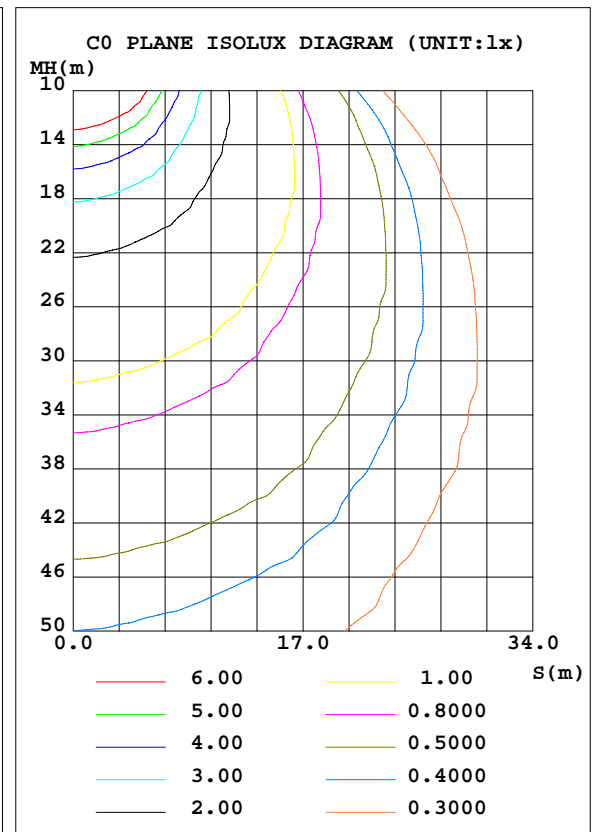
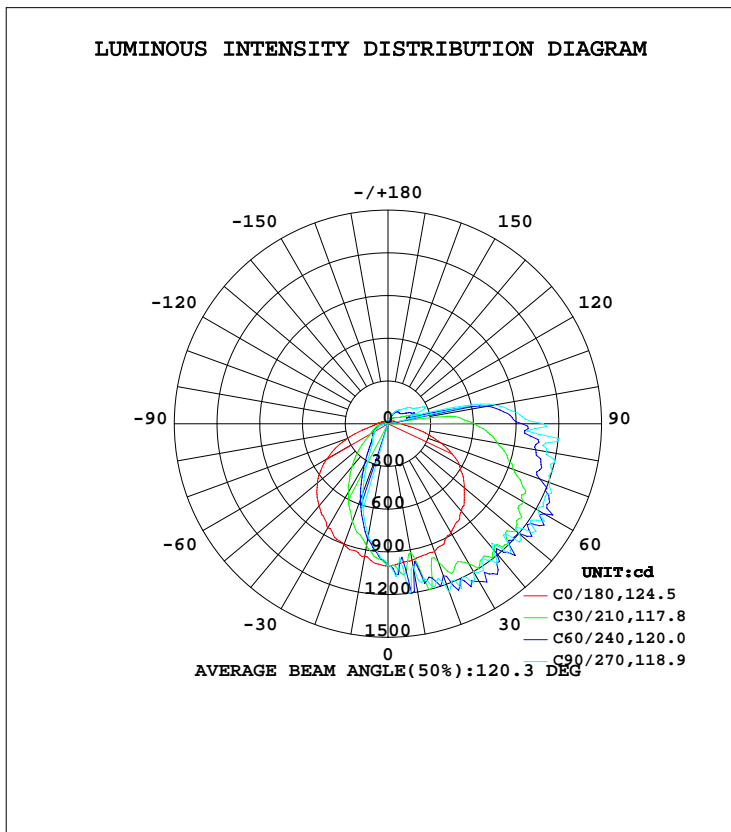


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WLP01S-30DAC_3000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.24 lm/W			
MODEL	ASD-WLP01S-30DAC	I <sub>max</sub> (cd)	1323	S/MH(C0/180)	1.25
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	4500	η UP, DN(C0-180)	13.6,68.7
NOMINAL FLUX(lm)	4500	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	0.7,17.0
LAMPS INSIDE	1	η up(%)	14.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	85.7	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	972.2	1220	1014	1126	944.5	833.1	800.7	839.5	0- 10	92.53	92.53	2.02,2.02
20	956.8	1136	1260	1090	904.8	638.4	520.0	662.1	10- 20	260.1	352.7	7.71,7.71
30	885.0	1260	1200	1222	844.7	431.5	274.3	482.9	20- 30	395.3	748.0	16.4,16.4
40	805.3	1205	1141	1219	755.1	266.4	169.3	307.5	30- 40	487.7	1236	27,27
50	700.1	1090	1205	1159	647.4	158.6	136.9	180.6	40- 50	544.4	1780	38.9,38.9
60	579.3	1140	1214	1173	496.5	120.1	110.5	121.8	50- 60	588.9	2369	51.8,51.8
70	396.5	1089	1209	1052	303.5	92.05	78.41	94.73	60- 70	585.7	2955	64.6,64.6
80	195.1	925.0	1129	922.4	127.1	52.85	39.63	61.29	70- 80	522.6	3477	76,76
90	96.22	779.4	1091	764.4	78.15	21.29	1.638	29.55	80- 90	441.4	3919	85.7,85.7
100	39.78	508.3	760.7	401.9	37.45	14.32	1.915	21.41	90-100	326.9	4246	92.8,92.8
110	49.92	207.8	203.2	205.6	45.81	5.947	3.092	9.823	100-110	132.2	4378	95.7,95.7
120	39.34	115.3	218.9	112.4	34.49	5.806	3.036	9.391	110-120	80.28	4458	97.5,97.5
130	8.596	83.49	175.8	81.67	6.614	2.544	2.679	4.839	120-130	50.58	4509	98.6,98.6
140	11.85	73.58	126.5	66.16	9.236	1.565	2.150	1.886	130-140	32.69	4541	99.3,99.3
150	2.262	60.72	98.76	47.63	2.340	1.716	1.526	1.887	140-150	20.60	4562	99.8,99.8
160	2.039	9.335	54.79	10.24	1.679	1.782	1.703	1.896	150-160	9.304	4571	100,100
170	1.483	1.718	11.66	2.184	2.348	1.869	1.167	1.308	160-170	1.851	4573	100,100
180	1.604	1.789	1.947	1.184	1.615	1.629	1.676	1.600	170-180	0.2046	4573	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1501.6 lm

%lum = 32.8%

%lamp = 32.8%

Conical surface Flux(120deg): 2369 lm

%lum = 51.8%

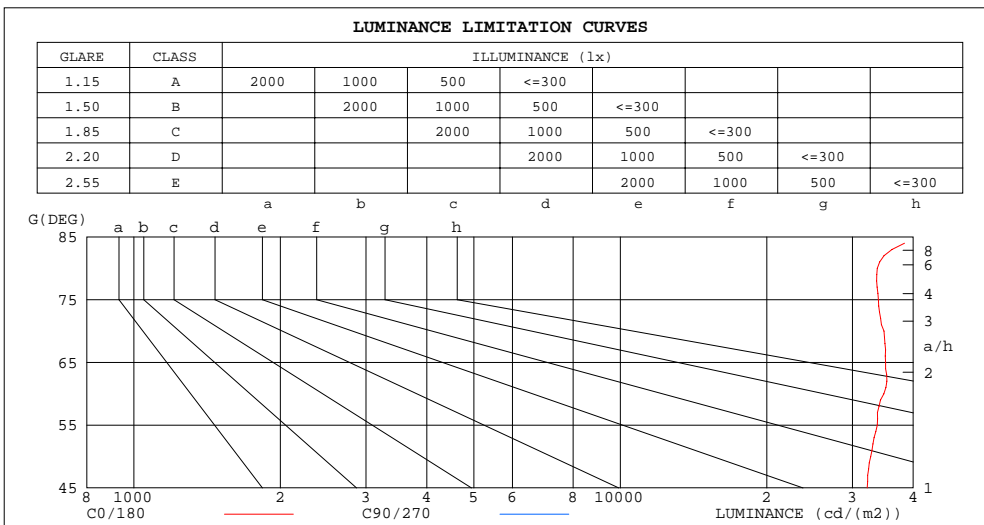
%lamp = 51.8%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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	42372	416698
80	33746	195529
75	33920	137630
70	34821	106286
65	35108	86524
60	34798	73002
55	33737	63841
50	32714	56343
45	32176	50963

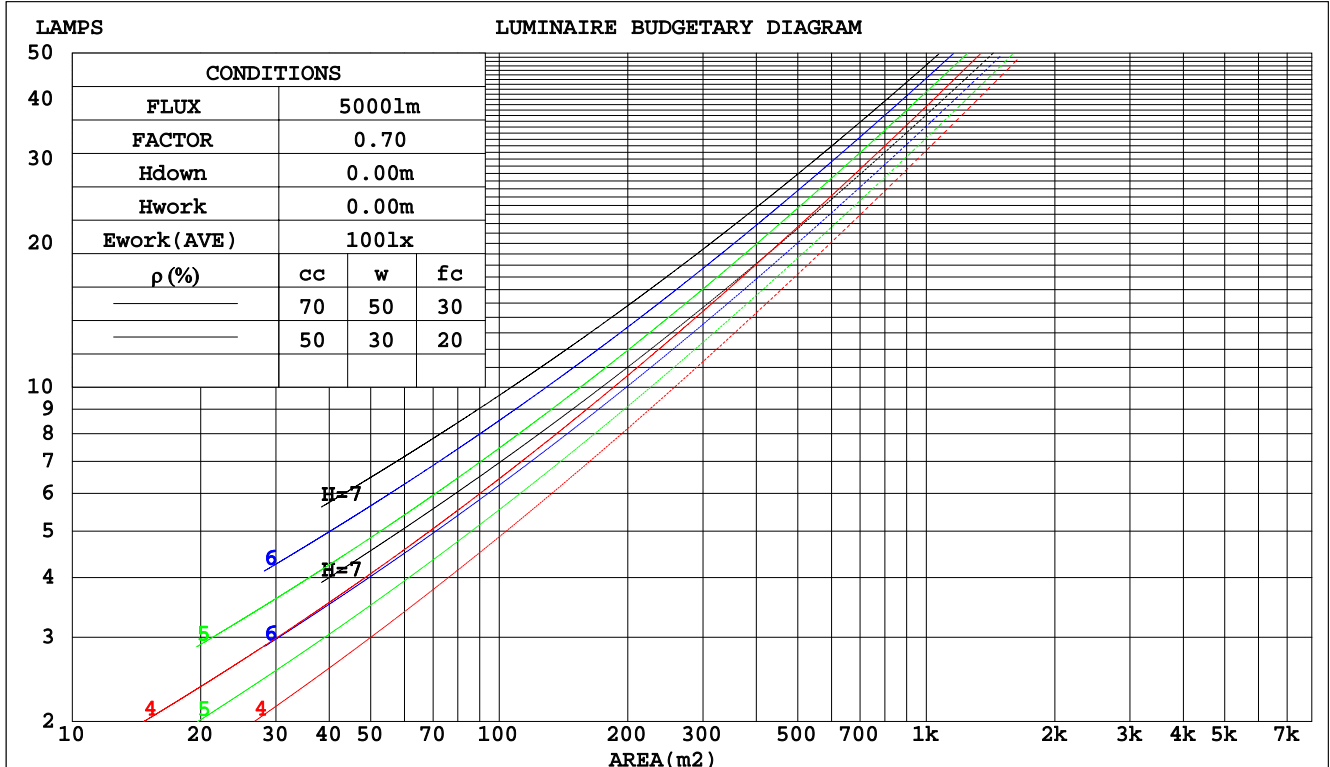
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1.0	.95	.89	.84	.91	.86	.81	.84	.80	.76	.77	.74	.71	.71	.69	.66	.63
2.0	.80	.72	.65	.77	.69	.63	.71	.65	.59	.65	.60	.56	.60	.56	.52	.49
3.0	.69	.60	.52	.66	.58	.51	.61	.54	.48	.57	.50	.45	.52	.47	.43	.40
4.0	.61	.51	.43	.58	.49	.42	.54	.46	.40	.50	.43	.38	.46	.40	.36	.33
5.0	.54	.44	.36	.52	.42	.36	.48	.40	.34	.44	.37	.32	.41	.35	.30	.28
6.0	.48	.38	.31	.46	.37	.31	.43	.35	.29	.40	.33	.28	.37	.31	.26	.24
7.0	.43	.34	.27	.42	.33	.27	.39	.31	.26	.36	.29	.24	.34	.28	.23	.21
8.0	.39	.30	.24	.38	.30	.24	.35	.28	.23	.33	.26	.22	.31	.25	.21	.18
9.0	.36	.27	.22	.35	.27	.21	.33	.25	.20	.30	.24	.19	.28	.23	.19	.16
10.0	.33	.25	.19	.32	.24	.19	.30	.23	.18	.28	.22	.17	.26	.21	.17	.15



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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	.420	.239	.076	.408	.233	.074	.386	.222	.071	.366	.211	.068	.348	.202	.065	
2.0	.356	.195	.060	.346	.190	.059	.326	.181	.056	.308	.173	.054	.291	.164	.052	
3.0	.313	.166	.050	.303	.162	.049	.285	.155	.047	.269	.147	.045	.253	.140	.043	
4.0	.279	.145	.043	.270	.142	.042	.254	.135	.040	.239	.128	.039	.225	.122	.037	
5.0	.252	.128	.037	.244	.125	.037	.230	.120	.035	.216	.114	.034	.203	.109	.033	
6.0	.230	.115	.033	.223	.112	.032	.209	.107	.031	.197	.102	.030	.185	.098	.029	
7.0	.211	.104	.030	.205	.102	.029	.193	.097	.028	.181	.093	.027	.171	.089	.026	
8.0	.195	.095	.027	.189	.093	.026	.178	.089	.025	.168	.085	.025	.158	.081	.024	
9.0	.181	.088	.024	.176	.086	.024	.166	.082	.023	.156	.078	.022	.147	.075	.022	
10.0	.169	.081	.023	.164	.079	.022	.155	.076	.021	.146	.073	.021	.138	.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	.300	.300	.300	.256	.256	.256	.175	.175	.175	.100	.100	.100	.032	.032	.032	
1.0	.298	.265	.236	.255	.228	.203	.174	.157	.140	.100	.091	.082	.032	.029	.026	
2.0	.292	.242	.201	.250	.209	.174	.171	.144	.121	.099	.084	.071	.032	.027	.023	
3.0	.284	.226	.180	.243	.195	.156	.167	.135	.109	.097	.079	.064	.031	.026	.021	
4.0	.276	.213	.166	.237	.184	.144	.163	.129	.101	.094	.075	.060	.030	.025	.020	
5.0	.268	.204	.156	.230	.176	.136	.159	.123	.096	.092	.072	.057	.030	.024	.019	
6.0	.260	.196	.149	.224	.169	.130	.154	.119	.092	.090	.070	.055	.029	.023	.018	
7.0	.253	.189	.144	.217	.164	.126	.150	.115	.089	.087	.068	.053	.028	.022	.018	
8.0	.246	.183	.141	.212	.159	.123	.146	.112	.087	.085	.066	.052	.028	.022	.017	
9.0	.239	.179	.138	.206	.155	.120	.143	.109	.085	.083	.064	.051	.027	.021	.017	
10.0	.233	.174	.135	.201	.151	.118	.139	.107	.084	.081	.063	.050	.026	.021	.017	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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	26.0	27.4	26.5	28.0	28.7	28.3	29.8	28.9	30.4	31.0
3H	28.2	29.6	28.8	30.2	30.8	31.7	33.0	32.2	33.6	34.3
4H	29.1	30.4	29.7	31.0	31.7	33.4	34.8	34.0	35.4	36.0
6H	29.8	31.0	30.4	31.6	32.3	35.4	36.6	36.0	37.2	37.9
8H	30.1	31.2	30.7	31.9	32.6	36.4	37.6	37.0	38.2	38.9
12H	30.3	31.4	30.9	32.1	32.8	37.8	38.9	38.4	39.5	40.3
4H 2H	27.6	28.9	28.2	29.5	30.2	29.1	30.4	29.7	31.0	31.7
3H	30.3	31.4	30.9	32.1	32.8	32.7	33.8	33.3	34.5	35.2
4H	31.5	32.6	32.1	33.2	34.0	34.7	35.8	35.3	36.4	37.1
6H	32.5	33.5	33.2	34.2	34.9	36.9	37.8	37.5	38.5	39.2
8H	32.9	33.8	33.6	34.5	35.3	38.0	38.9	38.7	39.6	40.3
12H	33.3	34.1	33.9	34.8	35.5	39.5	40.4	40.2	41.0	41.8
8H 4H	32.9	33.8	33.5	34.5	35.2	35.3	36.1	35.9	36.8	37.6
6H	34.4	35.2	35.1	35.9	36.7	37.7	38.5	38.4	39.2	40.0
8H	35.1	35.8	35.8	36.6	37.3	39.1	39.8	39.8	40.5	41.3
12H	35.8	36.4	36.4	37.1	37.9	40.9	41.5	41.6	42.2	43.1
12H 4H	33.3	34.1	34.0	34.8	35.6	35.4	36.2	36.0	36.9	37.6
6H	35.1	35.8	35.8	36.5	37.3	37.9	38.6	38.6	39.3	40.1
8H	36.1	36.7	36.8	37.4	38.2	39.4	40.1	40.1	40.8	41.6
CIE190: 2010										

CIE190: 2010  
Area: 0.0333 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 09 August 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 45.4%  
Test Distance: 2.500m [K=1.0473]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

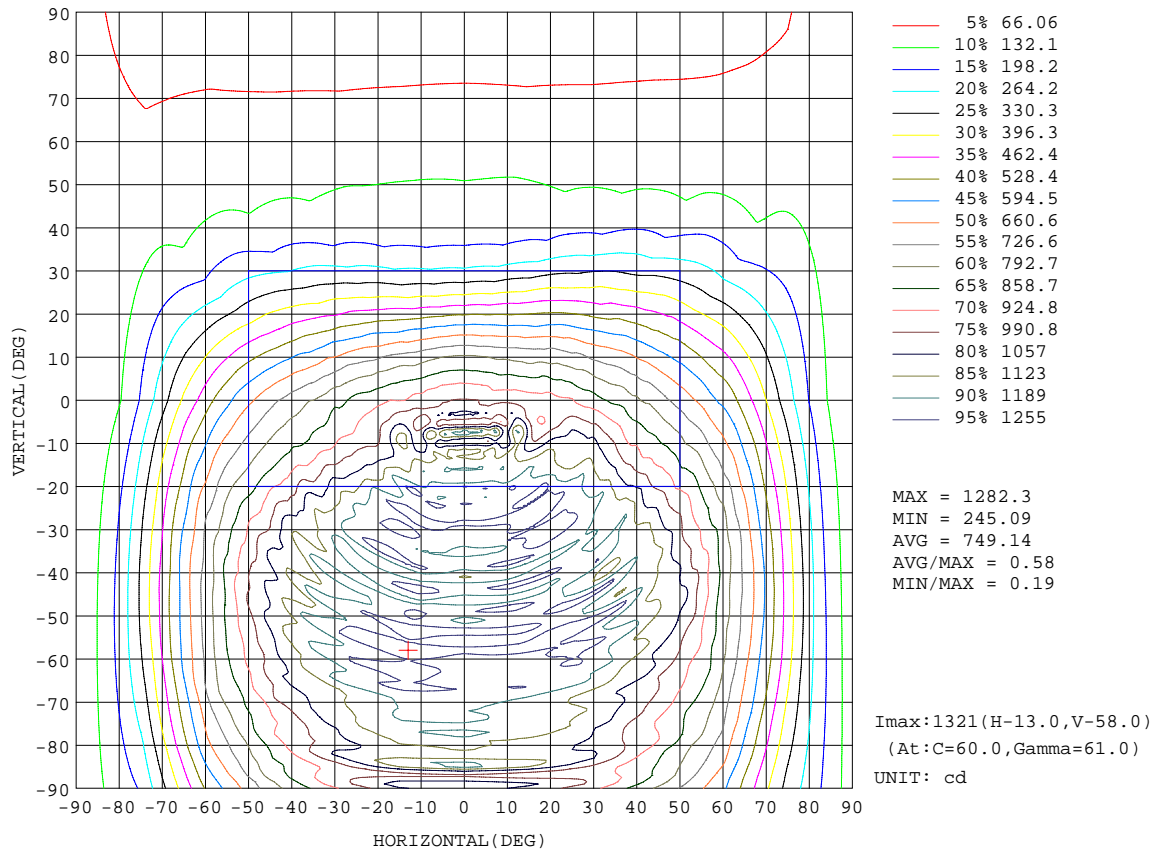
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	46	34	27	44	33	26	20
0.80	56	43	34	55	42	34	52	41	33	25
1.00	64	50	41	62	49	41	59	50	40	31
1.25	70	57	48	68	56	48	64	54	46	37
1.50	76	63	54	73	61	53	69	59	51	41
2.00	83	71	62	80	69	61	75	66	59	48
2.50	88	77	68	84	74	67	79	70	64	52
3.00	91	81	73	88	79	72	82	75	68	56
4.00	96	88	81	93	85	78	86	80	74	61
5.00	99	92	86	96	89	83	89	83	79	64
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: 09 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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: 09 August 2021

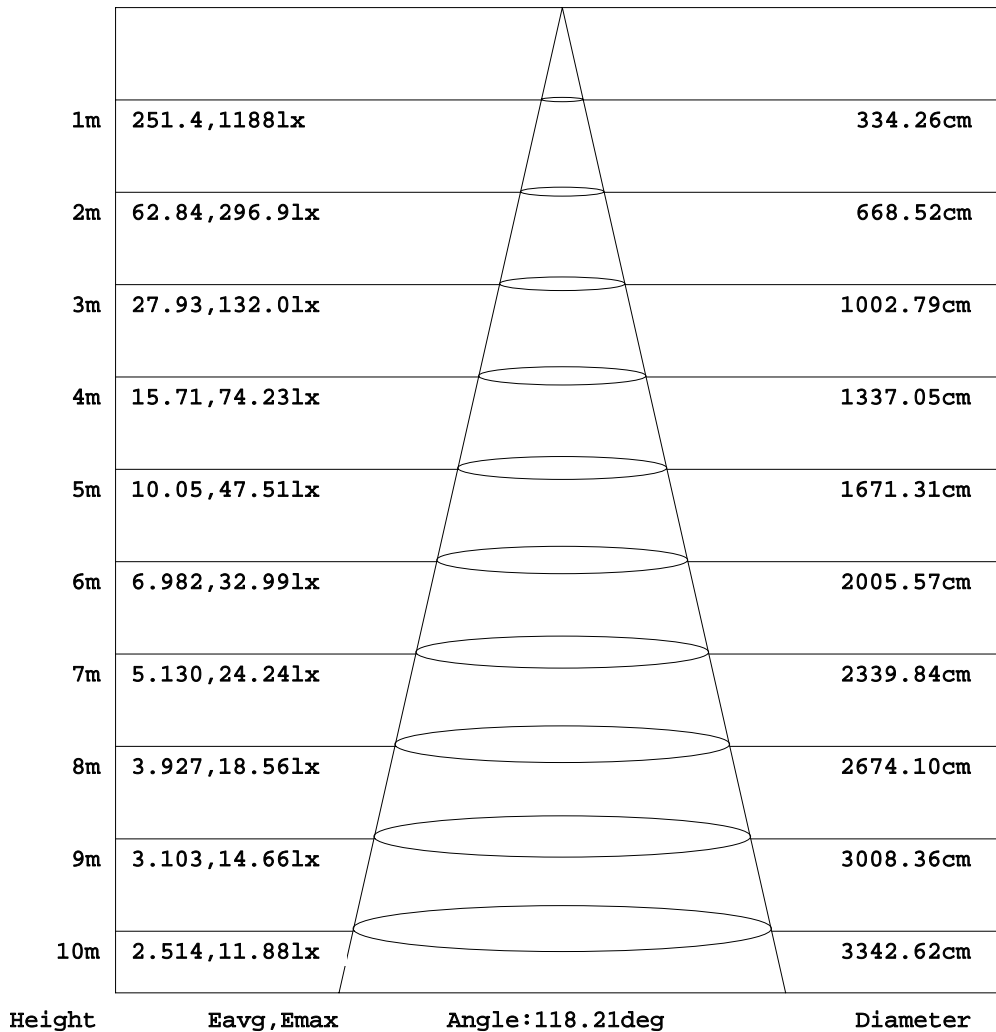
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:



AAI Figure

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:2369 lm



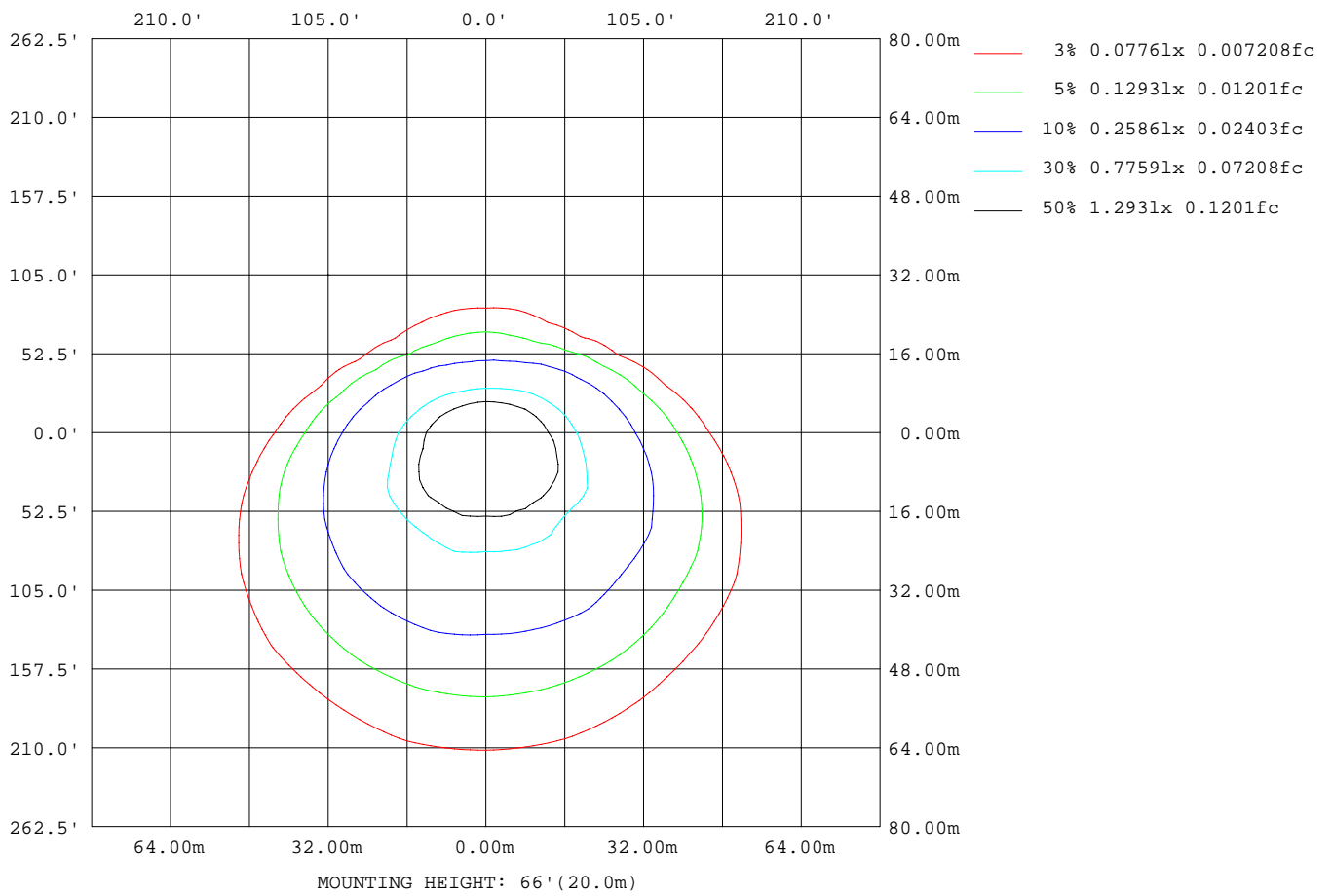
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

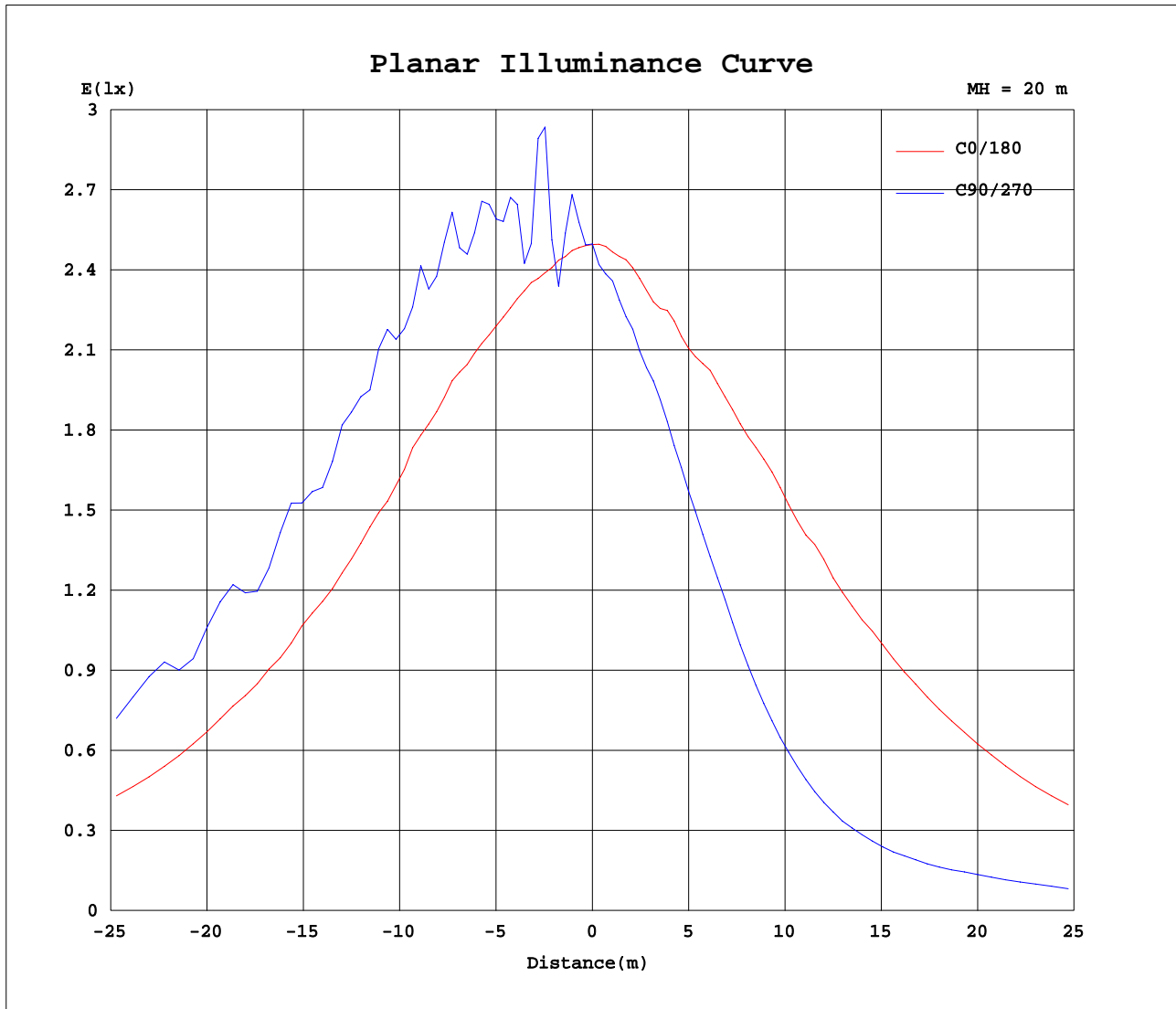
AvgL	cd/m2
L_0~180(65)av	32070
L_0~180(75)av	28820
L_0~180(85)av	37531
L_90~270(65)av	46611
L_90~270(75)av	72264
L_90~270(85)av	211084
L_45(65)av	44058
L_45(75)av	62490
L_45(85)av	154801

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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	998	998	998	998	998	998	998	998	998	998	998	998	998	998	998	998	998	998	998
5	986	988	1052	1056	969	943	945	953	993	1062	1041	998	986	955	946	928	909	905	899
10	972	1056	918	1220	1039	995	1014	1004	1112	1126	953	1007	945	911	869	833	823	808	801
15	957	982	1194	1071	1115	1153	1173	1147	1112	1002	1091	1028	921	867	799	741	693	669	663
20	957	934	1033	1136	1136	1223	1260	1193	1169	1090	1044	988	905	815	730	638	568	531	520
25	932	1044	1110	1202	1204	1252	1214	1280	1227	1159	1025	942	883	763	645	533	440	392	382
30	885	1052	1136	1260	1279	1249	1200	1302	1239	1222	1042	923	845	698	556	432	333	285	274
35	843	1013	1156	1256	1286	1163	1152	1236	1209	1235	1090	893	792	627	470	344	251	212	207
40	805	944	1160	1205	1184	1199	1141	1275	1229	1219	1072	876	755	566	390	266	193	172	169
45	758	939	1193	1195	1208	1246	1199	1299	1235	1170	1077	862	705	490	321	204	161	153	153
50	700	922	1172	1090	1195	1243	1205	1271	1184	1159	1083	838	647	421	248	159	143	141	137
55	644	904	1148	1112	1222	1261	1218	1282	1209	1198	1070	815	576	343	184	135	130	121	118
60	579	848	1102	1140	1267	1228	1214	1288	1218	1173	1021	764	497	259	144	120	115	113	110
65	494	787	1043	1140	1247	1241	1216	1276	1209	1125	956	703	409	183	119	107	101	96.8	95.5
70	397	704	936	1089	1135	1180	1209	1202	1128	1052	878	616	303	132	101	92.1	81.3	78.2	78.4
75	292	618	866	996	1112	1160	1185	1184	1101	1007	813	515	204	103	84.6	72.5	62.2	59.5	60.7
80	195	515	783	925	1053	1114	1129	1124	1045	922	737	413	127	79.3	68.8	52.9	43.1	39.2	39.6
85	123	402	704	865	1006	1143	1208	1146	975	856	646	304	94.9	62.8	52.4	34.5	22.9	17.4	17.1
90	96.2	306	609	779	942	1039	1091	1051	917	764	534	204	78.1	51.5	37.9	21.3	6.71	1.70	1.64
95	76.7	211	503	685	842	898	906	915	822	665	428	138	66.8	45.5	31.4	17.2	3.97	1.56	1.61
100	39.8	83.2	111	508	717	774	761	785	688	402	117	53.0	37.4	24.2	17.3	14.3	3.31	2.01	1.92
105	39.8	84.8	234	139	234	350	367	333	198	173	185	63.3	37.8	10.4	17.4	7.27	2.45	2.66	2.84
110	49.9	70.5	186	208	190	227	203	219	161	206	153	52.1	45.8	10.7	22.5	5.95	2.49	2.85	3.09
115	44.4	55.3	123	161	181	268	282	245	157	161	114	43.6	40.1	8.31	18.2	7.60	2.60	2.92	3.17
120	39.3	47.2	89.9	115	152	207	219	193	139	112	88.2	38.7	34.5	5.98	14.2	5.81	2.60	2.86	3.04
125	33.5	42.0	75.4	96.3	125	194	201	172	116	93.8	75.0	32.9	29.3	4.26	11.2	4.10	2.53	2.73	2.85
130	8.60	30.1	70.0	83.5	111	174	176	154	100	81.7	64.6	18.0	6.61	7.80	8.26	2.54	2.01	2.61	2.68
135	15.1	10.1	59.1	77.7	110	146	147	135	91.5	72.8	54.8	9.65	11.8	11.5	5.97	2.10	1.91	1.63	1.69
140	11.9	12.6	50.6	73.6	110	129	126	123	92.6	66.2	44.9	12.9	9.24	8.44	4.15	1.57	2.00	2.32	2.15
145	6.86	13.6	38.8	70.4	103	117	115	110	86.2	56.2	30.5	3.81	2.11	1.45	1.68	1.63	1.58	1.91	1.86
150	2.26	7.04	26.6	60.7	88.0	99.2	98.8	91.9	74.5	47.6	19.7	2.64	2.34	1.54	1.65	1.72	1.67	1.60	1.53
155	1.96	4.20	2.02	47.1	67.9	76.8	77.3	70.7	58.5	37.4	1.93	1.92	2.10	1.78	1.62	1.74	1.92	1.86	1.67
160	2.04	2.05	14.4	9.33	46.4	53.8	54.8	49.7	40.2	10.2	6.97	1.45	1.68	1.70	1.49	1.78	1.91	1.97	1.70
165	2.09	2.19	4.65	9.62	2.15	13.4	9.45	14.3	2.26	12.8	2.51	2.16	2.29	2.25	1.90	1.52	1.71	1.78	1.49
170	1.48	1.50	1.52	1.72	4.64	8.80	11.7	10.4	7.41	2.18	2.22	2.23	2.35	2.34	2.24	1.87	1.64	1.30	1.17
175	1.60	1.59	1.64	1.86	2.16	2.18	2.15	2.19	2.29	2.31	2.30	2.30	2.34	2.34	2.23	1.71	1.41	1.31	1.30
180	1.60	1.39	1.48	1.79	1.90	1.95	1.95	1.80	1.57	1.18	1.22	1.52	1.62	1.59	1.63	1.63	1.64	1.65	1.68

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.2547A P:30.440W PF:0.9958 Freq:60.00Hz Lamp Flux:4500x1 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	998	998	998	998	998														
5	897	909	928	939	946														
10	808	815	840	871	922														
15	670	703	760	819	887														
20	540	589	662	762	862														
25	405	474	569	698	812														
30	297	366	483	614	756														
35	220	277	389	529	697														
40	172	211	308	459	637														
45	150	165	236	377	564														
50	140	140	181	300	493														
55	124	126	144	227	413														
60	114	116	122	166	332														
65	98.0	101	108	129	247														
70	78.7	86.0	94.7	105	170														
75	59.4	67.3	79.1	88.2	121														
80	40.1	47.5	61.3	73.7	94.3														
85	17.8	28.0	42.1	59.6	75.6														
90	1.69	11.9	29.5	47.4	64.2														
95	1.57	8.53	25.1	39.6	56.6														
100	1.94	7.29	21.4	18.1	32.3														
105	2.55	5.95	10.4	25.4	22.4														
110	2.70	2.59	9.82	26.9	24.7														
115	2.44	3.22	12.1	23.3	21.9														
120	2.44	2.76	9.39	19.4	19.7														
125	2.48	2.39	6.70	15.6	18.0														
130	2.39	1.85	4.84	12.0	11.4														
135	1.56	1.96	3.45	8.60	17.3														
140	1.94	1.95	1.89	4.44	12.2														
145	1.64	1.58	1.72	1.85	5.88														
150	1.51	1.75	1.89	1.90	2.00														
155	1.73	1.84	1.92	1.96	1.80														
160	1.58	1.63	1.90	1.90	1.97														
165	1.33	1.55	1.40	1.63	2.10														
170	1.15	1.26	1.31	1.37	1.67														
175	1.26	1.26	1.27	1.51	1.58														
180	1.67	1.63	1.60	1.58	1.57														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 09 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 45.4%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks: