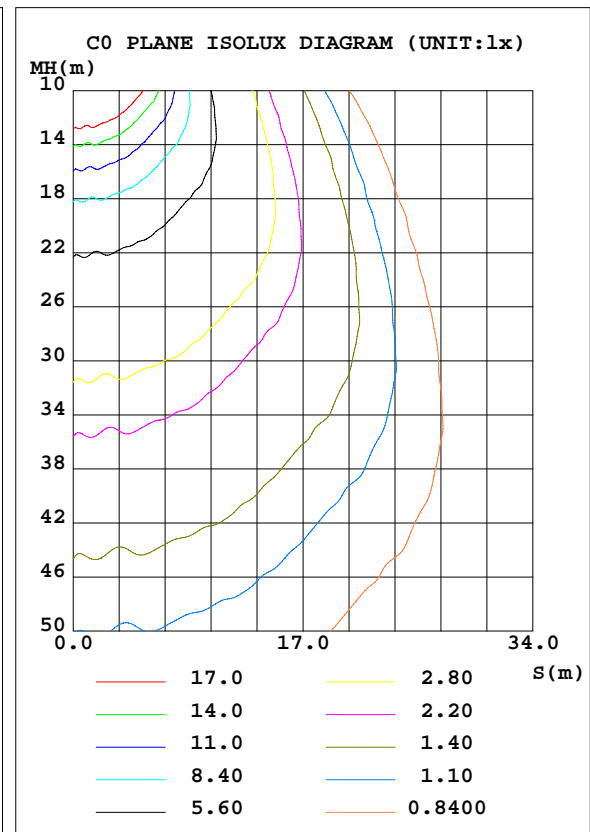
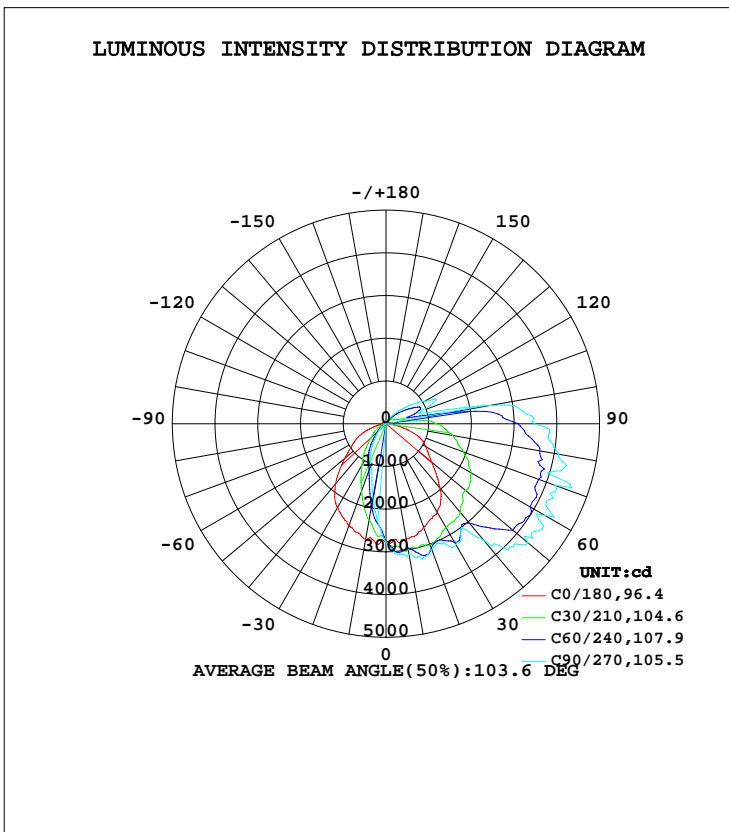


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-80DAC-EM_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.67 lm/W			
MODEL	ASD-WLP01-80DAC-EM	I <sub>max</sub> (cd)	4595	S/MH(C0/180)	1.22
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.45
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	11956	η UP, DN(C0-180)	15.0,72.4
NOMINAL FLUX(lm)	11956	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	0.4,12.1
LAMPS INSIDE	1	η up(%)	15.5	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	84.5	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 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	2733	3029	3109	2969	2760	2098	1771	2071	0- 10	252.3	252.3	2.11,2.11
20	2582	3111	3134	3031	2540	1333	1036	1319	10- 20	680.0	932.3	7.8,7.8
30	2394	2895	3266	2960	2262	928.0	701.8	920.1	20- 30	979.7	1912	16,16
40	1972	2744	3574	2751	1836	565.6	370.1	553.6	30- 40	1185	3097	25.9,25.9
50	1389	3038	4343	2805	1255	300.6	165.1	294.3	40- 50	1357	4454	37.3,37.3
60	1082	3037	4295	3047	863.8	137.9	44.12	137.1	50- 60	1481	5935	49.6,49.6
70	748.1	2999	4207	2716	501.3	42.06	3.873	41.84	60- 70	1488	7423	62.1,62.1
80	260.6	2913	4110	2558	172.1	18.58	4.896	18.42	70- 80	1433	8855	74.1,74.1
90	106.4	2282	3472	2082	94.67	12.25	4.890	7.946	80- 90	1253	10108	84.5,84.5
100	76.73	899.4	2468	1046	66.32	9.581	9.619	7.876	90-100	923.8	11032	92.3,92.3
110	98.49	518.6	874.8	404.8	84.88	12.66	11.32	8.460	100-110	327.2	11359	95,95
120	49.35	424.9	1043	392.8	45.92	11.93	9.962	7.735	110-120	280.0	11639	97.3,97.3
130	14.25	269.0	617.4	263.4	16.19	9.239	8.355	5.736	120-130	181.8	11821	98.9,98.9
140	7.707	162.1	273.8	162.6	11.74	7.148	6.329	5.352	130-140	86.17	11907	99.6,99.6
150	5.211	95.87	108.3	93.80	5.208	5.227	4.935	6.007	140-150	33.87	11941	99.9,99.9
160	5.926	11.72	60.46	13.62	4.424	4.833	6.683	4.367	150-160	12.07	11953	100,100
170	4.670	4.945	6.172	5.405	5.318	5.590	5.710	2.629	160-170	2.493	11955	100,100
180	9.103	9.103	9.103	9.103	6.590	6.590	6.590	6.590	170-180	0.4932	11956	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3752 lm

%lum = 31.4%

%lamp = 31.4%

Conical surface Flux(120deg): 5934.9 lm

%lum = 49.6%

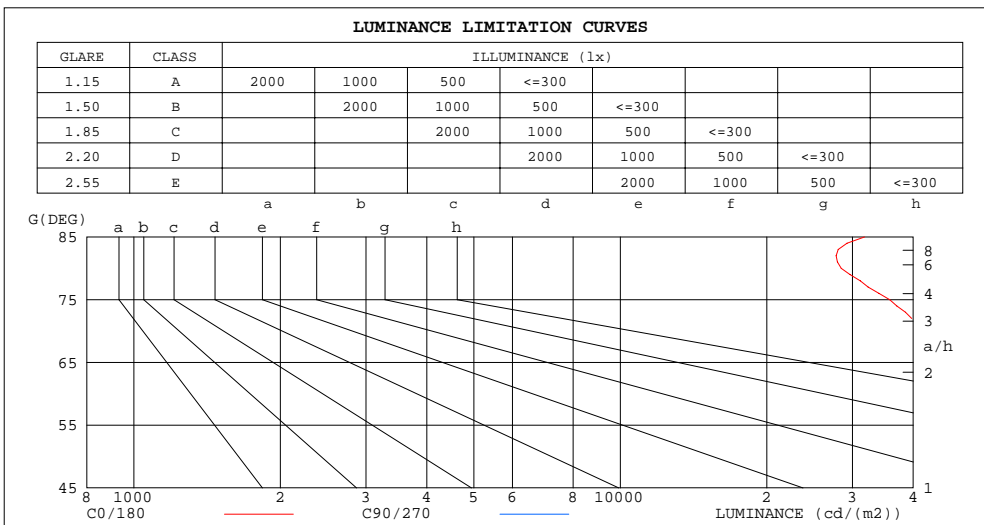
%lamp = 49.6%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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	31769	829409
80	28459	448886
75	35806	311652
70	41484	233269
65	42665	188783
60	41039	162940
55	40072	144772
50	40997	128158
45	44705	109471

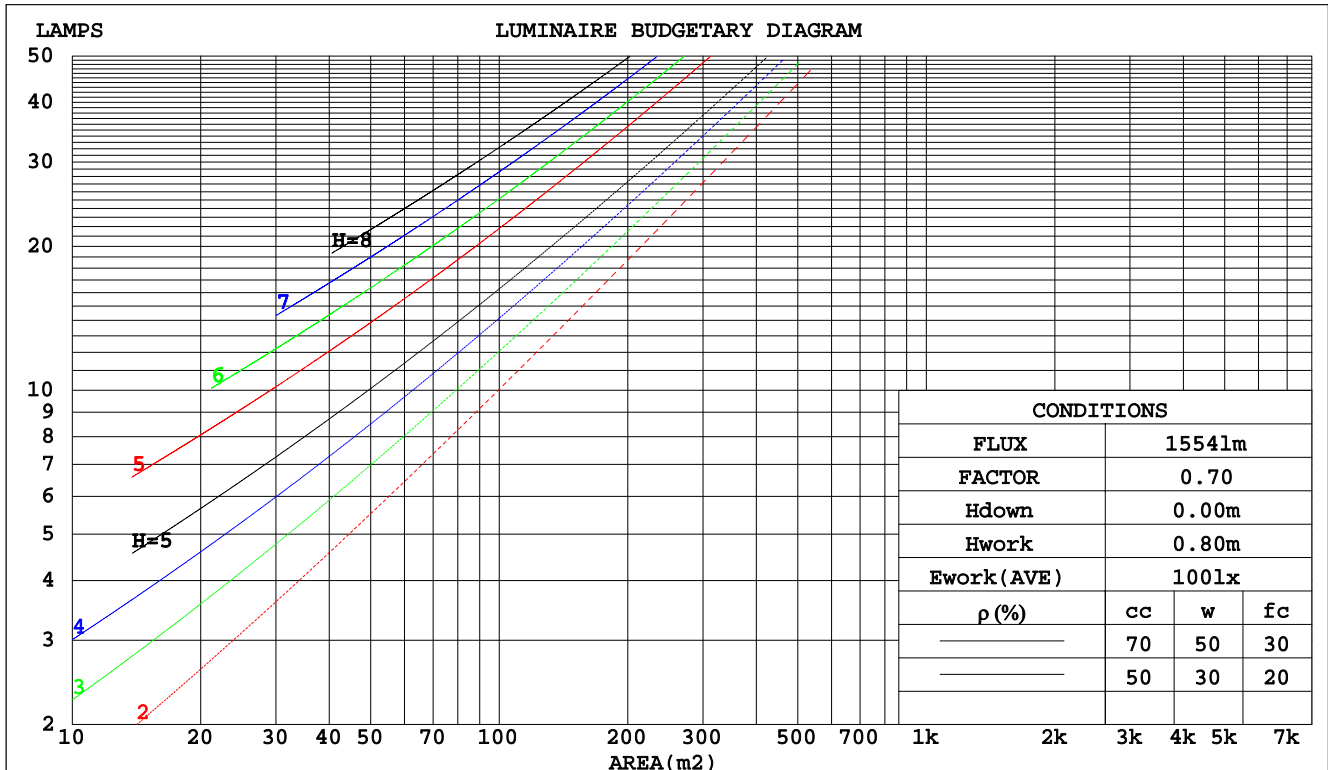
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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
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	1.03	1.03	1.03	.95	.95	.95	.88	.88	.88	.85
1.0	.94	.88	.82	.90	.85	.80	.83	.78	.74	.76	.72	.69	.70	.67	.64	.61
2.0	.79	.71	.64	.76	.68	.62	.70	.63	.58	.64	.59	.54	.59	.55	.51	.47
3.0	.68	.59	.51	.66	.57	.50	.60	.53	.47	.55	.49	.44	.51	.46	.41	.38
4.0	.60	.50	.42	.57	.48	.41	.53	.45	.39	.49	.42	.37	.45	.39	.35	.32
5.0	.53	.43	.36	.51	.42	.35	.47	.39	.33	.43	.37	.31	.40	.34	.29	.27
6.0	.47	.38	.31	.46	.37	.30	.42	.34	.29	.39	.32	.27	.36	.30	.26	.23
7.0	.43	.33	.27	.41	.32	.26	.38	.31	.25	.35	.29	.24	.33	.27	.23	.20
8.0	.39	.30	.24	.38	.29	.23	.35	.27	.22	.32	.26	.21	.30	.24	.20	.18
9.0	.36	.27	.21	.34	.26	.21	.32	.25	.20	.30	.24	.19	.28	.22	.18	.16
10.0	.33	.25	.19	.32	.24	.19	.30	.23	.18	.28	.21	.17	.26	.20	.16	.14



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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	.245	.078	.418	.239	.076	.396	.227	.072	.375	.216	.069	.356	.206	.066	
2.0	.362	.198	.061	.351	.193	.060	.330	.184	.057	.311	.175	.055	.294	.166	.052	
3.0	.316	.168	.050	.306	.164	.049	.287	.156	.047	.270	.148	.045	.254	.141	.044	
4.0	.281	.146	.043	.272	.142	.042	.255	.135	.040	.240	.129	.039	.225	.122	.037	
5.0	.253	.129	.037	.245	.126	.037	.230	.120	.035	.216	.114	.034	.203	.108	.033	
6.0	.230	.115	.033	.223	.113	.032	.209	.107	.031	.196	.102	.030	.184	.097	.029	
7.0	.211	.104	.030	.205	.102	.029	.192	.097	.028	.180	.093	.027	.169	.088	.026	
8.0	.195	.095	.027	.189	.093	.026	.178	.089	.025	.167	.085	.024	.157	.081	.023	
9.0	.181	.088	.024	.176	.086	.024	.165	.082	.023	.155	.078	.022	.146	.074	.021	
10.0	.169	.081	.023	.164	.079	.022	.154	.076	.021	.145	.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	.308	.308	.308	.263	.263	.263	.180	.180	.180	.103	.103	.103	.033	.033	.033	
1.0	.307	.274	.244	.263	.235	.210	.180	.162	.145	.104	.094	.084	.033	.030	.027	
2.0	.301	.251	.209	.258	.216	.181	.177	.150	.126	.102	.087	.074	.033	.028	.024	
3.0	.293	.235	.188	.252	.203	.163	.173	.141	.114	.100	.082	.067	.032	.027	.022	
4.0	.285	.222	.174	.245	.192	.151	.168	.134	.107	.097	.078	.063	.031	.026	.021	
5.0	.277	.213	.165	.238	.184	.143	.164	.129	.101	.095	.075	.060	.031	.025	.020	
6.0	.269	.205	.158	.232	.177	.138	.160	.124	.097	.093	.073	.058	.030	.024	.019	
7.0	.262	.198	.153	.225	.172	.134	.156	.120	.095	.090	.071	.056	.029	.023	.019	
8.0	.255	.192	.150	.219	.167	.130	.152	.117	.092	.088	.069	.055	.029	.023	.018	
9.0	.248	.188	.147	.214	.163	.128	.148	.114	.091	.086	.068	.054	.028	.022	.018	
10.0	.242	.183	.144	.209	.159	.126	.145	.112	.089	.084	.066	.053	.027	.022	.018	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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	26.3	27.7	28.4	31.6	33.0	32.1	33.6	34.3
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	30.7	31.4	36.9	38.2	37.5	38.8	39.5
6H	29.3	30.5	29.9	31.2	31.9	39.0	40.2	39.6	40.9	41.6
8H	29.5	30.7	30.1	31.3	32.1	40.1	41.3	40.7	41.9	42.6
12H	29.6	30.8	30.3	31.4	32.2	41.3	42.4	41.9	43.1	43.8
4H 2H	28.3	29.6	28.9	30.3	31.0	32.0	33.3	32.6	33.9	34.6
3H	30.6	31.8	31.3	32.4	33.2	35.9	37.1	36.5	37.7	38.4
4H	31.6	32.7	32.2	33.3	34.1	38.0	39.1	38.6	39.7	40.5
6H	32.4	33.4	33.1	34.1	34.8	40.4	41.4	41.1	42.0	42.8
8H	32.8	33.6	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	43.0	43.8	43.7	44.5	45.3
8H 4H	34.0	34.9	34.7	35.6	36.4	38.4	39.3	39.1	40.0	40.8
6H	35.2	36.0	35.9	36.7	37.5	41.1	41.9	41.8	42.6	43.4
8H	35.7	36.4	36.4	37.1	37.9	42.6	43.3	43.3	44.0	44.8
12H	36.1	36.7	36.8	37.4	38.3	44.3	44.9	45.0	45.6	46.5
12H 4H	34.9	35.7	35.6	36.4	37.2	38.4	39.3	39.1	40.0	40.8
6H	36.4	37.1	37.1	37.8	38.6	41.3	42.0	42.0	42.7	43.5
8H	37.1	37.7	37.8	38.4	39.3	42.9	43.5	43.6	44.2	45.1
CIE190: 2010										

CIE190: 2010  
Area: 0.052725 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 07 June 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 49.0%  
Test Distance: 2.500m [K=1.0462]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

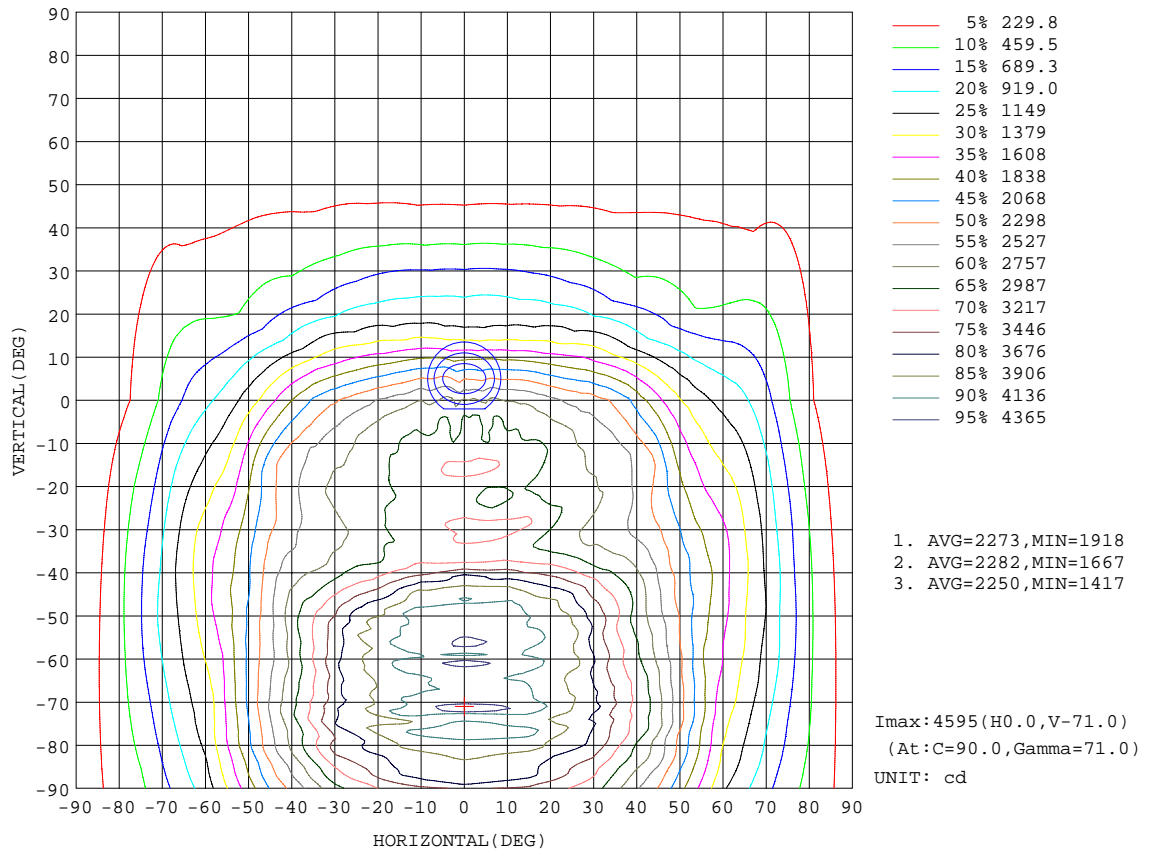
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	26	45	33	26	44	32	26	19
0.80	55	42	33	54	41	33	51	40	32	24
1.00	63	49	40	61	48	40	58	49	39	30
1.25	69	56	47	67	55	46	63	53	45	35
1.50	75	61	52	72	60	51	68	57	50	39
2.00	82	70	61	79	68	60	74	65	57	46
2.50	87	75	67	83	73	65	78	69	62	50
3.00	90	80	72	87	78	70	81	73	67	54
4.00	95	87	79	92	84	77	85	79	73	59
5.00	99	91	84	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: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



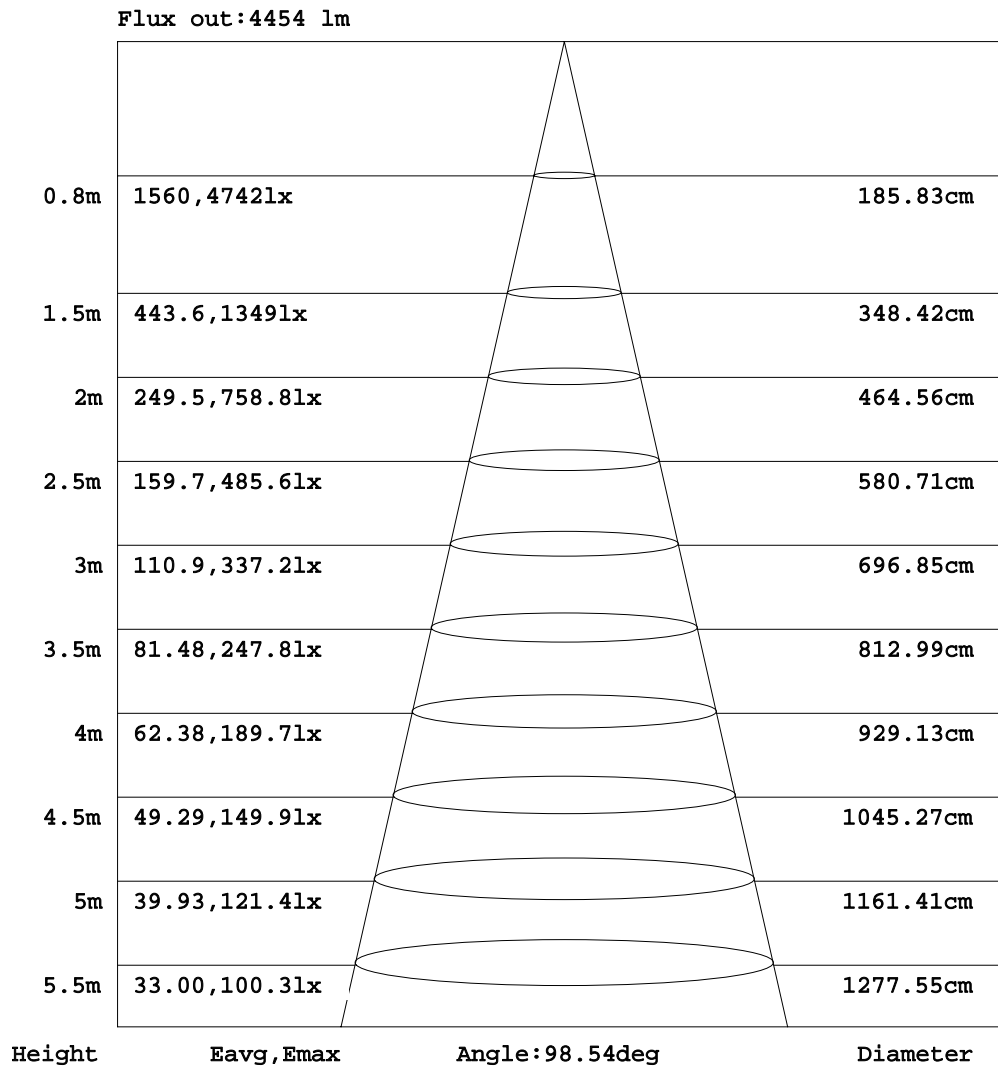
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:



AAI Figure

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



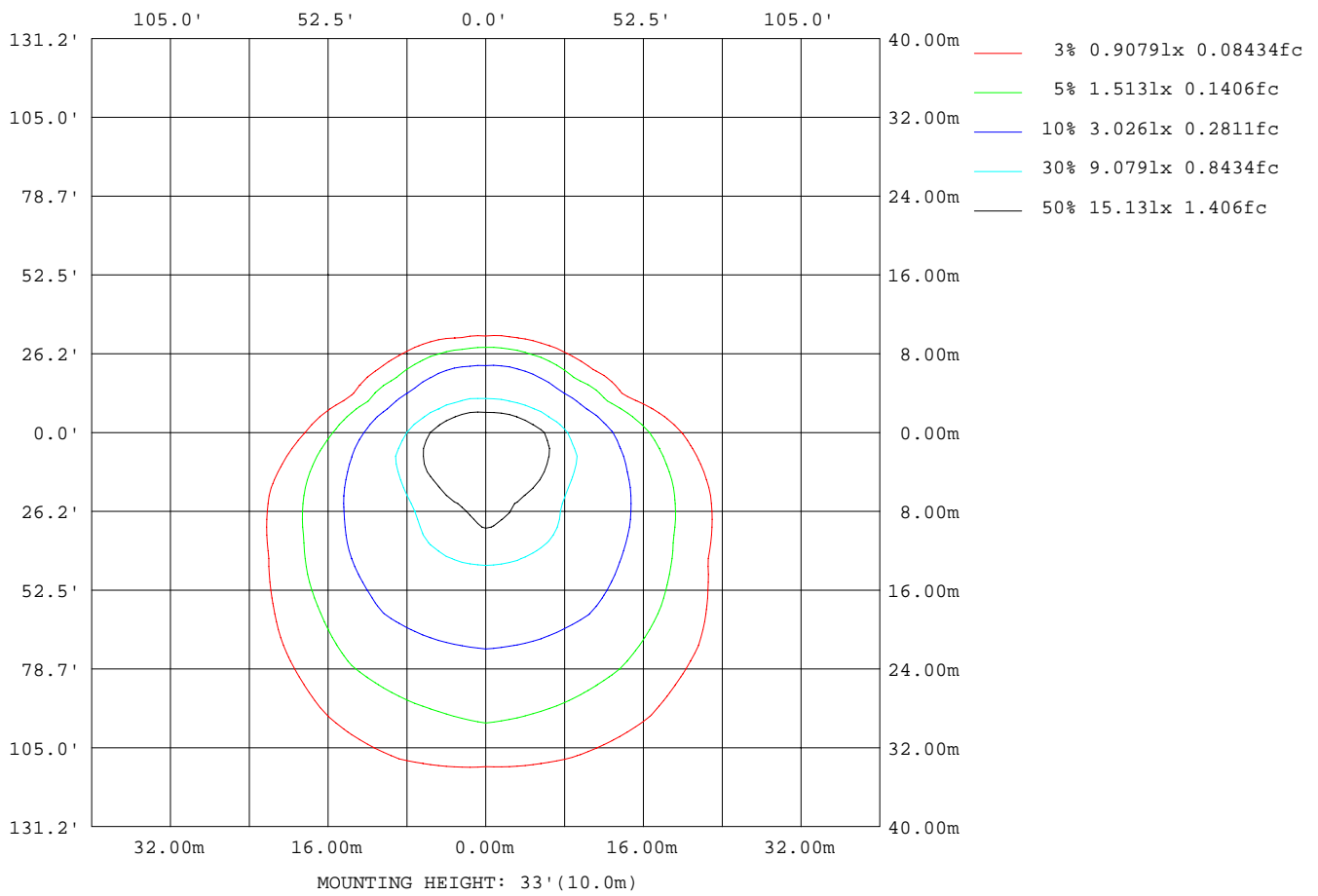
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

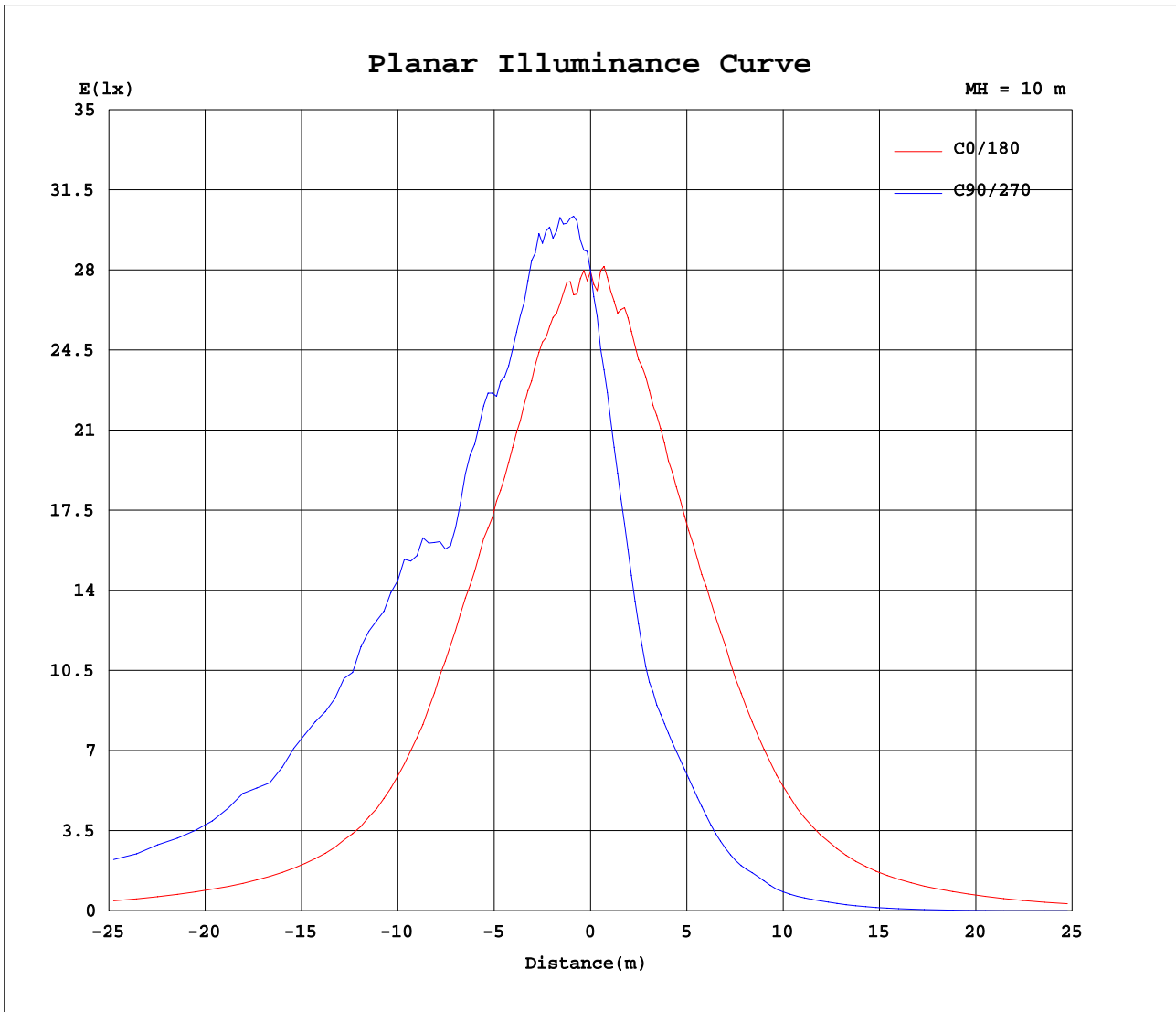
AvgL	cd/m2
L_0~180(65)av	37151
L_0~180(75)av	28771
L_0~180(85)av	28098
L_90~270(65)av	94472
L_90~270(75)av	155991
L_90~270(85)av	415244
L_45(65)av	67811
L_45(75)av	105082
L_45(85)av	274148

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 49.0%  
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: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794
5	2723	2783	2875	2988	3024	3005	3070	2896	2872	2932	2904	2865	2800	2704	2605	2484	2342	2232	2290
10	2733	2917	3001	3029	2958	3025	3109	2980	3075	2969	2911	2871	2760	2537	2296	2098	1963	1771	1771
15	2708	2891	2983	3082	3178	3279	3283	3227	3106	3062	2980	2859	2639	2301	1995	1725	1503	1330	1285
20	2582	2828	3019	3111	3099	3043	3134	3131	3102	3031	2948	2803	2540	2083	1675	1333	1165	1062	1036
25	2469	2779	2936	2964	2996	2948	3108	3055	3056	2990	2899	2739	2409	1866	1390	1089	977	913	885
30	2394	2717	2814	2895	3203	3281	3266	3163	3017	2960	2832	2644	2262	1628	1128	928	816	728	702
35	2230	2641	2782	2944	3051	3100	3045	3144	3000	2831	2816	2544	2107	1381	928	745	639	527	498
40	1972	2529	2706	2744	3038	3421	3574	3313	2977	2751	2677	2466	1836	1107	713	566	453	379	370
45	1667	2395	2554	2805	3452	3975	4081	3907	3187	2764	2522	2317	1538	859	529	415	330	249	233
50	1389	2011	2437	3038	3878	4197	4343	4215	3581	2805	2406	2007	1255	642	414	301	225	173	165
55	1212	1772	2405	3171	3953	4266	4378	4211	3862	2970	2342	1653	1029	456	333	202	148	107	95.8
60	1082	1647	2307	3037	3899	4144	4295	4073	3814	3047	2141	1499	864	334	245	138	83.4	54.8	44.1
65	951	1586	2138	3023	3902	4098	4207	4069	3843	2843	1973	1401	705	274	172	89.5	39.0	9.59	3.58
70	748	1401	1926	2999	3805	4190	4207	4163	3710	2716	1771	1243	501	232	119	42.1	6.86	5.83	3.87
75	489	1199	1737	2992	3724	4002	4253	3804	3690	2695	1524	1037	297	186	79.7	23.3	7.60	6.92	4.50
80	261	982	1587	2913	3656	4005	4110	3923	3473	2558	1332	848	172	147	59.3	18.6	8.46	7.71	4.90
85	146	755	1393	2648	3349	3740	3811	3723	3291	2363	1205	605	112	116	45.4	15.3	8.91	7.99	4.96
90	106	539	1181	2282	3094	3412	3472	3363	2925	2082	1018	415	94.7	100	35.8	12.3	8.70	7.78	4.89
95	89.7	319	900	1961	2634	3091	3227	3053	2484	1787	830	274	89.0	87.1	28.0	10.4	8.32	9.06	7.14
100	76.7	143	294	899	1508	2325	2468	2285	1636	1046	234	104	66.3	50.2	13.2	9.58	9.98	11.3	9.62
105	60.6	113	443	330	562	919	974	958	665	293	310	104	45.1	40.2	20.0	11.2	10.6	11.1	10.7
110	98.5	89.6	317	519	765	890	875	844	647	405	267	97.8	84.9	37.8	17.8	12.7	12.9	11.6	11.3
115	75.7	68.5	233	500	895	1270	1292	1182	820	443	208	77.3	63.7	27.7	16.0	12.6	13.1	10.2	10.6
120	49.4	50.7	194	425	749	1002	1043	959	750	393	171	62.5	45.9	21.0	13.3	11.9	12.3	9.98	9.96
125	33.2	43.4	185	346	571	780	817	755	576	351	163	52.8	33.6	17.1	12.6	10.4	10.9	9.32	9.40
130	14.3	22.3	156	269	422	580	617	563	426	263	143	40.5	16.2	7.85	10.8	9.24	7.72	8.11	8.36
135	9.30	25.6	156	203	284	397	419	382	288	194	140	19.7	15.0	13.4	8.60	8.46	6.46	5.88	5.47
140	7.71	22.8	109	162	186	258	274	245	190	163	103	20.0	11.7	10.6	6.22	7.15	6.32	6.26	6.33
145	4.93	12.8	64.7	140	134	159	163	153	135	130	58.6	13.7	8.26	7.15	6.08	5.85	5.70	5.82	5.75
150	5.21	5.58	18.6	95.9	108	113	108	109	105	93.8	29.5	7.01	5.21	4.06	5.14	5.23	5.80	5.70	4.93
155	5.65	5.92	11.6	48.5	75.3	89.6	87.7	84.3	76.5	48.2	9.86	4.29	4.02	4.39	4.57	5.10	5.26	5.74	5.84
160	5.93	6.01	6.11	11.7	38.5	57.7	60.5	55.8	40.1	13.6	5.71	4.77	4.42	4.61	4.39	4.83	5.15	5.70	6.68
165	5.92	6.04	5.87	5.80	7.06	14.0	22.8	17.0	10.7	6.12	5.18	4.95	4.80	4.91	5.04	4.69	4.51	5.19	6.25
170	4.67	5.19	5.25	4.95	4.79	5.31	6.17	6.17	5.87	5.41	5.20	5.21	5.32	5.34	5.41	5.59	5.49	5.70	5.71
175	3.88	3.94	4.03	4.10	4.56	5.53	6.42	6.62	6.78	6.79	6.66	6.47	6.71	6.68	6.70	6.54	5.99	5.92	5.81
180	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	9.10	6.59	6.59	6.59	6.59	6.59	6.59

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.6587A P:78.830W PF:0.9973 Freq:60.00Hz Lamp Flux:11956x1 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	2794	2794	2794	2794	2794														
5	2296	2340	2386	2486	2625														
10	1817	1913	2071	2269	2514														
15	1309	1454	1689	1998	2355														
20	1057	1136	1319	1681	2114														
25	923	965	1084	1385	1899														
30	740	806	920	1142	1689														
35	536	618	730	934	1421														
40	382	442	554	709	1148														
45	257	315	404	519	895														
50	172	216	294	409	697														
55	107	139	200	329	506														
60	54.3	76.4	137	254	371														
65	8.78	31.6	87.9	191	300														
70	4.00	5.85	41.8	138	252														
75	4.63	5.42	25.6	97.4	201														
80	5.04	5.39	18.4	68.1	159														
85	4.96	5.19	13.2	51.6	130														
90	4.59	3.99	7.95	37.8	108														
95	6.97	5.73	7.83	29.0	87.7														
100	10.0	7.78	7.88	9.25	38.4														
105	11.0	8.69	7.50	18.1	41.6														
110	11.2	9.07	8.46	14.6	32.5														
115	10.9	8.97	8.15	11.7	22.5														
120	10.1	8.79	7.73	8.83	15.5														
125	9.50	8.16	5.34	7.08	12.2														
130	8.05	5.16	5.74	5.91	8.22														
135	6.18	6.16	5.36	6.19	9.18														
140	6.70	6.08	5.35	4.81	6.73														
145	5.52	5.15	6.23	5.73	4.07														
150	4.24	5.41	6.01	6.19	5.20														
155	4.41	5.10	5.59	6.00	5.68														
160	4.40	5.07	4.37	5.13	6.31														
165	4.47	2.98	3.31	3.70	5.37														
170	4.11	2.50	2.63	3.28	3.96														
175	3.85	3.66	3.49	3.49	3.68														
180	6.59	6.59	6.59	6.59	6.59														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 49.0%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks: