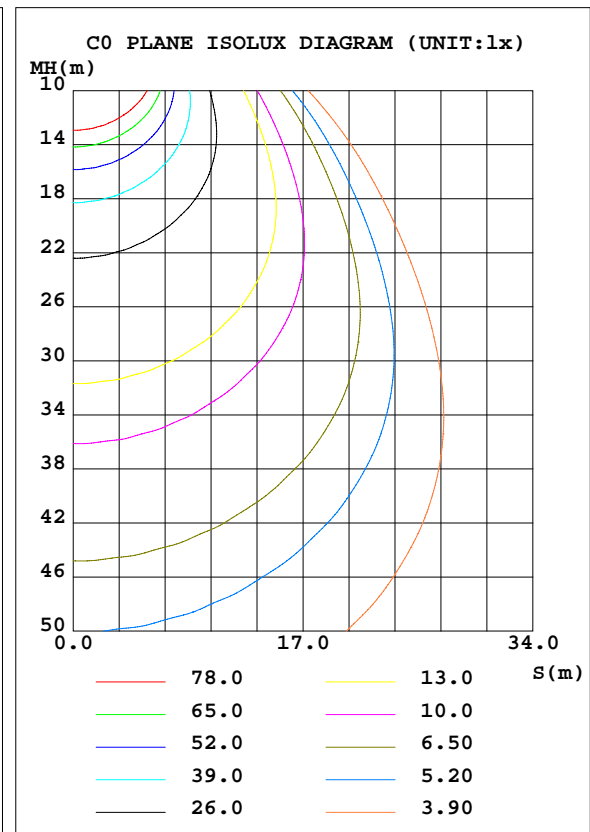
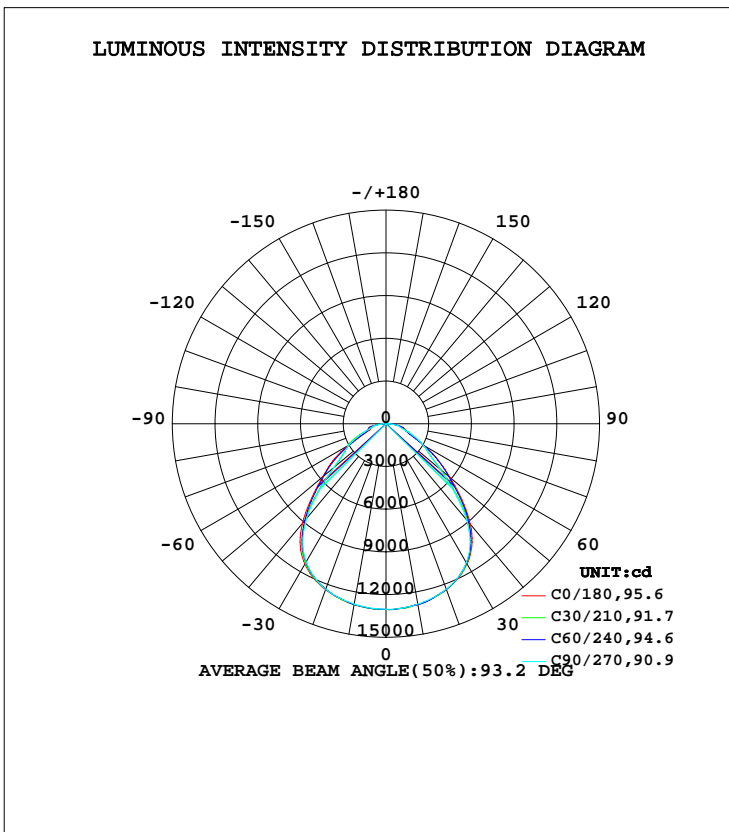


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB7-2D22050	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.55 lm/W			
MODEL	ASD-WHB7-2D22050	I _{max} (cd)	13061	S/MH(C0/180)	1.29
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	29700	η UP, DN(C0-180)	0.1,50.1
NOMINAL FLUX(lm)	29700	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,49.7
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1290	1289	1287	1287	1290	1288	1286	1285	0- 10	1237	1237	4.12,4.12
20	1240	1240	1237	1235	1240	1237	1237	1236	10- 20	3580	4817	16,16
30	1138	1131	1127	1127	1139	1127	1122	1127	20- 30	5494	10311	34.4,34.4
40	922.1	896.3	880.8	887.8	912.2	880.9	865.3	885.8	30- 40	6417	16728	55.7,55.7
50	587.6	548.0	490.3	528.7	581.9	534.5	481.0	540.1	40- 50	5444	22172	73.9,73.9
60	316.9	330.5	305.9	317.1	312.0	315.7	300.4	322.7	50- 60	3693	25865	86.2,86.2
70	158.8	175.1	155.1	178.1	118.3	177.7	151.8	172.0	60- 70	2269	28133	93.7,93.7
80	102.1	88.33	82.84	85.49	100.4	81.23	81.28	87.96	70- 80	1324	29457	98.1,98.1
90	6.787	9.387	10.18	4.689	6.167	6.629	7.202	8.603	80- 90	500.3	29957	99.8,99.8
100	0.1949	0.1805	0.1928	0.2122	0.2999	0.2760	0.2620	0.2775	90-100	11.66	29969	99.9,99.9
110	0.3643	0.3952	0.4299	0.4121	0.4375	0.4542	0.4652	0.4699	100-110	3.664	29973	99.9,99.9
120	0.4659	0.6445	0.6408	0.5923	0.5864	0.7311	0.7037	0.6942	110-120	5.352	29978	99.9,99.9
130	0.6577	0.7808	0.8420	0.7616	0.8451	1.018	1.049	0.9798	120-130	7.220	29985	99.9,99.9
140	0.8711	0.9840	1.046	0.9000	1.101	1.280	1.344	1.195	130-140	7.884	29993	99.9,99.9
150	1.070	1.144	1.144	1.159	1.302	1.467	1.437	1.549	140-150	7.738	30001	100,100
160	1.268	1.464	1.244	1.254	1.585	1.596	1.610	1.955	150-160	6.518	30007	100,100
170	1.893	1.688	1.395	1.392	1.702	1.699	1.632	1.562	160-170	4.523	30012	100,100
180	1.447	1.478	1.532	1.469	1.465	1.489	1.403	1.428	170-180	1.468	30013	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 19690 lm

%lum = 65.6%

%lamp = 65.6%

Conical surface Flux(120deg): 25865 lm

%lum = 86.2%

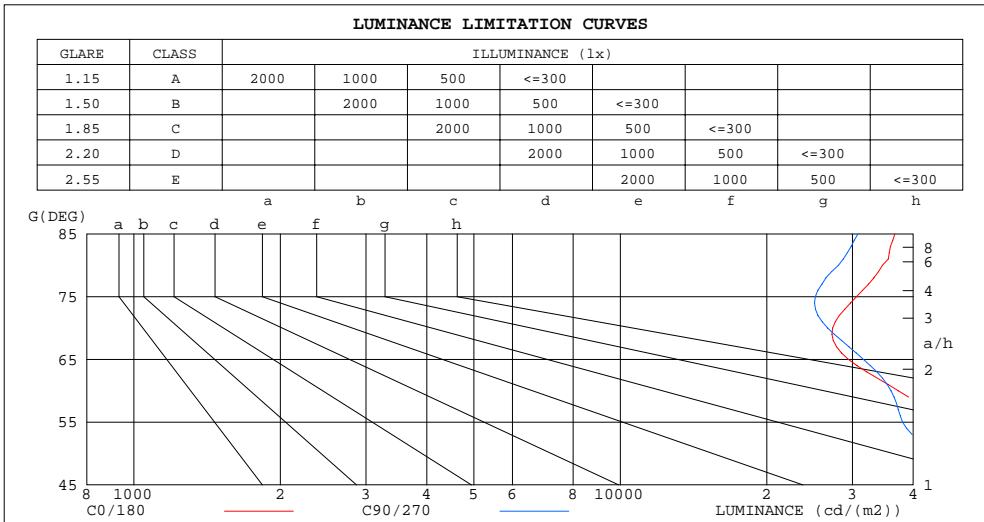
%lamp = 86.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 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	36668	30789
80	34584	28073
75	30576	25171
70	27315	26683
65	29437	31623
60	37299	36006
55	45993	38046
50	53792	44886
45	62741	56370

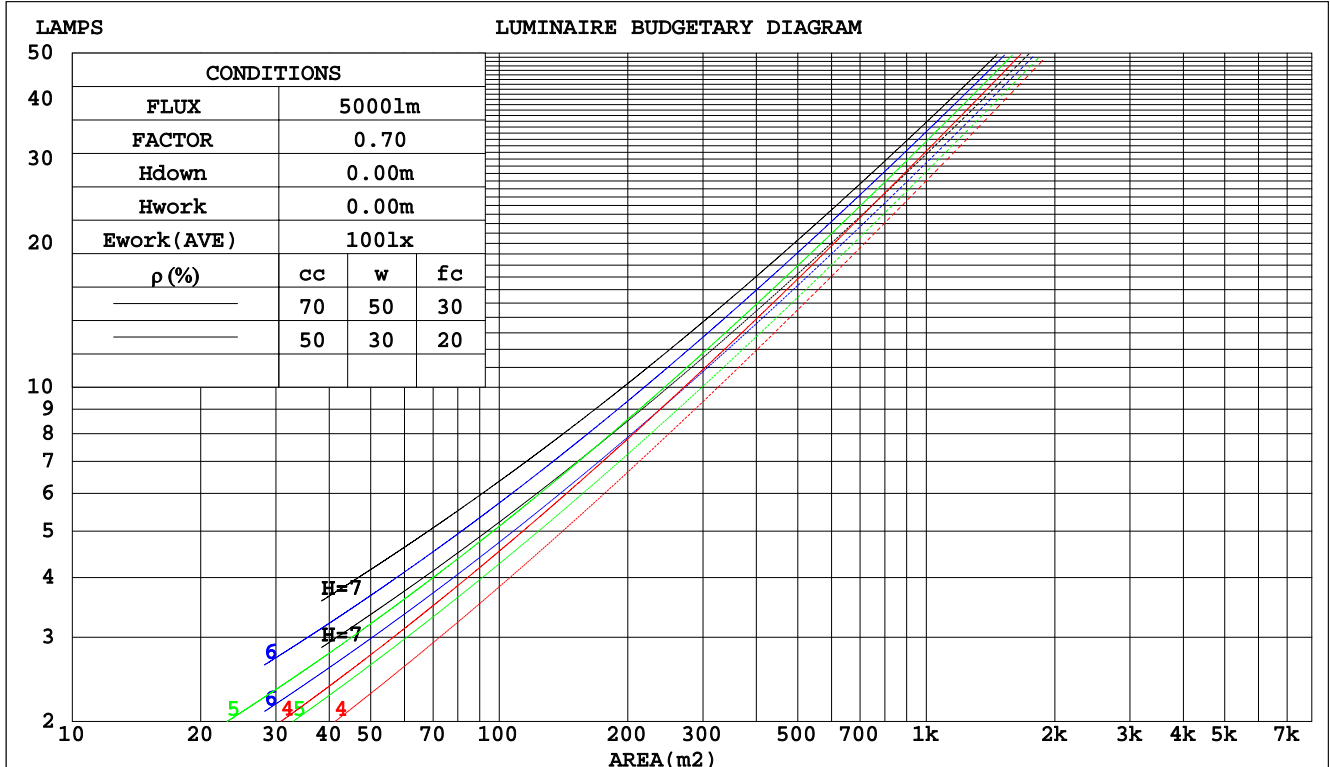
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.98	1.03	.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.82	.92	.86	.81	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.70	.82	.75	.70	.79	.73	.68	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.68	.59	.53	.67	.59	.53	.65	.58	.52	.63	.57	.52	.61	.56	.51	.49
6.0	.61	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.42	.35	.31	.41	.35	.31	.29



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 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	.275	.157	.050	.268	.153	.049	.255	.146	.047	.243	.140	.045	.232	.134	.043	
2.0	.260	.142	.044	.254	.140	.043	.242	.135	.042	.232	.130	.041	.222	.126	.040	
3.0	.243	.129	.039	.237	.127	.038	.227	.123	.037	.218	.119	.037	.209	.116	.036	
4.0	.226	.118	.035	.221	.116	.034	.213	.113	.034	.204	.110	.033	.197	.107	.033	
5.0	.211	.108	.031	.207	.106	.031	.199	.104	.030	.192	.101	.030	.185	.099	.030	
6.0	.197	.099	.028	.194	.098	.028	.187	.096	.028	.180	.094	.027	.174	.092	.027	
7.0	.185	.091	.026	.182	.091	.026	.175	.089	.026	.170	.087	.025	.164	.085	.025	
8.0	.174	.085	.024	.171	.084	.024	.165	.083	.024	.160	.081	.023	.155	.080	.023	
9.0	.164	.079	.022	.161	.079	.022	.156	.077	.022	.151	.076	.022	.147	.075	.022	
10.0	.155	.074	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.140	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.179	.158	.139	.153	.135	.119	.105	.093	.082	.060	.054	.048	.019	.017	.016	
2.0	.169	.134	.103	.145	.115	.089	.099	.080	.062	.057	.046	.037	.018	.015	.012	
3.0	.161	.116	.080	.138	.100	.069	.095	.069	.048	.055	.040	.029	.018	.013	.009	
4.0	.153	.102	.063	.131	.088	.055	.090	.061	.039	.052	.036	.023	.017	.012	.008	
5.0	.145	.091	.052	.125	.079	.045	.086	.055	.032	.050	.032	.019	.016	.011	.006	
6.0	.138	.083	.043	.119	.072	.037	.082	.050	.026	.048	.030	.016	.015	.010	.005	
7.0	.132	.076	.037	.113	.066	.032	.078	.046	.023	.045	.027	.013	.015	.009	.004	
8.0	.126	.070	.032	.108	.061	.028	.075	.043	.020	.044	.025	.012	.014	.008	.004	
9.0	.120	.065	.028	.103	.056	.024	.072	.040	.017	.042	.023	.010	.014	.008	.003	
10.0	.115	.061	.025	.099	.053	.022	.069	.037	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 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	23.9	25.4	24.2	25.7	26.0	24.2	25.7	24.5	26.0	26.3
3H	25.4	26.7	25.8	27.1	27.4	25.4	26.8	25.8	27.1	27.5
4H	26.1	27.3	26.5	27.7	28.0	25.9	27.2	26.3	27.5	27.9
6H	26.7	27.8	27.1	28.2	28.6	26.4	27.6	26.8	27.9	28.3
8H	26.9	28.0	27.4	28.4	28.8	26.6	27.7	27.0	28.1	28.5
12H	27.2	28.2	27.6	28.6	29.0	26.8	27.8	27.2	28.2	28.7
4H 2H	24.4	25.6	24.8	26.0	26.4	24.6	25.8	25.0	26.2	26.6
3H	26.0	27.1	26.5	27.5	27.9	26.0	27.0	26.4	27.4	27.8
4H	26.8	27.8	27.3	28.2	28.6	26.7	27.6	27.1	28.0	28.5
6H	27.6	28.4	28.1	28.9	29.3	27.4	28.2	27.8	28.6	29.1
8H	27.9	28.7	28.4	29.1	29.6	27.6	28.4	28.1	28.8	29.3
12H	28.2	28.9	28.7	29.4	29.9	27.9	28.6	28.4	29.0	29.5
8H 4H	27.1	27.9	27.6	28.3	28.8	27.0	27.7	27.4	28.2	28.7
6H	28.0	28.6	28.5	29.1	29.6	27.9	28.5	28.4	29.0	29.5
8H	28.4	29.0	29.0	29.5	30.0	28.2	28.8	28.8	29.3	29.8
12H	28.8	29.3	29.4	29.8	30.4	28.6	29.1	29.1	29.6	30.2
12H 4H	27.1	27.8	27.6	28.3	28.8	27.0	27.7	27.5	28.2	28.6
6H	28.1	28.7	28.6	29.1	29.7	27.9	28.5	28.5	29.0	29.5
8H	28.6	29.1	29.1	29.6	30.2	28.4	28.9	28.9	29.4	30.0
CIE190: 2010										

CIE190: 2010
Area: 0.16994 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 28 October 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
Humidity: 46.5%
Test Distance: 2.500m [K=1.0405]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

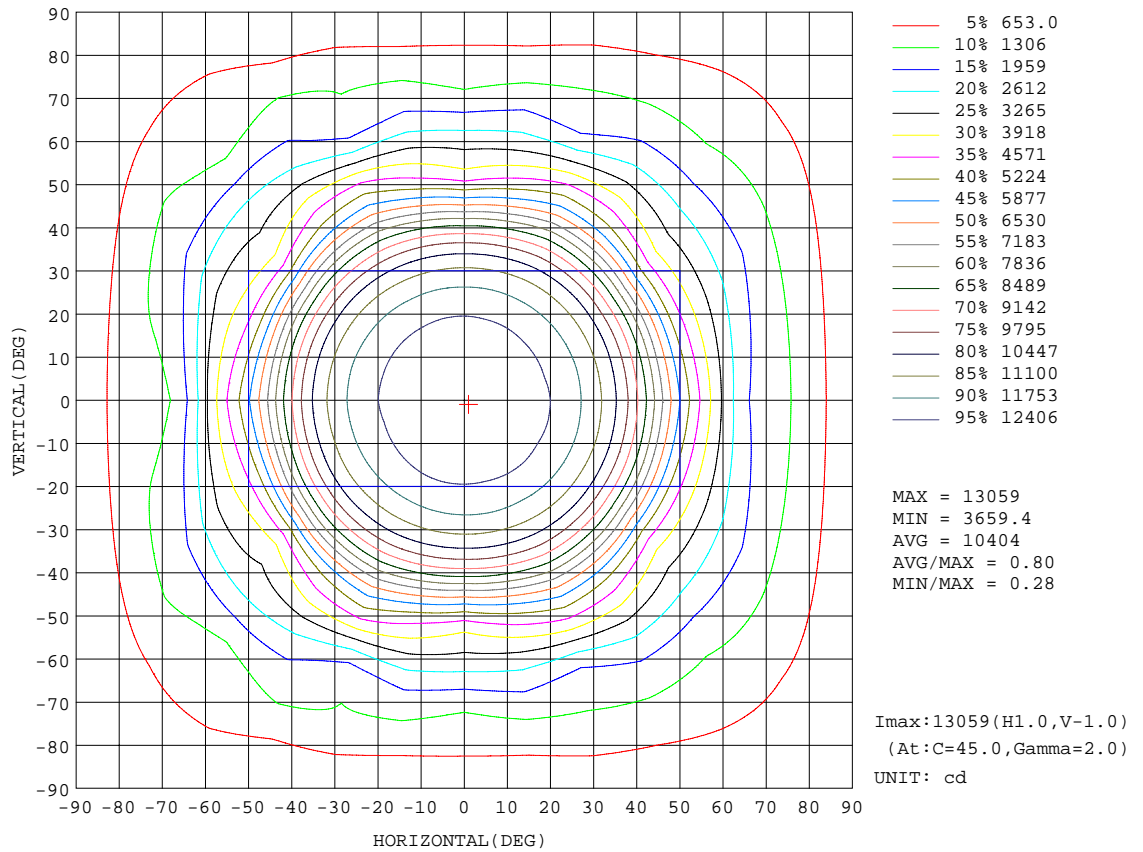
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	54	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	62	56	50
1.00	82	72	66	81	71	65	79	72	65	58
1.25	88	79	73	87	79	73	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	91	86	97	90	85	94	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	86
5.00	110	106	102	108	104	101	103	100	98	89
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: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



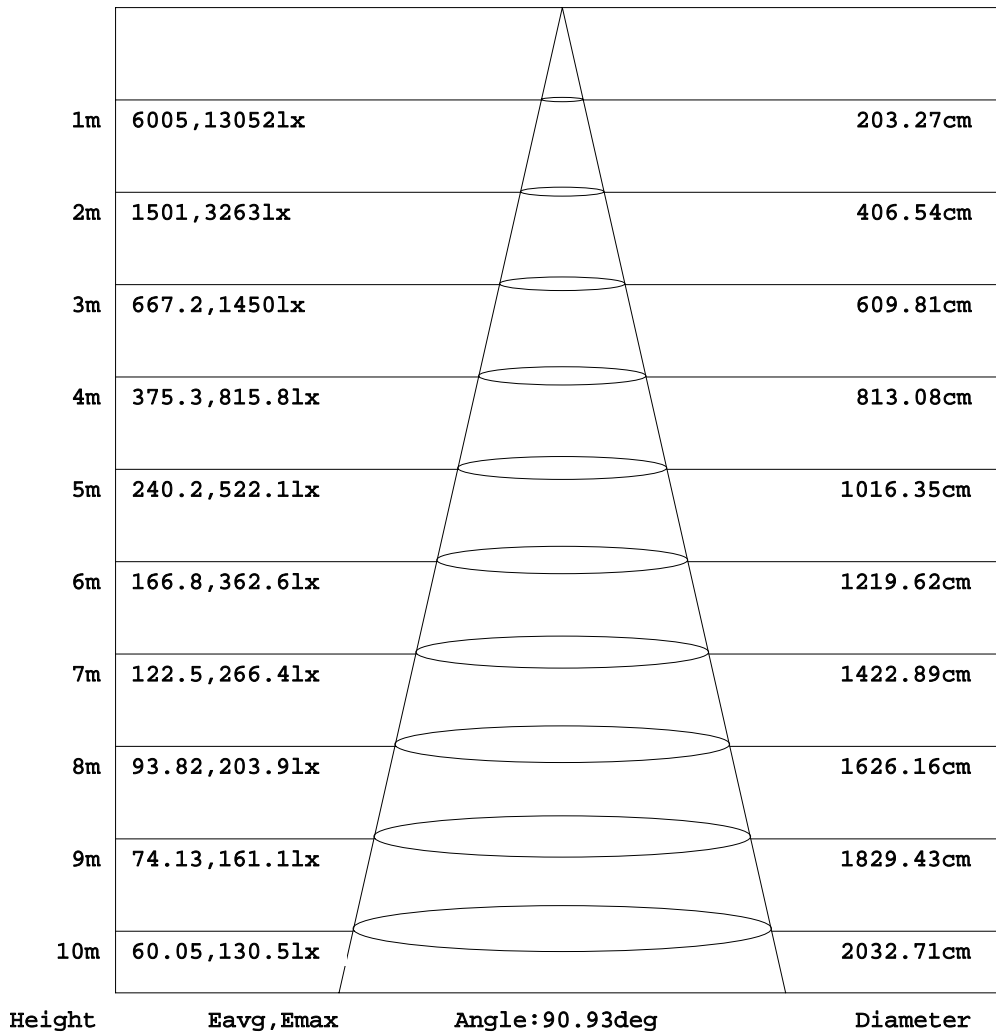
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

AAI Figure

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:20228 lm



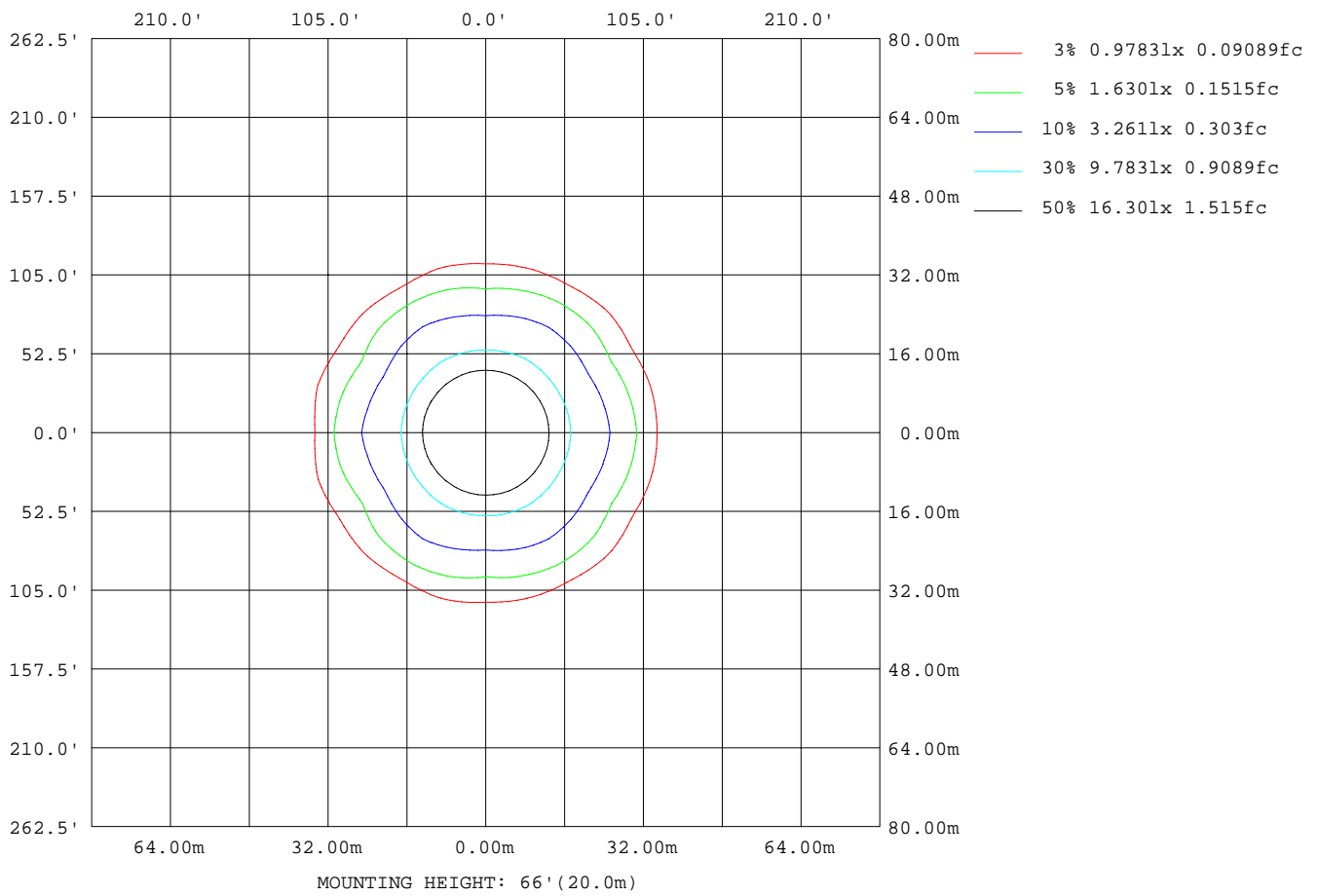
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 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: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

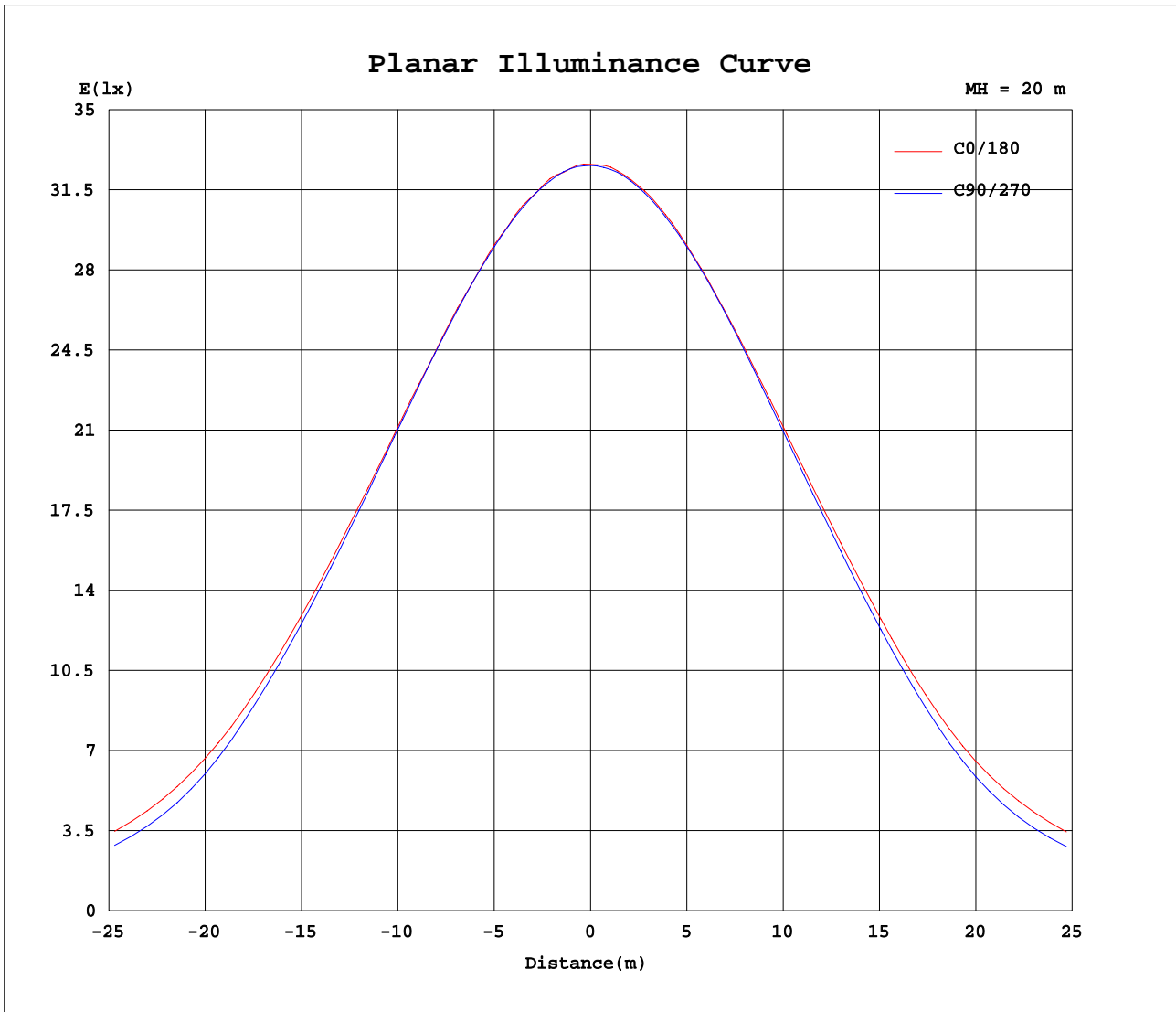
AvgL	cd/m2
L_0~180(65)av	27072
L_0~180(75)av	29275
L_0~180(85)av	32759
L_90~270(65)av	31220
L_90~270(75)av	24987
L_90~270(85)av	30024
L_45(65)av	32496
L_45(75)av	30166
L_45(85)av	30021

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1304	1304	1304	1305	1304	1304	1303	1303	1302	1302	1301	1300	1304	1304	1304	1305	1304	1304	1303
5	1301	1301	1300	1299	1300	1302	1299	1299	1301	1299	1298	1298	1301	1300	1301	1301	1301	1300	1299
10	1290	1291	1287	1289	1289	1289	1287	1290	1286	1287	1287	1286	1290	1289	1290	1288	1289	1288	1286
15	1269	1270	1268	1272	1268	1266	1266	1267	1267	1266	1266	1265	1269	1269	1269	1268	1266	1267	1267
20	1240	1241	1239	1240	1239	1237	1237	1238	1237	1235	1236	1236	1240	1239	1238	1237	1236	1237	1237
25	1199	1199	1196	1195	1193	1194	1193	1192	1191	1191	1193	1194	1199	1198	1195	1193	1190	1191	1190
30	1138	1137	1134	1131	1130	1129	1127	1127	1126	1127	1130	1133	1139	1137	1131	1127	1123	1123	1122
35	1050	1047	1039	1037	1038	1033	1029	1030	1032	1031	1035	1041	1050	1044	1035	1029	1026	1022	1020
40	922	910	894	896	905	891	881	888	896	888	885	897	912	898	882	881	886	876	865
45	754	729	700	719	738	704	677	700	730	702	679	705	739	705	678	702	723	689	662
50	588	548	505	548	576	534	490	527	574	529	470	520	582	519	474	535	570	519	481
55	448	414	375	433	447	411	371	412	448	421	352	406	458	406	360	425	439	406	367
60	317	317	302	330	310	315	306	321	299	317	307	335	312	337	310	316	290	314	300
65	211	243	230	240	200	238	227	235	182	231	241	252	177	257	240	229	181	230	221
70	159	186	164	175	149	177	155	173	136	178	151	180	118	183	151	178	138	171	152
75	134	136	119	129	127	126	111	129	126	138	96.7	137	123	138	99.1	137	126	128	109
80	102	90.3	87.7	88.3	93.0	84.4	82.8	88.5	95.9	85.5	85.0	88.8	100	91.7	84.7	81.2	92.5	85.8	81.3
85	54.3	48.8	47.6	48.5	52.4	47.1	45.6	44.8	49.1	41.1	43.2	37.2	42.7	39.1	41.6	40.2	46.6	41.8	43.3
90	6.79	6.52	6.25	9.39	8.27	7.75	10.2	9.81	7.07	4.69	6.18	5.84	6.17	5.64	7.26	6.63	7.40	6.99	7.20
95	0.14	0.13	0.14	0.13	0.14	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.20	0.20	0.20	0.20	0.21	0.21	0.22
100	0.19	0.20	0.19	0.18	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.26	0.30	0.36	0.30	0.28	0.26	0.26	0.26
105	0.29	0.28	0.33	0.31	0.30	0.32	0.32	0.32	0.30	0.33	0.33	0.27	0.37	0.37	0.39	0.40	0.37	0.37	0.36
110	0.36	0.34	0.43	0.40	0.45	0.47	0.43	0.44	0.45	0.41	0.44	0.33	0.44	0.41	0.61	0.45	0.48	0.47	0.47
115	0.42	0.39	0.46	0.51	0.52	0.64	0.55	0.54	0.52	0.60	0.44	0.39	0.51	0.48	0.54	0.66	0.55	0.57	0.57
120	0.47	0.46	0.55	0.64	0.76	0.80	0.64	0.66	0.77	0.59	0.53	0.46	0.59	0.59	0.67	0.73	0.84	0.75	0.70
125	0.58	0.59	0.64	0.69	0.79	1.19	1.02	1.02	0.74	0.67	0.63	0.54	0.74	0.77	0.82	0.86	0.90	1.15	1.13
130	0.66	0.64	0.74	0.78	0.86	1.12	0.84	0.86	0.82	0.76	0.69	0.59	0.85	0.88	0.98	1.02	1.04	1.11	1.05
135	0.75	0.73	0.76	0.88	0.98	1.30	0.96	1.00	0.92	0.86	0.78	0.70	1.01	0.99	1.00	1.16	1.20	1.30	1.24
140	0.87	0.83	0.92	0.98	1.09	1.49	1.05	1.11	1.01	0.90	0.93	0.81	1.10	1.09	1.19	1.28	1.33	1.44	1.34
145	0.99	0.94	1.01	0.99	1.26	1.68	1.14	1.20	1.08	0.99	0.90	0.90	1.25	1.18	1.27	1.27	1.45	1.57	1.46
150	1.07	1.02	1.03	1.14	1.27	1.56	1.14	1.11	1.11	1.16	0.99	0.95	1.30	1.28	1.34	1.47	1.43	1.52	1.44
155	1.21	1.22	1.15	1.29	1.57	1.47	1.28	1.30	1.35	1.16	1.12	1.09	1.48	1.40	1.47	1.52	1.62	1.75	1.64
160	1.27	1.26	1.39	1.46	1.69	1.25	1.24	1.31	1.30	1.25	1.19	1.21	1.58	1.53	1.49	1.60	1.67	1.72	1.61
165	1.61	1.61	1.63	1.68	1.70	1.38	1.37	1.40	1.46	1.38	1.33	1.32	1.62	1.61	1.60	1.68	1.74	1.76	1.73
170	1.89	1.89	1.93	1.69	1.29	1.39	1.40	1.42	1.42	1.39	1.46	1.47	1.70	1.70	1.68	1.70	1.60	1.68	1.63
175	1.39	1.42	1.45	1.45	1.43	1.42	1.36	1.38	1.41	1.42	1.44	1.47	1.59	1.59	1.58	1.56	1.52	1.52	1.48
180	1.45	1.49	1.51	1.48	1.51	1.49	1.53	1.39	1.40	1.47	1.56	1.50	1.47	1.47	1.48	1.49	1.47	1.44	1.40

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.8242A P:218.20W PF:0.9968 Freq:60.00Hz Lamp Flux:29700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1303	1302	1302	1301	1300														
5	1300	1299	1297	1297	1297														
10	1288	1287	1285	1285	1287														
15	1267	1266	1267	1265	1267														
20	1236	1236	1236	1235	1237														
25	1191	1190	1190	1194	1194														
30	1123	1125	1127	1130	1135														
35	1023	1030	1032	1035	1044														
40	875	892	886	886	905														
45	687	722	707	689	723														
50	520	563	540	496	542														
55	399	433	425	371	409														
60	306	300	323	298	316														
65	232	198	234	228	242														
70	173	150	172	165	187														
75	123	127	127	119	137														
80	82.5	92.8	88.0	88.5	90.3														
85	45.4	51.2	48.1	47.9	49.2														
90	8.03	9.14	8.60	7.48	8.30														
95	0.21	0.21	0.21	0.21	0.21														
100	0.26	0.27	0.28	0.28	0.33														
105	0.38	0.37	0.41	0.43	0.39														
110	0.50	0.49	0.47	0.53	0.45														
115	0.66	0.57	0.64	0.53	0.51														
120	0.86	0.80	0.69	0.66	0.61														
125	1.26	0.88	0.82	0.80	0.74														
130	1.32	1.06	0.98	0.89	0.87														
135	1.57	1.22	1.14	1.06	1.03														
140	1.79	1.40	1.20	1.25	1.12														
145	2.01	1.54	1.35	1.30	1.23														
150	1.72	1.65	1.55	1.42	1.33														
155	1.62	2.02	1.68	1.52	1.54														
160	1.58	2.03	1.96	1.76	1.61														
165	1.66	1.61	2.18	1.99	1.95														
170	1.62	1.60	1.56	2.03	2.18														
175	1.50	1.55	1.52	1.58	1.56														
180	1.34	1.37	1.43	1.47	1.48														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 28 October 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 46.5%
 Test Distance: 2.500m [K=1.0405]
 Remarks: