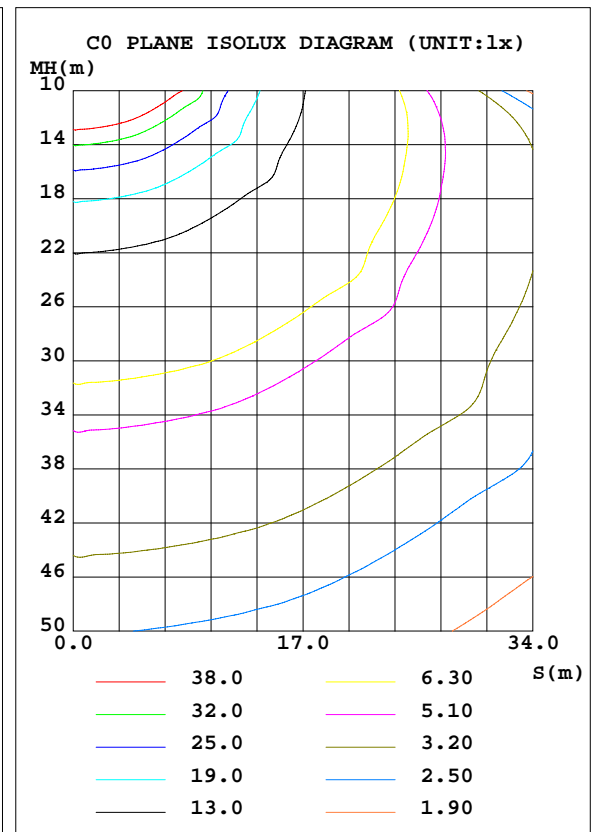
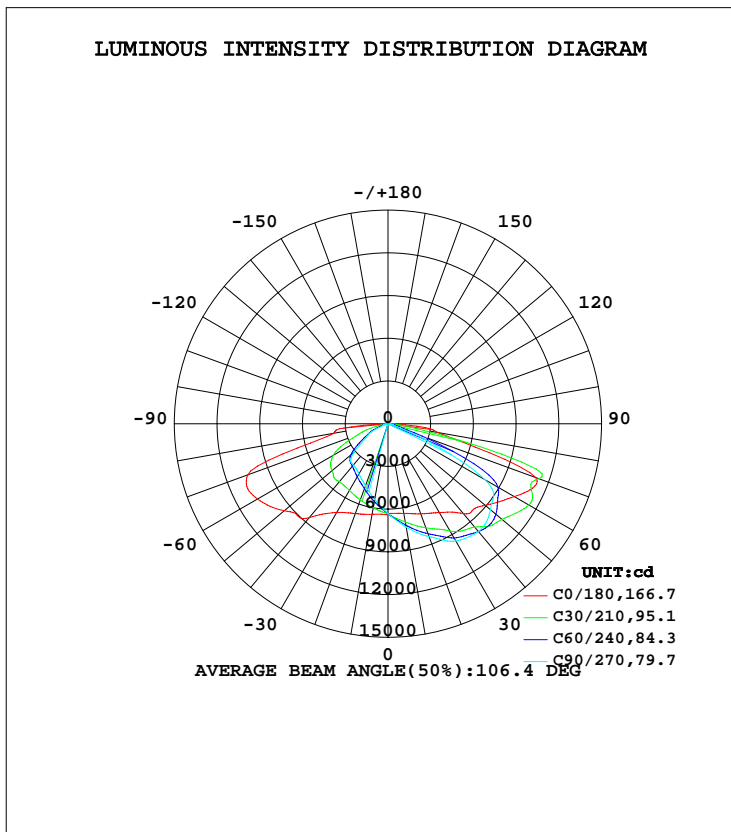


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:2.0102A P:240.21W PF:0.9958 Freq:60.00Hz Lamp Flux:31680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-240D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.31 lm/W			
MODEL ASD-LSB2-240D50B-PRM		I _{max} (cd)	13520	S/MH(C0/180)	2.02
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	0.96
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	31680	η UP, DN(C0-180)	0.1,65.8
NOMINAL FLUX(lm)	31680	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,34.0
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	99.8	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	638.9	709.9	736.8	722.6	645.9	572.2	540.8	578.0	0- 10	610.3	610.3	1.89,1.89
20	673.8	797.7	843.7	809.1	670.9	517.8	464.2	525.3	10- 20	1855	2465	7.64,7.64
30	720.4	899.7	951.5	922.9	719.6	469.5	408.5	477.5	20- 30	3142	5607	17.4,17.4
40	824.0	969.1	988.1	1001	861.0	434.6	379.2	440.6	30- 40	4490	10097	31.3,31.3
50	891.9	1034	939.3	1055	950.6	378.2	311.5	396.9	40- 50	5782	15879	49.2,49.2
60	1024	995.2	788.1	1011	1058	240.4	164.3	287.3	50- 60	6525	22404	69.4,69.4
70	1104	693.8	118.3	514.2	1047	102.4	35.67	137.2	60- 70	6030	28434	88.1,88.1
80	357.2	76.20	28.38	68.46	389.9	27.09	18.46	35.65	70- 80	3173	31607	98,98
90	9.243	5.822	3.951	2.410	7.846	1.106	0.1352	2.644	80- 90	608.0	32215	99.8,99.8
100	0.4402	0.1320	0.0732	0.2021	0.8889	0.6445	0.3659	0.6941	90-100	14.75	32230	99.9,99.9
110	0.5373	0.1793	0.1151	0.2971	0.8748	0.7337	0.5398	0.7764	100-110	5.034	32235	99.9,99.9
120	0.6398	0.2446	0.1776	0.3553	0.8166	0.7987	0.6988	0.7928	110-120	5.280	32240	99.9,99.9
130	0.7533	0.3238	0.2672	0.4186	0.8788	0.9884	0.9247	0.9805	120-130	5.669	32246	99.9,99.9
140	0.7087	0.4182	0.3797	0.4998	0.8840	1.051	1.076	1.049	130-140	5.704	32252	100,100
150	0.6257	0.5057	0.5033	0.5653	0.9006	1.066	1.157	1.053	140-150	4.891	32256	100,100
160	0.6698	0.6181	0.6625	0.6845	0.9460	1.043	1.157	1.097	150-160	3.853	32260	100,100
170	0.7485	0.7507	0.8243	0.8018	0.9381	0.9564	1.001	1.048	160-170	2.483	32263	100,100
180	0.9142	0.9142	0.9142	0.9142	0.9063	0.9063	0.9063	0.9063	170-180	0.8569	32264	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 12854 lm

%lum = 39.8%

%lamp = 39.8%

Conical surface Flux(120deg): 22404 lm

%lum = 69.4%

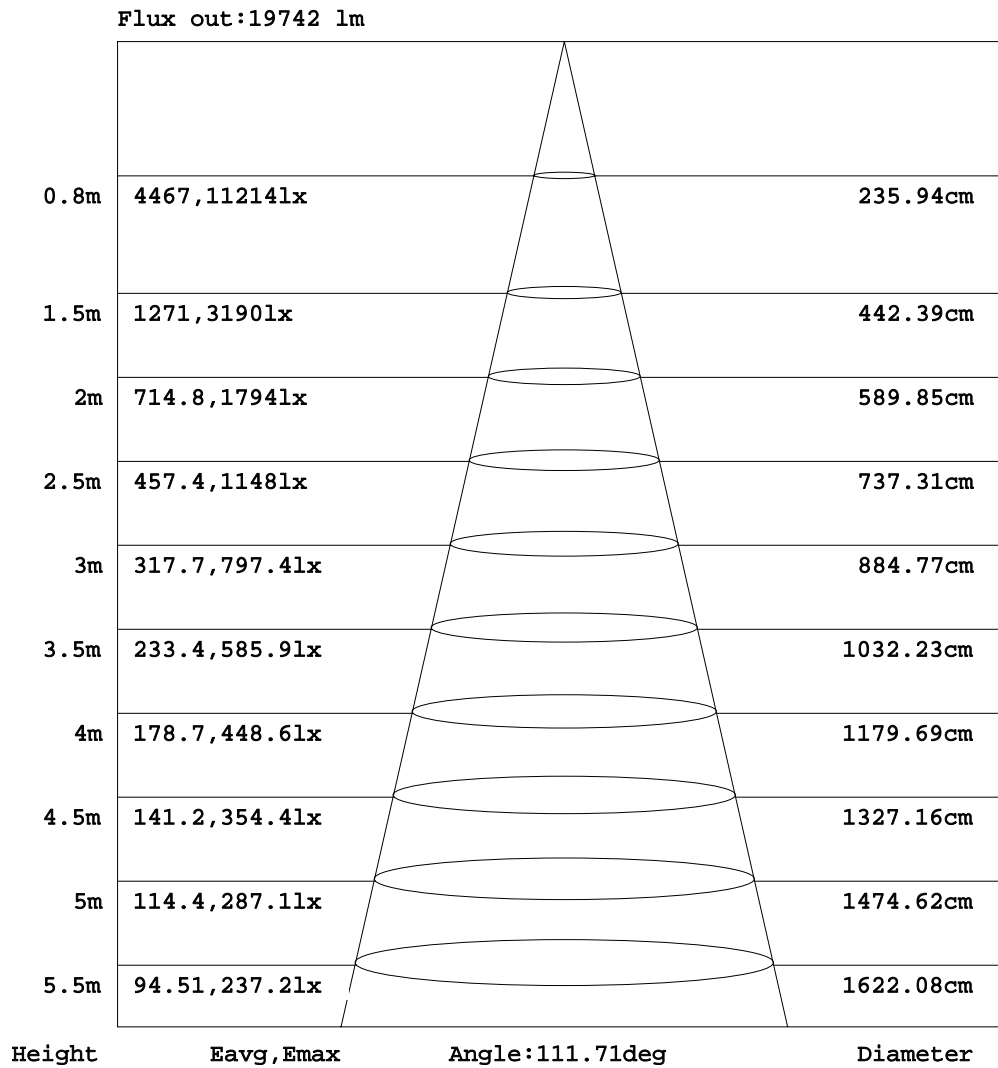
%lamp = 69.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

AAI Figure

Test:U:120.00V I:2.0102A P:240.21W PF:0.9958 Freq:60.00Hz Lamp Flux:31680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-240D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



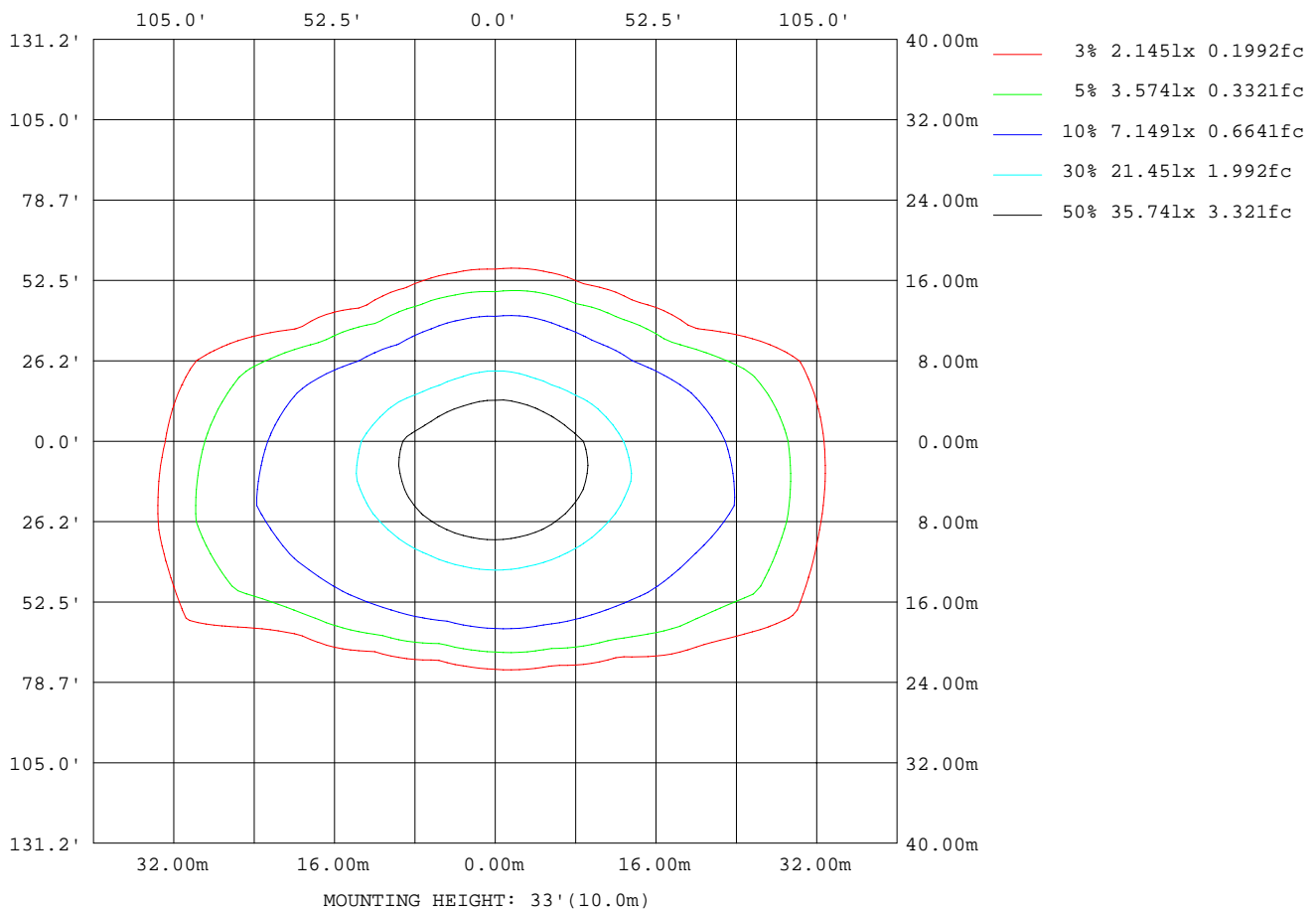
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:2.0102A P:240.21W PF:0.9958 Freq:60.00Hz Lamp Flux:31680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-240D50B-PRM	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: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:2.0102A P:240.21W PF:0.9958 Freq:60.00Hz Lamp Flux:31680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-240D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

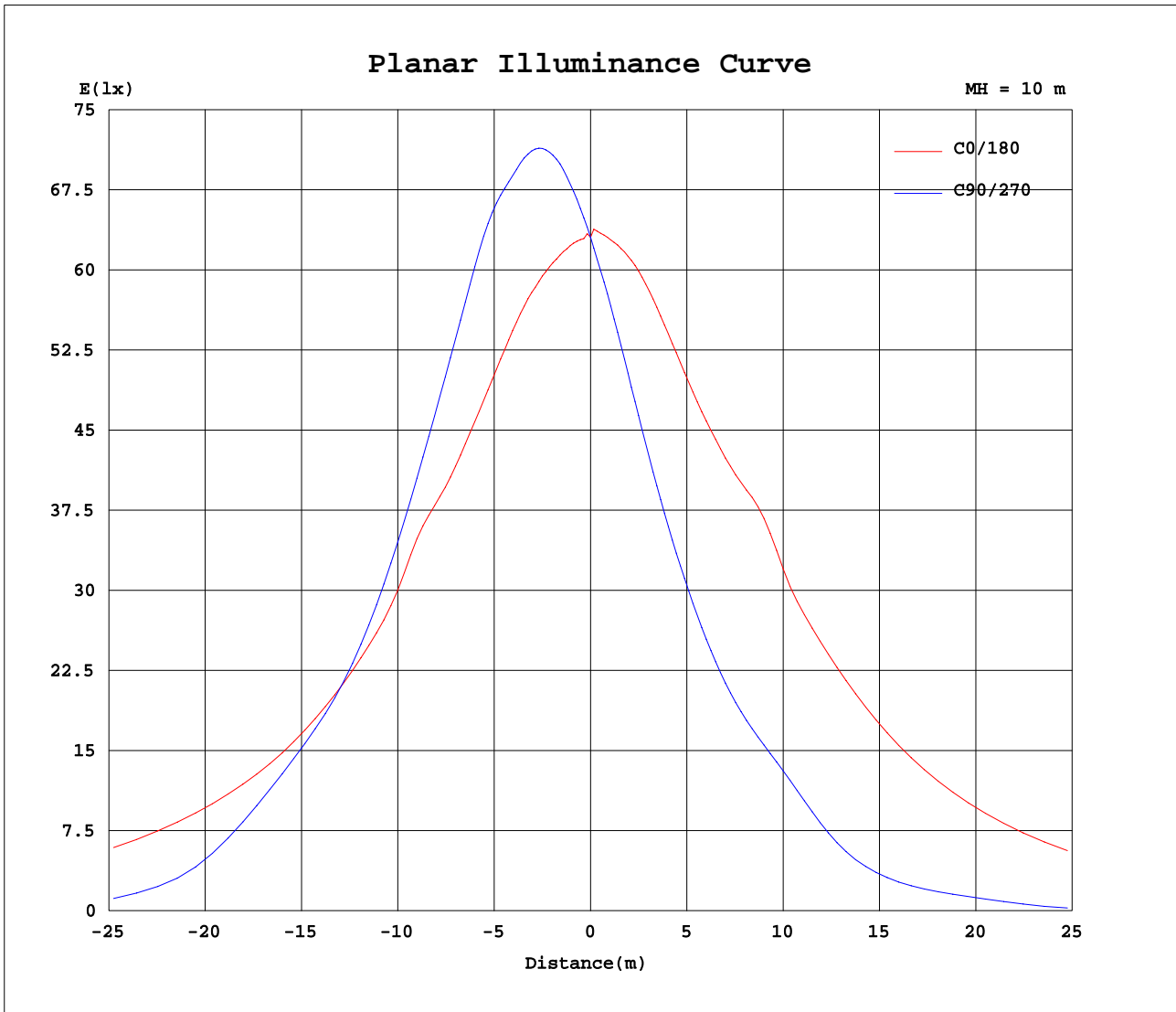
AvgL	cd/m2
L_0~180(65)av	307843
L_0~180(75)av	297874
L_0~180(85)av	316081
L_90~270(65)av	73404
L_90~270(75)av	16774
L_90~270(85)av	13631
L_45(65)av	155897
L_45(75)av	47184
L_45(85)av	28492

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:2.0102A P:240.21W PF:0.9958 Freq:60.00Hz Lamp Flux:31680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-240D50B-PRM	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	631	631	631	631	631	631	631	631	631	631	631	631	631	631	631	631	631	631	631
5	632	650	666	670	675	679	681	688	685	679	661	648	638	628	616	601	592	587	585
10	639	673	701	710	723	733	737	742	734	723	695	670	646	621	599	572	556	545	541
15	654	702	739	754	774	787	792	796	782	766	730	695	658	619	584	544	519	505	500
20	674	732	777	798	821	838	844	845	828	809	764	719	671	618	569	518	486	469	464
25	694	763	816	843	871	892	900	904	883	858	802	749	689	620	555	492	456	440	434
30	720	803	870	900	927	943	951	955	941	923	859	793	720	627	542	470	431	414	408
35	757	871	917	939	956	967	975	980	973	959	927	874	771	643	533	452	408	391	388
40	824	921	948	969	988	987	988	998	1006	1001	967	956	861	677	532	435	390	379	379
45	849	955	1015	1015	1006	982	977	988	1019	1051	1044	1003	905	739	536	408	375	370	371
50	892	1020	1045	1034	989	945	939	943	990	1055	1078	1061	951	742	513	378	340	319	311
55	955	1112	1096	1023	940	907	904	901	933	1034	1119	1141	1011	772	492	330	262	232	220
60	1024	1224	1143	995	892	819	788	773	879	1011	1164	1219	1058	794	445	240	185	170	164
65	1100	1345	1113	935	666	458	406	389	602	920	1171	1318	1085	803	346	162	136	123	115
70	1104	1273	1129	694	255	143	118	109	204	514	1113	1320	1047	764	225	102	69.2	40.3	35.7
75	635	651	824	166	79.2	47.9	42.0	43.6	69.8	128	1042	832	660	688	135	49.3	36.2	30.3	30.9
80	357	315	212	76.2	40.9	29.6	28.4	27.4	37.7	68.5	358	331	390	365	44.4	27.1	21.3	22.2	18.5
85	204	127	61.6	36.3	20.1	16.6	16.1	14.2	16.9	23.3	102	162	259	43.8	18.1	8.32	7.15	5.55	3.82
90	9.24	9.30	5.31	5.82	4.78	4.78	3.95	3.15	3.16	2.41	10.00	12.5	7.85	7.59	3.97	1.11	0.49	0.16	0.14
95	1.87	0.79	0.40	0.38	0.29	0.32	0.38	0.11	0.10	0.20	0.85	1.59	3.20	3.00	1.41	0.58	0.37	0.26	0.24
100	0.44	0.35	0.24	0.13	0.08	0.08	0.07	0.08	0.12	0.20	0.28	0.39	0.89	0.99	0.76	0.64	0.51	0.40	0.37
105	0.49	0.39	0.27	0.16	0.10	0.09	0.09	0.11	0.16	0.25	0.35	0.45	0.91	0.91	0.81	0.71	0.63	0.51	0.48
110	0.54	0.43	0.30	0.18	0.12	0.11	0.12	0.13	0.19	0.30	0.41	0.52	0.87	0.88	0.81	0.73	0.68	0.59	0.54
115	0.59	0.46	0.33	0.20	0.15	0.14	0.14	0.17	0.23	0.34	0.45	0.57	0.84	0.86	0.81	0.75	0.72	0.66	0.60
120	0.64	0.52	0.38	0.24	0.18	0.18	0.18	0.21	0.27	0.36	0.50	0.63	0.82	0.86	0.82	0.80	0.80	0.74	0.70
125	0.72	0.57	0.42	0.28	0.23	0.21	0.22	0.25	0.31	0.38	0.54	0.68	0.83	0.89	0.87	0.90	0.90	0.84	0.81
130	0.75	0.60	0.45	0.32	0.27	0.26	0.27	0.30	0.35	0.42	0.56	0.72	0.88	0.96	0.95	0.99	0.97	0.95	0.92
135	0.75	0.61	0.49	0.37	0.32	0.31	0.32	0.36	0.40	0.46	0.56	0.72	0.90	0.99	1.01	1.03	1.02	1.02	1.01
140	0.71	0.61	0.51	0.42	0.38	0.37	0.38	0.41	0.45	0.50	0.55	0.69	0.88	0.98	1.03	1.05	1.06	1.07	1.08
145	0.66	0.60	0.53	0.46	0.43	0.42	0.44	0.47	0.51	0.53	0.55	0.65	0.89	0.96	1.02	1.06	1.08	1.11	1.13
150	0.63	0.60	0.56	0.51	0.48	0.48	0.50	0.54	0.56	0.57	0.57	0.62	0.90	0.96	1.02	1.07	1.09	1.13	1.16
155	0.64	0.64	0.61	0.56	0.55	0.56	0.58	0.62	0.63	0.63	0.61	0.65	0.92	0.97	1.02	1.07	1.10	1.14	1.17
160	0.67	0.67	0.65	0.62	0.62	0.64	0.66	0.70	0.70	0.68	0.65	0.67	0.95	0.97	1.00	1.04	1.07	1.11	1.16
165	0.70	0.72	0.71	0.69	0.70	0.72	0.75	0.78	0.78	0.76	0.72	0.70	0.94	0.96	0.98	0.99	1.01	1.04	1.09
170	0.75	0.77	0.76	0.75	0.77	0.80	0.82	0.84	0.83	0.80	0.77	0.74	0.94	0.94	0.95	0.96	0.95	0.96	1.00
175	0.85	0.87	0.85	0.83	0.84	0.87	0.89	0.91	0.91	0.90	0.87	0.85	0.94	0.94	0.94	0.95	0.94	0.94	0.97
180	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:2.0102A P:240.21W PF:0.9958 Freq:60.00Hz Lamp Flux:31680x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-240D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	631	631	631	631	631														
5	593	598	607	612	619														
10	551	560	578	592	611														
15	511	525	551	576	610														
20	475	492	525	564	614														
25	444	462	501	553	620														
30	417	435	477	542	629														
35	394	412	457	535	642														
40	381	393	441	533	667														
45	376	381	422	529	710														
50	339	356	397	513	710														
55	250	285	359	493	735														
60	180	199	287	448	762														
65	141	150	197	352	792														
70	53.7	87.3	137	231	793														
75	30.5	43.8	67.2	129	687														
80	24.3	24.6	35.6	42.0	269														
85	8.78	10.0	15.6	15.1	34.5														
90	0.26	0.79	2.64	2.83	5.41														
95	0.25	0.38	0.70	1.17	2.30														
100	0.38	0.52	0.69	0.84	0.89														
105	0.50	0.63	0.76	0.86	0.91														
110	0.56	0.66	0.78	0.83	0.86														
115	0.59	0.67	0.76	0.82	0.85														
120	0.67	0.72	0.79	0.84	0.86														
125	0.78	0.82	0.87	0.92	0.91														
130	0.90	0.93	0.98	1.04	1.00														
135	0.97	0.99	1.04	1.09	1.04														
140	1.03	1.03	1.05	1.07	1.01														
145	1.09	1.06	1.04	1.04	0.98														
150	1.12	1.09	1.05	1.04	0.97														
155	1.16	1.12	1.08	1.05	0.98														
160	1.17	1.15	1.10	1.06	0.99														
165	1.12	1.12	1.09	1.04	0.97														
170	1.04	1.06	1.05	1.01	0.94														
175	1.00	1.01	1.00	0.96	0.90														
180	0.91	0.91	0.91	0.91	0.91														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 18 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.4%
 Test Distance: 2.500m [K=1.0469]
 Remarks: