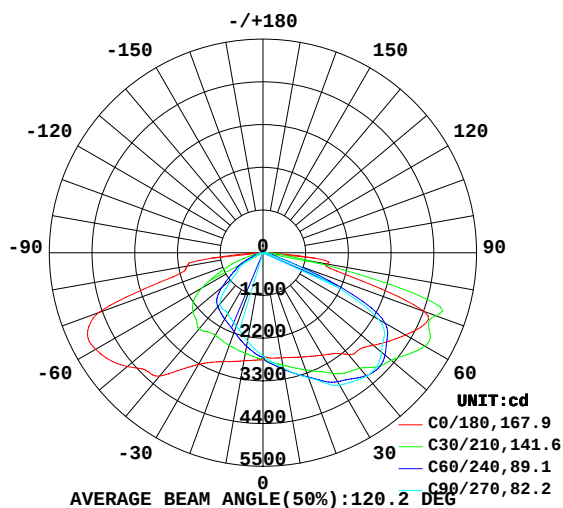


LUMINAIRE PHOTOMETRIC TEST REPORT

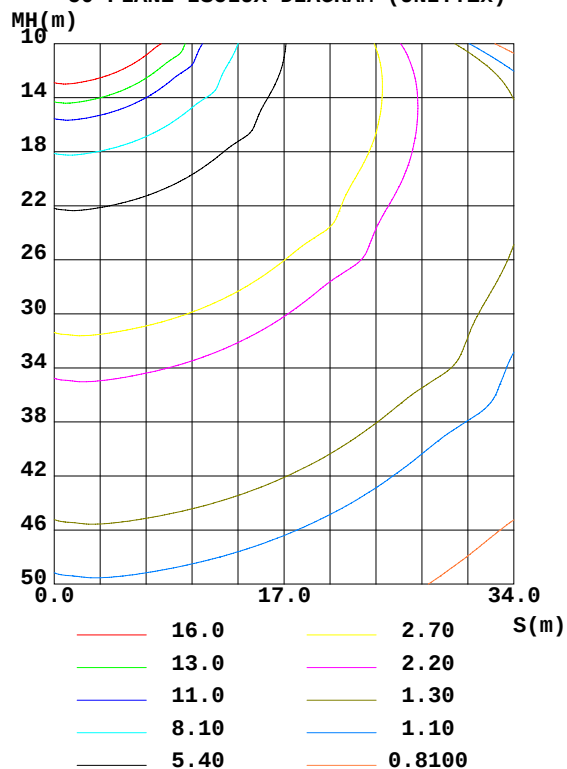
Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.88 lm/W			
MODEL ASD-LSB2-100D50B-SF		I _{max} (cd)	6172	S/MH(C0/180)	2.22
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.01
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	13400	η UP, DN(C0-180)	0.1, 66.9
NOMINAL FLUX(lm)	13400	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 32.9
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 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	2747	3013	3020	2952	2826	2542	2310	2422	0- 10	259.1	259.1	1.87, 1.87
20	2860	3340	3427	3295	2985	2338	2013	2194	10- 20	783.3	1042	7.53, 7.53
30	3046	3753	3939	3836	3322	2157	1817	2022	20- 30	1334	2377	17.2, 17.2
40	3421	4054	4148	4184	4147	2051	1724	1882	30- 40	1939	4316	31.2, 31.2
50	3707	4308	3981	4670	4558	1716	1006	1505	40- 50	2479	6795	49.1, 49.1
60	4235	4083	3445	4484	4974	1003	607.1	808.1	50- 60	2764	9559	69, 69
70	4412	2193	746.9	3330	4504	428.7	171.3	285.1	60- 70	2599	12158	87.8, 87.8
80	1660	282.7	140.2	391.8	1984	124.6	60.43	74.56	70- 80	1367	13525	97.6, 97.6
90	75.69	16.54	47.23	76.33	46.32	5.220	0.6650	2.206	80- 90	300.4	13826	99.8, 99.8
100	1.925	0.5550	0.2399	0.5981	3.642	2.668	1.650	3.314	90-100	12.12	13838	99.9, 99.9
110	2.379	0.7789	0.3970	1.024	3.641	3.160	2.349	3.435	100-110	2.124	13840	99.9, 99.9
120	2.887	1.091	0.6705	1.369	3.427	3.334	3.146	3.787	110-120	2.264	13842	99.9, 99.9
130	3.436	1.457	1.041	1.584	3.717	4.114	4.120	4.586	120-130	2.472	13845	99.9, 99.9
140	3.330	1.886	1.520	1.984	3.785	4.431	4.745	4.628	130-140	2.468	13847	100, 100
150	2.881	2.298	2.075	2.284	3.855	4.534	5.045	4.731	140-150	2.121	13849	100, 100
160	2.984	2.771	2.752	2.763	4.104	4.539	4.988	4.877	150-160	1.665	13851	100, 100
170	3.276	3.295	3.445	3.340	4.097	4.197	4.332	4.445	160-170	1.063	13852	100, 100
180	4.071	4.071	4.071	4.071	3.998	3.998	3.998	3.998	170-180	0.3662	13852	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5505.9 lm

%lum = 39.7%

%lamp = 39.7%

Conical surface Flux(120deg): 9559.5 lm

%lum = 69.0%

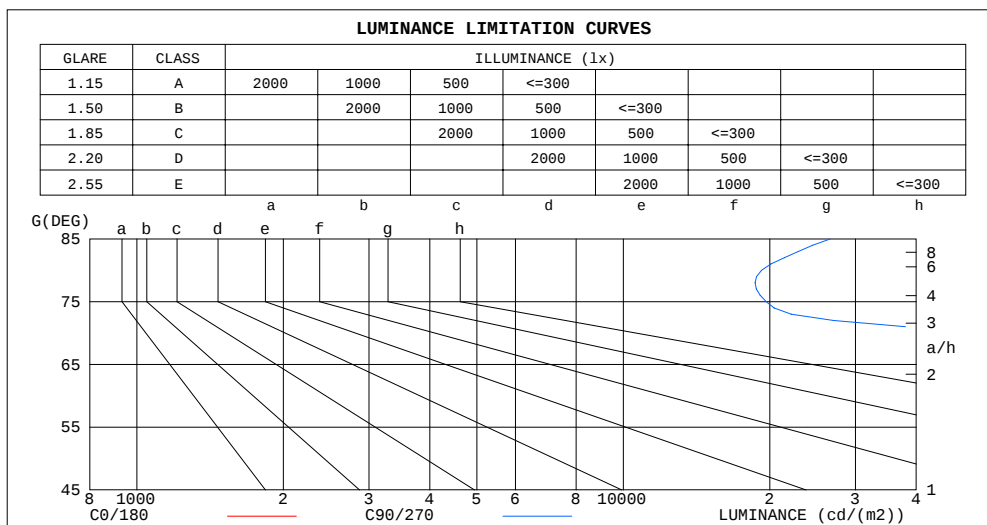
%lamp = 69.0%

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	253579	26620
80	227550	19226
75	208515	19668
70	307171	51997
65	253885	120115
60	201679	164066
55	164833	157971
50	137330	147473
45	118354	139484

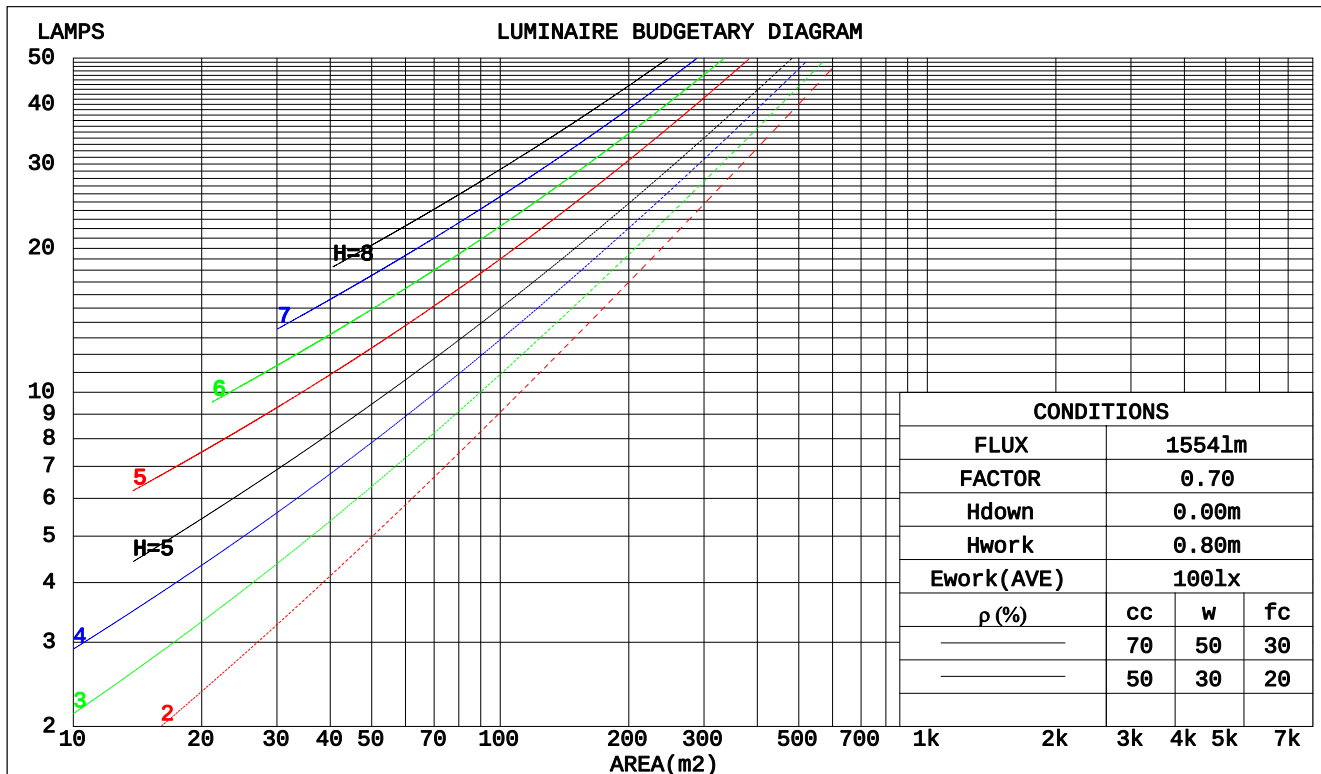
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 16 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	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						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	.75	.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	.43	.38	.49	.42	.37	.35
6.0	.50	.40	.33	.49	.40	.33	.47	.39	.32	.45	.38	.32	.44	.37	.32	.29
7.0	.45	.35	.28	.44	.35	.28	.42	.34	.28	.41	.33	.28	.39	.33	.27	.25
8.0	.40	.31	.25	.40	.31	.25	.38	.30	.24	.37	.30	.24	.36	.29	.24	.22
9.0	.37	.28	.22	.36	.28	.22	.35	.27	.22	.34	.27	.21	.33	.26	.21	.19
10.0	.34	.25	.19	.33	.25	.19	.32	.24	.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 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm									
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:	
SPEC.: ASD-LSB2-100D50B-SF					DIM.:			SERIAL No.:	
MFR.: ASD Lighting Corp					SUR.:			Shielding Angle:	

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)										
0.0																	
1.0	.353	.200	.064	.345	.197	.063	.332	.190	.061	.319	.184	.059	.308	.178	.057		
2.0	.331	.181	.056	.325	.179	.055	.313	.174	.054	.301	.169	.053	.291	.165	.052		
3.0	.304	.162	.048	.298	.160	.048	.288	.156	.047	.277	.152	.047	.268	.148	.046		
4.0	.278	.145	.043	.273	.143	.042	.263	.140	.042	.254	.137	.041	.246	.134	.041		
5.0	.255	.130	.038	.250	.129	.037	.242	.126	.037	.234	.123	.037	.226	.121	.036		
6.0	.235	.118	.034	.230	.116	.034	.223	.114	.033	.216	.112	.033	.209	.110	.033		
7.0	.217	.107	.030	.213	.106	.030	.206	.104	.030	.200	.102	.030	.194	.101	.030		
8.0	.201	.098	.028	.198	.097	.028	.192	.096	.027	.186	.094	.027	.180	.093	.027		
9.0	.187	.091	.025	.184	.090	.025	.179	.088	.025	.174	.087	.025	.169	.086	.025		
10.0	.175	.084	.023	.173	.083	.023	.168	.082	.023	.163	.081	.023	.158	.080	.023		

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	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	.185	.157	.132	.158	.135	.114	.108	.093	.079	.062	.054	.046	.020	.017	.015	
2.0	.179	.133	.095	.153	.115	.082	.105	.079	.057	.061	.046	.033	.019	.015	.011	
3.0	.173	.116	.071	.148	.100	.062	.102	.070	.043	.059	.041	.025	.019	.013	.008	
4.0	.166	.103	.055	.142	.089	.048	.098	.062	.034	.056	.036	.020	.018	.012	.007	
5.0	.158	.093	.045	.136	.081	.039	.094	.056	.028	.054	.033	.016	.017	.011	.005	
6.0	.151	.085	.038	.130	.074	.033	.089	.051	.023	.052	.030	.014	.017	.010	.005	
7.0	.144	.078	.032	.124	.068	.028	.085	.048	.020	.050	.028	.012	.016	.009	.004	
8.0	.137	.072	.028	.118	.063	.025	.081	.044	.017	.047	.026	.010	.015	.009	.003	
9.0	.130	.068	.025	.112	.059	.022	.078	.041	.016	.045	.024	.009	.015	.008	.003	
10.0	.124	.063	.023	.107	.055	.020	.074	.039	.014	.043	.023	.008	.014	.008	.003	

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm											
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:			
SPEC.: ASD-LSB2-100D50B-SF					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		33.4	35.2	33.7	35.5	35.8	31.5	33.3	31.9	33.6	33.9
	3H	37.8	39.4	38.1	39.7	40.1	31.9	33.6	32.3	33.9	34.3
	4H	38.5	40.1	38.9	40.5	40.8	31.9	33.5	32.3	33.8	34.2
	6H	38.8	40.3	39.3	40.7	41.1	31.9	33.3	32.3	33.7	34.1
	8H	39.1	40.5	39.5	40.9	41.3	31.9	33.3	32.3	33.7	34.1
	12H	39.3	40.6	39.7	41.0	41.4	31.9	33.2	32.3	33.6	34.0
4H	2H	34.0	35.6	34.4	35.9	36.3	33.0	34.5	33.4	34.9	35.3
	3H	38.7	40.0	39.1	40.4	40.8	33.5	34.8	33.9	35.2	35.6
	4H	39.8	41.0	40.2	41.4	41.8	33.5	34.7	33.9	35.1	35.5
	6H	40.1	41.2	40.6	41.6	42.1	33.5	34.5	33.9	35.0	35.4
	8H	40.4	41.4	40.8	41.8	42.3	33.5	34.4	33.9	34.9	35.3
	12H	40.6	41.5	41.1	42.0	42.4	33.5	34.4	33.9	34.8	35.3
8H	4H	39.8	40.8	40.2	41.2	41.7	34.8	35.8	35.2	36.2	36.7
	6H	40.3	41.1	40.7	41.6	42.0	34.7	35.6	35.2	36.1	36.5
	8H	40.5	41.3	41.0	41.8	42.3	34.7	35.5	35.2	36.0	36.5
	12H	40.8	41.5	41.3	42.0	42.5	34.8	35.4	35.3	35.9	36.5
12H	4H	39.8	40.7	40.3	41.1	41.6	35.1	36.0	35.6	36.5	37.0
	6H	40.2	41.0	40.8	41.4	42.0	35.1	35.9	35.6	36.3	36.9
	8H	40.5	41.2	41.0	41.7	42.2	35.1	35.8	35.6	36.3	36.8
CIE190: 2010											

CIE190: 2010
Area: 0.042 m2

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

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 52.1%
Test Distance: 2.500m [K=1.0469]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

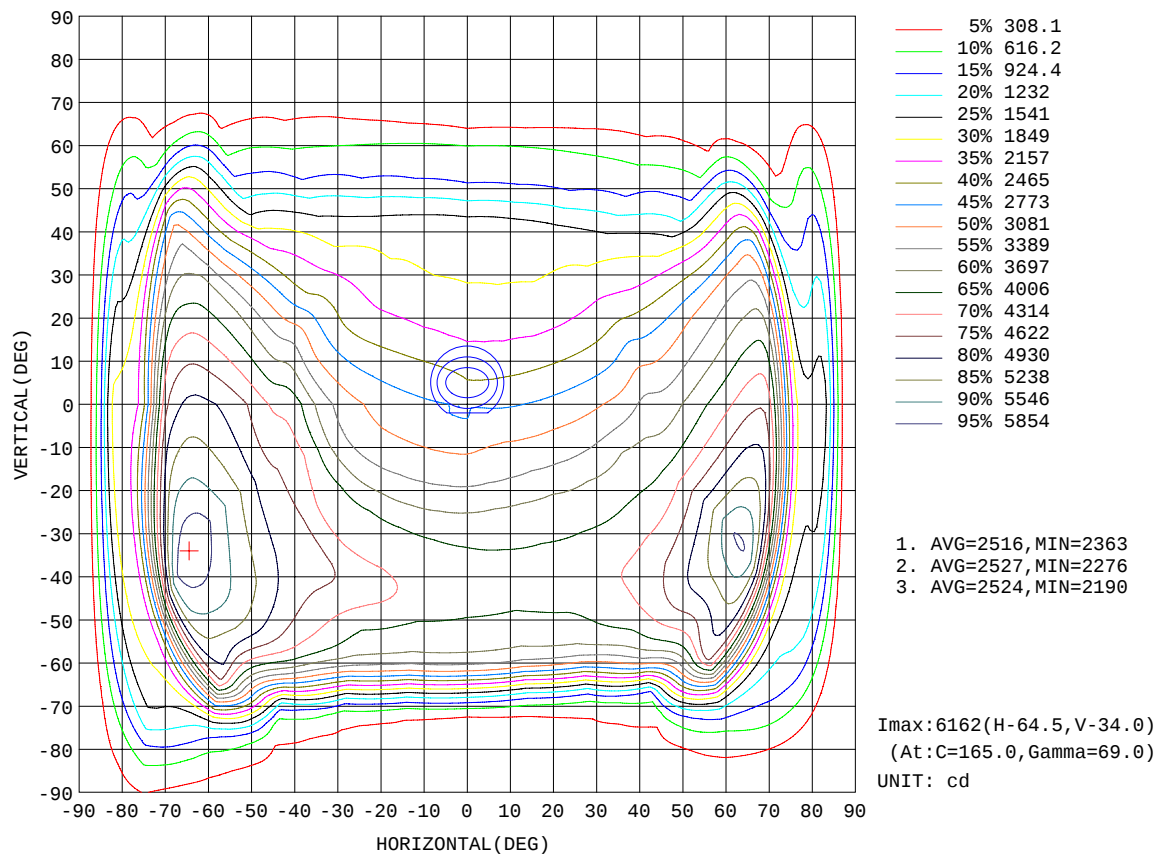
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	38	59	46	38	57	45	38	30
1.00	69	56	48	68	55	47	65	57	47	39
1.25	77	64	56	75	64	56	72	62	55	47
1.50	82	71	62	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	93	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 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

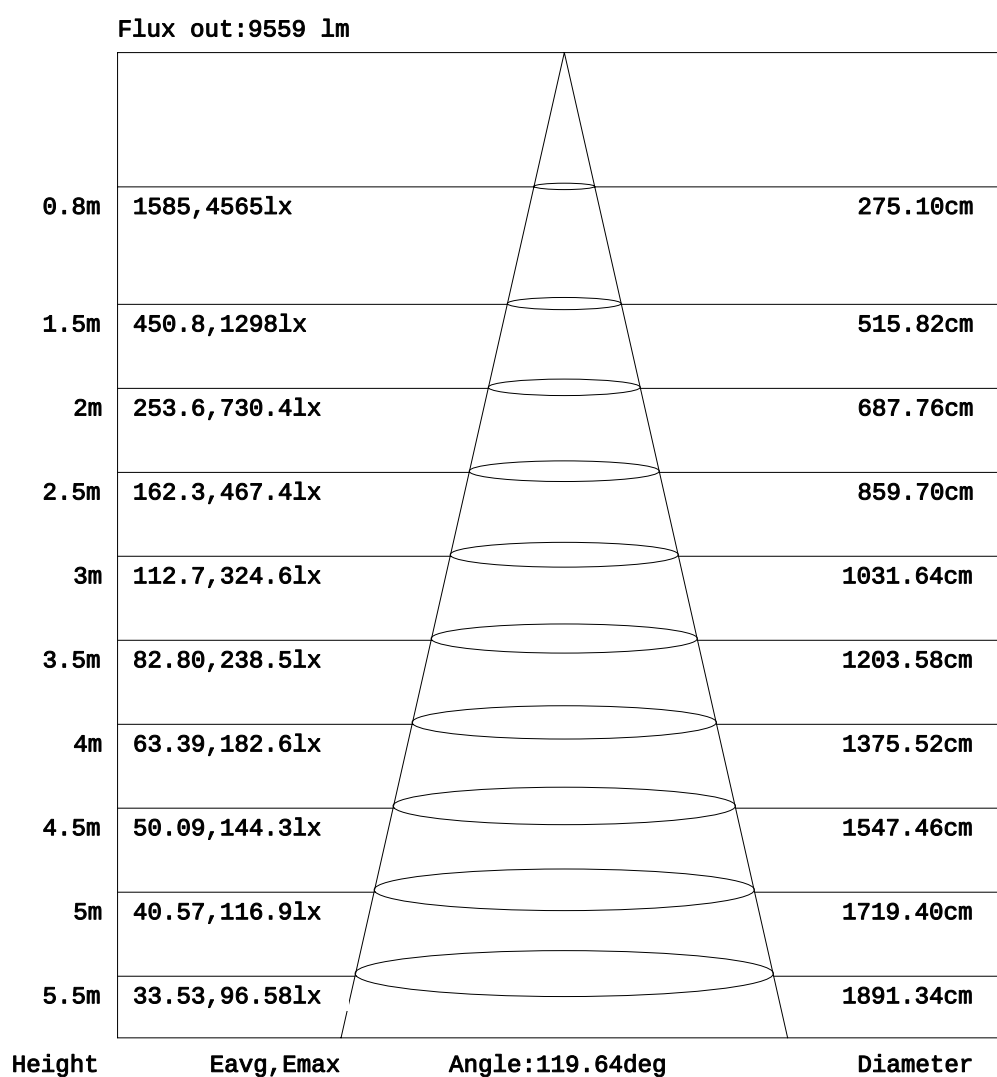


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 16 July 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 52.1%
Test Distance: 2.500m [K=1.0469]
Remarks:

AAI Figure

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



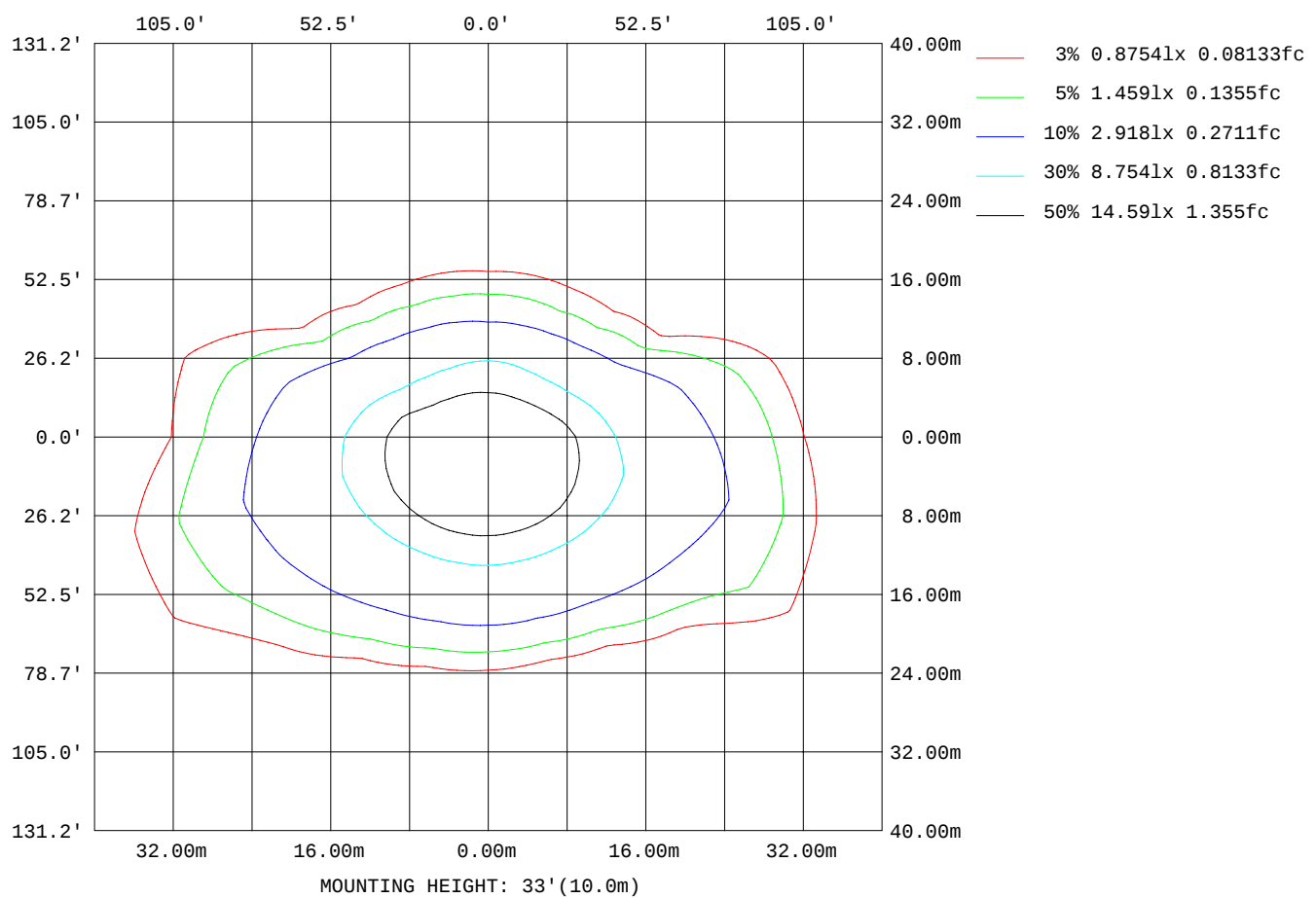
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	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 July 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 52.1%
Test Distance: 2.500m [K=1.0469]
Remarks:

LED Avg.L Report

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

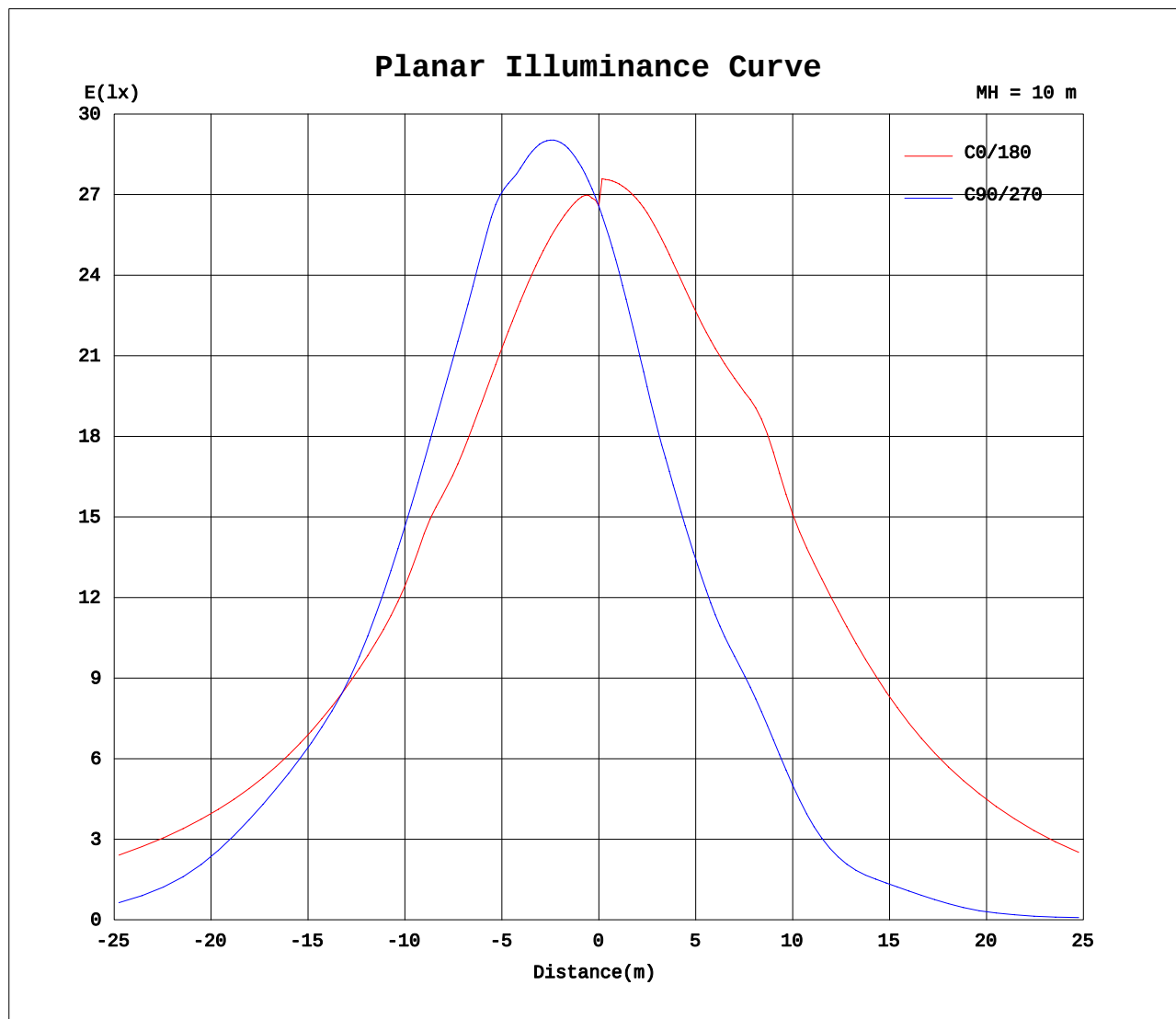
AvgL	cd/m2
L_0~180(65)av	267481
L_0~180(75)av	214860
L_0~180(85)av	244669
L_90~270(65)av	67251
L_90~270(75)av	15891
L_90~270(85)av	13334
L_45(65)av	130895
L_45(75)av	50841
L_45(85)av	28738

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 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 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: 16 July 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 52.1%
Test Distance: 2.500m [K=1.0469]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm																		
NAME: ASD Lighting Corp									TYPE: LED					WEIGHT:				
SPEC.: ASD-LSB2-100D50B-SF									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	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658	2658
5	2723	2792	2838	2878	2886	2866	2833	2828	2818	2802	2781	2780	2778	2730	2688	2644	2587	2531	2486
10	2747	2851	2937	3013	3045	3044	3020	3012	2990	2952	2899	2850	2826	2722	2629	2542	2447	2367	2310
15	2793	2942	3064	3168	3221	3236	3219	3208	3174	3118	3039	2952	2897	2736	2584	2441	2305	2202	2141
20	2860	3055	3212	3340	3406	3436	3427	3413	3366	3295	3189	3069	2985	2762	2542	2338	2167	2061	2013
25	2944	3180	3374	3540	3641	3695	3684	3660	3593	3498	3362	3215	3112	2803	2494	2233	2056	1957	1906
30	3046	3335	3584	3753	3834	3898	3939	3946	3923	3836	3633	3451	3322	2877	2457	2157	1972	1860	1817
35	3172	3588	3764	3874	3966	4015	4045	4070	4072	4063	4036	3897	3668	3021	2489	2126	1892	1798	1786
40	3421	3787	3882	4054	4131	4131	4148	4194	4229	4184	4265	4364	4147	3321	2557	2051	1810	1758	1724
45	3515	3909	4160	4260	4201	4120	4142	4223	4389	4508	4601	4601	4272	3440	2439	1893	1679	1535	1418
50	3707	4198	4311	4308	4102	3949	3981	4072	4338	4670	4846	4810	4558	3548	2358	1716	1381	1141	1006
55	3971	4640	4559	4245	3902	3777	3806	3853	4072	4579	4980	5216	4818	3687	2186	1424	1004	854	805
60	4235	5192	4813	4083	3634	3410	3445	3536	3836	4484	5223	5605	4974	3757	1826	1003	772	695	607
65	4506	5811	4726	3725	2554	2049	2132	2346	3140	4282	5345	6008	4989	3720	1273	726	527	360	255
70	4412	5719	4741	2193	918	697	747	871	1494	3330	5145	6142	4504	3469	854	429	279	172	171
75	2267	3195	3976	591	312	230	214	262	390	1217	4863	4986	2405	2735	382	233	174	148	132
80	1660	1324	1246	283	171	137	140	152	234	392	2533	2043	1984	603	152	125	106	94.1	60.4
85	928	632	394	130	86.6	87.6	97.4	99.3	130	237	666	1488	863	142	64.6	44.6	20.9	3.00	0.18
90	75.7	80.0	59.0	16.5	29.9	38.8	47.2	47.6	48.3	76.3	185	318	46.3	26.7	10.8	5.22	1.79	0.67	0.67
95	1.65	1.25	0.84	0.42	0.38	2.79	8.05	7.46	7.02	7.32	6.43	21.0	3.39	3.82	2.93	2.17	1.48	1.13	1.12
100	1.93	1.48	0.99	0.55	0.32	0.27	0.24	0.27	0.35	0.60	0.95	1.38	3.64	3.73	3.26	2.67	2.10	1.68	1.65
105	2.16	1.68	1.15	0.68	0.40	0.34	0.31	0.34	0.48	0.80	1.21	1.67	3.78	3.84	3.46	3.01	2.64	2.16	2.08
110	2.38	1.85	1.27	0.78	0.49	0.42	0.40	0.44	0.64	1.02	1.49	1.96	3.64	3.67	3.44	3.16	2.92	2.51	2.35
115	2.68	2.04	1.38	0.89	0.61	0.54	0.52	0.58	0.82	1.22	1.73	2.20	3.51	3.59	3.45	3.24	3.08	2.83	2.67
120	2.89	2.26	1.60	1.09	0.78	0.70	0.67	0.74	1.00	1.37	1.91	2.40	3.43	3.63	3.50	3.33	3.42	3.22	3.15
125	3.21	2.50	1.82	1.28	0.97	0.87	0.85	0.93	1.20	1.45	2.10	2.65	3.49	3.81	3.73	3.70	3.84	3.68	3.67
130	3.44	2.68	2.01	1.46	1.17	1.06	1.04	1.14	1.37	1.58	2.25	2.86	3.72	4.09	4.05	4.11	4.16	4.12	4.12
135	3.47	2.80	2.18	1.67	1.39	1.28	1.27	1.36	1.55	1.79	2.28	2.99	3.83	4.17	4.26	4.34	4.34	4.40	4.47
140	3.33	2.80	2.30	1.89	1.63	1.53	1.52	1.61	1.77	1.98	2.29	2.95	3.79	4.09	4.28	4.43	4.51	4.61	4.74
145	3.09	2.74	2.40	2.10	1.88	1.78	1.78	1.87	2.02	2.14	2.30	2.83	3.79	4.03	4.30	4.50	4.63	4.76	4.93
150	2.88	2.70	2.49	2.30	2.12	2.06	2.07	2.16	2.27	2.28	2.39	2.69	3.85	4.05	4.35	4.53	4.67	4.85	5.05
155	2.92	2.83	2.69	2.55	2.41	2.37	2.39	2.46	2.54	2.49	2.52	2.69	3.98	4.12	4.38	4.58	4.71	4.88	5.09
160	2.98	2.94	2.85	2.77	2.70	2.71	2.75	2.82	2.86	2.76	2.69	2.82	4.10	4.17	4.33	4.54	4.66	4.79	4.99
165	3.08	3.11	3.07	3.06	3.03	3.06	3.10	3.16	3.15	3.03	2.93	2.93	4.12	4.15	4.23	4.36	4.42	4.49	4.64
170	3.28	3.31	3.31	3.29	3.31	3.38	3.45	3.49	3.47	3.34	3.23	3.12	4.10	4.10	4.13	4.20	4.17	4.19	4.33
175	3.65	3.72	3.68	3.65	3.62	3.64	3.66	3.70	3.67	3.54	3.41	3.31	4.10	4.09	4.11	4.14	4.11	4.08	4.08
180	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.00	4.00	4.00	4.00	4.00	4.00	4.00

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.8441A P:101.20W PF:0.9991 Freq:60.00Hz Lamp Flux:13400x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D50B-SF	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	2658	2658	2658	2658	2658													
5	2489	2507	2540	2585	2639													
10	2319	2355	2422	2511	2615													
15	2155	2208	2308	2447	2611													
20	2022	2074	2194	2386	2621													
25	1915	1974	2096	2328	2641													
30	1824	1879	2022	2288	2673													
35	1780	1809	1959	2278	2743													
40	1733	1754	1882	2257	2908													
45	1469	1579	1745	2158	2880													
50	1051	1196	1505	2012	2973													
55	816	851	1114	1779	3089													
60	651	703	808	1358	3193													
65	300	403	560	930	3223													
70	163	225	285	519	3036													
75	140	138	170	231	1290													
80	67.4	70.1	74.6	86.5	206													
85	1.36	5.44	9.36	21.3	58.8													
90	0.77	1.20	2.21	3.47	4.97													
95	1.27	1.81	2.82	3.52	3.73													
100	1.82	2.43	3.31	3.88	4.05													
105	2.25	2.80	3.48	3.88	4.06													
110	2.49	2.88	3.44	3.78	3.90													
115	2.71	3.03	3.52	3.78	3.91													
120	3.13	3.37	3.79	4.00	4.04													
125	3.68	3.89	4.24	4.42	4.35													
130	4.07	4.26	4.59	4.81	4.67													
135	4.37	4.46	4.66	4.86	4.66													
140	4.64	4.60	4.63	4.70	4.49													
145	4.84	4.72	4.64	4.62	4.37													
150	5.00	4.87	4.73	4.65	4.36													
155	5.11	5.03	4.83	4.70	4.38													
160	5.07	5.05	4.88	4.70	4.38													
165	4.75	4.80	4.70	4.54	4.26													
170	4.45	4.51	4.45	4.30	4.05													
175	4.14	4.18	4.15	4.06	3.84													
180	4.00	4.00	4.00	4.00	4.00													

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

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 52.1%
 Test Distance: 2.500m [K=1.0469]
 Remarks: