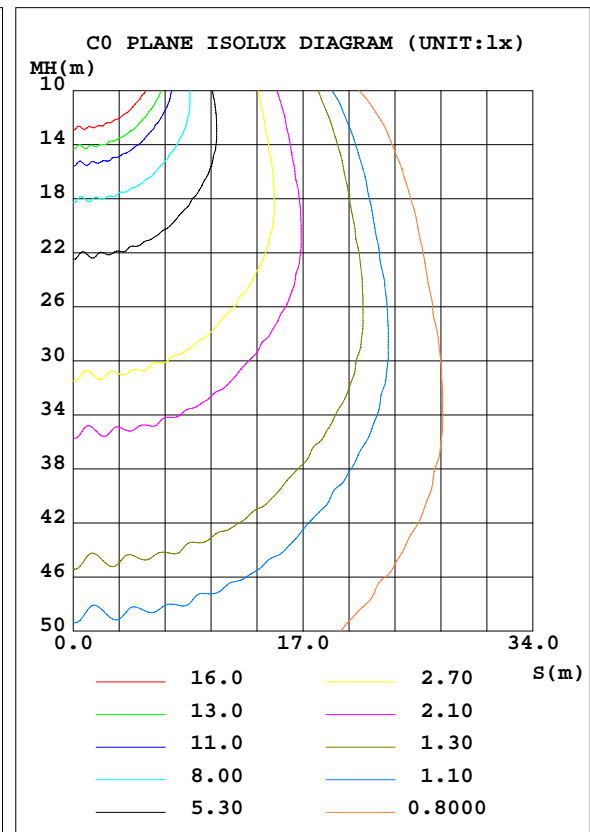
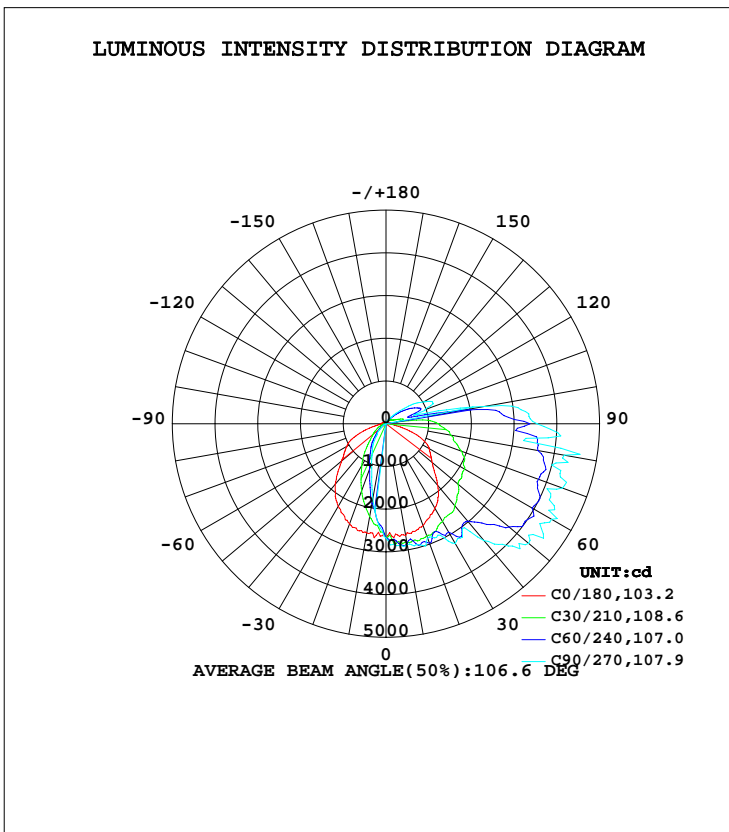


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.30 lm/W			
MODEL ASD-WLP01-80D40-PC-PRM		I _{max} (cd)	4596	S/MH(C0/180)	1.24
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.48
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	11858	η UP, DN(C0-180)	15.2,72.1
NOMINAL FLUX(lm)	11857.8	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	0.4,12.3
LAMPS INSIDE	1	η up(%)	15.6	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	84.4	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	2661	2846	2876	2797	2594	2005	1787	2048	0- 10	241.2	241.2	2.03,2.03
20	2534	2921	2845	2817	2494	1349	997.0	1349	10- 20	649.8	891.0	7.51,7.51
30	2283	2713	3238	2727	2233	857.5	627.2	859.0	20- 30	933.7	1825	15.4,15.4
40	1888	2719	3571	2687	1847	529.1	324.8	527.9	30- 40	1145	2969	25,25
50	1415	2813	4358	2731	1358	283.3	148.8	281.5	40- 50	1317	4286	36.1,36.1
60	1167	3073	4474	2999	1059	127.5	49.77	129.4	50- 60	1474	5760	48.6,48.6
70	765.6	2937	4397	2772	655.4	43.83	3.772	47.50	60- 70	1511	7271	61.3,61.3
80	220.9	2836	4239	2666	221.8	18.62	4.824	20.68	70- 80	1458	8730	73.6,73.6
90	110.9	2296	3537	2204	106.8	9.971	4.963	9.754	80- 90	1279	10009	84.4,84.4
100	83.46	1103	2351	992.2	74.67	7.630	10.34	7.374	90-100	953.7	10962	92.4,92.4
110	96.40	463.1	975.7	402.6	91.02	7.496	11.18	7.720	100-110	324.6	11287	95.2,95.2
120	51.30	389.3	1031	372.7	50.05	7.006	10.49	6.853	110-120	275.2	11562	97.5,97.5
130	20.60	254.6	567.4	244.1	17.71	4.720	8.754	4.698	120-130	175.4	11738	99,99
140	10.03	147.5	233.9	146.1	10.30	4.426	6.329	4.238	130-140	77.69	11815	99.6,99.6
150	3.949	77.52	100.5	78.58	4.287	4.485	3.552	4.576	140-150	29.78	11845	99.9,99.9
160	3.164	12.99	49.09	17.39	4.524	3.543	3.617	4.299	150-160	10.42	11855	100,100
170	4.632	4.296	4.244	4.246	3.699	4.297	2.131	3.144	160-170	2.034	11857	100,100
180	6.347	6.347	6.347	6.347	4.810	4.810	4.810	4.810	170-180	0.3809	11858	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3602.9 lm

%lum = 30.4%

%lamp = 30.4%

Conical surface Flux(120deg): 5760.1 lm

%lum = 48.6%

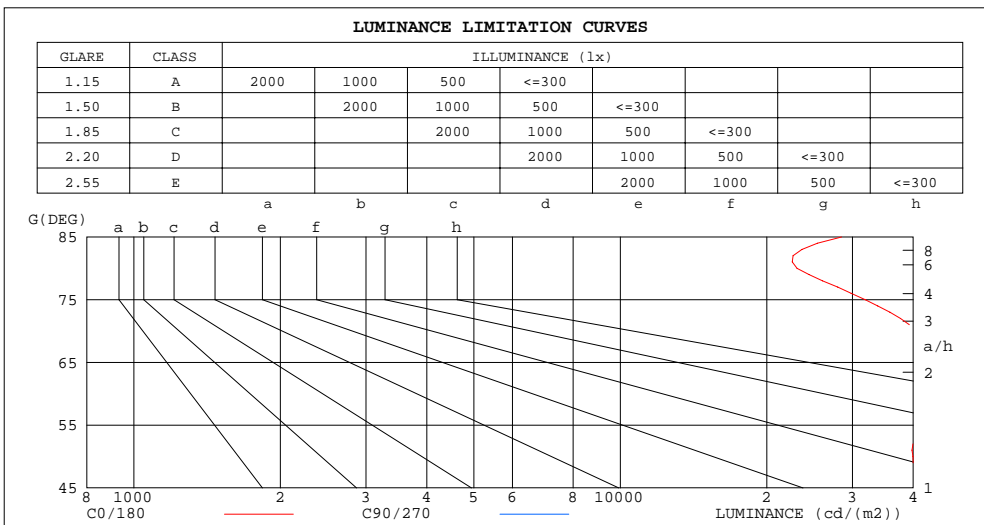
%lamp = 48.6%

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	28506	793303
80	23087	443021
75	31879	297148
70	40624	233313
65	43474	181101
60	42348	162409
55	40402	142356
50	39948	123056
45	41203	103869

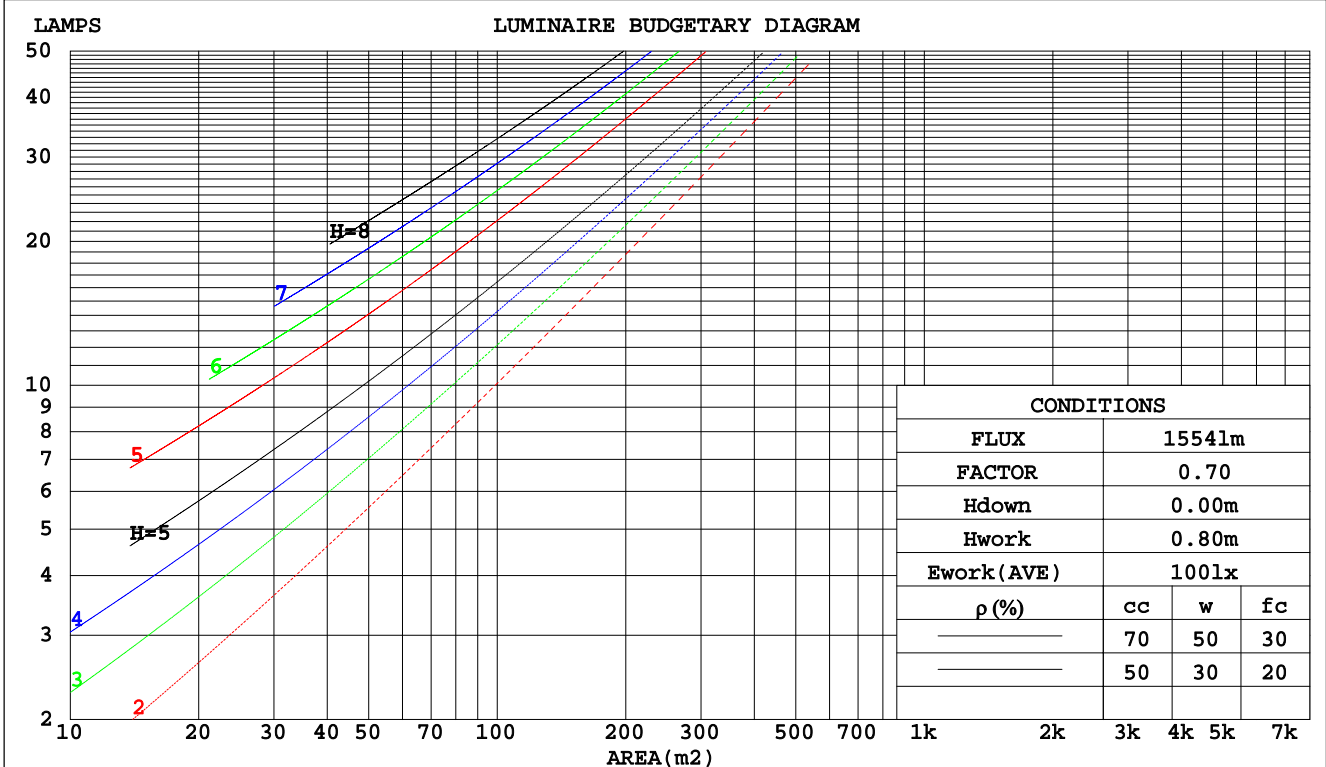
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-PC-PRM	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	1.15	1.15	1.15	1.11	1.11	1.11	1.02	1.02	1.02	.95	.95	.95	.88	.88	.88	.84
1.0	.94	.87	.82	.90	.84	.79	.82	.78	.74	.76	.72	.69	.69	.67	.64	.60
2.0	.79	.70	.63	.76	.68	.61	.69	.63	.57	.64	.58	.54	.58	.54	.50	.47
3.0	.68	.58	.51	.65	.56	.49	.60	.52	.46	.55	.49	.43	.50	.45	.41	.37
4.0	.59	.49	.42	.57	.48	.41	.52	.44	.38	.48	.41	.36	.44	.38	.34	.31
5.0	.53	.43	.35	.50	.41	.34	.46	.39	.32	.43	.36	.31	.39	.34	.29	.26
6.0	.47	.37	.30	.45	.36	.29	.42	.34	.28	.38	.32	.26	.35	.30	.25	.22
7.0	.42	.33	.26	.41	.32	.26	.38	.30	.24	.35	.28	.23	.32	.26	.22	.20
8.0	.39	.29	.23	.37	.29	.23	.34	.27	.22	.32	.25	.21	.30	.24	.20	.17
9.0	.35	.27	.21	.34	.26	.20	.32	.24	.19	.29	.23	.18	.27	.22	.18	.15
10.0	.32	.24	.19	.31	.24	.18	.29	.22	.17	.27	.21	.17	.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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-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	.436	.248	.079	.424	.242	.077	.401	.230	.074	.381	.219	.070	.361	.209	.068	
2.0	.366	.200	.061	.355	.195	.060	.334	.186	.058	.315	.177	.055	.298	.168	.053	
3.0	.319	.170	.051	.309	.165	.050	.290	.157	.048	.273	.150	.046	.257	.142	.044	
4.0	.283	.147	.043	.274	.143	.042	.257	.136	.041	.242	.130	.039	.227	.123	.038	
5.0	.255	.130	.038	.247	.127	.037	.232	.121	.035	.217	.115	.034	.204	.109	.033	
6.0	.232	.116	.033	.224	.113	.033	.211	.108	.031	.198	.103	.030	.186	.098	.029	
7.0	.212	.105	.030	.206	.103	.029	.193	.098	.028	.181	.093	.027	.170	.089	.026	
8.0	.196	.096	.027	.190	.094	.026	.179	.089	.025	.168	.085	.025	.158	.081	.024	
9.0	.182	.088	.025	.177	.086	.024	.166	.082	.023	.156	.078	.022	.147	.074	.022	
10.0	.170	.081	.023	.165	.080	.022	.155	.076	.021	.146	.072	.021	.137	.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	.309	.309	.309	.264	.264	.264	.180	.180	.180	.104	.104	.104	.033	.033	.033	
1.0	.309	.275	.244	.264	.236	.210	.181	.162	.145	.104	.094	.085	.033	.030	.027	
2.0	.303	.252	.210	.259	.217	.181	.178	.150	.126	.102	.087	.074	.033	.028	.024	
3.0	.295	.236	.189	.253	.203	.164	.174	.141	.115	.100	.083	.068	.032	.027	.022	
4.0	.287	.224	.175	.246	.193	.152	.169	.135	.107	.098	.079	.063	.032	.026	.021	
5.0	.279	.214	.166	.239	.185	.144	.165	.129	.102	.096	.076	.060	.031	.025	.020	
6.0	.271	.206	.159	.233	.178	.139	.161	.125	.098	.093	.073	.058	.030	.024	.019	
7.0	.263	.199	.154	.227	.173	.134	.157	.121	.095	.091	.071	.057	.029	.023	.019	
8.0	.256	.194	.150	.221	.168	.131	.153	.118	.093	.089	.070	.055	.029	.023	.018	
9.0	.250	.189	.148	.215	.164	.129	.149	.115	.091	.087	.068	.055	.028	.022	.018	
10.0	.244	.185	.145	.210	.160	.127	.146	.113	.090	.085	.067	.054	.028	.022	.018	

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-WLP01-80D40-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	25.2	26.6	25.7	27.2	27.9	31.4	32.9	32.0	33.5	34.2
3H	27.9	29.3	28.5	29.9	30.6	34.8	36.1	35.4	36.7	37.4
4H	28.8	30.1	29.4	30.7	31.4	36.7	38.0	37.3	38.6	39.4
6H	29.4	30.7	30.0	31.3	32.0	38.9	40.1	39.5	40.7	41.5
8H	29.6	30.8	30.2	31.4	32.2	40.0	41.2	40.7	41.9	42.6
12H	29.7	30.9	30.4	31.5	32.3	41.0	42.1	41.6	42.8	43.5
4H 2H	28.0	29.3	28.6	29.9	30.6	31.9	33.2	32.5	33.8	34.5
3H	30.4	31.6	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	38.5	39.6	40.4
6H	32.4	33.4	33.1	34.1	34.8	40.3	41.2	41.0	41.9	42.7
8H	32.8	33.7	33.4	34.3	35.1	41.6	42.5	42.3	43.2	44.0
12H	33.0	33.8	33.7	34.5	35.3	42.7	43.5	43.4	44.2	45.0
8H 4H	33.9	34.8	34.5	35.5	36.3	38.3	39.2	39.0	39.9	40.7
6H	35.1	35.9	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	44.0	44.8
12H	36.0	36.7	36.7	37.4	38.3	44.0	44.6	44.7	45.3	46.2
12H 4H	34.7	35.6	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	41.2	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	44.2	45.1
CIE190: 2010										

CIE190: 2010
Area: 0.0551 m2

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:

UTILIZATION FACTORS TABLE

Test:U:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

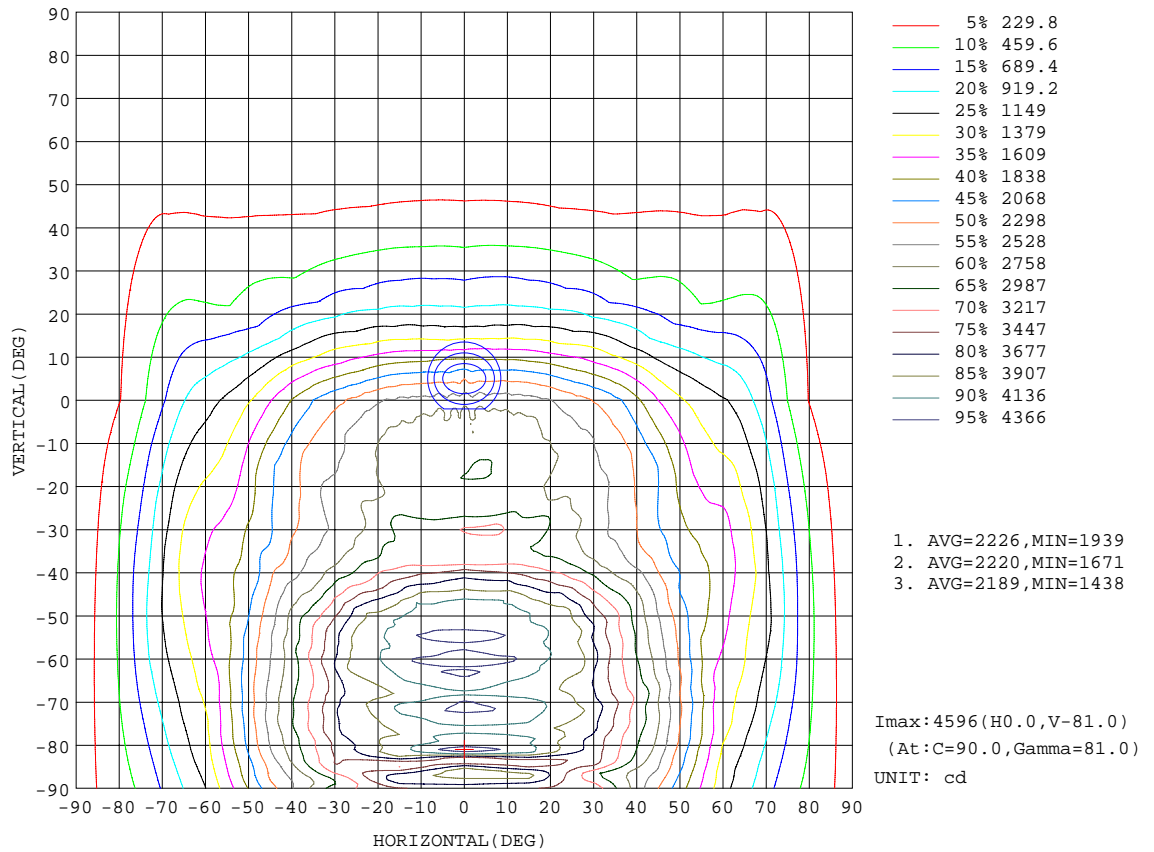
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	33	26	45	33	25	43	32	25	18
0.80	55	41	33	53	40	32	51	39	32	24
1.00	62	48	39	60	47	39	57	48	38	29
1.25	69	55	46	67	54	45	63	52	44	34
1.50	74	61	51	72	59	51	67	57	49	39
2.00	81	69	60	79	67	59	73	64	57	45
2.50	86	75	66	83	73	65	77	69	62	49
3.00	90	80	71	87	77	70	80	73	66	53
4.00	95	86	79	91	83	77	85	78	72	58
5.00	98	90	84	95	87	81	87	82	77	62
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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-WLP01-80D40-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

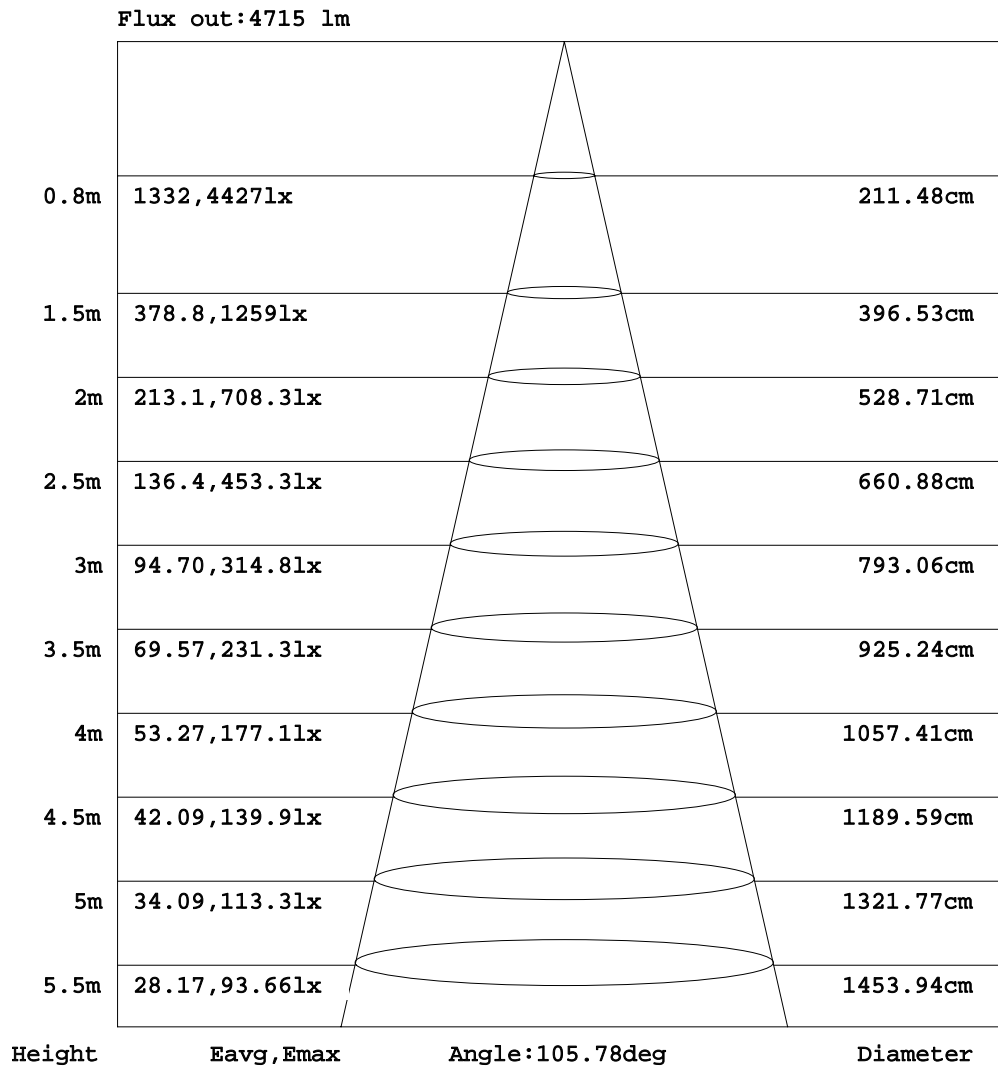


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 23.6DEG
 Operators: Alan Wang
 Test Date: 07 December 2020

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



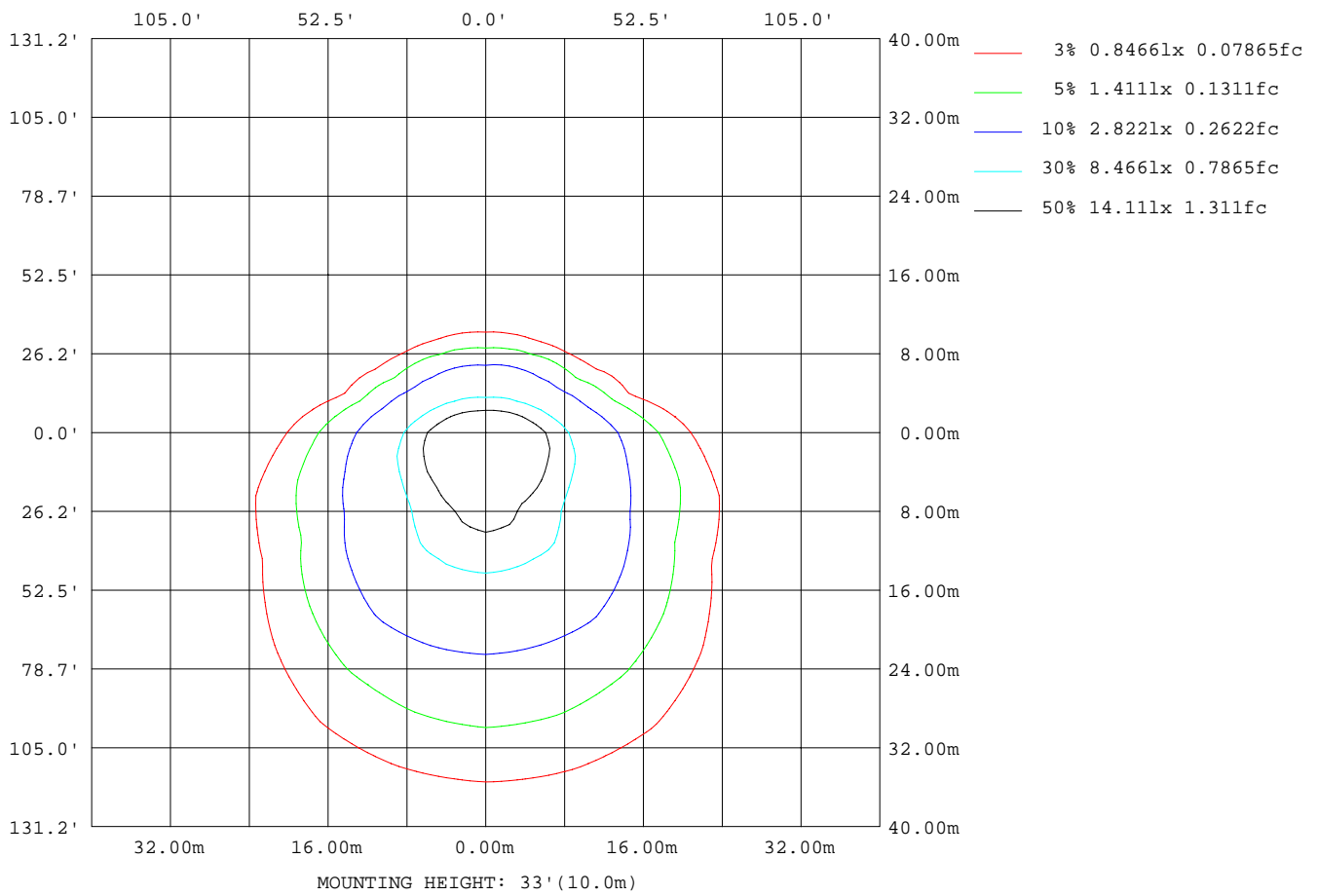
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-PC-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

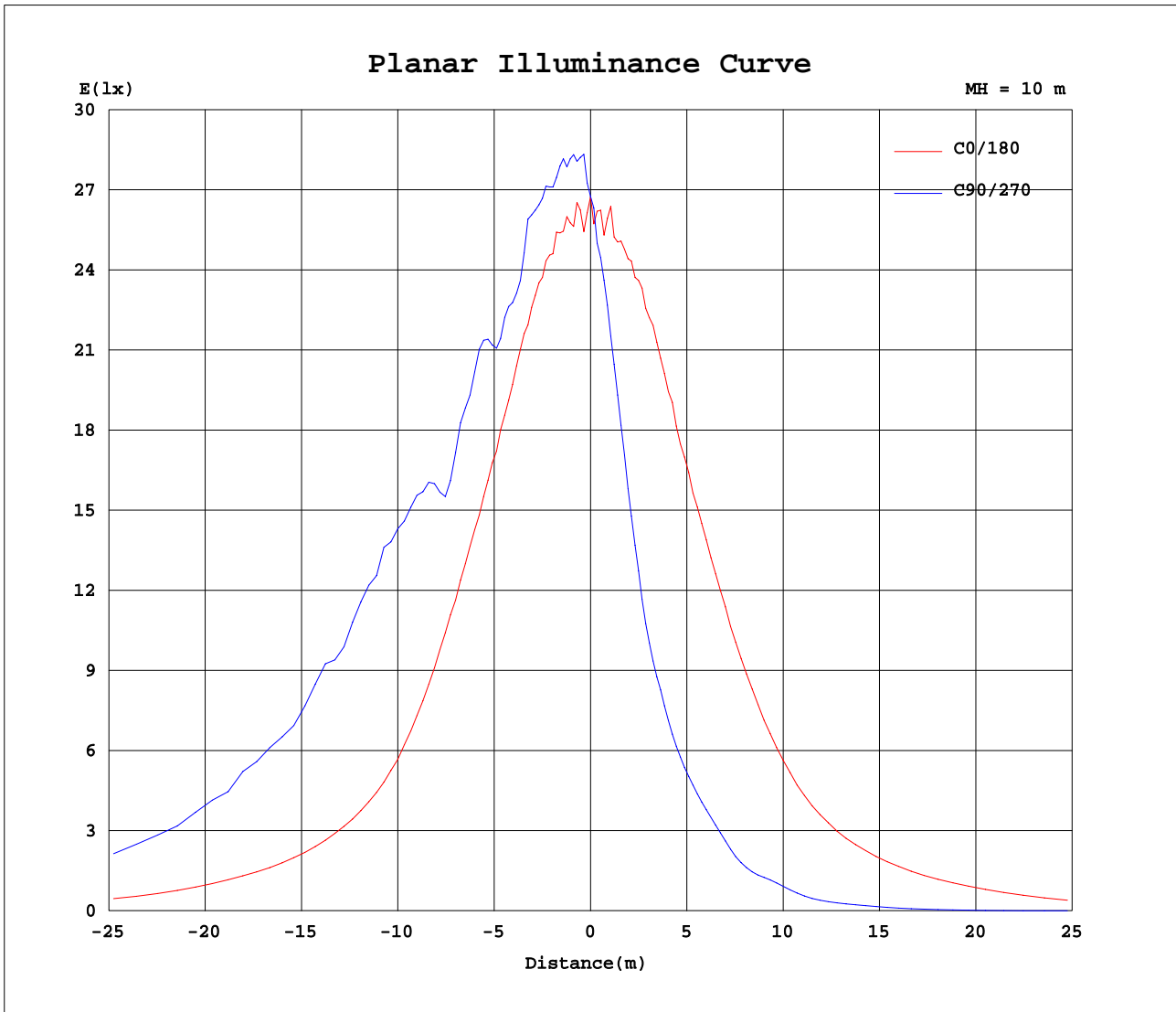
AvgL	cd/m2
L_0~180(65)av	41283
L_0~180(75)av	30062
L_0~180(85)av	28932
L_90~270(65)av	90714
L_90~270(75)av	148729
L_90~270(85)av	397166
L_45(65)av	64957
L_45(75)av	100953
L_45(85)av	265893

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-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	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675	2675
5	2592	2686	2808	2845	2753	2762	2865	2769	2803	2724	2734	2679	2623	2505	2387	2340	2292	2218	2295
10	2661	2787	2812	2846	2838	2755	2876	2877	2803	2797	2803	2746	2594	2401	2206	2005	1896	1824	1787
15	2610	2766	2842	2891	2953	3038	2934	2794	2822	2826	2804	2751	2587	2267	1940	1674	1460	1320	1294
20	2534	2710	2784	2921	2980	2853	2845	2877	2914	2817	2799	2718	2494	2069	1672	1349	1129	1031	997
25	2421	2620	2773	2832	2780	2828	2880	2920	2869	2824	2720	2613	2349	1832	1379	1078	906	816	774
30	2283	2555	2647	2713	2931	3266	3238	3081	2990	2727	2584	2488	2233	1609	1135	858	725	662	627
35	2116	2446	2586	2791	3105	3105	3122	3190	2970	2730	2565	2386	2071	1384	920	670	586	518	476
40	1888	2313	2506	2719	2976	3369	3571	3319	3007	2687	2499	2259	1847	1149	690	529	423	351	325
45	1605	2144	2361	2656	3334	3893	4047	3872	3222	2646	2317	2088	1594	905	512	399	303	276	259
50	1415	1914	2202	2813	3763	4207	4358	4169	3609	2731	2211	1878	1358	690	403	283	212	172	149
55	1277	1676	2170	3034	3977	4330	4499	4355	3878	2824	2115	1623	1194	528	326	194	141	112	103
60	1167	1617	2130	3073	3950	4351	4474	4328	3939	2999	1986	1542	1059	395	249	128	80.6	61.0	49.8
65	1012	1638	2032	2966	3979	4149	4217	4169	3920	2913	1893	1536	910	325	184	84.5	36.1	14.6	7.62
70	766	1510	1882	2937	3801	4177	4397	4017	3667	2772	1812	1429	655	279	131	43.8	5.27	3.99	3.77
75	455	1285	1678	2951	3865	4157	4238	4027	3717	2755	1644	1227	403	225	91.1	24.2	5.13	4.63	4.41
80	221	1075	1535	2836	3612	4149	4239	4080	3574	2666	1442	1020	222	178	66.7	18.6	5.46	5.11	4.82
85	137	793	1386	2609	3541	3367	3810	3168	3469	2470	1325	731	141	142	52.4	14.1	5.59	5.15	4.94
90	111	543	1228	2296	3367	3461	3537	3435	3111	2204	1143	493	107	114	39.7	9.97	5.09	5.05	4.96
95	104	340	978	1978	2713	3128	3278	3066	2646	1890	901	298	99.1	95.4	30.3	7.59	4.87	5.36	5.61
100	83.5	132	248	1103	1834	2210	2351	2181	1699	992	198	122	74.7	57.0	14.9	7.63	7.33	9.66	10.3
105	41.6	120	417	264	613	968	938	913	577	262	382	120	41.1	37.5	17.8	6.75	8.20	10.5	11.1
110	96.4	107	307	463	726	949	976	911	590	403	294	104	91.0	38.6	15.0	7.50	8.50	10.5	11.2
115	72.7	84.3	216	484	874	1158	1207	1141	784	446	210	82.0	69.2	26.6	11.8	7.38	8.65	10.4	11.1
120	51.3	66.2	178	389	736	973	1031	930	671	373	166	65.1	50.0	17.8	9.02	7.01	8.49	9.90	10.5
125	35.3	53.1	158	334	582	779	834	763	560	311	142	52.1	35.2	12.2	7.35	6.06	8.01	9.21	9.68
130	20.6	38.4	132	255	416	533	567	534	413	244	120	36.6	17.7	6.02	5.85	4.72	5.90	8.37	8.75
135	14.8	14.7	129	172	270	354	377	351	264	172	112	13.1	13.2	9.06	4.53	5.48	5.62	4.21	4.62
140	10.0	17.6	88.7	148	170	219	234	219	175	146	86.2	18.1	10.3	6.50	4.71	4.43	5.73	5.67	6.33
145	6.45	10.4	50.4	114	126	138	145	141	129	108	48.8	11.8	7.74	4.53	4.27	4.41	4.44	4.78	5.32
150	3.95	5.36	24.9	77.5	97.5	102	100	103	96.7	78.6	25.4	5.36	4.29	3.17	3.93	4.49	4.56	3.57	3.55
155	4.01	3.83	8.25	37.8	64.6	75.7	77.9	76.4	67.5	39.5	8.65	4.01	4.29	4.24	3.58	4.03	4.05	3.91	3.95
160	3.16	3.34	4.60	13.0	32.5	44.9	49.1	45.5	33.8	17.4	5.87	4.39	4.52	4.50	3.53	3.54	3.42	3.63	3.62
165	4.42	4.33	4.11	4.27	6.71	16.2	18.9	16.8	8.63	4.97	4.47	4.77	4.74	4.73	4.46	2.97	2.85	3.03	2.51
170	4.63	4.59	4.44	4.30	4.22	4.26	4.24	4.40	4.46	4.25	4.01	3.89	3.70	3.83	4.01	4.30	3.85	2.63	2.13
175	4.78	4.78	4.74	4.68	4.60	4.53	4.49	4.57	4.73	4.90	4.93	4.78	4.09	4.12	4.07	3.71	3.17	2.91	2.80
180	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	4.81	4.81	4.81	4.81

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:120.40V I:0.6789A P:81.610W PF:0.9984 Freq:60.01Hz Lamp Flux:11857.8x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80D40-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	2675	2675	2675	2675	2675														
5	2214	2286	2381	2449	2525														
10	1821	1897	2048	2256	2458														
15	1345	1484	1704	1995	2315														
20	1035	1136	1349	1697	2122														
25	823	912	1071	1387	1883														
30	675	728	859	1136	1659														
35	528	586	673	914	1407														
40	355	427	528	680	1159														
45	272	299	400	503	909														
50	171	203	282	395	717														
55	107	138	195	338	554														
60	59.9	79.3	129	263	399														
65	14.3	35.3	87.3	193	317														
70	3.96	5.77	47.5	141	277														
75	4.57	5.39	28.2	101	228														
80	5.01	5.29	20.7	74.0	179														
85	5.03	5.32	14.9	57.0	139														
90	4.84	4.60	9.75	43.3	114														
95	5.47	4.86	7.92	33.2	95.1														
100	9.41	7.10	7.37	12.9	57.5														
105	10.1	7.99	6.64	18.9	42.0														
110	10.4	8.46	7.72	15.7	52.4														
115	10.2	8.61	7.42	12.5	35.7														
120	9.38	8.24	6.85	8.93	24.1														
125	8.70	7.68	5.13	7.75	17.5														
130	7.88	5.32	4.70	5.62	9.36														
135	4.27	5.44	4.94	4.58	9.62														
140	6.02	5.19	4.24	4.70	6.28														
145	5.19	4.11	4.52	4.73	4.50														
150	3.45	4.02	4.58	4.57	3.81														
155	4.22	4.45	4.34	4.06	4.03														
160	4.23	4.52	4.30	3.82	3.77														
165	2.76	3.25	3.35	3.82	5.01														
170	2.13	2.44	3.14	4.24	4.76														
175	2.74	2.71	2.65	3.19	4.48														
180	4.81	4.81	4.81	4.81	4.81														

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: