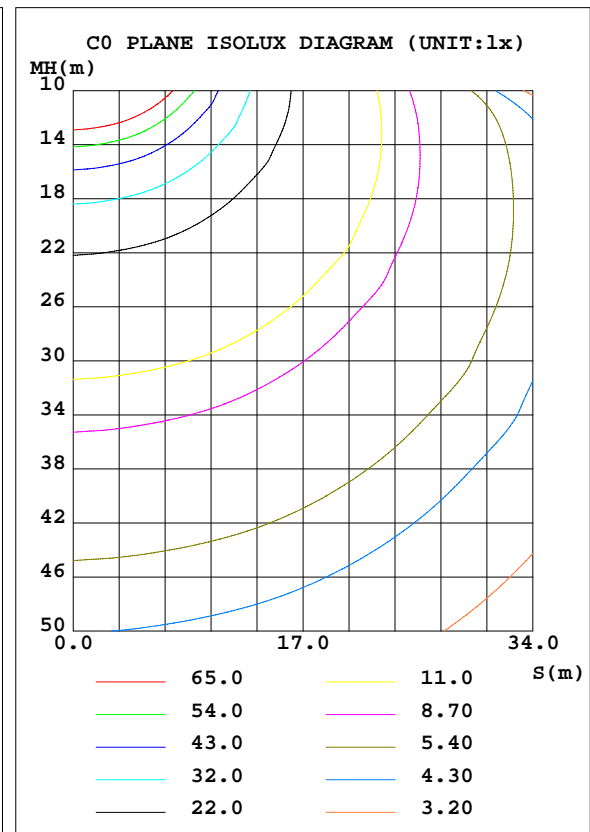
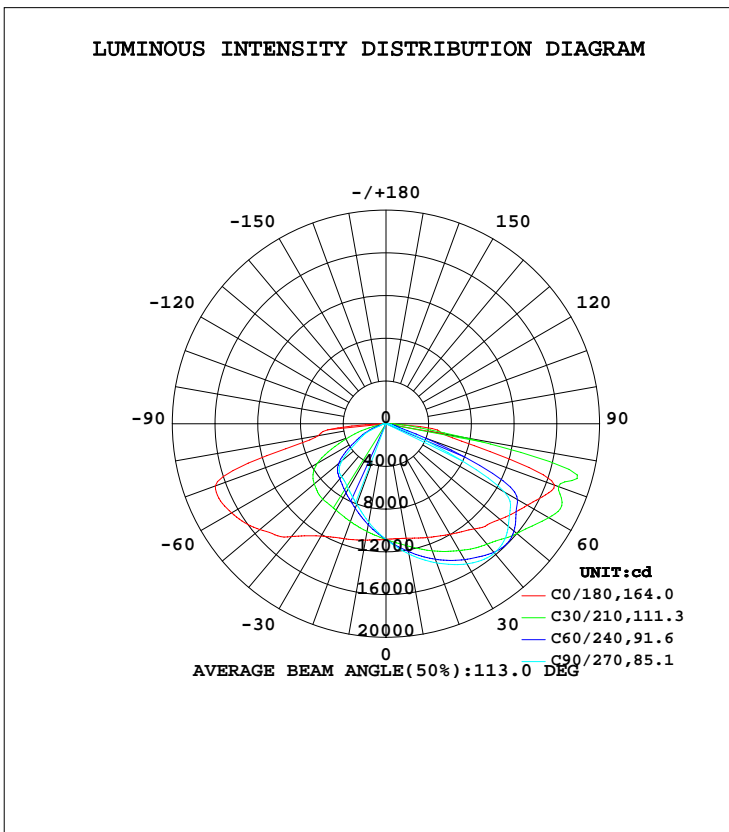


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.96 lm/W			
MODEL	ASD-LSB2HV-400D50B-PRM	I <sub>max</sub> (cd)	22032	S/MH(C0/180)	1.94
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	277-480	TOTAL FLUX(lm)	67721	η UP, DN(C0-180)	0.1,65.7
NOMINAL FLUX(lm)	67721	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,34.2
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	277	η down(%)	99.9	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 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	1089	1191	1238	1202	1106	988.8	936.6	978.9	0- 10	1038	1038	1.96,1.96
20	1133	1313	1386	1325	1146	897.2	802.4	887.8	10- 20	3123	4161	7.86,7.86
30	1196	1430	1515	1447	1215	817.8	704.8	806.1	20- 30	5210	9371	17.7,17.7
40	1285	1532	1579	1568	1380	752.3	647.2	736.6	30- 40	7302	16672	31.5,31.5
50	1393	1625	1494	1692	1541	650.9	538.5	646.5	40- 50	9283	25955	49,49
60	1527	1571	1281	1649	1669	438.3	284.6	429.1	50- 60	10423	36379	68.7,68.7
70	1678	1195	141.2	1255	1700	189.1	71.29	189.6	60- 70	9774	46152	87.2,87.2
80	539.2	128.3	43.46	135.8	644.1	42.12	34.30	42.36	70- 80	5632	51785	97.8,97.8
90	9.772	6.822	3.091	6.559	37.54	1.855	0.2077	1.577	80- 90	1074	52858	99.9,99.9
100	0.7140	0.2197	0.1140	0.2857	1.346	1.044	0.5723	1.232	90-100	18.76	52877	99.9,99.9
110	0.7856	0.3020	0.1809	0.4481	1.244	1.167	0.8567	1.274	100-110	7.870	52885	99.9,99.9
120	0.9575	0.3816	0.2738	0.5600	1.211	1.270	1.025	1.259	110-120	8.027	52893	99.9,99.9
130	1.094	0.4969	0.3793	0.6536	1.334	1.472	1.350	1.363	120-130	8.489	52902	100,100
140	1.002	0.6201	0.5219	0.7361	1.249	1.553	1.433	1.418	130-140	8.230	52910	100,100
150	0.8837	0.7225	0.6720	0.8010	1.206	1.426	1.431	1.356	140-150	6.735	52917	100,100
160	0.9560	0.8511	0.8091	0.9689	1.294	1.394	1.347	1.336	150-160	5.067	52922	100,100
170	1.066	1.065	1.009	1.131	1.313	1.320	1.228	1.207	160-170	3.281	52925	100,100
180	1.100	1.100	1.100	1.100	1.130	1.130	1.130	1.130	170-180	1.141	52926	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 21101 lm

%lum = 39.9%

%lamp = 39.9%

Conical surface Flux(120deg): 36379 lm

%lum = 68.7%

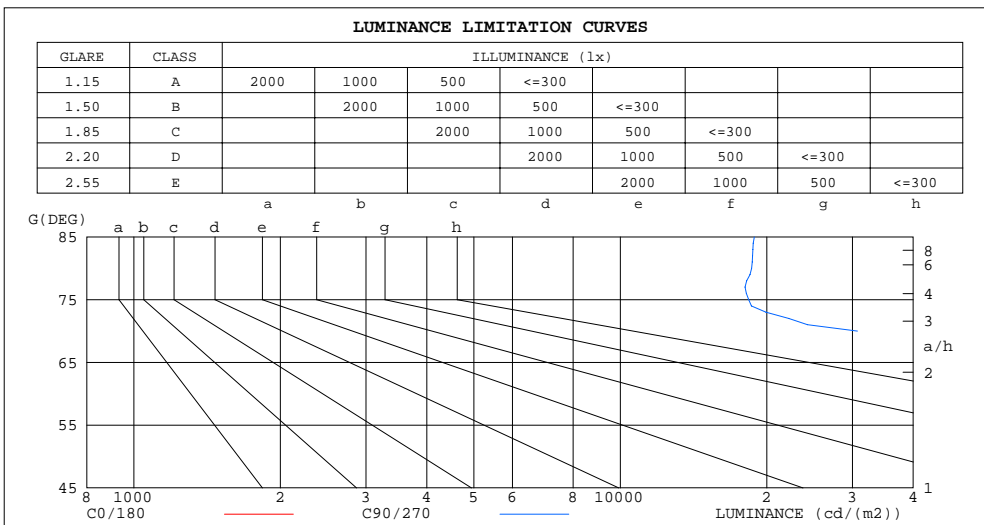
%lamp = 68.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	277611	18856
80	231035	18621
75	290621	18359
70	365081	30719
65	284671	112874
60	227239	190587
55	189233	184008
50	161246	172954
45	141077	164017

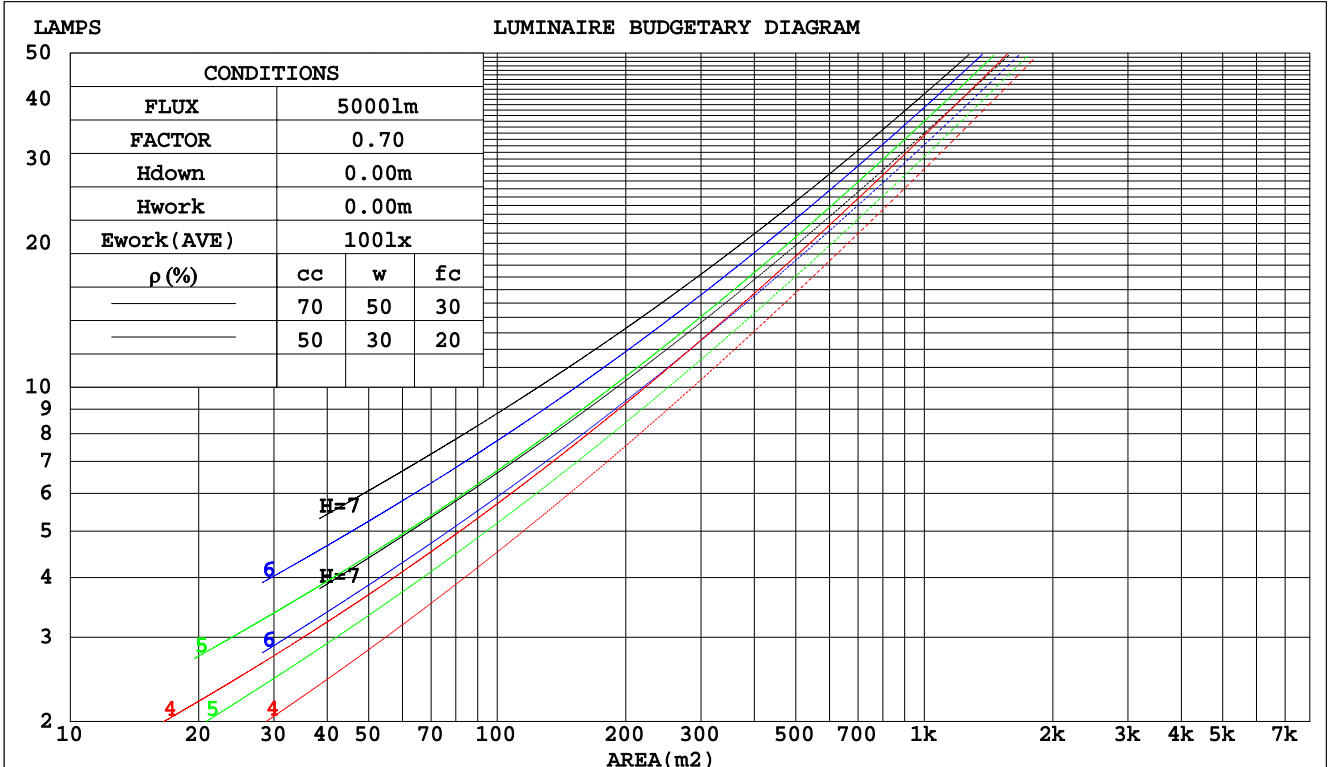
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	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																0
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	1.02	.97	.92	.99	.95	.91	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80
2.0	.86	.78	.72	.84	.77	.71	.81	.74	.69	.77	.72	.68	.74	.70	.66	.64
3.0	.74	.65	.57	.72	.64	.57	.69	.62	.56	.66	.60	.55	.64	.58	.54	.51
4.0	.64	.54	.47	.63	.54	.46	.60	.52	.46	.58	.51	.45	.55	.49	.44	.42
5.0	.56	.46	.39	.55	.46	.39	.53	.45	.38	.51	.44	.38	.49	.42	.37	.35
6.0	.50	.40	.33	.49	.40	.33	.47	.39	.33	.45	.38	.32	.44	.37	.32	.30
7.0	.45	.35	.29	.44	.35	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.25
8.0	.40	.31	.25	.40	.31	.25	.38	.30	.25	.37	.30	.24	.36	.29	.24	.22
9.0	.37	.28	.22	.36	.28	.22	.35	.27	.22	.34	.27	.22	.33	.26	.21	.19
10.0	.34	.25	.20	.33	.25	.20	.32	.25	.19	.31	.24	.19	.30	.24	.19	.17



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

WEC AND CCEC

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	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	.353	.201	.064	.346	.197	.063	.333	.191	.061	.320	.185	.059	.309	.179	.058	
2.0	.332	.182	.056	.326	.179	.055	.313	.174	.054	.302	.170	.053	.292	.165	.052	
3.0	.305	.162	.049	.299	.160	.048	.288	.156	.047	.278	.152	.047	.269	.149	.046	
4.0	.278	.145	.043	.273	.143	.042	.263	.140	.042	.255	.137	.041	.246	.134	.041	
5.0	.255	.130	.038	.250	.128	.037	.242	.126	.037	.234	.123	.037	.226	.121	.036	
6.0	.234	.117	.034	.230	.116	.033	.223	.114	.033	.215	.112	.033	.209	.110	.033	
7.0	.216	.107	.030	.213	.106	.030	.206	.104	.030	.199	.102	.030	.193	.100	.030	
8.0	.201	.098	.028	.197	.097	.027	.191	.096	.027	.186	.094	.027	.180	.092	.027	
9.0	.187	.090	.025	.184	.090	.025	.179	.088	.025	.173	.087	.025	.168	.086	.025	
10.0	.175	.084	.023	.172	.083	.023	.167	.082	.023	.163	.081	.023	.158	.080	.023	

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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.184	.157	.132	.158	.135	.114	.108	.093	.079	.062	.054	.046	.020	.017	.015	
2.0	.179	.133	.094	.153	.114	.081	.105	.079	.057	.060	.046	.033	.019	.015	.011	
3.0	.172	.116	.070	.148	.100	.061	.101	.069	.043	.059	.040	.025	.019	.013	.008	
4.0	.165	.103	.055	.142	.089	.048	.097	.062	.034	.056	.036	.020	.018	.012	.007	
5.0	.158	.093	.045	.135	.080	.039	.093	.056	.027	.054	.033	.016	.017	.011	.005	
6.0	.150	.084	.037	.129	.073	.032	.089	.051	.023	.052	.030	.014	.017	.010	.004	
7.0	.143	.078	.032	.123	.067	.028	.085	.047	.020	.049	.028	.012	.016	.009	.004	
8.0	.136	.072	.028	.117	.062	.024	.081	.044	.017	.047	.026	.010	.015	.008	.003	
9.0	.130	.067	.025	.112	.058	.022	.077	.041	.015	.045	.024	.009	.015	.008	.003	
10.0	.123	.063	.022	.106	.054	.019	.074	.038	.014	.043	.023	.008	.014	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-LSB2HV-400D50B-PRM					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	33.5	35.3	33.8	35.6	35.9	32.0	33.8	32.3	34.1	34.4
3H	37.9	39.6	38.3	39.9	40.3	32.1	33.8	32.5	34.1	34.5
4H	39.2	40.8	39.6	41.1	41.5	32.1	33.7	32.5	34.0	34.4
6H	39.6	41.0	40.0	41.4	41.8	32.1	33.5	32.5	33.9	34.3
8H	39.7	41.1	40.1	41.5	41.9	32.0	33.4	32.5	33.8	34.2
12H	39.9	41.2	40.3	41.6	42.0	32.0	33.4	32.5	33.7	34.2
4H 2H	34.4	35.9	34.7	36.3	36.6	33.5	35.1	33.9	35.4	35.8
3H	38.9	40.2	39.3	40.6	41.0	33.7	35.1	34.1	35.4	35.8
4H	40.7	41.9	41.1	42.3	42.7	33.7	34.9	34.1	35.3	35.7
6H	41.2	42.3	41.6	42.7	43.1	33.7	34.7	34.1	35.2	35.6
8H	41.3	42.3	41.8	42.8	43.2	33.7	34.7	34.1	35.1	35.6
12H	41.5	42.4	42.0	42.9	43.3	33.7	34.6	34.1	35.0	35.5
8H 4H	40.8	41.8	41.3	42.2	42.7	35.0	36.0	35.5	36.4	36.9
6H	41.5	42.3	42.0	42.8	43.3	35.0	35.8	35.5	36.3	36.8
8H	41.7	42.4	42.2	42.9	43.4	35.0	35.7	35.5	36.2	36.7
12H	41.9	42.6	42.4	43.1	43.6	35.0	35.6	35.5	36.1	36.7
12H 4H	40.8	41.7	41.3	42.2	42.6	35.4	36.3	35.9	36.7	37.2
6H	41.5	42.2	42.0	42.7	43.2	35.4	36.1	35.9	36.6	37.1
8H	41.7	42.3	42.2	42.8	43.4	35.4	36.0	35.9	36.5	37.1
CIE190: 2010										

CIE190: 2010  
Area: 0.1344 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 16 August 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 50.3%  
Test Distance: 2.500m [K=1.0473]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

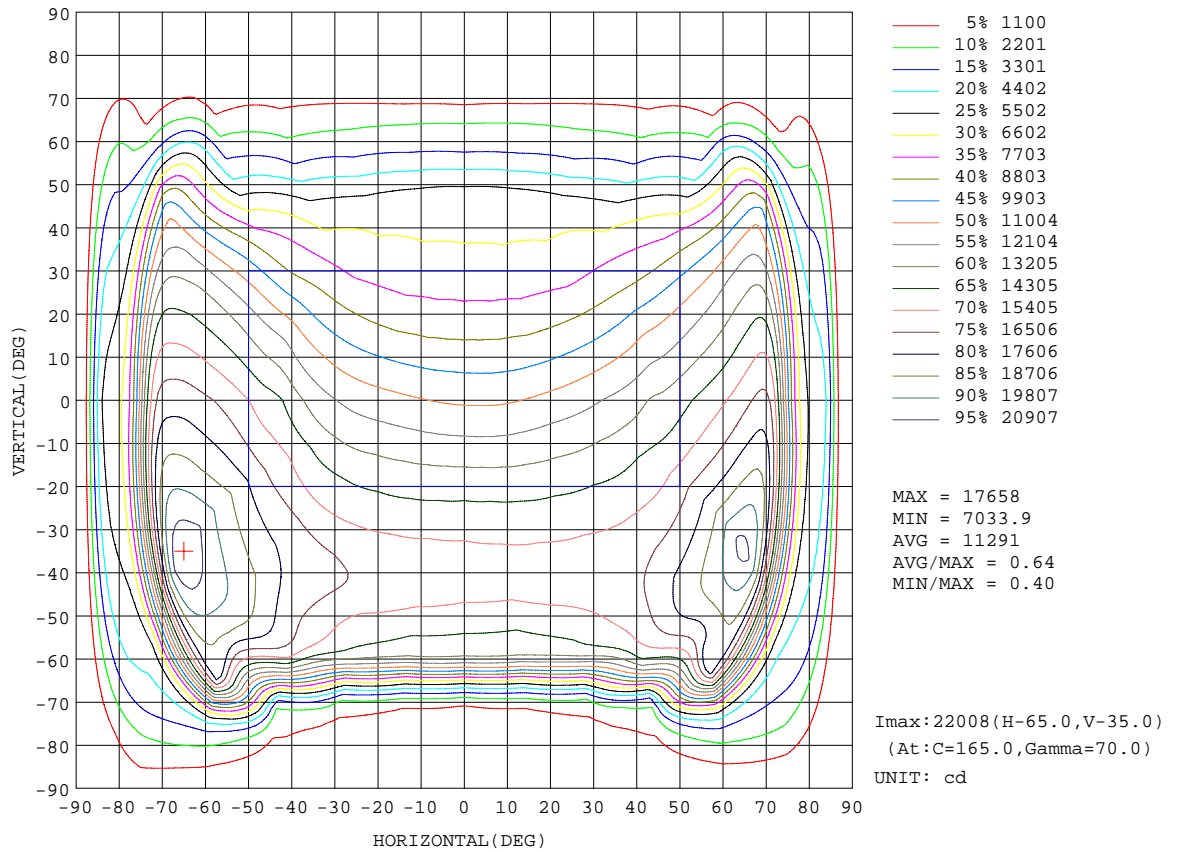
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	47	38	57	46	38	30
1.00	69	56	48	68	56	48	65	57	47	39
1.25	77	64	56	75	64	56	72	62	55	47
1.50	82	71	63	80	70	62	77	68	61	52
2.00	90	80	73	88	79	72	85	77	70	62
2.50	95	86	79	93	85	78	89	82	76	67
3.00	99	91	85	97	89	84	92	86	81	72
4.00	104	97	92	101	96	91	97	92	88	78
5.00	107	101	97	104	99	95	100	96	92	82
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: 16 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-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: 16 August 2021

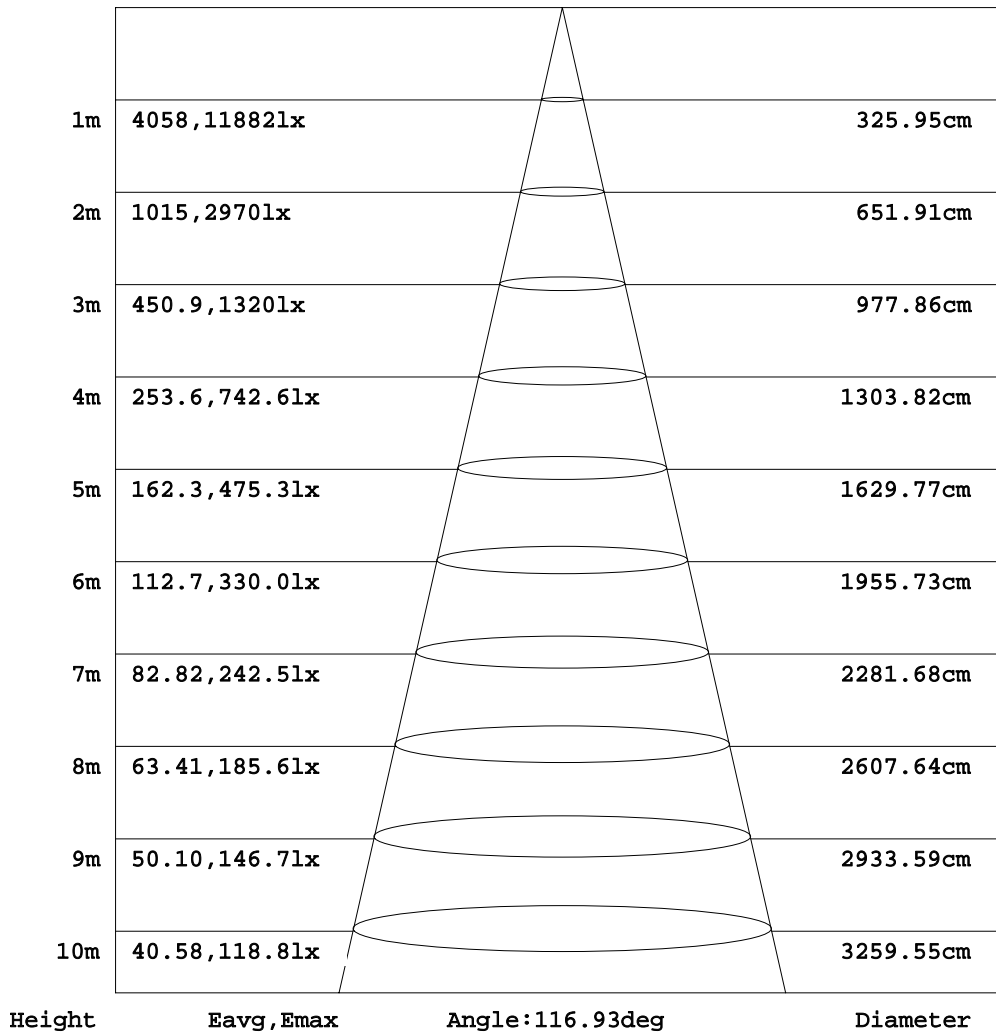
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:



AAI Figure

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:35313 lm



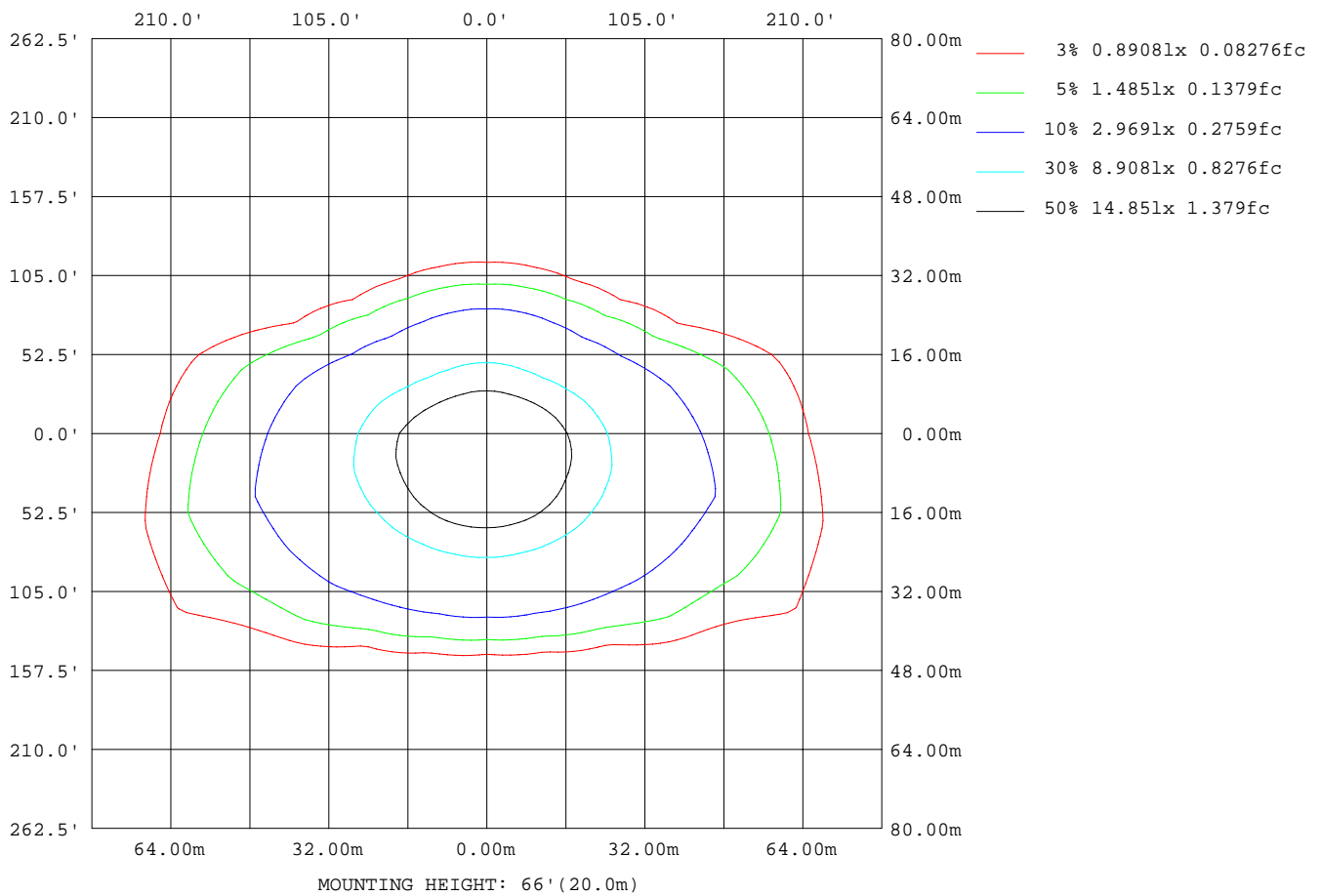
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

ISOLUX DIAGRAM

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-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: 16 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

## LED Avg.L Report

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

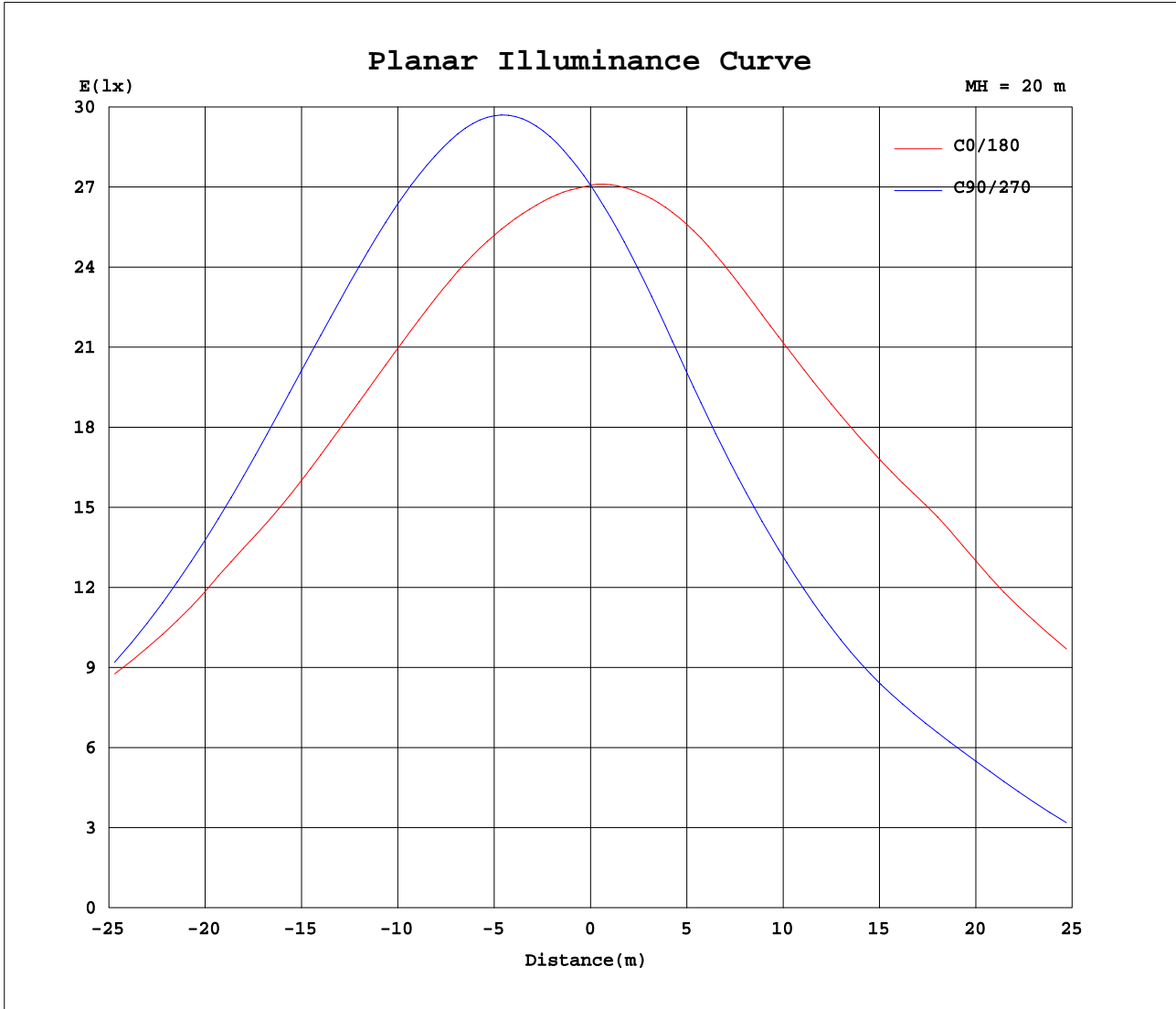
AvgL	cd/m2
L_0~180(65)av	292879
L_0~180(75)av	311206
L_0~180(85)av	331459
L_90~270(65)av	74129
L_90~270(75)av	16377
L_90~270(85)av	14211
L_45(65)av	164868
L_45(75)av	60003
L_45(85)av	29926

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 16 August 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 50.3%  
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: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-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	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083	1083
5	1081	1101	1119	1134	1147	1155	1159	1157	1151	1141	1126	1109	1092	1072	1053	1036	1022	1014	1010
10	1089	1127	1162	1191	1215	1231	1238	1234	1222	1202	1175	1142	1106	1065	1025	989	961	944	937
15	1108	1165	1212	1252	1284	1305	1314	1309	1292	1264	1227	1180	1126	1063	999	942	899	875	865
20	1133	1206	1266	1313	1350	1376	1386	1379	1357	1325	1278	1217	1146	1062	975	897	843	813	802
25	1162	1250	1319	1373	1412	1441	1454	1444	1420	1384	1330	1258	1172	1066	953	856	793	761	750
30	1196	1295	1371	1430	1469	1499	1515	1507	1483	1447	1387	1311	1215	1082	935	818	749	716	705
35	1235	1345	1426	1482	1521	1548	1561	1561	1542	1508	1459	1388	1281	1114	925	785	708	676	668
40	1285	1405	1472	1532	1571	1577	1579	1595	1598	1568	1530	1493	1380	1167	921	752	673	650	647
45	1341	1466	1529	1590	1595	1563	1559	1584	1629	1644	1625	1593	1471	1224	905	707	640	624	621
50	1393	1542	1599	1625	1564	1500	1494	1522	1598	1692	1718	1692	1541	1253	877	651	579	550	539
55	1459	1658	1670	1611	1486	1420	1418	1437	1511	1677	1795	1821	1615	1283	835	570	464	415	394
60	1527	1803	1760	1571	1422	1318	1281	1330	1450	1649	1875	1944	1669	1292	743	438	331	299	285
65	1617	2001	1815	1523	1101	737	641	751	1155	1639	1937	2087	1710	1275	564	292	237	214	201
70	1678	2122	1718	1195	397	202	141	200	423	1255	1867	2203	1700	1204	371	189	139	93.0	71.3
75	1011	1593	1854	308	118	69.2	63.9	71.1	122	353	1864	1719	1154	1054	203	88.4	64.2	48.4	50.1
80	539	549	748	128	59.5	44.8	43.5	45.6	62.4	136	930	586	644	380	55.8	42.1	36.4	38.0	34.3
85	325	282	205	52.1	26.3	22.6	22.1	23.2	28.3	59.1	223	339	451	45.4	19.9	15.6	14.7	13.6	11.2
90	9.77	29.2	21.4	6.82	3.55	3.61	3.09	3.72	5.47	6.56	27.5	60.3	37.5	5.03	3.23	1.86	1.26	0.29	0.21
95	0.63	0.46	0.31	0.17	0.10	0.09	0.09	0.10	0.13	0.23	0.85	0.49	1.22	1.31	1.14	0.89	0.60	0.41	0.37
100	0.71	0.54	0.38	0.22	0.13	0.12	0.11	0.13	0.18	0.29	0.43	0.59	1.35	1.40	1.26	1.04	0.82	0.62	0.57
105	0.73	0.59	0.43	0.27	0.17	0.15	0.15	0.16	0.24	0.37	0.52	0.67	1.31	1.32	1.26	1.15	1.01	0.81	0.76
110	0.79	0.64	0.46	0.30	0.20	0.18	0.18	0.21	0.30	0.45	0.61	0.75	1.24	1.24	1.21	1.17	1.07	0.91	0.86
115	0.86	0.71	0.51	0.33	0.24	0.22	0.22	0.26	0.36	0.51	0.68	0.82	1.19	1.19	1.20	1.21	1.10	0.96	0.92
120	0.96	0.77	0.56	0.38	0.29	0.27	0.27	0.31	0.42	0.56	0.75	0.90	1.21	1.26	1.26	1.27	1.18	1.06	1.02
125	1.08	0.82	0.61	0.44	0.35	0.32	0.33	0.37	0.48	0.61	0.78	0.96	1.27	1.39	1.34	1.37	1.32	1.25	1.20
130	1.09	0.85	0.64	0.50	0.43	0.38	0.38	0.43	0.53	0.65	0.81	0.99	1.33	1.48	1.48	1.47	1.43	1.40	1.35
135	1.08	0.88	0.69	0.55	0.50	0.45	0.45	0.51	0.60	0.69	0.83	0.99	1.33	1.47	1.56	1.54	1.49	1.50	1.45
140	1.00	0.88	0.73	0.62	0.56	0.52	0.52	0.58	0.65	0.74	0.82	0.96	1.25	1.39	1.48	1.55	1.52	1.50	1.43
145	0.92	0.86	0.76	0.67	0.63	0.61	0.60	0.65	0.72	0.77	0.82	0.91	1.21	1.33	1.41	1.49	1.52	1.50	1.45
150	0.88	0.85	0.79	0.72	0.69	0.68	0.67	0.71	0.77	0.80	0.82	0.87	1.21	1.29	1.35	1.43	1.46	1.48	1.43
155	0.90	0.90	0.87	0.79	0.76	0.76	0.74	0.80	0.86	0.88	0.90	0.91	1.23	1.25	1.35	1.39	1.41	1.44	1.39
160	0.96	0.96	0.92	0.85	0.83	0.83	0.81	0.89	0.95	0.97	0.98	0.99	1.29	1.30	1.33	1.39	1.38	1.40	1.35
165	0.99	1.02	1.00	0.97	0.94	0.94	0.91	1.00	1.07	1.08	1.06	1.05	1.30	1.31	1.32	1.35	1.37	1.36	1.30
170	1.07	1.09	1.09	1.07	1.03	1.03	1.01	1.07	1.14	1.13	1.11	1.10	1.31	1.31	1.32	1.32	1.31	1.30	1.23
175	1.19	1.19	1.18	1.15	1.10	1.09	1.08	1.10	1.18	1.21	1.20	1.20	1.33	1.33	1.34	1.33	1.30	1.27	1.22
180	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.13	1.13	1.13	1.13	1.13	1.13	1.13

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:1.4497A P:398.06W PF:0.9913 Freq:60.00Hz Lamp Flux:67721 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2HV-400D50B-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	1083	1083	1083	1083	1083														
5	1011	1018	1029	1043	1060														
10	941	955	979	1011	1047														
15	872	894	933	984	1044														
20	810	837	888	961	1046														
25	757	786	846	940	1052														
30	711	740	806	921	1062														
35	672	699	770	906	1076														
40	648	665	737	893	1097														
45	625	637	699	874	1128														
50	552	580	646	841	1140														
55	413	459	561	796	1160														
60	296	322	429	713	1178														
65	218	236	292	552	1195														
70	93.8	139	190	364	1171														
75	47.6	63.1	85.3	200	1010														
80	37.3	35.1	42.4	55.0	315														
85	12.8	13.3	13.4	16.3	39.0														
90	0.26	0.65	1.58	2.34	3.60														
95	0.43	0.66	1.04	1.28	1.36														
100	0.64	0.90	1.23	1.40	1.45														
105	0.83	1.07	1.30	1.39	1.38														
110	0.92	1.08	1.27	1.32	1.29														
115	0.95	1.09	1.24	1.25	1.24														
120	1.04	1.14	1.26	1.26	1.28														
125	1.21	1.27	1.33	1.35	1.38														
130	1.33	1.36	1.36	1.44	1.48														
135	1.40	1.36	1.41	1.50	1.53														
140	1.38	1.38	1.42	1.44	1.45														
145	1.40	1.41	1.36	1.38	1.38														
150	1.40	1.34	1.36	1.35	1.34														
155	1.38	1.35	1.33	1.40	1.34														
160	1.31	1.34	1.34	1.41	1.34														
165	1.26	1.30	1.32	1.38	1.33														
170	1.23	1.22	1.21	1.30	1.28														
175	1.20	1.22	1.22	1.31	1.26														
180	1.13	1.13	1.13	1.13	1.13														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 August 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 50.3%  
 Test Distance: 2.500m [K=1.0473]  
 Remarks: