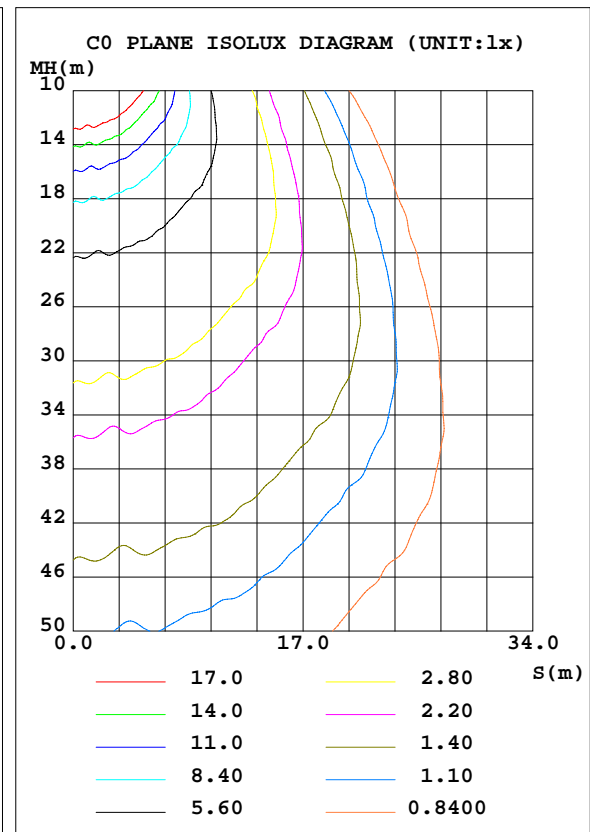
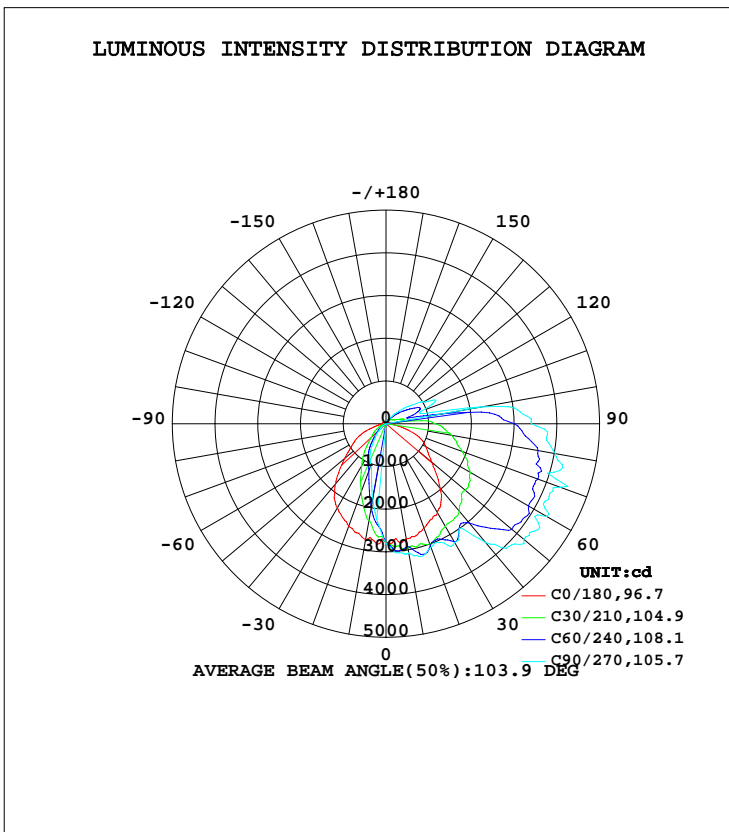


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80DAC-EM_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145,22 lm/W			
MODEL	ASD-WLP01-80DAC-EM	I <sub>max</sub> (cd)	4503	S/MH(C0/180)	1.22
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	11680	η UP, DN(C0-180)	14.7,72.5
NOMINAL FLUX(lm)	11680	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	0.4,12.4
LAMPS INSIDE	1	η up(%)	15.1	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	84.9	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	2734	3008	3070	2946	2762	2117	1796	2101	0- 10	252.1	252.1	2.14,2.14
20	2592	3071	3082	3009	2551	1354	1036	1340	10- 20	679.1	931.2	7.89,7.89
30	2405	2867	3212	2929	2270	932.0	712.9	927.6	20- 30	975.8	1907	16.2,16.2
40	1981	2704	3637	2716	1844	573.4	373.6	561.8	30- 40	1180	3087	26.1,26.1
50	1392	3024	4209	2789	1257	305.9	168.6	299.5	40- 50	1354	4441	37.6,37.6
60	1083	2996	4345	3015	863.6	140.3	47.90	140.1	50- 60	1470	5911	50.1,50.1
70	745.0	2982	4347	2695	498.5	44.85	3.757	44.72	60- 70	1473	7384	62.5,62.5
80	258.0	2858	4025	2522	170.1	18.74	4.810	18.71	70- 80	1414	8797	74.5,74.5
90	105.1	2223	3401	2033	93.50	12.24	4.849	8.219	80- 90	1229	10026	84.9,84.9
100	75.41	814.6	2292	954.4	65.43	9.594	9.511	7.756	90-100	892.6	10919	92.5,92.5
110	97.48	513.4	893.6	406.1	83.28	12.44	11.15	8.321	100-110	309.3	11228	95.1,95.1
120	48.84	409.3	1020	379.1	44.89	11.81	9.956	7.657	110-120	275.9	11504	97.4,97.4
130	14.05	257.7	586.1	251.8	15.77	9.056	8.481	5.688	120-130	174.8	11679	98.9,98.9
140	7.326	158.8	257.6	159.1	11.56	7.239	6.357	5.271	130-140	82.03	11761	99.6,99.6
150	5.155	91.19	104.5	89.27	5.078	5.200	4.785	5.971	140-150	32.17	11793	99.9,99.9
160	5.837	9.009	56.73	10.34	4.384	4.840	6.535	4.337	150-160	11.38	11804	100,100
170	4.499	4.764	6.053	5.311	5.250	5.503	5.643	2.540	160-170	2.297	11807	100,100
180	7.677	7.677	7.677	7.677	6.436	6.436	6.436	6.436	170-180	0.4838	11807	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3741.5 lm

%lum = 31.7%

%lamp = 31.7%

Conical surface Flux(120deg): 5911 lm

%lum = 50.1%

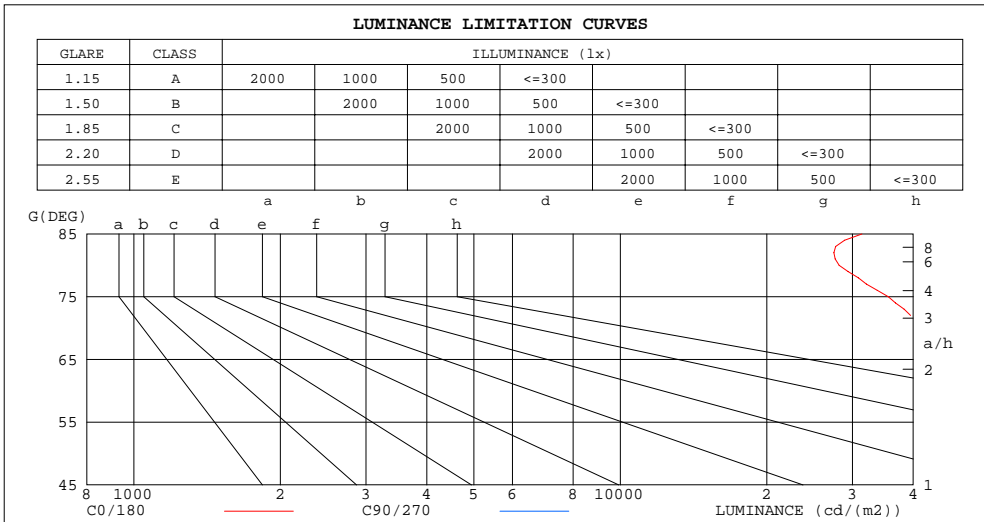
%lamp = 50.1%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	31387	819891
80	28174	439600
75	35559	309142
70	41315	241031
65	42606	188283
60	41068	164821
55	40139	143451
50	41070	124198
45	44865	109012

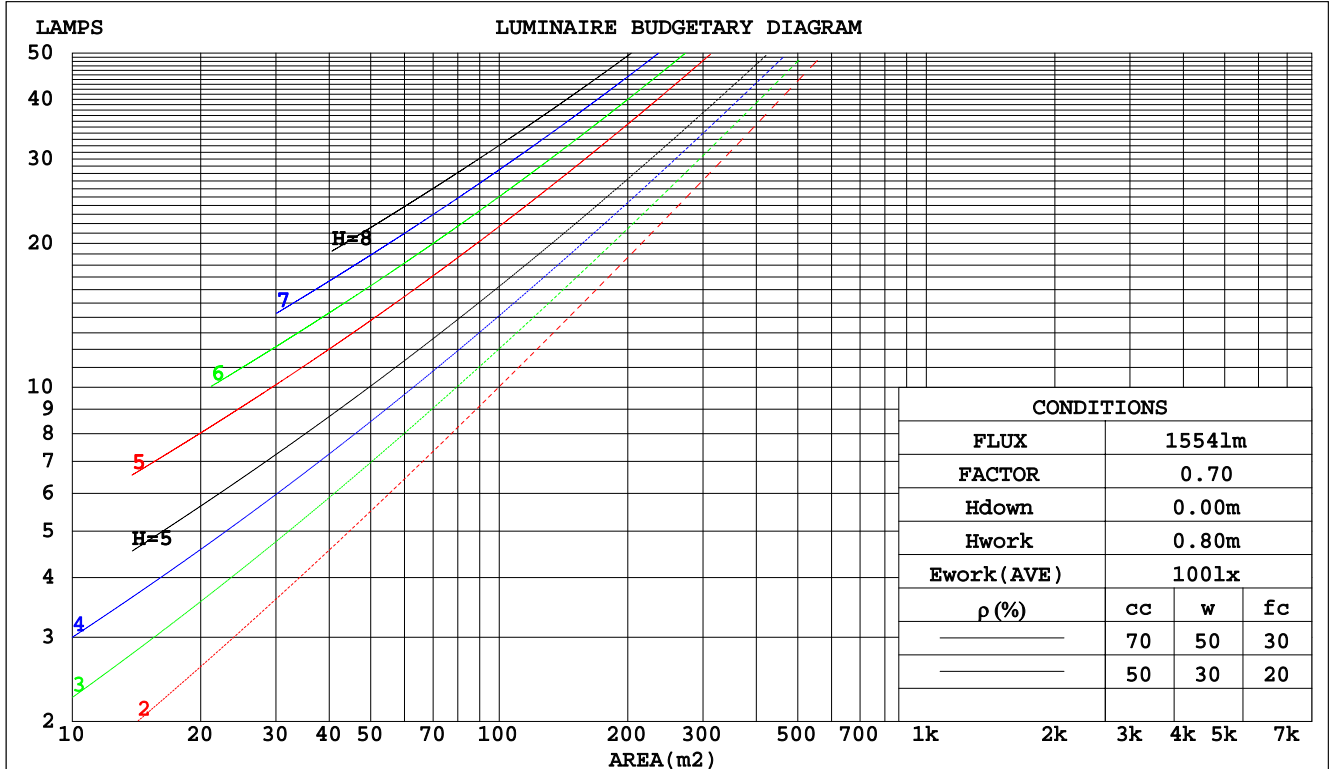
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	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	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	1.03	1.03	1.03	.95	.95	.95	.88	.88	.88	.85
1.0	.94	.88	.83	.90	.85	.80	.83	.79	.75	.76	.73	.69	.70	.67	.65	.61
2.0	.80	.71	.64	.76	.69	.62	.70	.64	.58	.64	.59	.55	.59	.55	.51	.48
3.0	.69	.59	.51	.66	.57	.50	.61	.53	.47	.56	.49	.44	.51	.46	.42	.39
4.0	.60	.50	.42	.58	.48	.41	.53	.45	.39	.49	.42	.37	.45	.39	.35	.32
5.0	.53	.43	.36	.51	.42	.35	.47	.39	.33	.44	.37	.31	.40	.34	.30	.27
6.0	.48	.38	.31	.46	.37	.30	.42	.35	.29	.39	.32	.27	.36	.30	.26	.23
7.0	.43	.34	.27	.41	.33	.26	.38	.31	.25	.36	.29	.24	.33	.27	.23	.20
8.0	.39	.30	.24	.38	.29	.23	.35	.28	.22	.33	.26	.21	.30	.25	.20	.18
9.0	.36	.27	.21	.35	.26	.21	.32	.25	.20	.30	.24	.19	.28	.22	.18	.16
10.0	.33	.25	.19	.32	.24	.19	.30	.23	.18	.28	.22	.17	.26	.20	.16	.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	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	.430	.244	.077	.418	.238	.076	.395	.227	.072	.375	.216	.069	.356	.206	.066	
2.0	.361	.198	.061	.350	.193	.059	.330	.184	.057	.311	.175	.055	.294	.166	.052	
3.0	.315	.168	.050	.306	.164	.049	.287	.156	.047	.271	.148	.045	.255	.141	.044	
4.0	.281	.146	.043	.272	.142	.042	.255	.135	.040	.240	.129	.039	.226	.123	.037	
5.0	.253	.129	.037	.245	.126	.037	.230	.120	.035	.216	.114	.034	.203	.109	.033	
6.0	.230	.115	.033	.223	.113	.032	.210	.107	.031	.197	.102	.030	.185	.097	.029	
7.0	.211	.104	.030	.205	.102	.029	.192	.097	.028	.181	.093	.027	.170	.088	.026	
8.0	.195	.095	.027	.189	.093	.026	.178	.089	.025	.167	.085	.024	.157	.081	.024	
9.0	.181	.088	.024	.176	.086	.024	.165	.082	.023	.156	.078	.022	.146	.074	.021	
10.0	.169	.081	.023	.164	.079	.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	.305	.305	.305	.261	.261	.261	.178	.178	.178	.102	.102	.102	.033	.033	.033	
1.0	.304	.271	.241	.261	.233	.207	.178	.160	.143	.103	.093	.083	.033	.030	.027	
2.0	.298	.248	.206	.255	.214	.178	.175	.148	.124	.101	.086	.073	.032	.028	.024	
3.0	.291	.232	.185	.249	.200	.161	.171	.139	.113	.099	.081	.066	.032	.026	.022	
4.0	.282	.219	.171	.242	.190	.149	.167	.132	.105	.096	.077	.062	.031	.025	.020	
5.0	.274	.210	.162	.236	.181	.141	.162	.127	.100	.094	.074	.059	.030	.024	.019	
6.0	.266	.202	.155	.229	.175	.135	.158	.122	.096	.092	.072	.057	.030	.024	.019	
7.0	.259	.195	.150	.223	.169	.131	.154	.119	.093	.089	.070	.055	.029	.023	.018	
8.0	.252	.189	.147	.217	.164	.128	.150	.115	.091	.087	.068	.054	.028	.022	.018	
9.0	.245	.185	.144	.211	.160	.125	.146	.113	.089	.085	.067	.053	.028	.022	.018	
10.0	.239	.180	.141	.206	.157	.123	.143	.110	.088	.083	.065	.052	.027	.021	.017	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.:					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	25.7	27.2	26.2	27.7	28.4	31.5	33.0	32.1	33.6	34.2
3H	27.9	29.3	28.5	29.9	30.6	35.0	36.4	35.6	37.0	37.7
4H	28.7	30.0	29.3	30.6	31.4	36.8	38.1	37.4	38.7	39.4
6H	29.3	30.5	29.9	31.2	31.9	38.9	40.2	39.6	40.8	41.5
8H	29.5	30.7	30.1	31.3	32.0	40.0	41.2	40.6	41.8	42.6
12H	29.6	30.8	30.3	31.4	32.2	41.2	42.3	41.8	43.0	43.7
4H 2H	28.3	29.6	28.9	30.2	30.9	31.9	33.2	32.5	33.9	34.6
3H	30.6	31.8	31.2	32.4	33.1	35.9	37.0	36.5	37.7	38.4
4H	31.6	32.6	32.2	33.3	34.0	38.0	39.0	38.6	39.7	40.4
6H	32.4	33.4	33.1	34.0	34.8	40.4	41.3	41.0	42.0	42.8
8H	32.7	33.6	33.4	34.3	35.1	41.6	42.5	42.2	43.1	43.9
12H	33.0	33.8	33.6	34.5	35.3	42.9	43.8	43.6	44.5	45.2
8H 4H	34.0	34.9	34.7	35.6	36.4	38.4	39.3	39.0	40.0	40.7
6H	35.2	35.9	35.9	36.7	37.4	41.1	41.9	41.8	42.6	43.4
8H	35.6	36.4	36.3	37.1	37.9	42.6	43.3	43.2	44.0	44.8
12H	36.1	36.7	36.8	37.4	38.3	44.2	44.8	44.9	45.5	46.4
12H 4H	34.9	35.7	35.5	36.4	37.2	38.4	39.2	39.1	39.9	40.7
6H	36.4	37.1	37.1	37.8	38.6	41.2	41.9	41.9	42.6	43.5
8H	37.0	37.7	37.7	38.4	39.2	42.8	43.4	43.5	44.2	45.0
CIE190: 2010										

CIE190: 2010  
Area: 0.052725 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Alan Wang  
Test Date: 08 July 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 49.9%  
Test Distance: 2.500m [K=1.0462]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

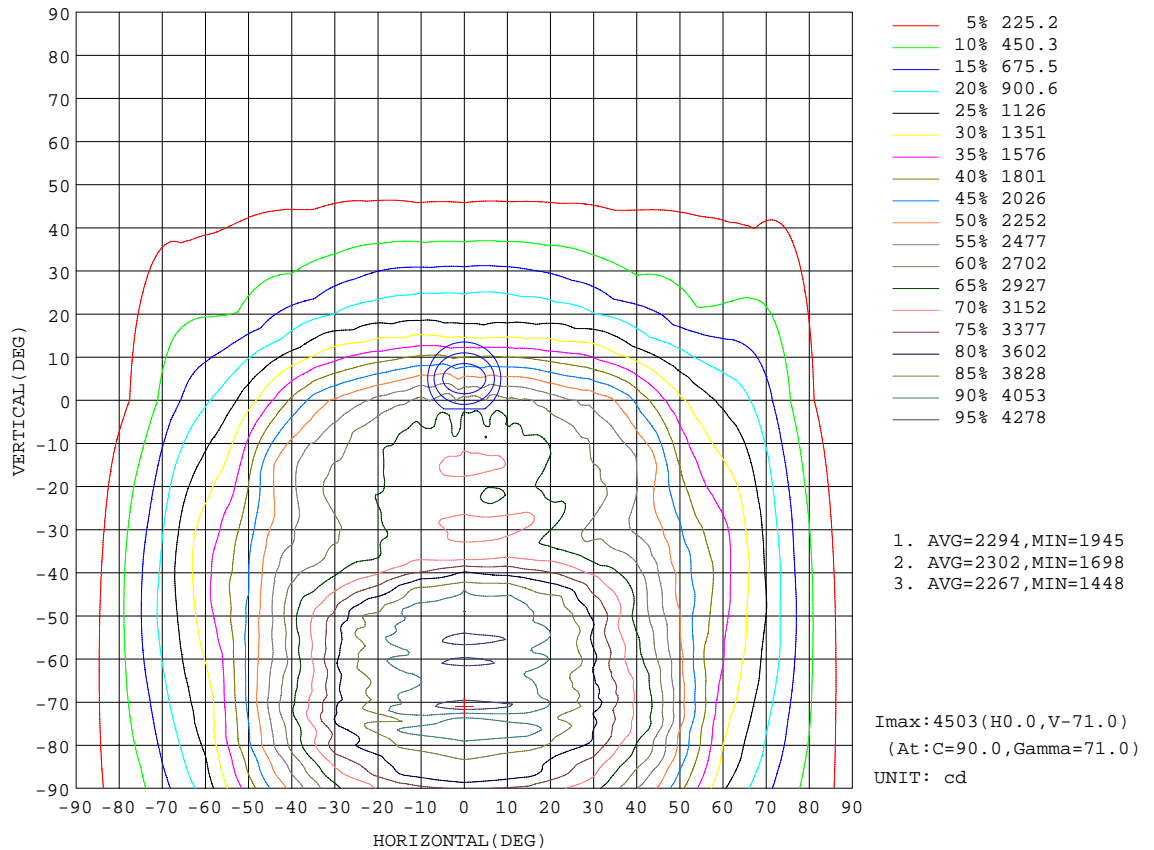
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	26	46	33	26	44	33	26	19
0.80	55	42	34	54	41	33	51	40	33	25
1.00	63	49	40	61	48	40	58	49	39	30
1.25	70	56	47	67	55	47	64	53	45	36
1.50	75	62	53	72	60	52	68	58	50	40
2.00	82	70	61	79	68	60	74	65	58	46
2.50	87	76	67	84	74	66	78	69	63	50
3.00	91	80	72	87	78	71	81	73	67	54
4.00	96	87	80	92	84	77	85	79	73	59
5.00	99	91	85	95	88	82	88	82	77	63
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: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



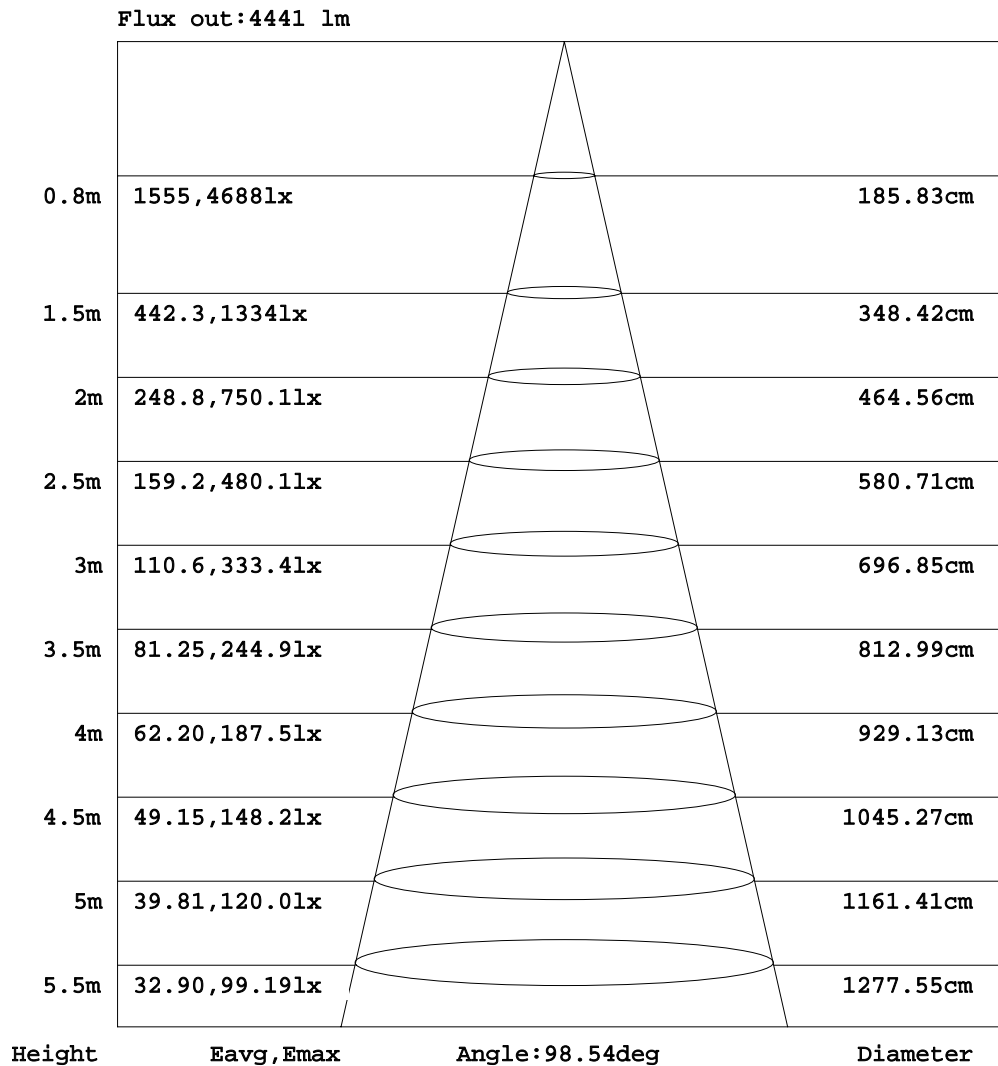
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:



AAI Figure

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



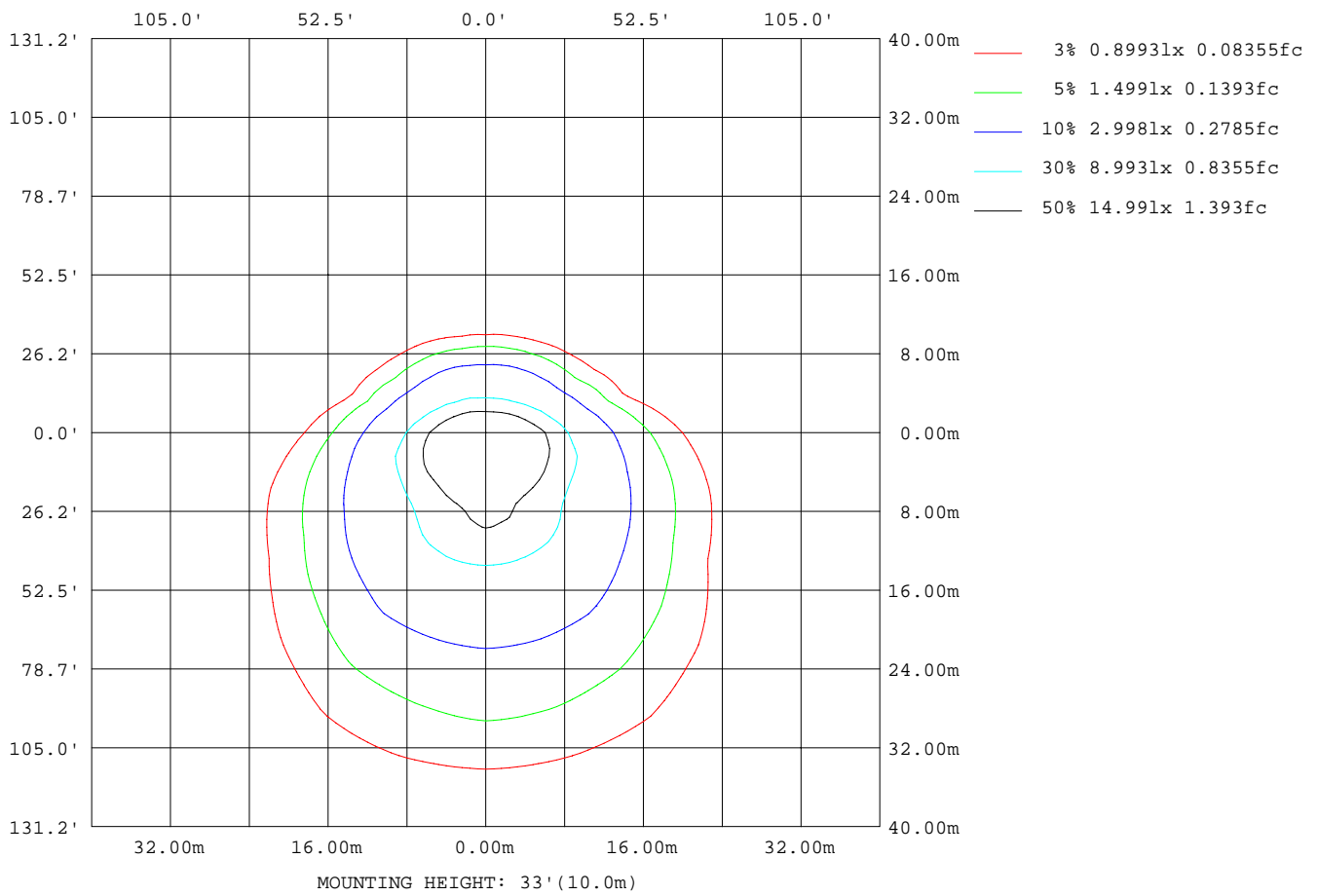
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators:Alan Wang  
 Test Date:08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance:2.500m [K=1.0462]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

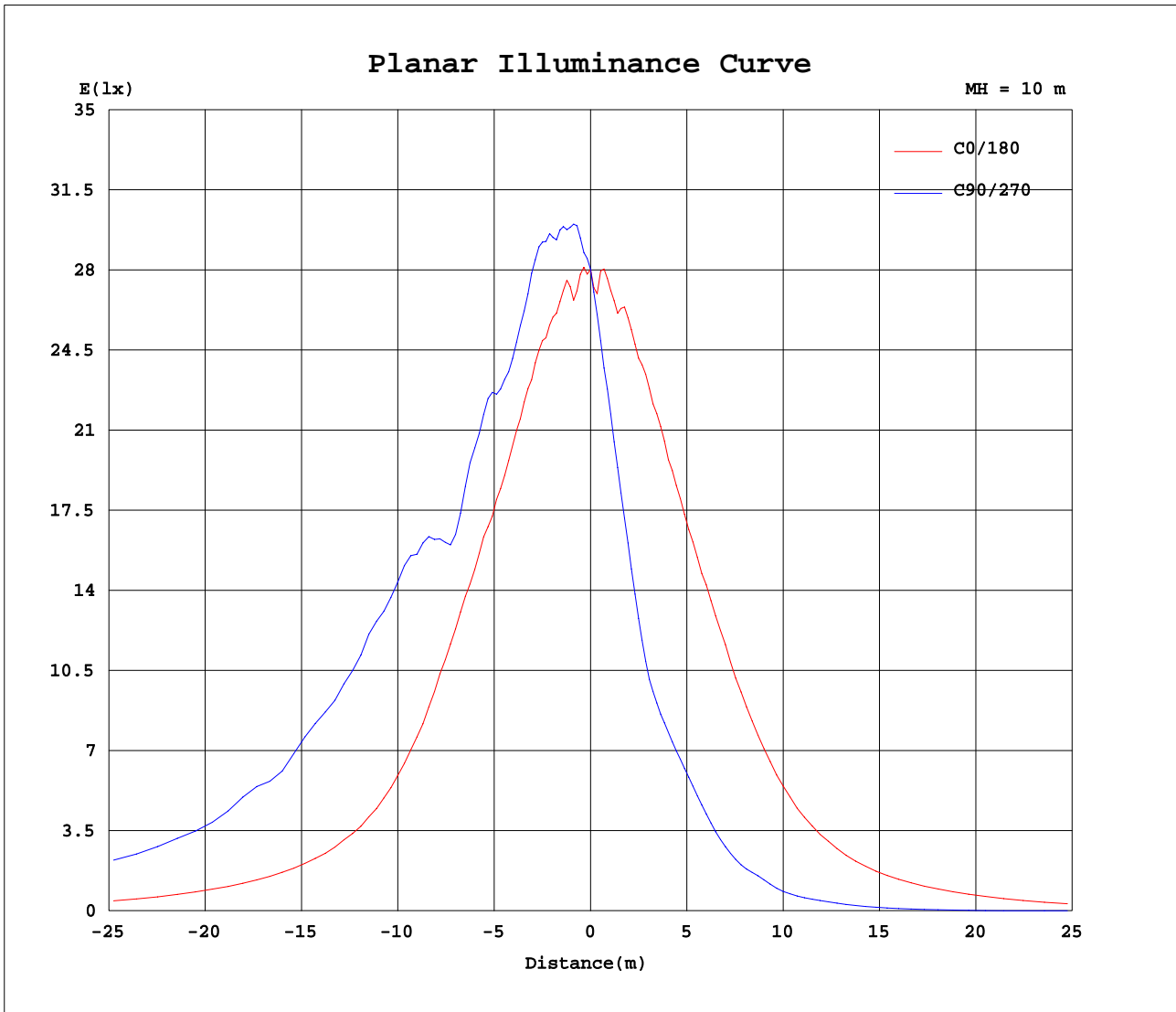
AvgL	cd/m2
L_0~180(65)av	37081
L_0~180(75)av	28550
L_0~180(85)av	27754
L_90~270(65)av	94292
L_90~270(75)av	154732
L_90~270(85)av	410477
L_45(65)av	67125
L_45(75)av	104052
L_45(85)av	268081

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	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	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803	2803
5	2699	2774	2879	2956	2991	2971	3035	2861	2854	2938	2902	2845	2794	2711	2621	2513	2366	2246	2306
10	2734	2908	2962	3008	2917	2997	3070	2953	3041	2946	2884	2854	2762	2552	2308	2117	2000	1797	1796
15	2717	2871	2944	3060	3168	3241	3220	3200	3054	3045	2952	2843	2648	2316	2018	1754	1532	1357	1311
20	2592	2805	2996	3071	3035	2970	3082	3079	3071	3009	2922	2784	2551	2099	1699	1354	1181	1066	1036
25	2479	2761	2908	2921	2976	2939	3064	3025	3013	2953	2866	2724	2418	1883	1410	1094	980	918	889
30	2405	2698	2779	2867	3191	3236	3212	3117	2985	2929	2799	2627	2270	1644	1136	932	823	739	713
35	2242	2621	2751	2903	2990	3031	2992	3076	2949	2791	2785	2527	2116	1393	936	752	650	539	510
40	1981	2515	2668	2704	3035	3453	3637	3299	2942	2716	2640	2457	1844	1115	720	573	462	384	374
45	1673	2382	2513	2784	3461	3977	4064	3932	3176	2738	2488	2307	1542	866	533	420	338	260	240
50	1392	1993	2419	3024	3846	4150	4209	4213	3587	2789	2382	1992	1257	646	417	306	229	178	169
55	1214	1758	2389	3146	3901	4243	4338	4157	3790	2959	2316	1640	1030	458	335	207	153	111	101
60	1083	1636	2285	2996	3850	4120	4345	4053	3762	3015	2115	1489	864	334	248	140	87.0	58.9	47.9
65	949	1574	2116	2987	3829	4065	4195	4002	3796	2812	1945	1392	703	274	174	92.6	42.8	13.0	6.70
70	745	1386	1900	2982	3784	4150	4347	4090	3668	2695	1737	1231	498	231	120	44.8	6.88	5.66	3.76
75	485	1185	1719	2960	3638	3997	4219	3822	3643	2671	1497	1025	294	186	81.0	23.5	7.44	6.74	4.39
80	258	970	1560	2858	3613	3951	4025	3863	3459	2522	1310	835	170	146	59.6	18.7	8.29	7.56	4.81
85	144	741	1367	2595	3272	3690	3768	3656	3211	2304	1182	594	111	116	45.4	15.4	8.80	7.88	4.88
90	105	527	1152	2223	3006	3341	3401	3310	2888	2033	996	405	93.5	99.1	35.8	12.2	8.59	7.73	4.85
95	88.0	305	843	1893	2560	3043	3161	2989	2431	1744	802	265	87.9	86.3	27.9	10.3	8.07	8.46	6.44
100	75.4	141	305	815	1378	2148	2292	2105	1514	954	221	103	65.4	50.7	13.5	9.59	9.83	11.1	9.51
105	59.5	108	432	349	521	854	934	882	598	282	307	101	44.4	38.5	19.4	10.8	10.3	10.9	10.5
110	97.5	85.6	306	513	769	910	894	865	665	406	257	94.3	83.3	37.2	17.5	12.4	12.7	11.6	11.2
115	75.0	64.6	224	485	879	1256	1285	1181	810	431	201	74.1	62.4	27.1	15.7	12.4	12.9	10.2	10.6
120	48.8	47.4	187	409	722	972	1020	926	721	379	165	59.7	44.9	20.4	13.2	11.8	12.2	9.90	9.96
125	32.7	39.6	178	334	547	743	782	720	553	338	157	49.5	32.8	16.7	12.4	10.6	10.9	9.27	9.36
130	14.0	18.2	151	258	403	553	586	537	407	252	139	36.8	15.8	7.75	10.9	9.06	8.11	8.34	8.48
135	8.93	21.3	151	194	268	378	399	362	273	186	134	15.2	14.8	13.2	8.47	8.47	6.24	5.52	5.26
140	7.33	18.9	104	159	176	243	258	230	181	159	98.6	16.6	11.6	10.5	6.15	7.24	6.21	6.22	6.36
145	4.72	10.3	58.6	135	130	151	154	144	131	124	52.7	11.6	8.11	7.13	5.94	5.75	5.70	5.89	5.82
150	5.16	5.39	13.8	91.2	104	109	105	105	101	89.3	24.7	5.90	5.08	4.03	5.18	5.20	5.71	5.43	4.78
155	5.57	5.81	9.47	43.4	70.7	85.6	84.4	80.9	72.7	43.3	7.42	4.22	4.00	4.36	4.58	5.07	5.24	5.74	5.78
160	5.84	5.96	5.88	9.01	33.5	53.6	56.7	51.5	36.2	10.3	5.26	4.70	4.38	4.56	4.25	4.84	5.15	5.67	6.53
165	5.82	5.98	5.82	5.67	6.28	10.7	14.8	14.0	8.30	5.61	5.10	4.86	4.75	4.86	4.97	4.51	4.48	5.20	6.24
170	4.50	5.00	5.09	4.76	4.61	5.01	6.05	6.13	5.84	5.31	5.15	5.17	5.25	5.26	5.33	5.50	5.30	5.58	5.64
175	3.80	3.87	3.93	4.03	4.42	5.53	6.38	6.61	6.76	6.78	6.60	6.39	6.60	6.56	6.53	6.29	5.73	5.68	5.55
180	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	6.44	6.44	6.44	6.44	6.44	6.44

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.6714A P:80.430W PF:0.9983 Freq:60.00Hz Lamp Flux:11680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2803	2803	2803	2803	2803														
5	2310	2360	2403	2506	2636														
10	1846	1929	2101	2286	2532														
15	1334	1485	1720	2023	2374														
20	1058	1144	1340	1708	2131														
25	928	970	1091	1405	1917														
30	749	813	928	1149	1708														
35	549	630	738	942	1434														
40	388	449	562	717	1159														
45	267	323	410	523	902														
50	176	221	300	411	702														
55	111	144	205	332	509														
60	58.3	80.1	140	256	371														
65	12.3	35.5	90.9	192	299														
70	3.88	5.92	44.7	139	252														
75	4.53	5.39	25.9	98.7	201														
80	4.96	5.31	18.7	68.6	159														
85	4.92	5.18	13.5	51.7	129														
90	4.59	4.14	8.22	38.0	107														
95	6.33	5.38	7.73	29.0	87.2														
100	9.79	7.54	7.76	8.45	39.7														
105	10.8	8.56	7.28	17.8	41.0														
110	11.0	8.93	8.32	14.4	31.6														
115	10.8	8.89	8.05	11.6	21.7														
120	10.1	8.73	7.66	8.72	14.8														
125	9.45	8.15	5.45	6.99	11.7														
130	8.34	5.29	5.69	5.79	7.67														
135	5.84	6.09	5.29	6.01	9.13														
140	6.63	5.96	5.27	4.81	6.70														
145	5.74	5.17	6.15	5.65	4.01														
150	4.07	5.30	5.97	6.16	5.12														
155	4.36	5.14	5.56	5.94	5.60														
160	4.21	4.94	4.34	4.99	6.25														
165	4.50	3.00	3.31	3.52	5.29														
170	4.20	2.52	2.54	3.17	3.80														
175	3.72	3.42	3.26	3.33	3.54														
180	6.44	6.44	6.44	6.44	6.44														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 08 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks: