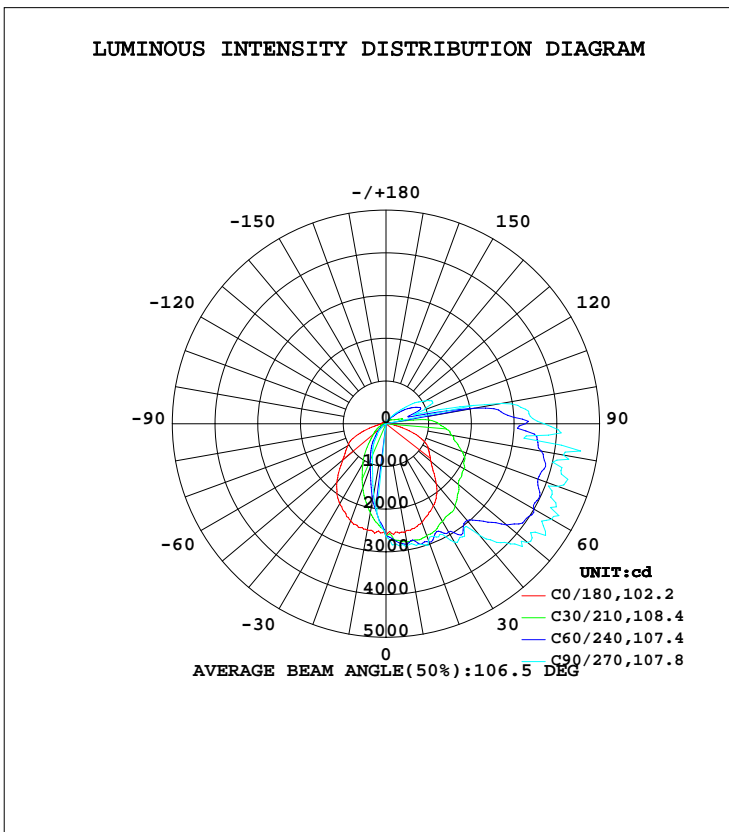


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.52 lm/W			
MODEL ASD-WLP01-80D50-PC-PRM		I _{max} (cd)	4601	S/MH(C0/180)	1.23
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.45
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	11874	η UP, DN(C0-180)	16.0,71.8
NOMINAL FLUX(lm)	11874	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	0.4,11.8
LAMPS INSIDE	1	η up(%)	16.4	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	83.6	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2582	2821	2898	2807	2523	1937	1673	1961	0- 10	236.1	236.1	1.99,1.99
20	2461	2915	2919	2839	2418	1280	944.9	1281	10- 20	636.4	872.6	7.35,7.35
30	2213	2718	3197	2716	2163	821.5	601.5	822.5	20- 30	918.1	1791	15.1,15.1
40	1831	2741	3412	2673	1793	504.6	313.3	504.8	30- 40	1127	2918	24.6,24.6
50	1377	2775	4324	2711	1321	267.9	137.2	266.0	40- 50	1291	4209	35.4,35.4
60	1138	3072	4478	2956	1035	121.0	41.19	122.7	50- 60	1458	5667	47.7,47.7
70	754.3	2926	4283	2769	646.8	39.18	3.916	42.68	60- 70	1509	7175	60.4,60.4
80	220.6	2848	4214	2684	221.4	18.42	4.878	20.22	70- 80	1458	8633	72.7,72.7
90	111.0	2345	3704	2261	106.9	9.448	4.918	9.225	80- 90	1295	9928	83.6,83.6
100	84.13	1274	2740	1171	74.96	7.691	10.75	7.341	90-100	992.2	10920	92,92
110	96.78	447.6	964.0	382.9	92.39	7.740	11.19	7.950	100-110	361.7	11282	95,95
120	51.95	414.7	1075	393.8	51.34	7.024	10.35	6.877	110-120	276.1	11558	97.3,97.3
130	21.62	275.4	618.9	263.2	18.35	5.019	8.333	4.851	120-130	185.0	11743	98.9,98.9
140	10.64	150.1	258.4	150.9	10.61	4.293	6.164	4.240	130-140	84.29	11827	99.6,99.6
150	4.120	83.20	106.8	84.01	4.406	4.377	3.564	4.458	140-150	32.25	11860	99.9,99.9
160	3.233	19.59	54.96	22.44	4.535	3.432	3.478	4.145	150-160	11.48	11871	100,100
170	4.620	4.253	4.485	4.304	3.641	4.189	2.197	3.403	160-170	2.376	11874	100,100
180	9.464	9.464	9.464	9.464	4.839	4.839	4.839	4.839	170-180	0.3885	11874	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3538.8 lm

%lum = 29.8%

%lamp = 29.8%

Conical surface Flux(120deg): 5666.5 lm

%lum = 47.7%

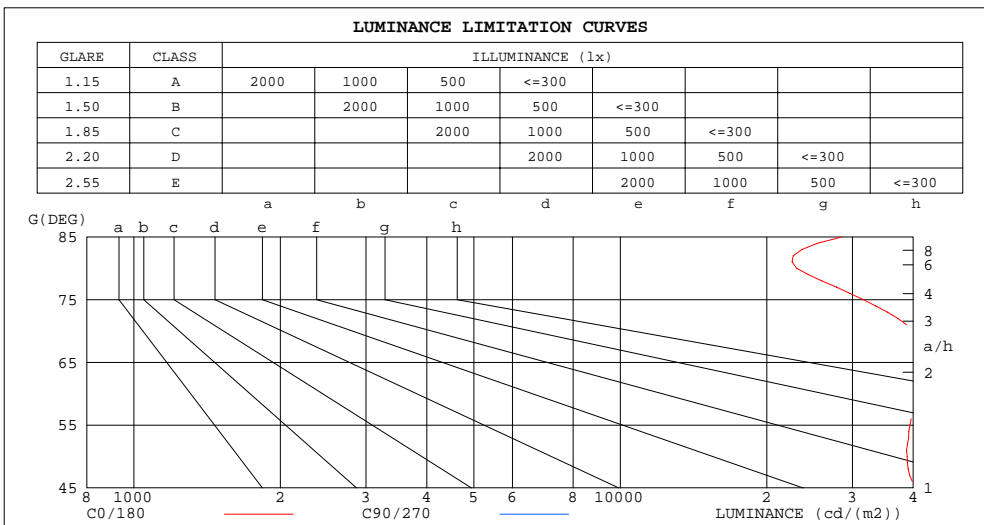
%lamp = 47.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	28539	686364
80	23057	440474
75	31621	297312
70	40028	227290
65	42584	188311
60	41321	162551
55	39373	144335
50	38881	122087
45	40057	100765

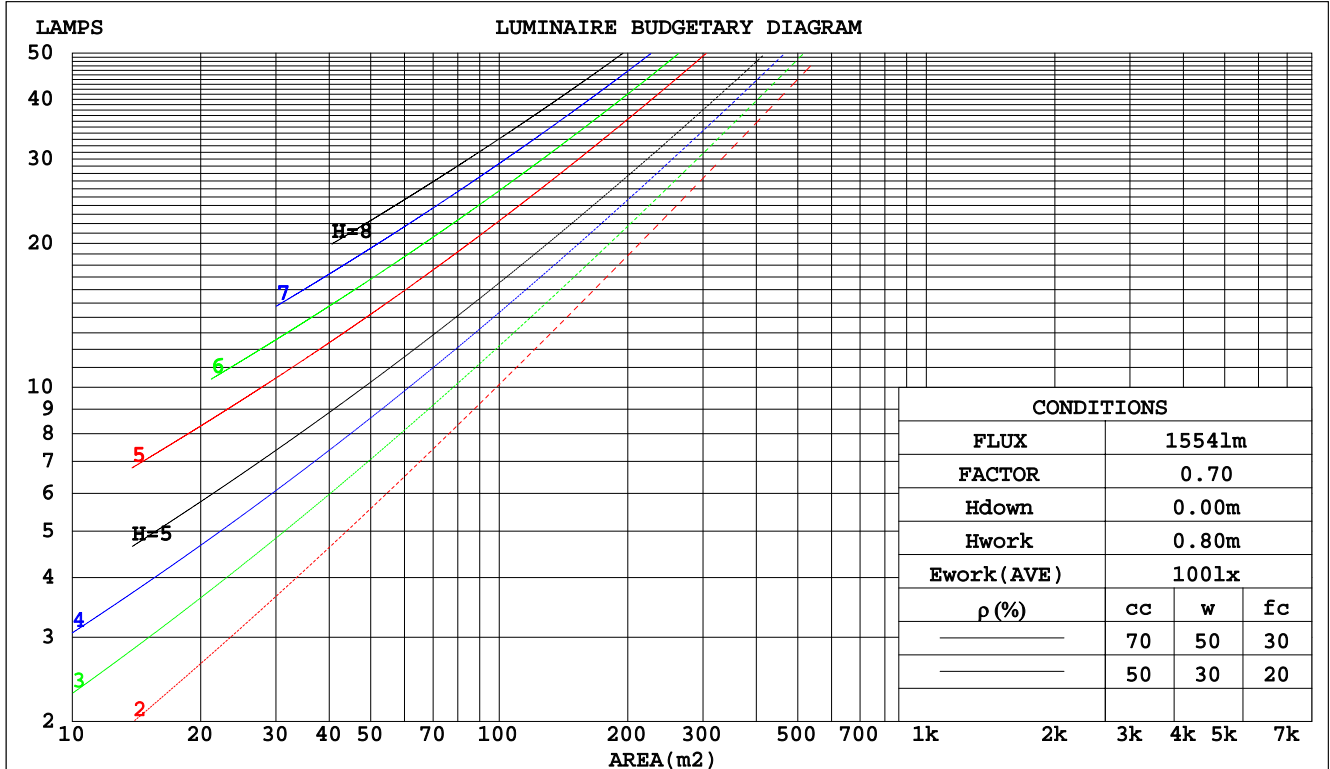
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc																
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.15	1.15	1.15	1.11	1.11	1.11	1.02	1.02	1.02	.94	.94	.94	.87	.87	.87	.84
1.0	.93	.87	.82	.89	.84	.79	.82	.77	.73	.75	.71	.68	.69	.66	.63	.60
2.0	.79	.70	.63	.75	.67	.61	.69	.62	.57	.63	.58	.53	.58	.53	.49	.46
3.0	.68	.58	.50	.65	.56	.49	.59	.52	.46	.54	.48	.43	.50	.44	.40	.37
4.0	.59	.49	.41	.57	.47	.40	.52	.44	.38	.48	.41	.36	.44	.38	.33	.30
5.0	.52	.42	.35	.50	.41	.34	.46	.38	.32	.42	.36	.30	.39	.33	.28	.26
6.0	.47	.37	.30	.45	.36	.29	.41	.34	.28	.38	.31	.26	.35	.29	.25	.22
7.0	.42	.33	.26	.41	.32	.26	.37	.30	.24	.35	.28	.23	.32	.26	.22	.19
8.0	.38	.29	.23	.37	.28	.23	.34	.27	.21	.32	.25	.20	.29	.24	.19	.17
9.0	.35	.26	.21	.34	.26	.20	.31	.24	.19	.29	.23	.18	.27	.21	.17	.15
10.0	.32	.24	.19	.31	.23	.18	.29	.22	.17	.27	.21	.16	.25	.20	.16	.14



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

WEC AND CCEC

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	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	.438	.249	.079	.425	.243	.077	.402	.231	.074	.381	.220	.070	.361	.209	.067	
2.0	.366	.201	.062	.355	.196	.060	.334	.186	.058	.315	.177	.055	.297	.168	.053	
3.0	.319	.170	.051	.309	.165	.050	.290	.157	.048	.272	.149	.046	.256	.142	.044	
4.0	.283	.147	.043	.274	.143	.042	.257	.136	.041	.241	.129	.039	.226	.123	.037	
5.0	.255	.130	.038	.247	.127	.037	.231	.120	.035	.217	.114	.034	.203	.109	.033	
6.0	.232	.116	.033	.224	.113	.033	.210	.108	.031	.197	.102	.030	.185	.097	.029	
7.0	.212	.105	.030	.206	.102	.029	.193	.097	.028	.181	.093	.027	.169	.088	.026	
8.0	.196	.096	.027	.190	.093	.026	.178	.089	.025	.167	.085	.024	.157	.080	.023	
9.0	.182	.088	.025	.176	.086	.024	.166	.082	.023	.155	.078	.022	.146	.074	.021	
10.0	.170	.081	.023	.165	.080	.022	.155	.076	.021	.145	.072	.020	.136	.069	.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	.315	.315	.315	.269	.269	.269	.184	.184	.184	.106	.106	.106	.034	.034	.034	
1.0	.315	.281	.250	.270	.241	.215	.184	.166	.149	.106	.096	.087	.034	.031	.028	
2.0	.309	.258	.216	.265	.222	.186	.181	.154	.130	.105	.089	.076	.034	.029	.025	
3.0	.301	.242	.195	.258	.209	.169	.177	.145	.118	.102	.085	.070	.033	.028	.023	
4.0	.293	.230	.181	.252	.198	.157	.173	.138	.111	.100	.081	.066	.032	.026	.022	
5.0	.285	.220	.172	.245	.190	.150	.169	.133	.106	.098	.078	.063	.031	.025	.021	
6.0	.277	.212	.165	.238	.184	.144	.164	.129	.102	.095	.076	.061	.031	.025	.020	
7.0	.270	.205	.160	.232	.178	.140	.160	.125	.099	.093	.074	.059	.030	.024	.020	
8.0	.263	.200	.157	.226	.173	.137	.156	.122	.097	.091	.072	.058	.029	.024	.019	
9.0	.256	.195	.154	.221	.169	.134	.153	.119	.095	.089	.070	.057	.029	.023	.019	
10.0	.250	.191	.152	.215	.166	.132	.149	.117	.094	.087	.069	.056	.028	.023	.019	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-WLP01-80D50-PC-PRM					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	25.1	26.6	25.7	27.2	27.9	31.5	32.9	32.0	33.5	34.2
3H	27.8	29.2	28.4	29.8	30.5	34.8	36.1	35.4	36.8	37.5
4H	28.7	30.0	29.3	30.6	31.4	36.8	38.1	37.4	38.7	39.4
6H	29.3	30.6	30.0	31.2	31.9	38.8	40.0	39.5	40.7	41.4
8H	29.5	30.7	30.2	31.4	32.1	40.1	41.3	40.7	41.9	42.7
12H	29.6	30.8	30.3	31.4	32.2	41.0	42.2	41.7	42.8	43.6
4H 2H	27.9	29.2	28.6	29.9	30.6	31.9	33.2	32.5	33.8	34.5
3H	30.4	31.5	31.0	32.2	33.0	35.7	36.8	36.3	37.5	38.2
4H	31.5	32.5	32.1	33.2	34.0	37.9	39.0	38.6	39.6	40.4
6H	32.4	33.3	33.1	34.0	34.8	40.3	41.2	40.9	41.9	42.7
8H	32.7	33.6	33.4	34.3	35.1	41.7	42.6	42.3	43.2	44.1
12H	33.0	33.8	33.7	34.5	35.3	42.8	43.6	43.5	44.3	45.1
8H 4H	33.9	34.8	34.5	35.4	36.2	38.3	39.2	39.0	39.9	40.7
6H	35.1	35.8	35.8	36.6	37.4	41.0	41.8	41.7	42.5	43.3
8H	35.6	36.3	36.3	37.0	37.8	42.6	43.3	43.3	44.1	44.9
12H	36.0	36.7	36.7	37.4	38.3	44.1	44.7	44.8	45.4	46.3
12H 4H	34.7	35.5	35.4	36.3	37.1	38.3	39.2	39.0	39.9	40.7
6H	36.3	37.0	37.0	37.7	38.5	41.1	41.9	41.9	42.6	43.4
8H	37.0	37.6	37.7	38.3	39.2	42.9	43.5	43.6	44.3	45.1
CIE190: 2010										

CIE190: 2010
Area: 0.0551 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Temperature: 23.6DEG	Humidity: 46.3%
Operators:Alan Wang	Test Distance:2.500m [K=1.0459]
Test Date:07 December 2020	Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

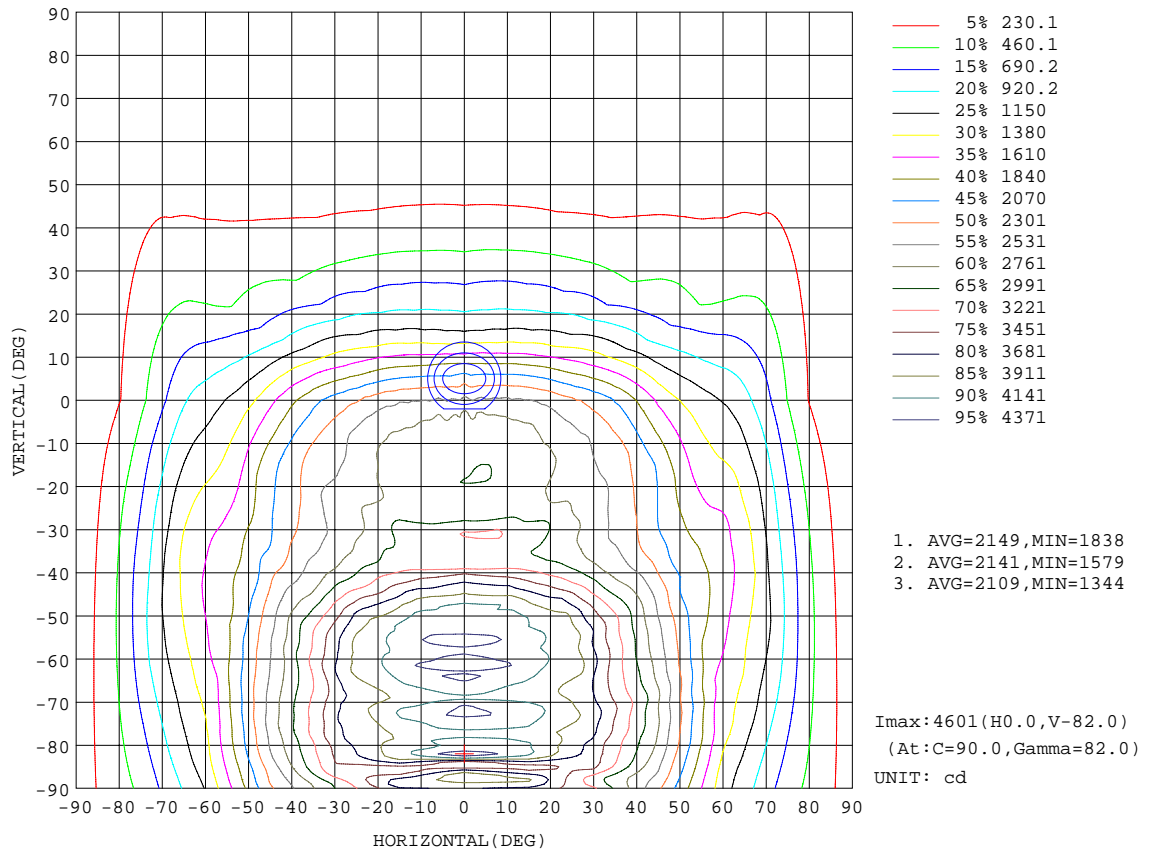
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	25	45	32	25	43	32	25	18
0.80	54	41	32	53	40	32	50	39	31	23
1.00	62	48	39	60	47	39	57	48	38	29
1.25	69	55	46	66	54	45	62	51	44	34
1.50	74	60	51	71	59	50	66	56	48	38
2.00	81	69	60	78	67	58	73	63	56	44
2.50	86	74	66	83	72	64	77	68	61	49
3.00	90	79	71	86	77	69	80	72	66	52
4.00	95	86	78	91	83	76	84	77	72	58
5.00	98	90	83	94	87	81	87	81	76	61
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: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

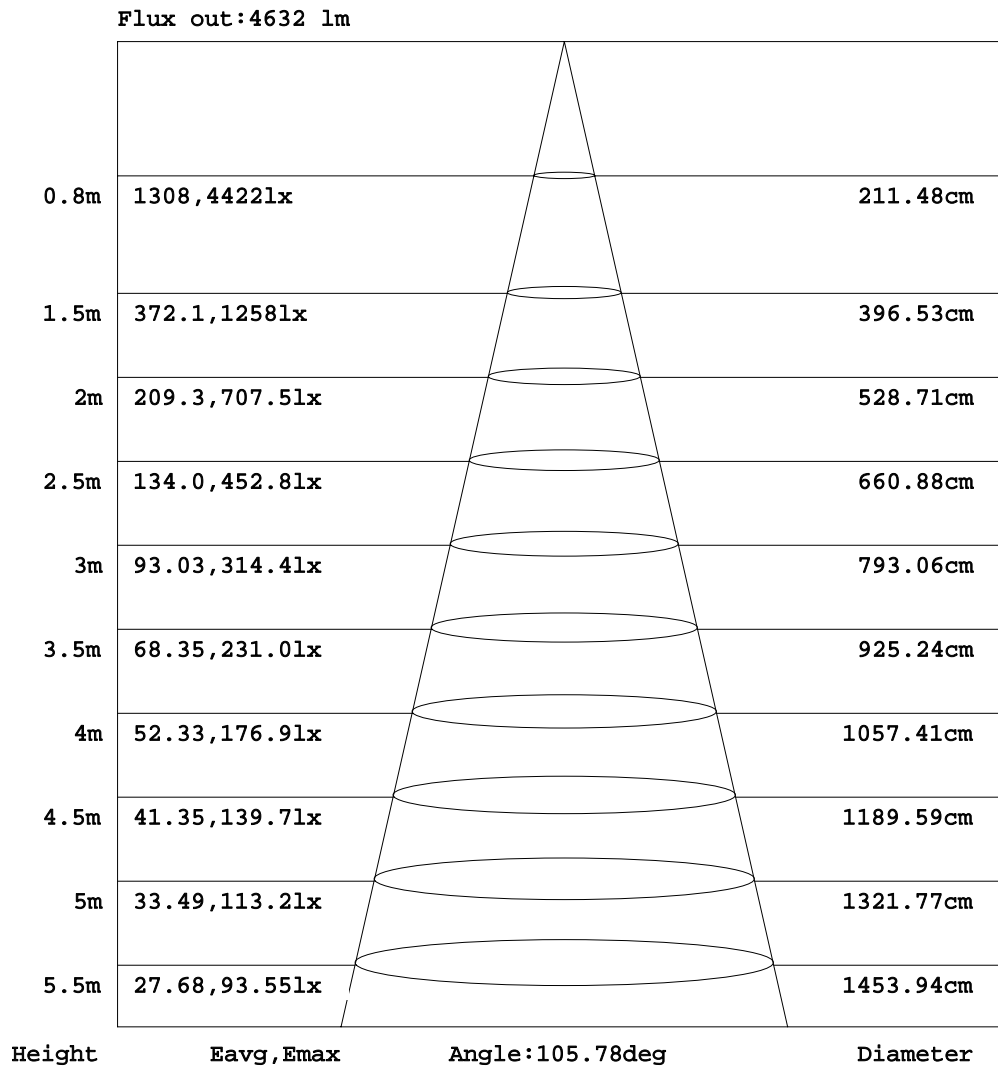


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

AAI Figure

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



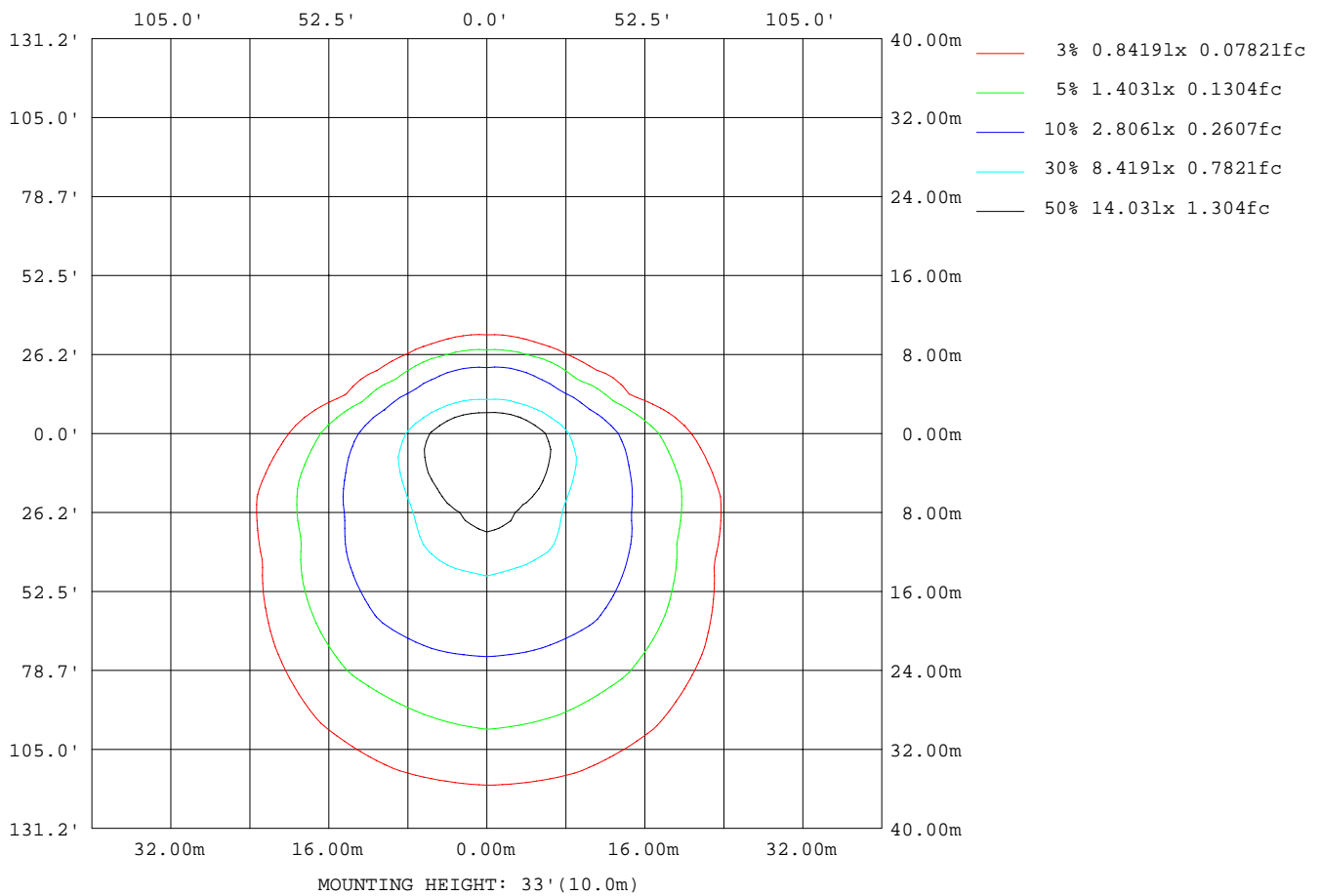
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators:Alan Wang
 Test Date:07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance:2.500m [K=1.0459]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LED Avg.L Report

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

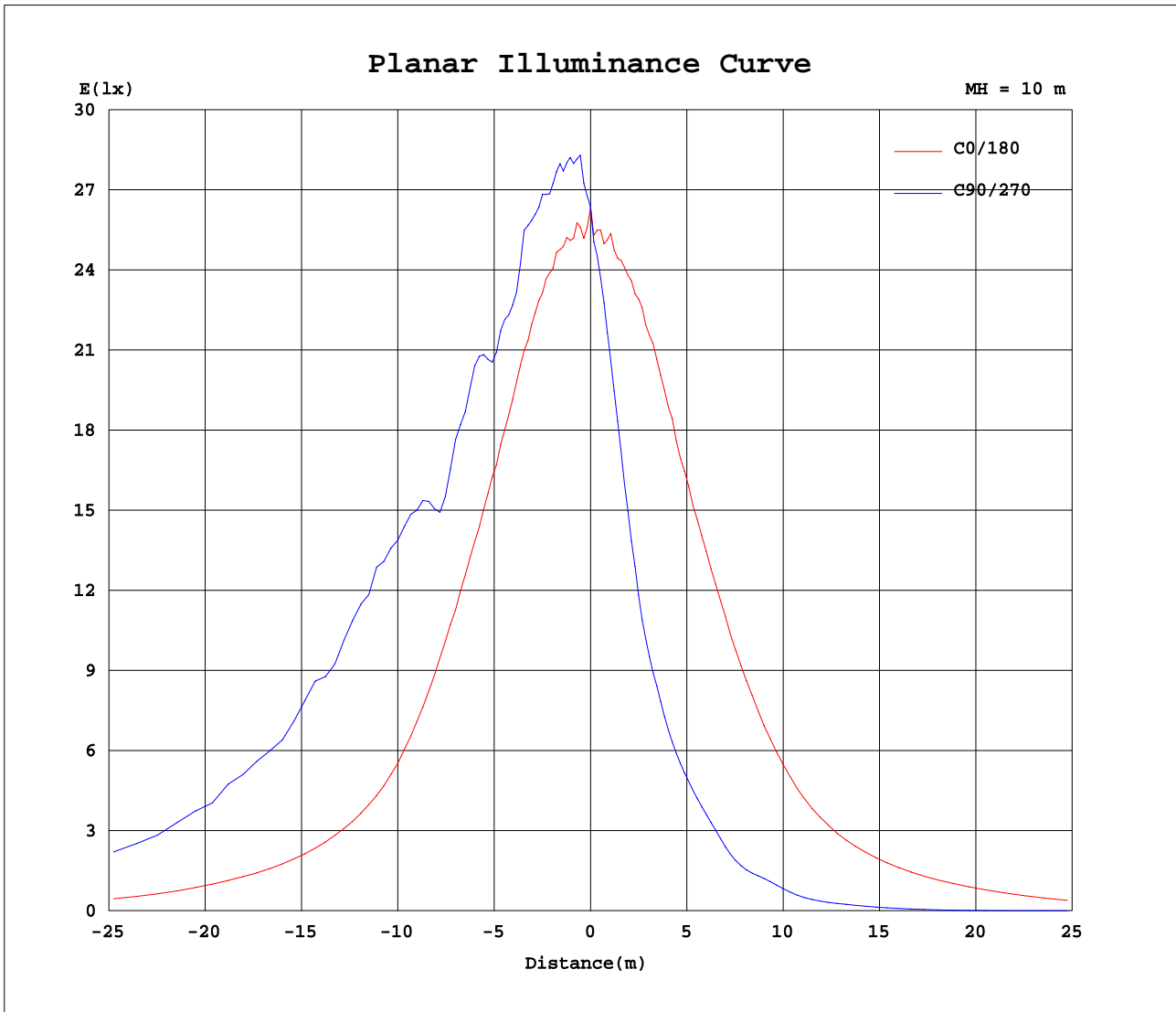
AvgL	cd/m2
L_0~180(65)av	40465
L_0~180(75)av	29833
L_0~180(85)av	28965
L_90~270(65)av	94229
L_90~270(75)av	148815
L_90~270(85)av	343701
L_45(65)av	64609
L_45(75)av	100914
L_45(85)av	269641

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	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	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637	2637
5	2547	2637	2740	2818	2763	2764	2831	2769	2782	2741	2677	2625	2542	2432	2339	2258	2190	2163	2190
10	2582	2728	2803	2821	2858	2787	2898	2849	2794	2807	2775	2690	2523	2323	2116	1937	1816	1718	1673
15	2538	2732	2816	2856	2895	2966	2924	2835	2860	2839	2792	2703	2508	2178	1860	1593	1384	1249	1212
20	2461	2684	2790	2915	2946	2951	2919	2899	2914	2839	2793	2682	2418	1988	1596	1280	1083	989	945
25	2345	2593	2756	2857	2793	2809	2918	2926	2848	2806	2727	2585	2278	1761	1320	1033	868	782	741
30	2213	2529	2643	2718	2927	3155	3197	3022	2924	2716	2587	2469	2163	1549	1090	822	699	636	601
35	2051	2425	2581	2792	3135	3151	3211	3160	2985	2752	2551	2363	2007	1333	880	645	556	482	437
40	1831	2288	2513	2741	2956	3226	3412	3182	3002	2673	2504	2236	1793	1105	663	505	393	334	313
45	1561	2116	2366	2648	3231	3766	3926	3720	3182	2636	2320	2065	1549	871	496	377	288	257	235
50	1377	1898	2218	2775	3683	4155	4324	4132	3501	2711	2208	1862	1321	670	391	268	197	157	137
55	1244	1672	2159	2974	3958	4248	4562	4275	3841	2783	2097	1617	1164	516	313	182	129	103	91.7
60	1138	1604	2115	3072	3992	4250	4478	4246	3934	2956	1998	1527	1035	390	239	121	72.9	51.8	41.2
65	992	1625	2031	2975	3978	4186	4385	4217	3895	2883	1910	1519	893	322	176	78.2	28.4	8.38	3.41
70	754	1499	1897	2926	3785	4085	4283	3976	3679	2769	1830	1420	647	275	125	39.2	5.58	4.14	3.92
75	451	1284	1712	2962	3869	4191	4240	4088	3704	2743	1671	1224	400	220	87.8	23.7	5.35	4.75	4.53
80	221	1075	1562	2848	3689	4166	4214	4016	3633	2684	1465	1021	221	174	65.2	18.4	5.65	5.16	4.88
85	137	804	1419	2647	3546	3362	3296	3436	3451	2504	1345	744	141	139	51.8	14.0	5.65	5.16	4.99
90	111	556	1243	2345	3261	3623	3704	3661	2990	2261	1163	504	107	113	38.7	9.45	4.90	4.91	4.92
95	106	359	1019	2013	2765	3201	3353	3140	2740	1913	959	318	99.2	93.8	30.8	8.30	5.45	6.12	6.33
100	84.1	134	314	1274	2110	2549	2740	2500	1975	1171	251	123	75.0	54.4	13.6	7.69	7.60	9.94	10.7
105	43.0	127	408	319	744	1118	1263	1051	710	303	367	125	41.2	39.7	18.3	7.06	8.26	10.5	11.2
110	96.8	116	323	448	645	882	964	855	531	383	311	112	92.4	39.5	15.3	7.74	8.54	10.5	11.2
115	73.1	90.6	231	500	891	1176	1202	1141	786	457	223	87.9	70.6	27.6	12.1	7.50	8.64	10.3	11.0
120	52.0	72.0	189	415	766	1012	1075	982	701	394	178	70.5	51.3	18.9	9.00	7.02	8.40	9.77	10.4
125	36.2	59.6	169	351	616	820	878	794	582	327	152	57.7	36.3	13.3	7.41	5.51	7.81	9.07	9.51
130	21.6	45.0	140	275	447	577	619	577	445	263	128	42.7	18.4	7.15	5.75	5.02	5.03	7.80	8.33
135	14.8	23.7	134	188	297	386	412	382	289	185	118	20.8	13.5	9.21	4.78	5.42	5.89	4.79	4.62
140	10.6	24.0	95.9	150	186	241	258	240	190	151	92.7	24.0	10.6	6.69	4.78	4.29	5.52	5.50	6.16
145	6.84	15.2	59.8	120	131	151	158	153	135	114	57.7	16.2	8.05	4.76	4.24	4.52	4.23	4.45	4.99
150	4.12	7.89	32.4	83.2	103	107	107	109	102	84.0	33.0	8.01	4.41	3.37	3.83	4.38	4.53	3.86	3.56
155	3.99	4.68	13.8	45.4	70.8	81.4	83.5	81.5	73.1	46.9	14.1	4.85	4.31	4.25	3.59	3.90	3.88	3.82	3.89
160	3.23	3.74	6.92	19.6	38.8	50.6	55.0	51.6	39.9	22.4	8.40	4.69	4.53	4.51	3.88	3.43	3.27	3.59	3.48
165	4.39	4.22	4.18	5.40	10.6	20.4	23.7	21.2	13.0	6.58	4.64	4.67	4.74	4.71	4.37	3.36	2.95	2.77	2.41
170	4.62	4.52	4.36	4.25	4.30	4.59	4.48	4.73	4.53	4.30	4.08	3.94	3.64	3.88	4.03	4.19	3.81	2.83	2.20
175	4.78	4.73	4.66	4.57	4.49	4.44	4.39	4.49	4.61	4.75	4.83	4.79	4.09	4.16	4.16	3.95	3.48	3.33	3.57
180	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46	9.46

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.51V I:0.6779A P:81.594W PF:0.9988 Freq:60.01Hz Lamp Flux:11874x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D50-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2637	2637	2637	2637	2637														
5	2151	2205	2290	2371	2459														
10	1729	1817	1961	2160	2372														
15	1261	1401	1620	1905	2228														
20	993	1090	1281	1615	2035														
25	792	869	1026	1322	1805														
30	648	702	822	1092	1591														
35	491	557	646	876	1354														
40	335	397	505	655	1115														
45	253	284	378	488	875														
50	155	190	266	385	697														
55	98.1	127	183	327	541														
60	50.9	71.5	123	252	395														
65	8.18	28.0	81.4	185	316														
70	4.10	5.98	42.7	134	275														
75	4.68	5.57	27.4	97.4	224														
80	5.06	5.49	20.2	72.0	175														
85	5.03	5.38	14.8	56.1	136														
90	4.78	4.45	9.22	42.3	112														
95	6.30	5.39	8.41	33.1	93.8														
100	9.62	7.33	7.34	11.9	55.3														
105	10.2	8.10	7.16	19.5	45.3														
110	10.4	8.52	7.95	16.3	52.7														
115	10.1	8.56	7.50	13.0	36.3														
120	9.23	8.14	6.88	9.35	24.9														
125	8.54	7.45	4.76	8.01	18.1														
130	7.28	4.71	4.85	5.58	9.55														
135	4.89	5.62	4.95	4.94	9.82														
140	5.88	5.02	4.24	4.81	6.49														
145	4.74	3.96	4.61	4.68	4.64														
150	3.61	4.22	4.46	4.49	3.85														
155	4.31	4.52	4.33	4.02	4.05														
160	4.11	4.41	4.14	3.82	3.72														
165	2.60	2.98	3.33	4.13	4.84														
170	2.15	2.53	3.40	4.36	4.70														
175	3.26	3.08	3.09	4.17	4.74														
180	4.84	4.84	4.84	4.84	4.84														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 46.3%
 Test Distance: 2.500m [K=1.0459]
 Remarks: