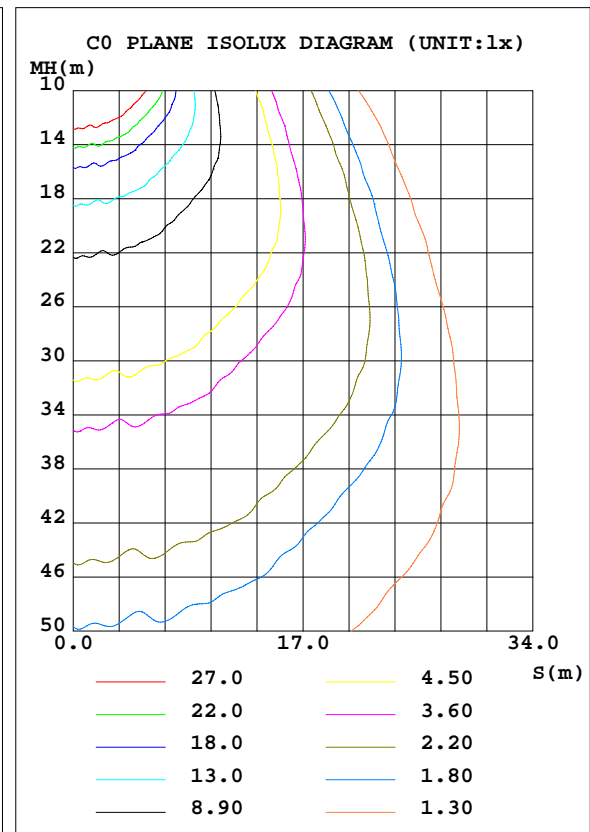
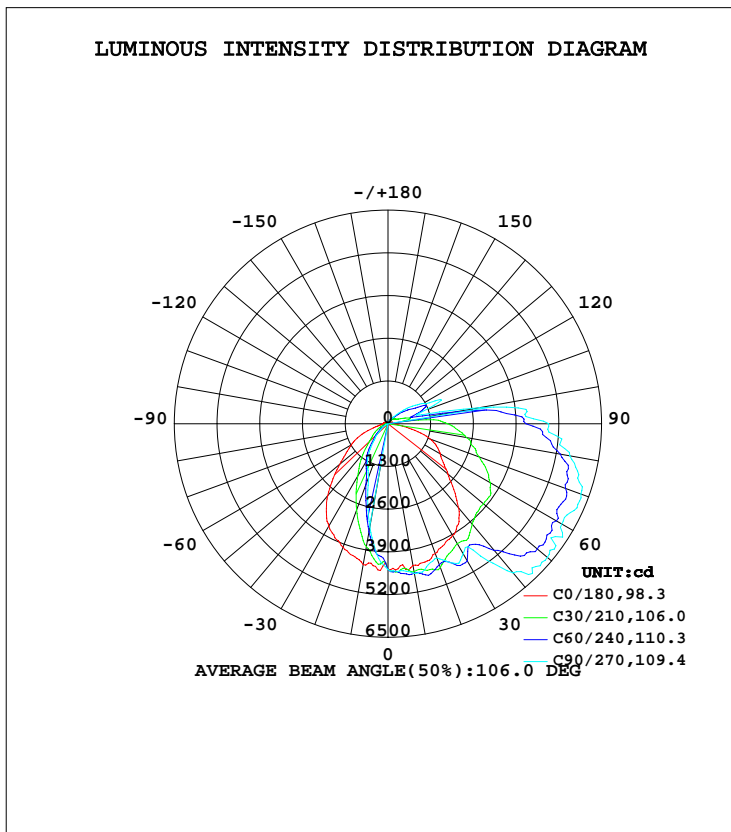


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01-120DAC_4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.41 lm/W			
MODEL	ASD-WLP01-120DAC	I <sub>max</sub> (cd)	6434	S/MH(C0/180)	1.21
NOMINAL POWER(W)	120	LOR(%)	100.0	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	17703	η UP, DN(C0-180)	12.9,72.7
NOMINAL FLUX(lm)	17703	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	0.4,14.0
LAMPS INSIDE	1	η up(%)	13.3	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	86.7	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 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	4376	4558	4625	4542	4354	3481	3192	3673	0- 10	403.8	403.8	2.28,2.28
20	4203	4570	4347	4533	3996	2282	1734	2458	10- 20	1081	1485	8.39,8.39
30	3928	4568	4575	4319	3601	1481	1244	1582	20- 30	1536	3021	17.1,17.1
40	3343	4155	5930	4083	2849	938.0	661.1	1016	30- 40	1862	4883	27.6,27.6
50	2381	4803	6326	4266	1917	507.7	304.8	558.3	40- 50	2142	7025	39.7,39.7
60	1836	4752	6111	4231	1293	237.6	120.5	288.3	50- 60	2250	9275	52.4,52.4
70	1383	4708	6249	3810	717.9	90.99	5.058	117.4	60- 70	2228	11504	65,65
80	513.9	4365	5618	3520	252.2	33.95	6.725	40.51	70- 80	2091	13595	76.8,76.8
90	164.1	3320	4893	2707	141.3	21.14	7.076	17.94	80- 90	1748	15342	86.7,86.7
100	118.4	1152	2817	1081	96.02	14.32	14.19	12.26	90-100	1222	16565	93.6,93.6
110	144.4	745.8	1183	557.4	120.4	15.89	16.15	12.56	100-110	396.9	16962	95.8,95.8
120	76.36	587.9	1245	453.7	63.56	15.82	16.00	11.93	110-120	365.4	17327	97.9,97.9
130	26.13	354.0	696.1	290.8	21.66	12.72	14.51	9.014	120-130	218.3	17545	99.1,99.1
140	8.346	231.3	275.9	216.1	13.52	8.503	11.40	6.921	130-140	100.3	17645	99.7,99.7
150	5.046	112.9	141.4	81.78	6.850	9.431	5.861	9.658	140-150	39.66	17685	99.9,99.9
160	9.482	12.88	55.70	11.95	8.497	9.476	7.953	9.338	150-160	13.89	17699	100,100
170	10.19	10.39	9.123	11.12	11.46	10.59	5.384	4.219	160-170	3.188	17702	100,100
180	5.832	5.832	5.832	5.832	6.098	6.098	6.098	6.098	170-180	0.8024	17703	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5929.2 lm

%lum = 33.5%

%lamp = 33.5%

Conical surface Flux(120deg): 9275.1 lm

%lum = 52.4%

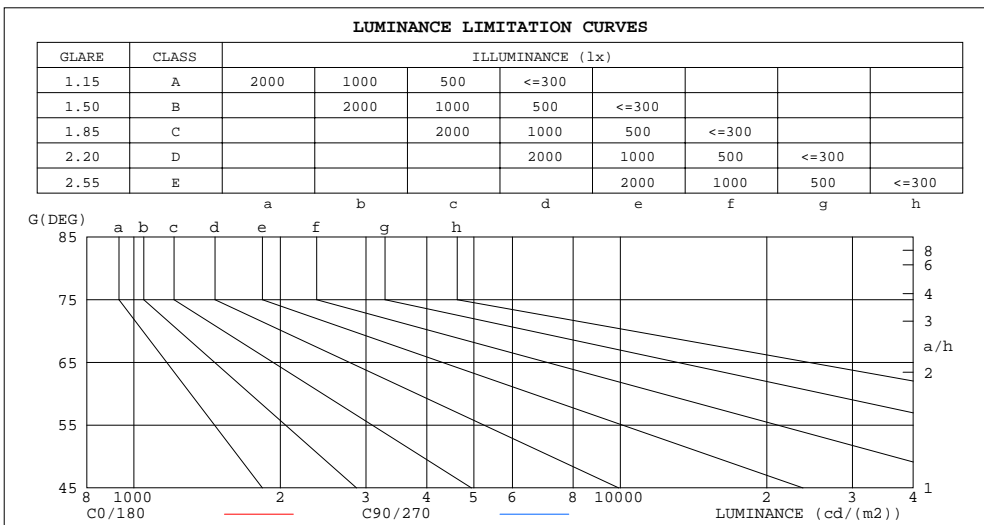
%lamp = 52.4%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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	56476	1155174
80	56131	613585
75	69087	440380
70	76694	346509
65	73529	280314
60	69625	231808
55	67996	200246
50	70257	186661
45	75926	166269

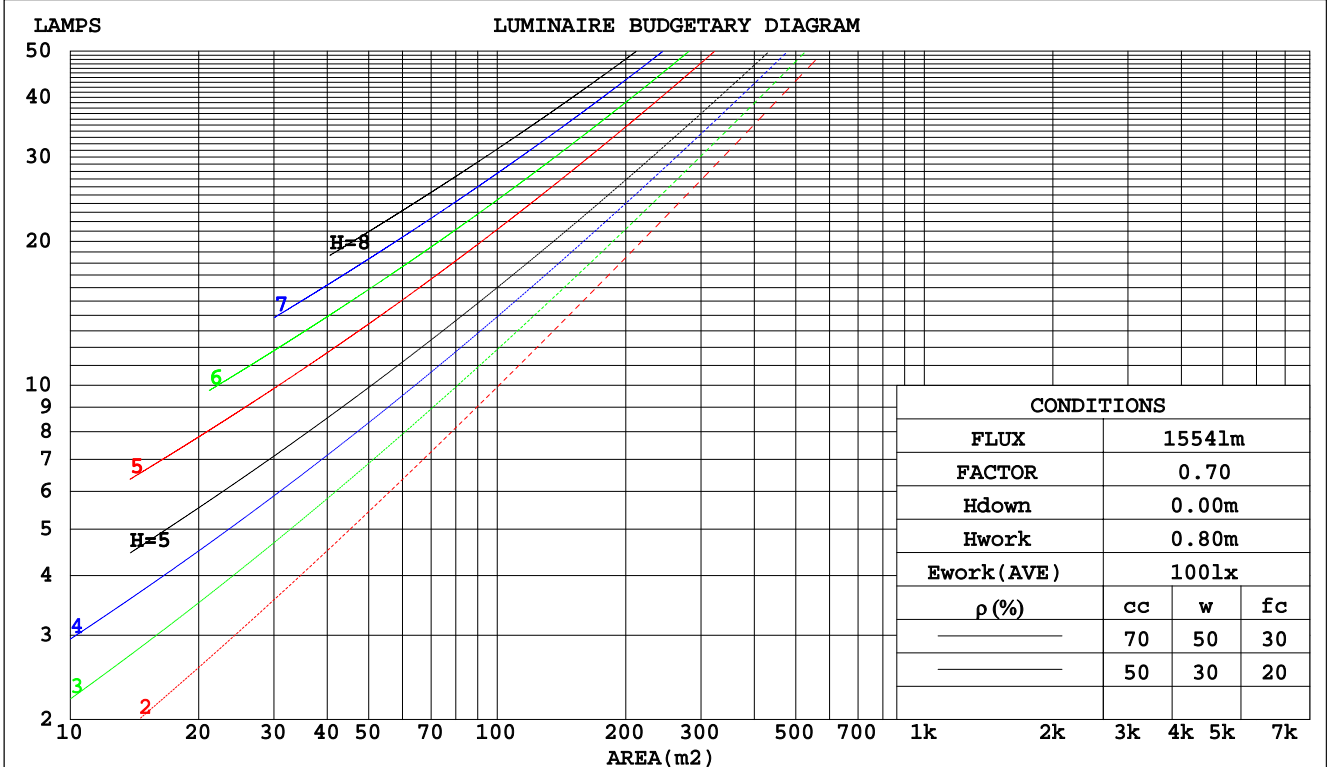
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.96	.96	.96	.90	.90	.90	.87
1.0	.95	.89	.84	.91	.86	.81	.84	.80	.76	.78	.74	.71	.72	.69	.67	.63
2.0	.80	.72	.65	.77	.70	.63	.71	.65	.59	.66	.61	.56	.61	.57	.53	.50
3.0	.69	.60	.52	.67	.58	.51	.62	.54	.48	.57	.51	.46	.53	.48	.43	.40
4.0	.61	.51	.43	.58	.49	.42	.54	.46	.40	.50	.44	.38	.46	.41	.36	.33
5.0	.54	.44	.37	.52	.43	.36	.48	.40	.34	.45	.38	.33	.42	.36	.31	.28
6.0	.48	.39	.32	.47	.38	.31	.43	.35	.30	.40	.33	.28	.37	.32	.27	.24
7.0	.44	.34	.28	.42	.33	.27	.39	.32	.26	.37	.30	.25	.34	.28	.24	.21
8.0	.40	.31	.24	.38	.30	.24	.36	.28	.23	.34	.27	.22	.31	.26	.21	.19
9.0	.36	.28	.22	.35	.27	.21	.33	.26	.21	.31	.24	.20	.29	.23	.19	.17
10.0	.33	.25	.20	.32	.25	.19	.30	.23	.19	.29	.22	.18	.27	.21	.17	.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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	.423	.240	.076	.411	.235	.075	.390	.224	.071	.370	.214	.069	.352	.204	.066	
2.0	.357	.196	.060	.347	.191	.059	.328	.182	.057	.310	.174	.054	.294	.166	.052	
3.0	.313	.167	.050	.304	.163	.049	.287	.155	.047	.270	.148	.045	.255	.141	.044	
4.0	.279	.145	.043	.271	.142	.042	.255	.135	.040	.241	.129	.039	.227	.123	.038	
5.0	.252	.128	.037	.244	.125	.037	.230	.120	.035	.217	.114	.034	.205	.109	.033	
6.0	.230	.115	.033	.223	.113	.032	.210	.108	.031	.198	.103	.030	.187	.098	.029	
7.0	.211	.104	.030	.205	.102	.029	.193	.098	.028	.182	.093	.027	.172	.089	.026	
8.0	.195	.095	.027	.189	.093	.026	.179	.089	.025	.168	.085	.025	.159	.082	.024	
9.0	.181	.088	.024	.176	.086	.024	.166	.082	.023	.157	.079	.023	.148	.075	.022	
10.0	.169	.081	.023	.164	.079	.022	.155	.076	.021	.147	.073	.021	.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	.292	.292	.292	.250	.250	.250	.170	.170	.170	.098	.098	.098	.031	.031	.031	
1.0	.291	.258	.228	.249	.221	.196	.170	.152	.136	.098	.088	.079	.031	.028	.026	
2.0	.284	.235	.193	.243	.202	.167	.167	.140	.116	.096	.081	.068	.031	.026	.022	
3.0	.276	.218	.172	.237	.188	.149	.163	.131	.105	.094	.076	.062	.030	.025	.020	
4.0	.268	.206	.158	.230	.178	.137	.158	.124	.097	.092	.073	.057	.029	.024	.019	
5.0	.260	.196	.148	.224	.170	.129	.154	.118	.091	.089	.070	.054	.029	.023	.018	
6.0	.252	.188	.142	.217	.163	.123	.150	.114	.087	.087	.067	.052	.028	.022	.017	
7.0	.245	.181	.137	.211	.157	.119	.146	.110	.084	.085	.065	.050	.027	.021	.017	
8.0	.238	.176	.133	.205	.152	.116	.142	.107	.082	.082	.063	.049	.027	.021	.016	
9.0	.231	.171	.130	.199	.148	.113	.138	.104	.080	.080	.062	.048	.026	.020	.016	
10.0	.225	.167	.127	.194	.145	.111	.135	.102	.079	.079	.060	.047	.025	.020	.016	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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	27.6	29.1	28.2	29.7	30.3	32.7	34.2	33.2	34.8	35.4
3H	29.8	31.2	30.4	31.8	32.4	36.4	37.8	37.0	38.4	39.0
4H	30.7	32.0	31.2	32.6	33.2	38.3	39.6	38.8	40.2	40.9
6H	31.3	32.5	31.9	33.1	33.8	40.2	41.4	40.8	42.0	42.7
8H	31.5	32.7	32.1	33.3	34.0	41.2	42.4	41.8	43.0	43.7
12H	31.6	32.8	32.3	33.4	34.1	42.3	43.5	42.9	44.1	44.8
4H 2H	30.2	31.6	30.8	32.2	32.8	33.1	34.4	33.7	35.0	35.7
3H	32.4	33.6	33.0	34.2	34.9	37.2	38.4	37.8	39.0	39.7
4H	33.4	34.5	34.0	35.1	35.8	39.4	40.5	40.0	41.1	41.8
6H	34.3	35.2	34.9	35.9	36.6	41.6	42.6	42.2	43.2	43.9
8H	34.6	35.5	35.2	36.1	36.9	42.7	43.6	43.4	44.3	45.0
12H	34.8	35.7	35.5	36.3	37.1	44.0	44.9	44.7	45.5	46.3
8H 4H	35.8	36.7	36.4	37.3	38.1	39.7	40.6	40.4	41.3	42.0
6H	36.9	37.7	37.6	38.4	39.2	42.3	43.1	42.9	43.8	44.5
8H	37.4	38.1	38.1	38.8	39.6	43.7	44.4	44.3	45.1	45.8
12H	37.9	38.5	38.5	39.2	40.0	45.2	45.9	45.9	46.6	47.4
12H 4H	36.5	37.4	37.2	38.1	38.8	39.8	40.6	40.4	41.3	42.0
6H	38.1	38.8	38.8	39.5	40.3	42.4	43.1	43.1	43.8	44.6
8H	38.8	39.4	39.4	40.1	40.9	43.9	44.5	44.6	45.2	46.0
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: 07 June 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 48.9%  
Test Distance: 2.500m [K=1.0462]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

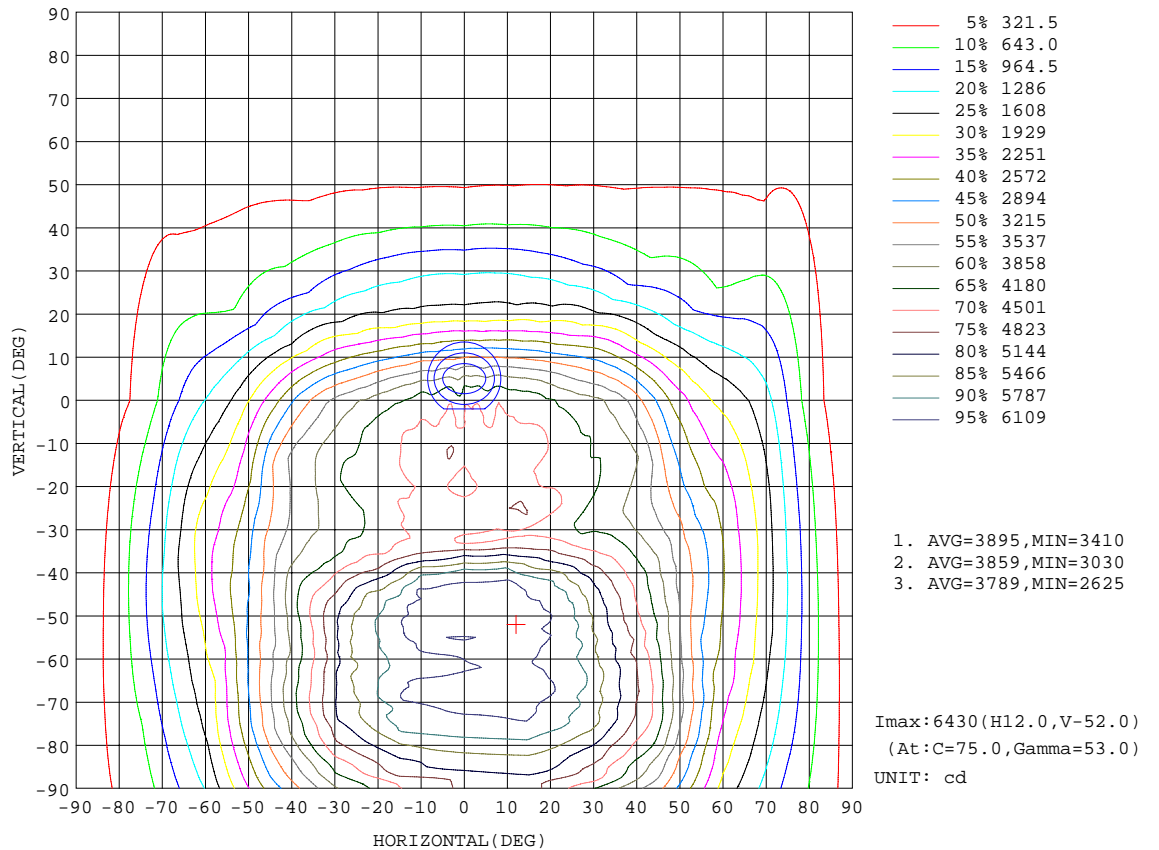
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	35	27	47	34	27	45	34	27	20
0.80	56	43	35	55	42	34	53	41	34	26
1.00	64	51	42	62	50	41	59	51	40	32
1.25	71	58	49	69	56	48	65	54	47	37
1.50	76	63	54	73	62	53	69	59	52	42
2.00	83	71	63	80	70	61	75	66	59	48
2.50	88	77	68	85	75	67	79	71	64	52
3.00	92	82	74	88	79	72	82	75	69	56
4.00	97	88	81	93	85	79	87	80	75	62
5.00	100	92	86	96	89	83	89	84	79	65
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: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



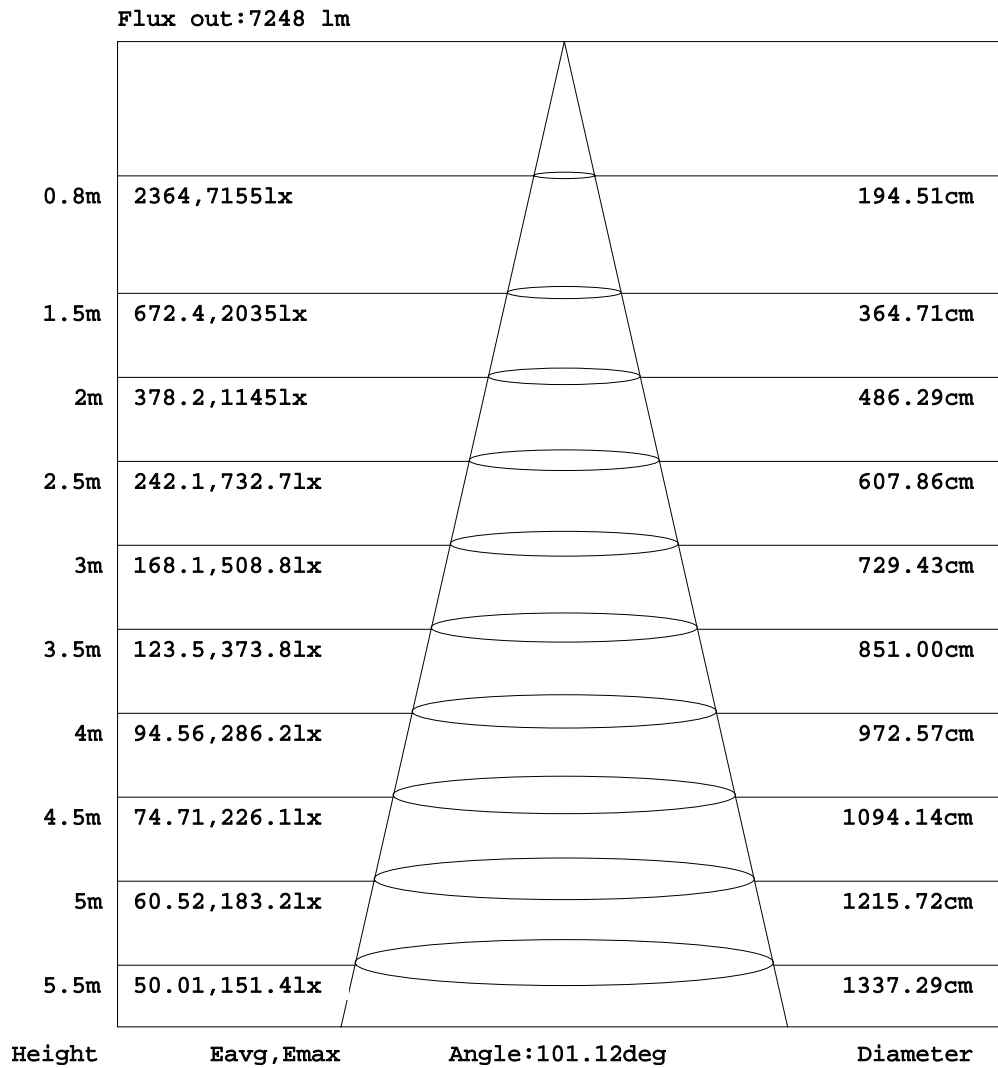
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:



AAI Figure

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



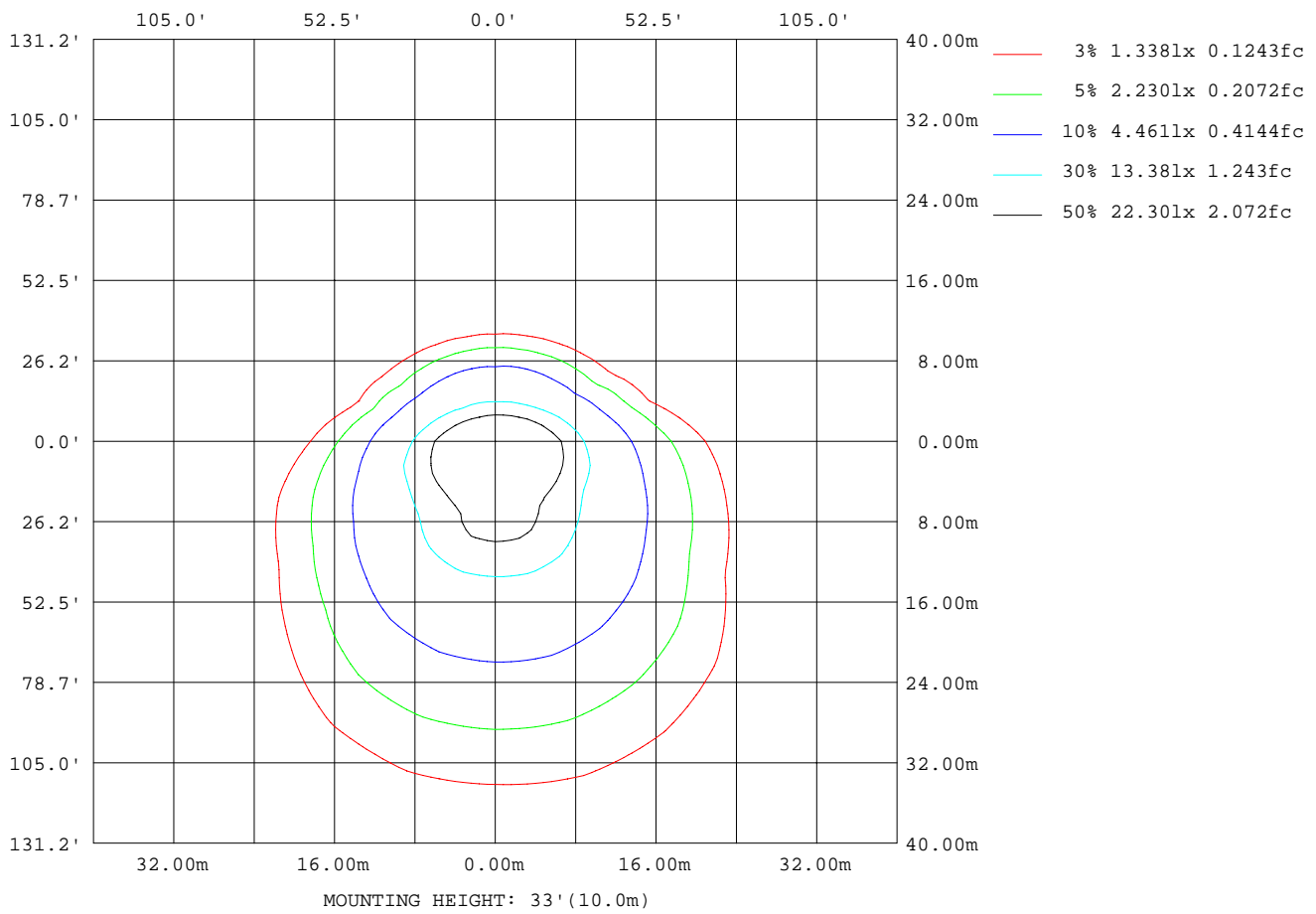
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators:Alan Wang  
 Test Date:07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.9%  
 Test Distance:2.500m [K=1.0462]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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: 07 June 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

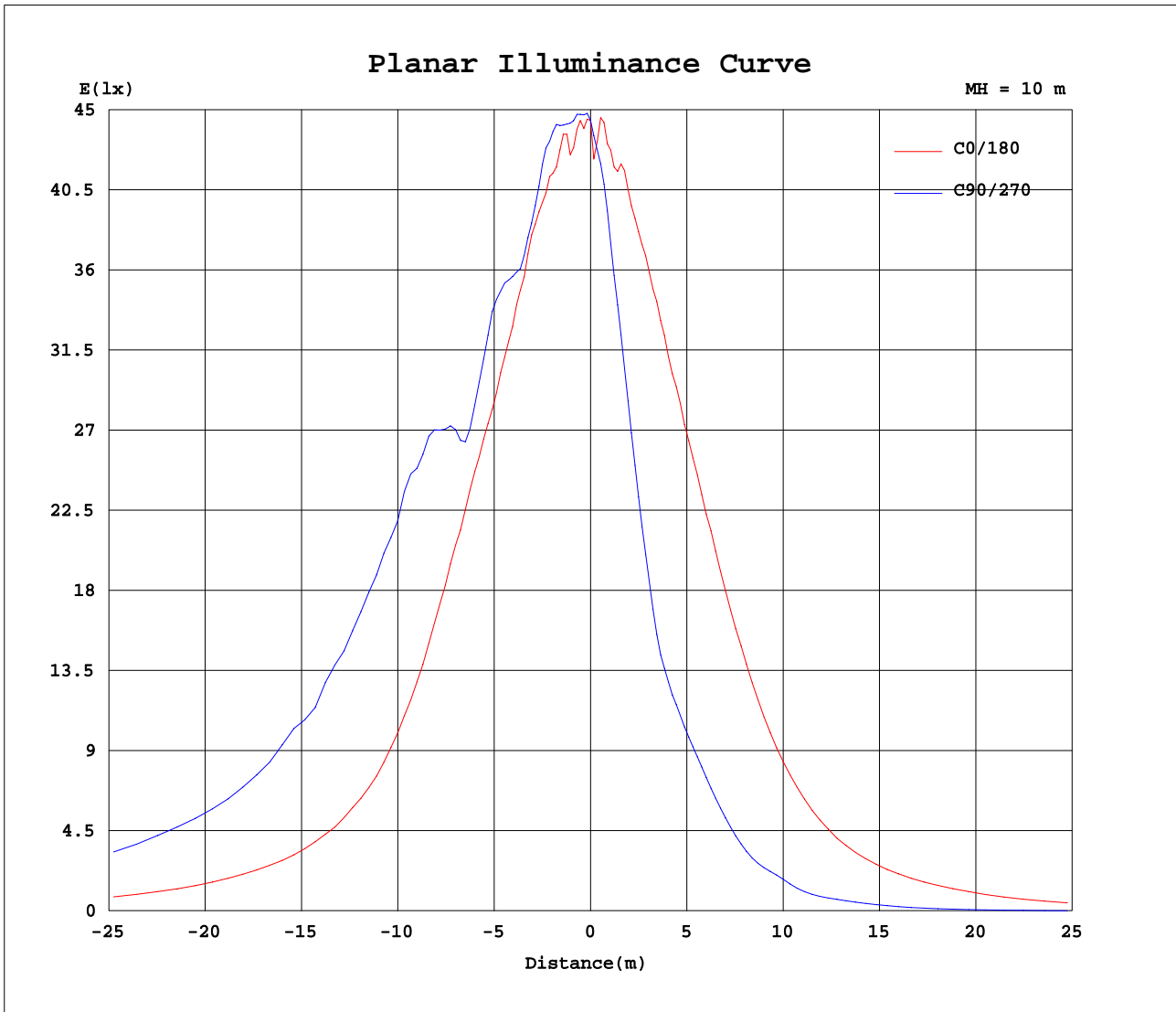
AvgL	cd/m2
L_0~180(65)av	59927
L_0~180(75)av	50039
L_0~180(85)av	46414
L_90~270(65)av	141338
L_90~270(75)av	220409
L_90~270(85)av	578341
L_45(65)av	101118
L_45(75)av	153962
L_45(85)av	381265

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 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: 07 June 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439	4439
5	4337	4401	4464	4576	4570	4566	4490	4399	4587	4583	4484	4433	4359	4286	4222	4145	3977	3828	3977
10	4376	4487	4573	4558	4618	4688	4625	4794	4637	4542	4516	4434	4354	4119	3798	3481	3338	3175	3192
15	4357	4428	4617	4753	4776	4780	4516	4754	4648	4673	4538	4342	4153	3792	3304	2927	2571	2443	2395
20	4203	4416	4656	4570	4565	4604	4347	4548	4618	4533	4414	4281	3996	3424	2791	2282	1966	1784	1734
25	4060	4292	4374	4482	4700	4741	4677	4667	4506	4422	4285	4156	3827	3023	2297	1764	1565	1507	1473
30	3928	4186	4214	4568	4827	4561	4575	4688	4482	4319	4290	3977	3601	2647	1844	1481	1330	1284	1244
35	3738	4078	4253	4343	4487	4775	4917	4666	4413	4151	4120	3835	3274	2217	1497	1215	1083	995	951
40	3343	3951	3990	4155	5029	5821	5930	5569	4538	4083	3864	3693	2849	1766	1163	938	789	694	661
45	2831	3603	3827	4534	5697	6247	6199	6150	5044	4107	3666	3366	2371	1353	846	689	572	513	500
50	2381	3122	3799	4803	5931	6353	6326	6213	5536	4266	3529	2790	1917	1009	648	508	393	327	305
55	2056	2819	3806	4856	5902	6291	6056	6200	5609	4471	3355	2337	1552	704	520	348	273	229	221
60	1836	2634	3598	4752	5917	6207	6111	6015	5549	4231	3018	2166	1293	502	397	238	162	136	120
65	1638	2447	3307	4739	5803	6312	6246	6072	5349	3915	2750	2008	1032	405	284	164	92.7	62.7	52.6
70	1383	2162	2957	4708	5747	6358	6249	6139	5324	3810	2412	1703	718	343	196	91.0	28.8	7.54	5.06
75	943	1856	2684	4575	5633	6106	6010	5931	5223	3731	2081	1386	423	283	134	42.5	12.9	7.45	5.99
80	514	1533	2423	4365	5322	5730	5618	5473	4873	3520	1816	1059	252	222	96.4	33.9	13.1	8.27	6.73
85	260	1201	2122	3831	4835	5424	5308	5036	4317	3121	1581	717	167	175	76.2	27.2	13.1	8.38	6.93
90	164	863	1812	3320	4198	4976	4893	4488	3825	2707	1301	464	141	146	59.4	21.1	12.9	8.18	7.08
95	143	532	1401	2767	3620	4297	4250	3772	3260	2291	908	277	136	124	44.8	16.6	12.0	8.71	7.98
100	118	221	456	1152	2091	2716	2817	2438	1980	1081	305	142	96.0	74.4	22.9	14.3	13.6	13.9	14.2
105	74.1	168	689	509	775	1013	1064	1035	610	414	412	133	66.4	53.6	29.9	14.0	13.1	14.7	15.5
110	144	134	490	746	1008	1255	1183	1110	803	557	300	124	120	50.2	26.1	15.9	16.3	15.3	16.2
115	114	91.2	342	677	1285	1796	1761	1580	935	526	235	96.1	91.2	36.4	22.5	16.1	16.8	14.8	16.3
120	76.4	61.6	284	588	964	1239	1245	1108	855	454	186	75.4	63.6	27.1	18.2	15.8	16.2	15.3	16.0
125	50.7	48.0	252	458	737	948	965	858	643	404	165	58.3	42.9	18.9	14.4	14.7	14.7	14.8	15.3
130	26.1	21.0	227	354	538	689	696	636	460	291	163	34.9	21.7	10.3	14.5	12.7	11.7	13.5	14.5
135	8.50	35.2	199	264	349	451	458	414	307	248	120	15.5	17.1	17.4	13.2	10.9	10.9	8.87	9.99
140	8.35	26.9	132	231	231	271	276	258	215	216	76.8	20.4	13.5	13.6	8.93	8.50	9.93	10.1	11.4
145	7.61	15.2	63.8	174	182	183	179	176	172	148	36.3	13.4	9.47	9.41	7.70	9.28	9.58	9.78	8.85
150	5.05	7.26	17.7	113	141	146	141	139	127	81.8	16.3	7.15	6.85	6.95	7.85	9.43	10.4	9.21	5.86
155	8.98	9.41	12.4	44.9	85.1	103	106	98.4	71.0	33.2	9.85	6.59	7.19	7.95	7.31	10.1	9.52	9.94	6.90
160	9.48	9.85	9.54	12.9	34.2	50.6	55.7	48.4	32.2	12.0	7.76	7.90	8.50	8.94	8.08	9.48	9.94	9.93	7.95
165	9.93	10.4	10.1	9.96	11.0	12.3	12.8	12.2	11.0	10.5	10.2	10.4	10.7	10.8	10.6	8.96	8.32	8.69	6.98
170	10.2	10.6	10.7	10.4	9.78	8.95	9.12	10.2	10.6	11.1	11.6	11.9	11.5	11.4	10.7	10.6	9.86	8.04	5.38
175	6.85	7.27	7.44	7.31	7.10	7.17	7.16	9.33	10.9	11.5	11.6	11.6	11.1	11.1	10.7	10.2	9.46	7.95	5.45
180	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	6.10	6.10	6.10	6.10	6.10	6.10

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.9839A P:117.70W PF:0.9969 Freq:60.00Hz Lamp Flux:17703x1 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	4439	4439	4439	4439	4439														
5	3966	4064	4161	4186	4255														
10	3279	3356	3673	3962	4189														
15	2448	2714	3069	3513	4019														
20	1797	2039	2458	3056	3720														
25	1546	1611	1912	2548	3375														
30	1302	1386	1582	2097	3040														
35	1032	1132	1308	1706	2646														
40	726	853	1016	1343	2164														
45	523	609	766	983	1718														
50	339	426	558	728	1345														
55	233	295	404	569	1019														
60	140	186	288	450	737														
65	66.5	99.2	194	352	535														
70	6.46	33.1	117	266	417														
75	6.20	10.2	56.0	196	335														
80	6.93	8.28	40.5	144	267														
85	6.99	7.78	28.6	104	207														
90	6.74	6.33	17.9	78.3	170														
95	7.64	6.74	13.7	58.9	143														
100	13.1	9.88	12.3	20.8	89.6														
105	14.8	11.9	10.7	30.6	49.1														
110	15.6	13.1	12.6	25.2	43.6														
115	16.0	13.9	12.7	19.8	30.1														
120	15.8	13.9	11.9	14.9	19.4														
125	15.0	13.4	9.52	11.6	14.9														
130	14.1	10.2	9.01	9.16	8.77														
135	9.06	10.3	8.40	9.05	14.4														
140	10.5	9.14	6.92	8.93	11.3														
145	10.4	9.22	9.01	6.81	8.38														
150	8.33	9.69	9.66	9.11	5.88														
155	7.62	9.39	9.28	9.52	8.57														
160	7.67	7.27	9.34	9.26	9.93														
165	5.81	5.56	6.37	8.07	10.5														
170	4.07	4.28	4.22	5.27	6.97														
175	4.40	4.29	4.22	4.71	5.69														
180	6.10	6.10	6.10	6.10	6.10														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 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: 48.9%  
 Test Distance: 2.500m [K=1.0462]  
 Remarks: