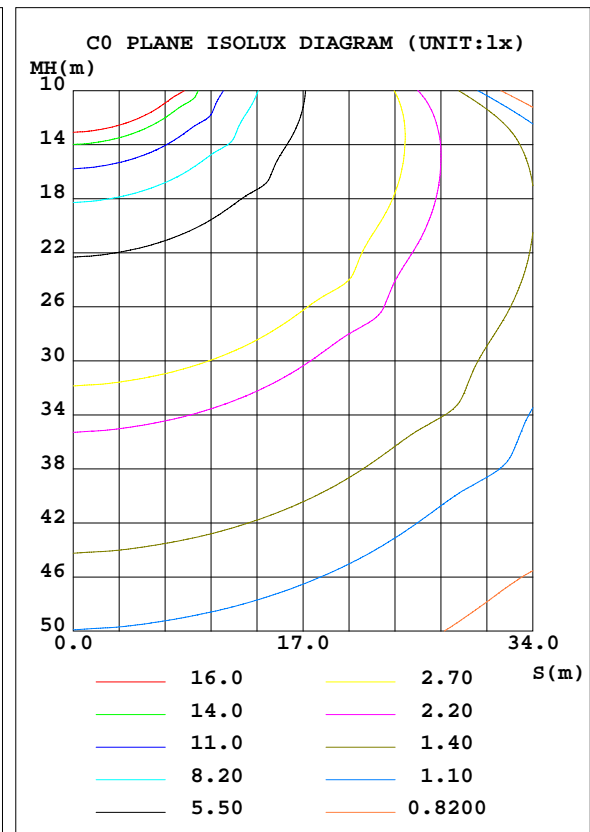
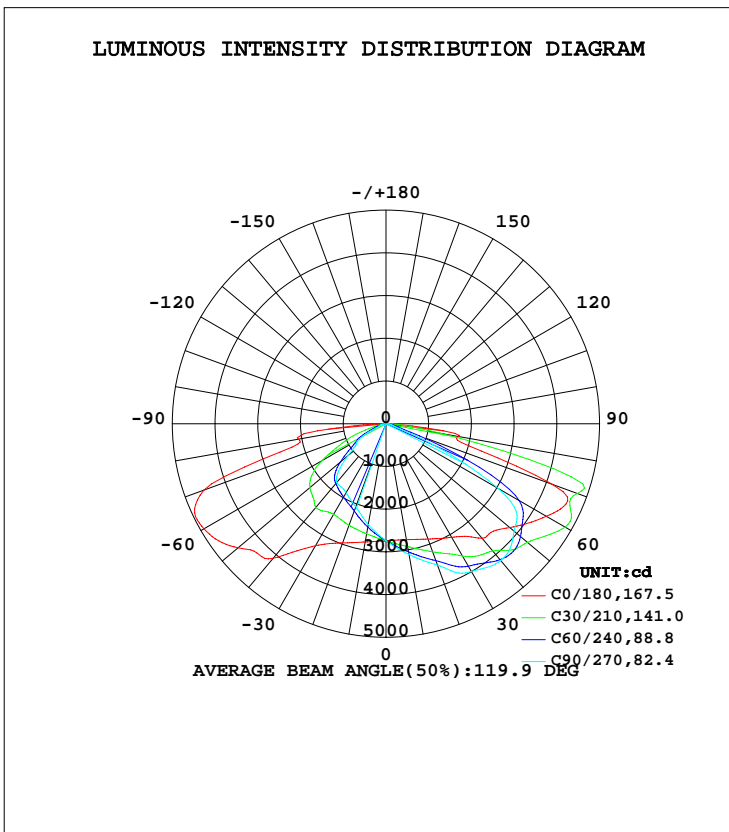


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.12 lm/W			
MODEL ASD-LSB2-100D40B-PRM		Imax(cd)	6217	S/MH(C0/180)	2.15
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.01
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	13200	η UP, DN(C0-180)	0.1,66.1
NOMINAL FLUX(lm)	13200	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,33.7
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: 16 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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2755	2989	3107	3028	2811	2528	2394	2493	0- 10	262.6	262.6	1.9,1.9
20	2872	3314	3520	3379	2968	2321	2074	2264	10- 20	793.5	1056	7.63,7.63
30	3072	3747	3995	3974	3297	2155	1870	2078	20- 30	1355	2411	17.4,17.4
40	3501	4041	4180	4299	4112	2036	1791	1947	30- 40	1965	4376	31.6,31.6
50	3782	4330	3911	4683	4518	1692	1155	1613	40- 50	2513	6888	49.8,49.8
60	4332	4126	3032	4479	4921	957.5	729.4	888.6	50- 60	2784	9673	69.9,69.9
70	4140	2362	347.8	2789	4536	395.8	177.0	347.8	60- 70	2544	12217	88.3,88.3
80	1725	294.0	126.2	342.7	2083	118.6	95.72	100.8	70- 80	1314	13531	97.8,97.8
90	63.43	21.25	27.79	43.30	55.73	4.578	0.5226	2.814	80- 90	282.2	13813	99.8,99.8
100	1.972	0.5401	0.2654	0.6484	3.567	2.681	1.434	3.258	90-100	8.770	13822	99.9,99.9
110	2.433	0.7732	0.4391	1.086	3.629	3.127	2.249	3.523	100-110	2.124	13824	99.9,99.9
120	2.934	1.065	0.7405	1.408	3.422	3.348	2.937	3.719	110-120	2.267	13826	99.9,99.9
130	3.456	1.430	1.129	1.672	3.701	4.188	3.960	4.522	120-130	2.458	13829	99.9,99.9
140	3.313	1.851	1.630	2.074	3.814	4.463	4.654	4.665	130-140	2.477	13831	100,100
150	2.871	2.260	2.197	2.367	3.867	4.571	5.017	4.705	140-150	2.135	13833	100,100
160	2.976	2.728	2.893	2.874	4.102	4.535	5.084	4.898	150-160	1.679	13835	100,100
170	3.263	3.272	3.559	3.440	4.087	4.169	4.417	4.529	160-170	1.081	13836	100,100
180	3.980	3.980	3.980	3.980	3.993	3.993	3.993	3.993	170-180	0.3715	13836	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5583.2 lm

%lum = 40.4%

%lamp = 40.4%

Conical surface Flux(120deg): 9672.8 lm

%lum = 69.9%

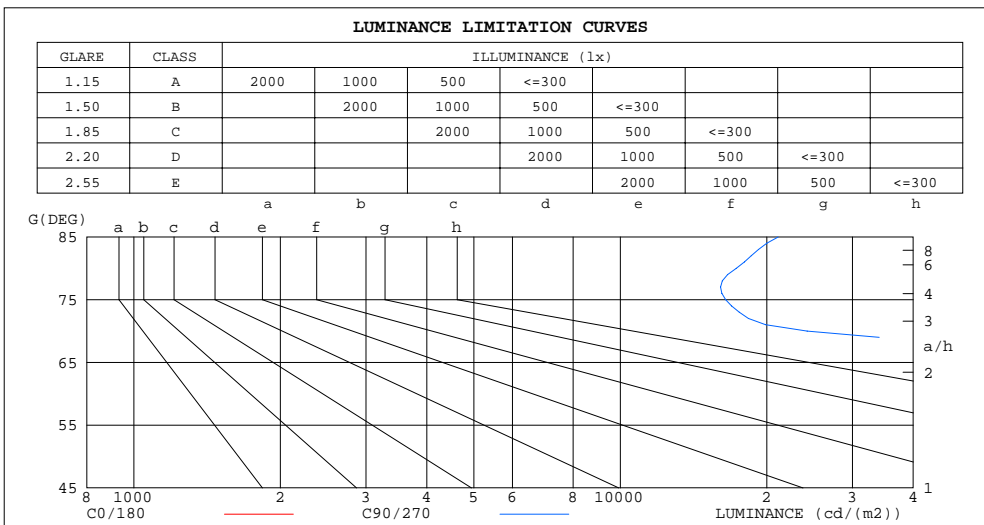
%lamp = 69.9%

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.4%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	170049	21106
80	236576	17305
75	184975	16461
70	288219	24210
65	258321	84690
60	206294	144372
55	168480	155452
50	140082	144883
45	119722	138531

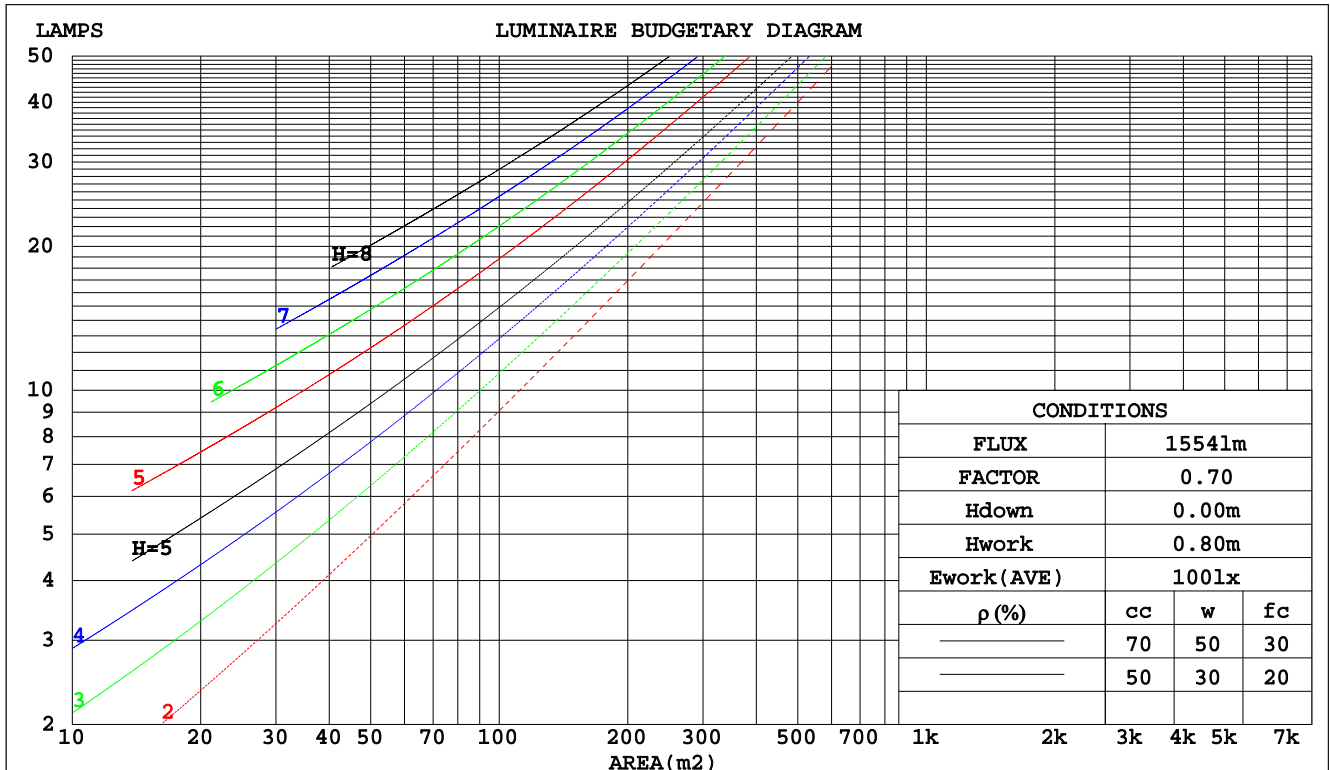
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 July 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.4%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-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	.93	.99	.95	.91	.95	.91	.88	.91	.88	.85	.87	.85	.83	.81
2.0	.87	.79	.72	.85	.78	.71	.81	.75	.70	.78	.72	.68	.74	.70	.66	.64
3.0	.74	.65	.58	.73	.64	.57	.70	.62	.56	.67	.60	.55	.64	.59	.54	.52
4.0	.65	.55	.47	.63	.54	.47	.60	.52	.46	.58	.51	.45	.56	.50	.45	.42
5.0	.57	.47	.39	.55	.46	.39	.53	.45	.39	.51	.44	.38	.49	.43	.38	.35
6.0	.50	.40	.33	.49	.40	.33	.47	.39	.33	.46	.38	.32	.44	.37	.32	.30
7.0	.45	.35	.29	.44	.35	.29	.42	.34	.28	.41	.34	.28	.39	.33	.28	.26
8.0	.41	.31	.25	.40	.31	.25	.38	.30	.25	.37	.30	.25	.36	.29	.24	.22
9.0	.37	.28	.22	.36	.28	.22	.35	.27	.22	.34	.27	.22	.33	.26	.22	.20
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 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:

## WEC AND CCEC

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.349	.198	.063	.341	.195	.062	.328	.188	.060	.315	.182	.058	.304	.176	.057	
2.0	.328	.180	.055	.322	.177	.055	.310	.172	.053	.298	.167	.052	.288	.163	.051	
3.0	.302	.161	.048	.296	.159	.048	.285	.155	.047	.275	.151	.046	.266	.147	.046	
4.0	.277	.144	.042	.271	.142	.042	.262	.139	.041	.253	.136	.041	.245	.133	.040	
5.0	.254	.129	.037	.249	.128	.037	.241	.125	.037	.233	.123	.037	.225	.120	.036	
6.0	.234	.117	.034	.230	.116	.033	.222	.114	.033	.215	.112	.033	.208	.109	.033	
7.0	.216	.107	.030	.212	.106	.030	.205	.104	.030	.199	.102	.030	.193	.100	.029	
8.0	.200	.098	.028	.197	.097	.027	.191	.095	.027	.185	.094	.027	.180	.092	.027	
9.0	.187	.090	.025	.184	.090	.025	.178	.088	.025	.173	.087	.025	.168	.085	.025	
10.0	.175	.084	.023	.172	.083	.023	.167	.082	.023	.162	.081	.023	.158	.080	.023	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.184	.157	.133	.158	.135	.114	.108	.093	.079	.062	.054	.046	.020	.017	.015	
2.0	.178	.133	.095	.153	.115	.082	.105	.079	.057	.060	.046	.034	.019	.015	.011	
3.0	.172	.116	.071	.147	.100	.062	.101	.069	.043	.058	.041	.025	.019	.013	.008	
4.0	.165	.103	.056	.142	.089	.048	.097	.062	.034	.056	.036	.020	.018	.012	.007	
5.0	.158	.093	.045	.135	.080	.039	.093	.056	.028	.054	.033	.016	.017	.011	.005	
6.0	.150	.085	.038	.129	.073	.033	.089	.051	.023	.052	.030	.014	.017	.010	.005	
7.0	.143	.078	.032	.123	.068	.028	.085	.047	.020	.049	.028	.012	.016	.009	.004	
8.0	.136	.072	.028	.117	.063	.025	.081	.044	.017	.047	.026	.010	.015	.009	.003	
9.0	.130	.067	.025	.112	.058	.022	.078	.041	.015	.045	.024	.009	.015	.008	.003	
10.0	.124	.063	.023	.107	.055	.020	.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 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 52.4%  
Test Distance: 2.500m [K=1.0469]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-LSB2-100D40B-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	33.4	35.2	33.8	35.5	35.9	31.3	33.1	31.7	33.4	33.7
3H	37.8	39.4	38.2	39.8	40.1	31.4	33.1	31.8	33.4	33.7
4H	38.6	40.1	39.0	40.5	40.8	31.4	32.9	31.8	33.3	33.7
6H	38.9	40.3	39.3	40.7	41.1	31.3	32.8	31.8	33.2	33.5
8H	39.1	40.5	39.5	40.9	41.3	31.3	32.7	31.8	33.1	33.5
12H	39.2	40.5	39.6	40.9	41.4	31.3	32.7	31.8	33.0	33.5
4H 2H	34.1	35.7	34.5	36.0	36.4	32.8	34.3	33.2	34.7	35.1
3H	38.7	40.0	39.1	40.4	40.8	33.0	34.3	33.4	34.7	35.1
4H	39.8	41.0	40.2	41.4	41.9	32.9	34.1	33.4	34.5	35.0
6H	40.2	41.3	40.7	41.7	42.1	32.9	34.0	33.4	34.4	34.9
8H	40.4	41.4	40.9	41.9	42.3	32.9	33.9	33.4	34.3	34.8
12H	40.6	41.5	41.1	42.0	42.4	32.9	33.8	33.4	34.3	34.7
8H 4H	39.8	40.8	40.3	41.3	41.7	34.2	35.1	34.6	35.6	36.0
6H	40.3	41.1	40.8	41.6	42.1	34.1	35.0	34.6	35.4	35.9
8H	40.6	41.3	41.1	41.8	42.3	34.1	34.9	34.6	35.4	35.8
12H	40.9	41.5	41.4	42.0	42.5	34.1	34.8	34.6	35.3	35.8
12H 4H	39.8	40.7	40.3	41.2	41.7	34.4	35.3	34.9	35.8	36.2
6H	40.3	41.1	40.8	41.5	42.1	34.4	35.1	34.9	35.6	36.1
8H	40.6	41.3	41.1	41.8	42.3	34.4	35.0	34.9	35.5	36.1
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 GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 52.4%  
Test Distance: 2.500m [K=1.0469]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

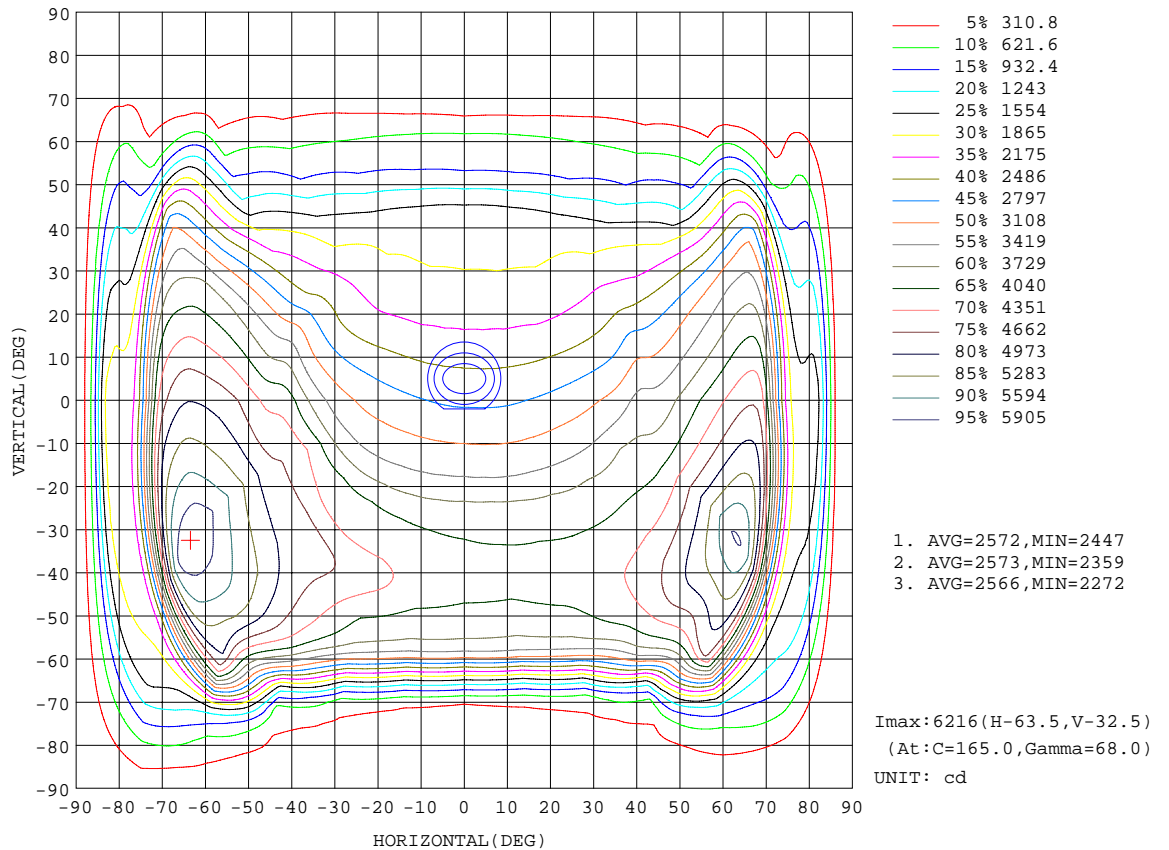
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	37	29	49	37	29	48	36	29	22
0.80	60	47	39	59	47	39	57	46	38	30
1.00	69	56	48	68	56	48	65	58	47	39
1.25	77	65	57	75	64	56	72	63	55	47
1.50	83	71	63	81	70	62	77	68	61	53
2.00	91	81	73	89	79	72	85	77	71	62
2.50	95	86	79	93	85	78	89	82	77	68
3.00	99	91	85	97	90	84	93	87	82	73
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	102	97	104	100	95	100	96	92	83
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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.4%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



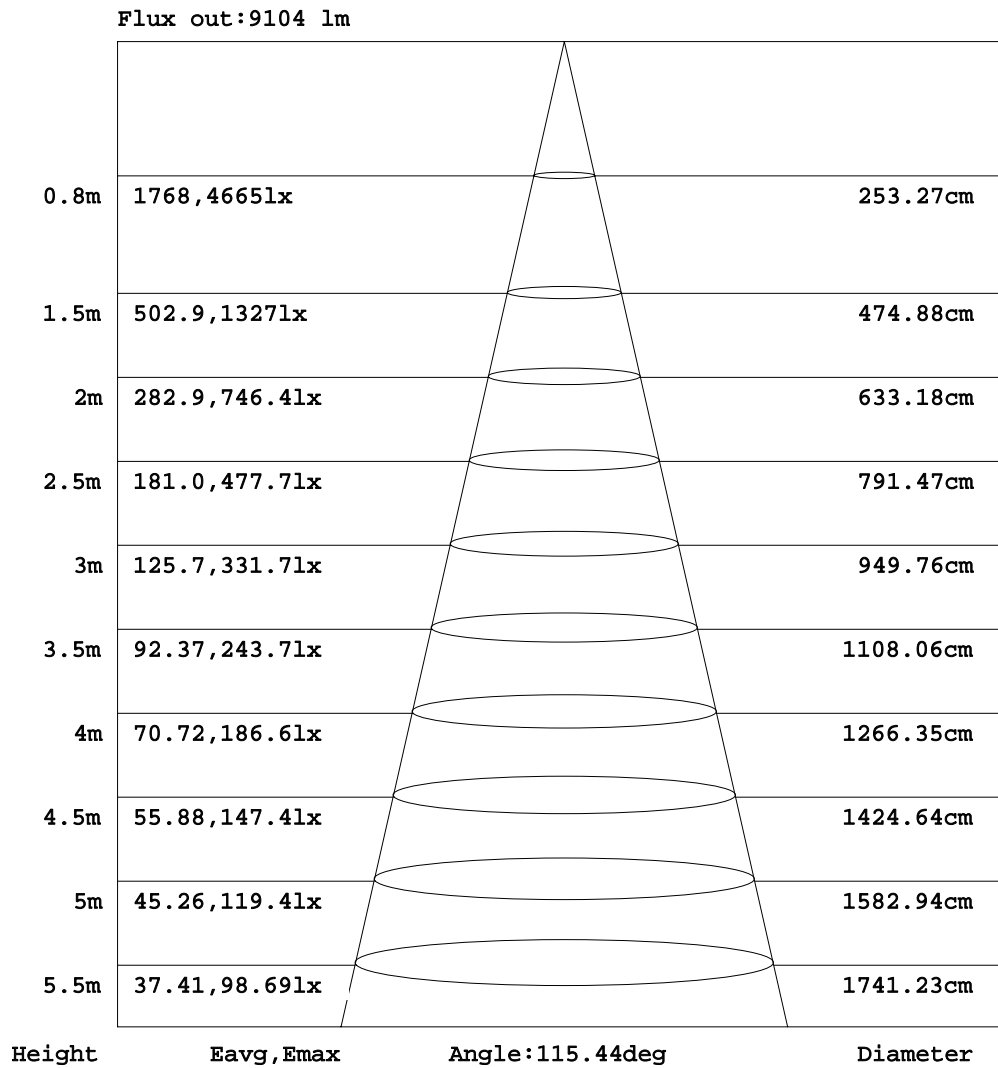
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 16 July 2021

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:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



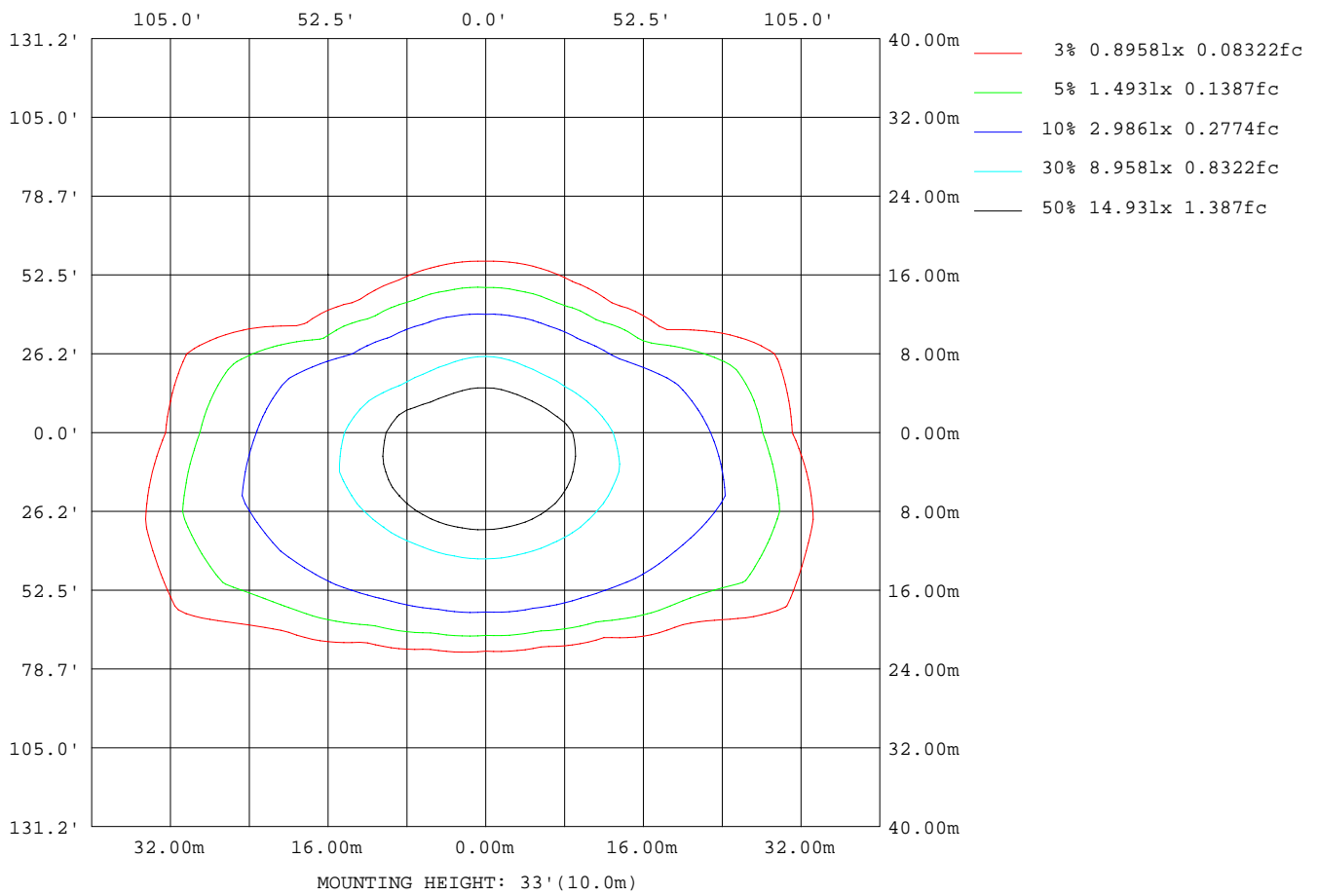
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators:Alan Wang  
 Test Date:16 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:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-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 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:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

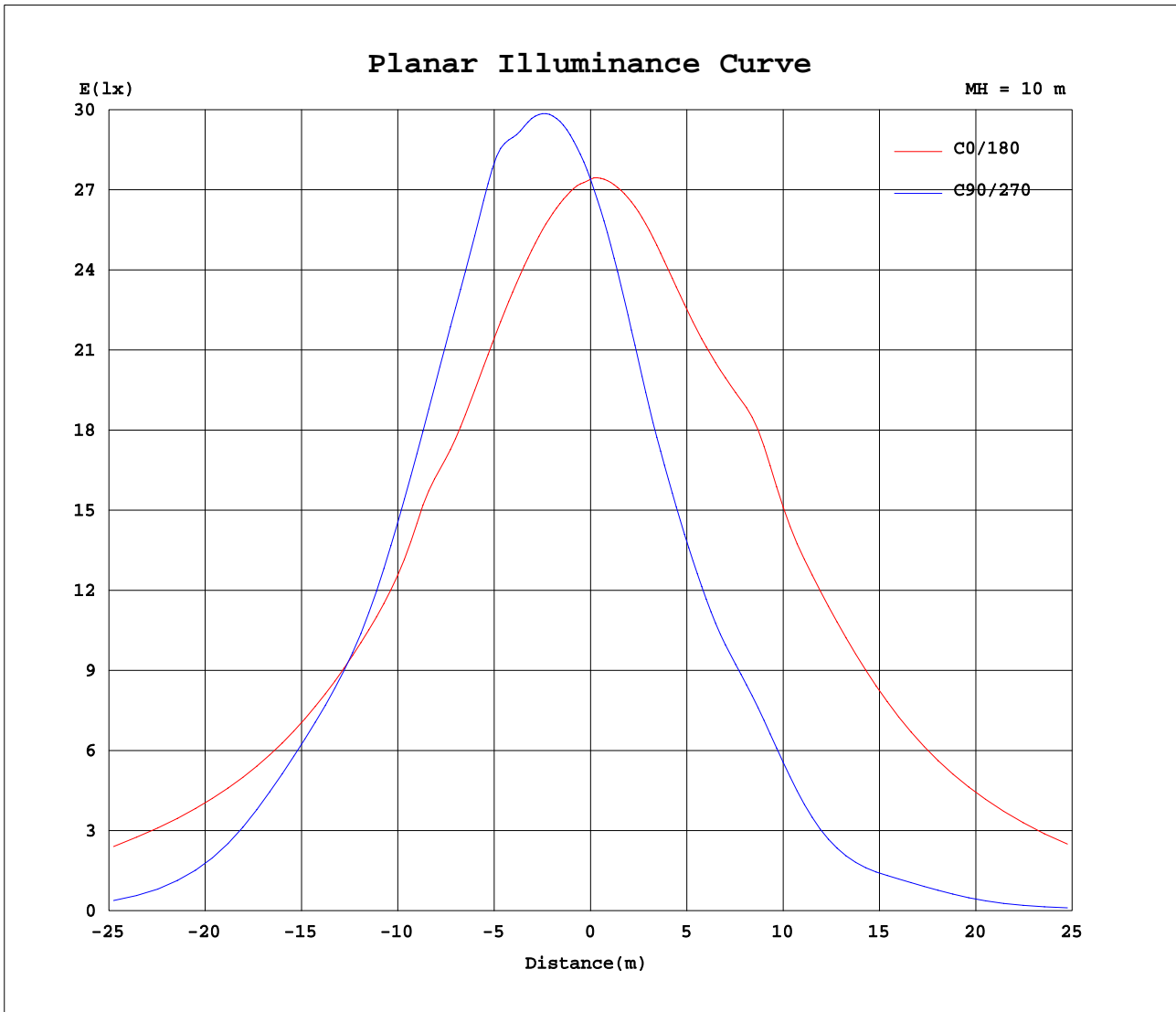
AvgL	cd/m2
L_0~180(65)av	268302
L_0~180(75)av	210685
L_0~180(85)av	245182
L_90~270(65)av	52670
L_90~270(75)av	15439
L_90~270(85)av	10645
L_45(65)av	130683
L_45(75)av	43732
L_45(85)av	27046

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: 16 July 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	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	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739	2739
5	2736	2783	2823	2858	2887	2906	2916	2913	2899	2875	2841	2805	2766	2718	2673	2632	2600	2579	2568
10	2755	2841	2919	2989	3046	3087	3107	3100	3074	3028	2967	2891	2811	2714	2616	2528	2458	2414	2394
15	2803	2931	3044	3143	3224	3281	3309	3298	3260	3196	3110	3003	2881	2730	2571	2425	2313	2247	2221
20	2872	3043	3191	3314	3411	3485	3520	3509	3458	3379	3264	3126	2968	2760	2530	2321	2176	2101	2074
25	2963	3171	3355	3517	3659	3771	3836	3817	3738	3611	3456	3293	3095	2803	2482	2220	2071	1994	1963
30	3072	3331	3574	3747	3849	3930	3995	4018	4017	3974	3804	3577	3297	2881	2449	2155	1985	1896	1870
35	3218	3601	3770	3868	3983	4058	4108	4137	4139	4129	4161	4088	3632	3036	2504	2129	1909	1827	1812
40	3501	3810	3887	4041	4155	4158	4180	4243	4321	4299	4373	4500	4112	3356	2554	2036	1830	1797	1791
45	3556	3919	4174	4265	4220	4110	4114	4211	4432	4632	4783	4680	4275	3430	2421	1877	1699	1612	1572
50	3782	4212	4322	4330	4110	3913	3911	4002	4282	4683	4901	4962	4518	3551	2326	1692	1396	1229	1155
55	4059	4664	4573	4279	3914	3753	3745	3800	4016	4582	5104	5376	4779	3686	2129	1365	1019	903	856
60	4332	5227	4840	4126	3601	3180	3032	3232	3727	4479	5319	5767	4921	3744	1737	958	789	755	729
65	4585	5846	4768	3778	2417	1632	1503	1744	2634	4143	5390	6156	4940	3684	1207	704	545	438	367
70	4140	5761	4774	2362	841	454	348	510	1005	2789	5109	6116	4536	3411	801	396	291	188	177
75	2011	3259	4049	613	304	196	179	210	331	861	4620	4144	2570	2545	352	224	181	158	157
80	1725	1383	1291	294	164	127	126	133	198	343	1730	1880	2083	517	144	119	113	117	95.7
85	622	666	402	142	81.5	74.8	77.3	79.8	100	193	463	1170	1173	136	61.6	39.2	32.8	14.4	0.68
90	63.4	90.2	58.7	21.2	26.7	29.3	27.8	32.6	34.2	43.3	116	200	55.7	24.5	9.87	4.58	2.14	0.60	0.52
95	1.68	2.11	0.88	0.41	0.39	0.39	0.23	2.13	2.17	0.99	7.83	5.94	4.33	3.73	2.89	2.19	1.41	1.00	0.92
100	1.97	1.48	0.99	0.54	0.32	0.28	0.27	0.29	0.38	0.65	1.02	1.46	3.57	3.71	3.25	2.68	2.03	1.54	1.43
105	2.21	1.69	1.15	0.67	0.41	0.36	0.34	0.37	0.52	0.86	1.29	1.75	3.75	3.80	3.44	3.00	2.57	2.05	1.94
110	2.43	1.86	1.28	0.77	0.50	0.45	0.44	0.48	0.69	1.09	1.56	2.03	3.63	3.61	3.39	3.13	2.87	2.41	2.25
115	2.72	2.05	1.39	0.86	0.62	0.58	0.57	0.63	0.89	1.28	1.80	2.27	3.50	3.55	3.42	3.22	3.05	2.73	2.52
120	2.93	2.25	1.58	1.06	0.78	0.74	0.74	0.81	1.07	1.41	1.99	2.49	3.42	3.61	3.50	3.35	3.40	3.12	2.94
125	3.26	2.50	1.80	1.25	0.98	0.92	0.92	1.01	1.27	1.50	2.19	2.74	3.48	3.82	3.75	3.78	3.83	3.58	3.45
130	3.46	2.67	1.98	1.43	1.18	1.11	1.13	1.23	1.45	1.67	2.29	2.93	3.70	4.11	4.08	4.19	4.17	4.05	3.96
135	3.47	2.79	2.15	1.64	1.40	1.34	1.37	1.46	1.64	1.88	2.32	3.03	3.84	4.18	4.29	4.38	4.35	4.35	4.34
140	3.31	2.80	2.28	1.85	1.64	1.59	1.63	1.72	1.88	2.07	2.33	2.95	3.81	4.10	4.30	4.46	4.53	4.58	4.65
145	3.07	2.75	2.38	2.06	1.89	1.85	1.91	1.99	2.14	2.22	2.36	2.82	3.82	4.05	4.33	4.53	4.66	4.75	4.88
150	2.87	2.69	2.47	2.26	2.13	2.12	2.20	2.28	2.38	2.37	2.45	2.68	3.87	4.08	4.38	4.57	4.70	4.85	5.02
155	2.91	2.79	2.64	2.50	2.42	2.46	2.55	2.63	2.69	2.63	2.63	2.78	3.98	4.13	4.39	4.60	4.74	4.90	5.10
160	2.98	2.91	2.81	2.73	2.71	2.78	2.89	2.96	2.98	2.87	2.79	2.88	4.10	4.17	4.33	4.54	4.68	4.85	5.08
165	3.07	3.06	3.01	3.01	3.04	3.14	3.25	3.31	3.30	3.17	3.09	3.01	4.11	4.13	4.21	4.33	4.43	4.57	4.80
170	3.26	3.27	3.28	3.27	3.32	3.44	3.56	3.61	3.57	3.44	3.32	3.21	4.09	4.09	4.11	4.17	4.17	4.24	4.42
175	3.60	3.62	3.58	3.59	3.65	3.76	3.87	3.91	3.89	3.78	3.68	3.61	4.08	4.08	4.12	4.14	4.11	4.14	4.25
180	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.99	3.99	3.99	3.99	3.99	3.99	3.99

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 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:0.8418A P:100.91W PF:0.9989 Freq:60.00Hz Lamp Flux:13200x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-LSB2-100D40B-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2739	2739	2739	2739	2739														
5	2573	2587	2612	2646	2686														
10	2404	2437	2493	2569	2655														
15	2235	2288	2379	2504	2648														
20	2088	2145	2264	2443	2656														
25	1975	2037	2159	2385	2676														
30	1879	1939	2078	2341	2706														
35	1813	1859	2018	2325	2763														
40	1788	1801	1947	2327	2936														
45	1604	1678	1821	2234	2922														
50	1202	1346	1613	2101	2999														
55	876	946	1250	1900	3116														
60	753	765	889	1520	3228														
65	414	512	653	1051	3293														
70	180	269	348	650	3184														
75	153	165	203	284	1835														
80	109	97.4	101	117	324														
85	3.68	16.5	21.2	34.8	81.5														
90	0.63	1.39	2.81	4.75	9.64														
95	1.08	1.63	2.66	3.45	3.69														
100	1.63	2.26	3.26	3.88	4.07														
105	2.14	2.76	3.54	4.00	4.20														
110	2.43	2.91	3.52	3.89	4.01														
115	2.63	2.99	3.52	3.82	3.97														
120	2.95	3.24	3.72	3.97	4.04														
125	3.47	3.70	4.09	4.29	4.28														
130	3.95	4.17	4.52	4.77	4.64														
135	4.26	4.40	4.69	4.91	4.74														
140	4.55	4.56	4.67	4.79	4.58														
145	4.78	4.68	4.64	4.66	4.42														
150	4.94	4.81	4.71	4.64	4.36														
155	5.09	4.98	4.81	4.70	4.38														
160	5.14	5.09	4.90	4.74	4.41														
165	4.91	4.94	4.79	4.62	4.29														
170	4.55	4.60	4.53	4.41	4.14														
175	4.36	4.41	4.37	4.24	3.94														
180	3.99	3.99	3.99	3.99	3.99														

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 GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 52.4%  
 Test Distance: 2.500m [K=1.0469]  
 Remarks: