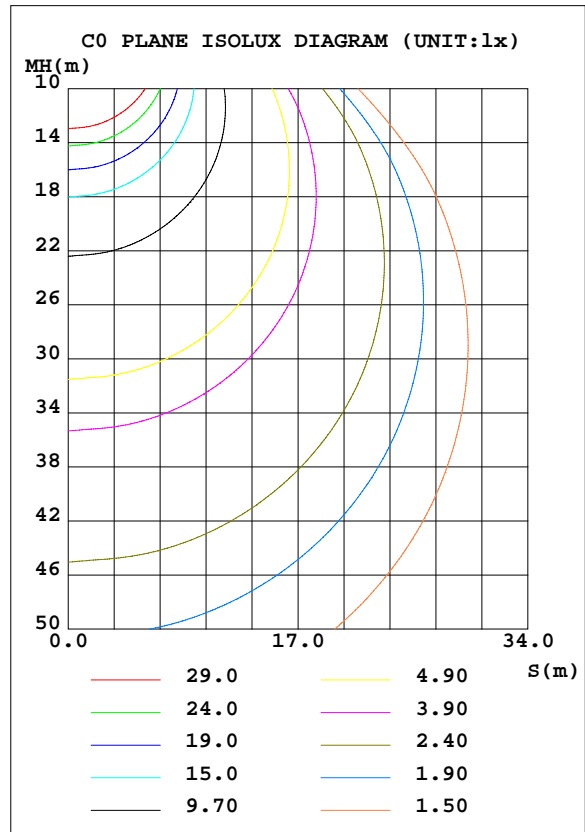
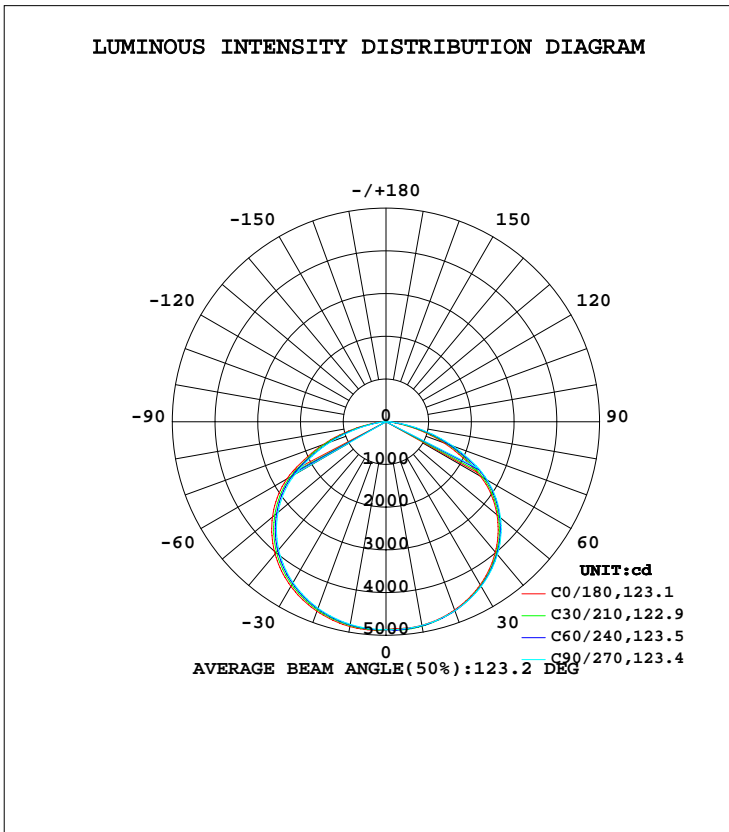


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.67 lm/W			
MODEL	ASD-UHB2-100D50-PRM	Imax(cd)	4893	S/MH(C0/180)	1.36
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	14800	η UP, DN(C0-180)	0.1,51.1
NOMINAL FLUX(lm)	14800	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,48.8
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	4839	4855	4841	4824	4868	4836	4815	4805	0- 10	463.3	463.3	3.01,3.01
20	4690	4710	4709	4690	4721	4675	4644	4637	10- 20	1349	1812	11.8,11.8
30	4411	4438	4452	4432	4450	4389	4348	4343	20- 30	2104	3916	25.5,25.5
40	3984	4029	4059	4039	4039	3963	3907	3908	30- 40	2638	6554	42.6,42.6
50	3391	3458	3502	3484	3469	3373	3299	3306	40- 50	2868	9422	61.2,61.2
60	2548	2675	2744	2732	2682	2561	2453	2413	50- 60	2711	12133	78.9,78.9
70	1441	1571	1675	1657	1569	1466	1373	1362	60- 70	2032	14166	92.1,92.1
80	399.9	500.1	587.2	581.7	500.5	412.3	347.3	351.2	70- 80	1020	15185	98.7,98.7
90	10.69	17.27	26.53	24.83	21.54	12.17	5.794	6.605	80- 90	180.9	15366	99.9,99.9
100	0.8920	0.8483	0.8063	0.7954	1.562	1.642	1.712	1.705	90-100	3.652	15370	99.9,99.9
110	1.283	1.239	1.226	1.210	2.000	2.037	2.077	2.112	100-110	1.545	15372	99.9,99.9
120	1.884	1.719	1.763	1.785	2.385	2.453	2.555	2.481	110-120	1.843	15373	99.9,99.9
130	2.538	2.345	2.319	2.398	3.309	3.466	3.550	3.276	120-130	2.227	15376	99.9,99.9
140	3.033	2.856	2.841	2.902	3.893	4.236	4.236	3.948	130-140	2.497	15378	100,100
150	3.262	3.099	3.213	3.176	4.313	4.578	4.542	4.305	140-150	2.292	15380	100,100
160	3.776	3.410	3.371	3.626	4.863	4.977	4.666	4.625	150-160	1.831	15382	100,100
170	4.174	3.971	3.803	4.074	5.049	5.100	4.750	4.671	160-170	1.227	15383	100,100
180	3.701	3.701	3.701	3.701	4.249	4.249	4.249	4.249	170-180	0.4265	15384	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7981.8 lm

%lum = 51.9%

%lamp = 51.9%

Conical surface Flux(120deg): 12133 lm

%lum = 78.9%

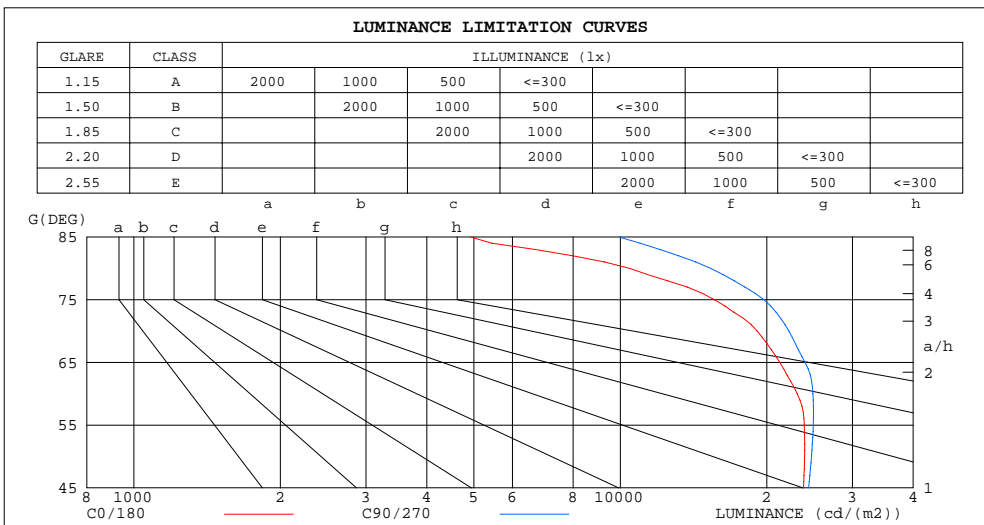
%lamp = 78.9%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4921	9935
80	10445	15336
75	15620	19742
70	19112	22215
65	21267	23975
60	23109	24885
55	23890	24929
50	23923	24707
45	23794	24386

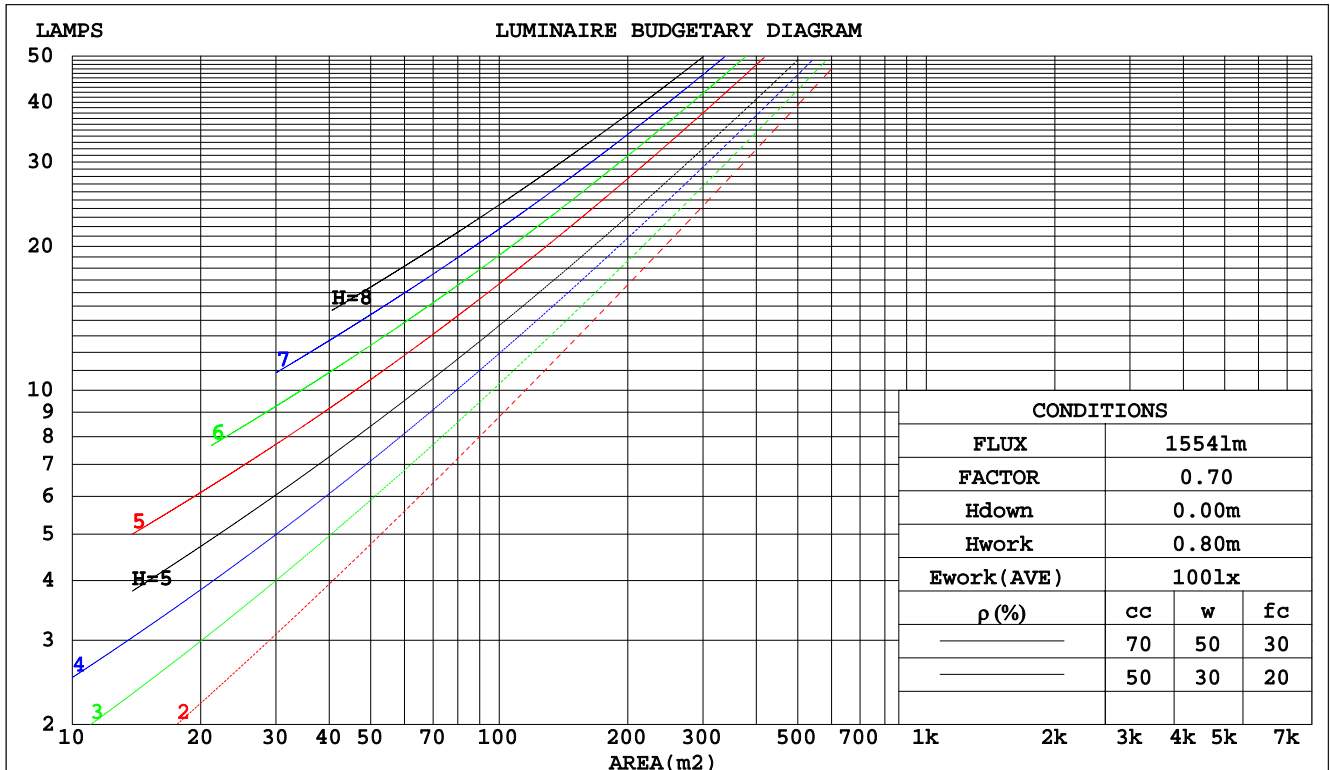
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	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	1.04	.00	.96	1.02	.98	.94	.98	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.50	.44	.39	.37
7.0	.50	.41	.35	.50	.41	.35	.48	.40	.35	.46	.40	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.36	.31	.41	.35	.30	.29
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26
10.0	.39	.31	.25	.38	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

WEC AND CCEC

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-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	.306	.174	.055	.299	.170	.054	.285	.164	.052	.273	.157	.051	.262	.152	.049	
2.0	.292	.160	.049	.285	.157	.048	.274	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.272	.145	.043	.266	.142	.043	.256	.139	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.233	.119	.034	.228	.117	.034	.220	.115	.034	.212	.112	.033	.205	.110	.033	
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030	
7.0	.201	.099	.028	.198	.098	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.024	.163	.082	.023	.158	.080	.023	
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.154	.076	.022	.149	.075	.022	

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	.181	.157	.136	.155	.135	.117	.106	.093	.081	.061	.054	.047	.020	.017	.015	
2.0	.173	.133	.099	.148	.114	.085	.102	.079	.060	.059	.046	.035	.019	.015	.011	
3.0	.166	.115	.075	.142	.099	.065	.098	.069	.046	.056	.040	.027	.018	.013	.009	
4.0	.158	.102	.059	.136	.088	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.151	.092	.048	.130	.079	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.040	.124	.072	.035	.085	.050	.024	.050	.030	.015	.016	.010	.005	
7.0	.137	.076	.034	.118	.066	.029	.082	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.131	.071	.029	.113	.061	.026	.078	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.125	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.119	.061	.023	.102	.053	.020	.071	.038	.014	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2-100D50-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	23.6	25.2	23.9	25.6	25.9	23.9	25.5	24.2	25.8	26.1
3H	25.2	26.7	25.5	27.0	27.4	25.7	27.2	26.1	27.5	27.9
4H	25.6	27.1	26.0	27.4	27.8	26.3	27.7	26.7	28.1	28.4
6H	25.9	27.2	26.3	27.6	28.0	26.7	28.0	27.1	28.4	28.8
8H	25.9	27.2	26.3	27.6	28.0	26.8	28.0	27.2	28.4	28.8
12H	25.9	27.1	26.3	27.5	27.9	26.8	28.0	27.2	28.4	28.8
4H 2H	24.2	25.6	24.6	26.0	26.4	24.5	25.9	24.9	26.3	26.6
3H	26.0	27.2	26.4	27.6	28.0	26.5	27.7	26.9	28.1	28.5
4H	26.6	27.7	27.0	28.1	28.5	27.3	28.3	27.7	28.8	29.2
6H	26.9	27.9	27.4	28.3	28.8	27.8	28.7	28.2	29.1	29.6
8H	27.0	27.8	27.4	28.3	28.8	27.9	28.8	28.3	29.2	29.7
12H	27.0	27.8	27.5	28.2	28.7	28.0	28.7	28.4	29.2	29.7
8H 4H	26.9	27.8	27.3	28.2	28.7	27.5	28.4	28.0	28.9	29.3
6H	27.3	28.0	27.8	28.5	29.0	28.1	28.8	28.6	29.3	29.8
8H	27.3	28.0	27.9	28.5	29.0	28.3	28.9	28.8	29.4	29.9
12H	27.4	27.9	27.9	28.4	29.0	28.4	29.0	28.9	29.5	30.0
12H 4H	26.9	27.7	27.4	28.2	28.6	27.6	28.3	28.0	28.8	29.3
6H	27.3	28.0	27.8	28.4	29.0	28.2	28.8	28.7	29.3	29.8
8H	27.4	28.0	27.9	28.5	29.0	28.4	28.9	28.9	29.4	30.0
CIE190: 2010										

CIE190: 2010  
Area: 0.220507 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.1DEG  
Operators: Alan Wang  
Test Date: 23 January 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 47.9%  
Test Distance: 2.500m [K=1.0459]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

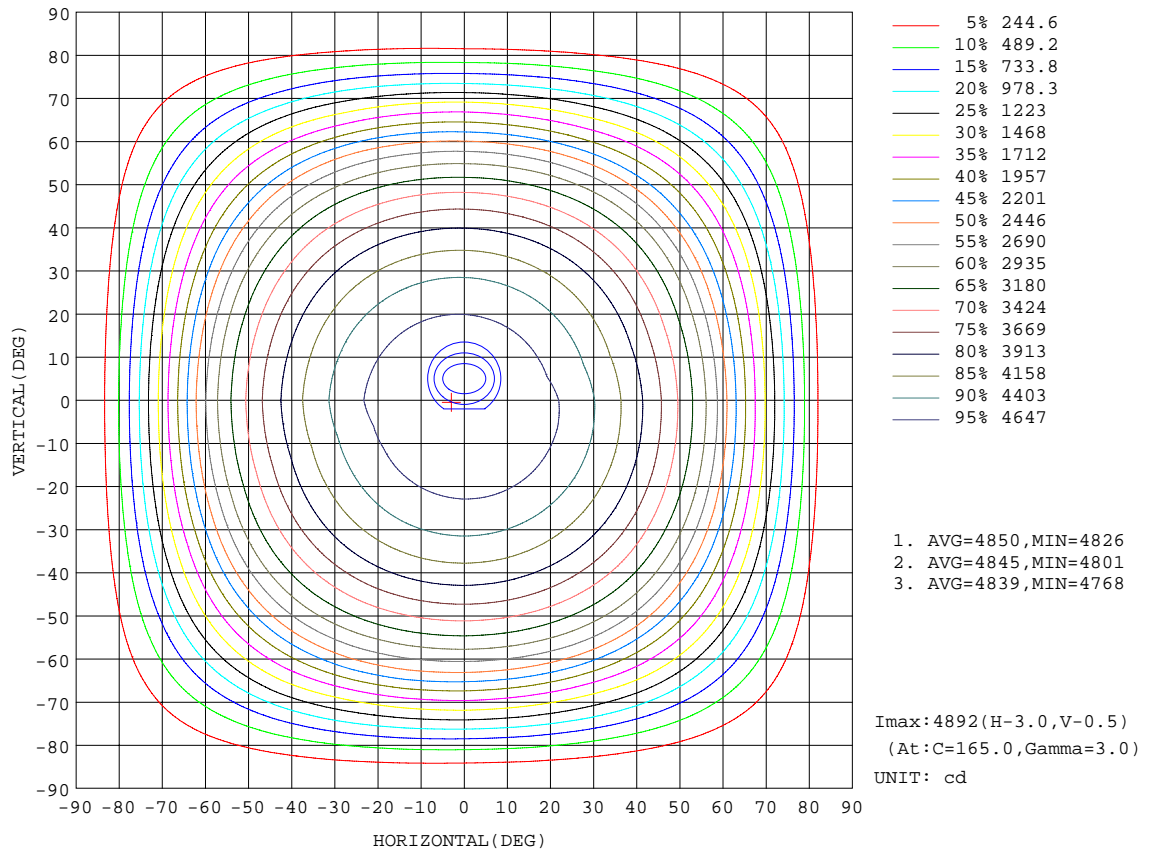
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	44	37	30
0.80	66	55	47	65	54	47	64	53	46	39
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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: 23 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



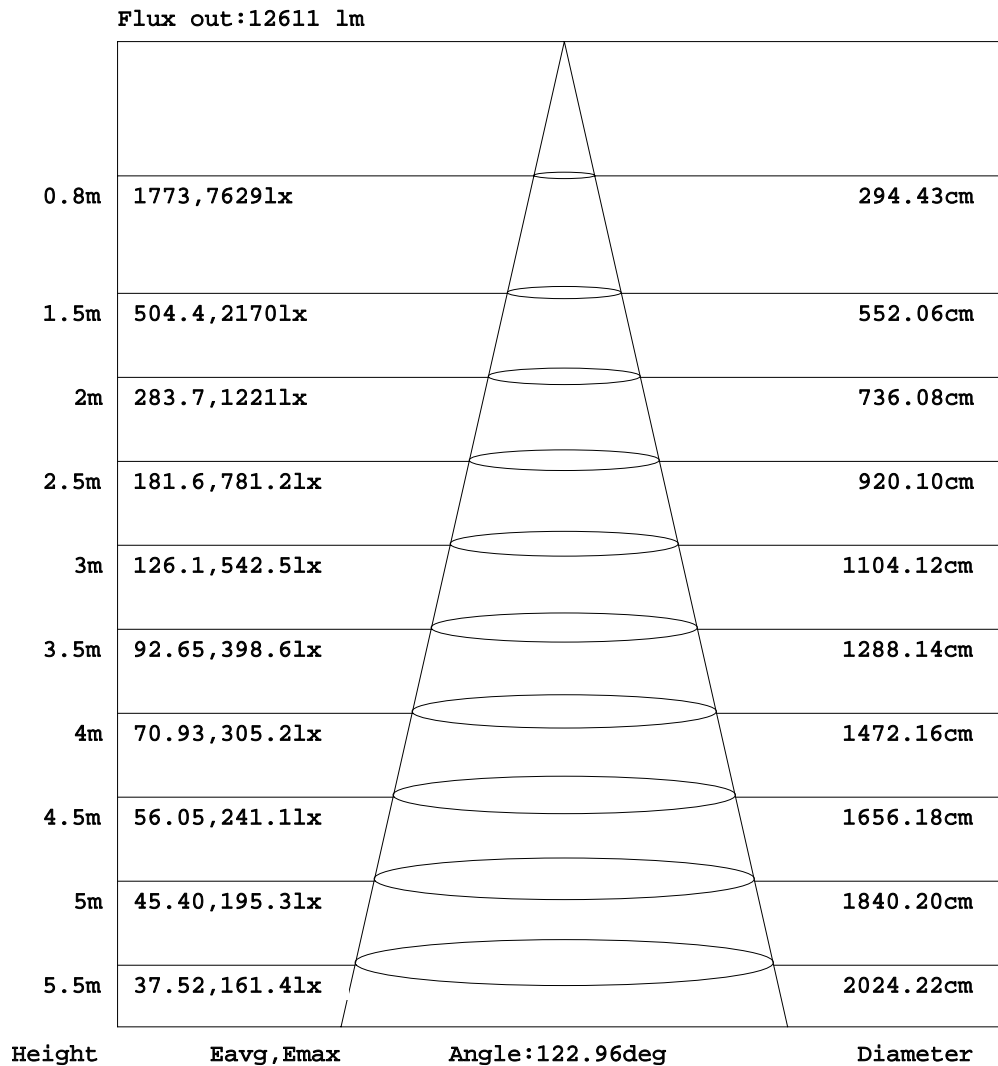
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:



AAI Figure

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



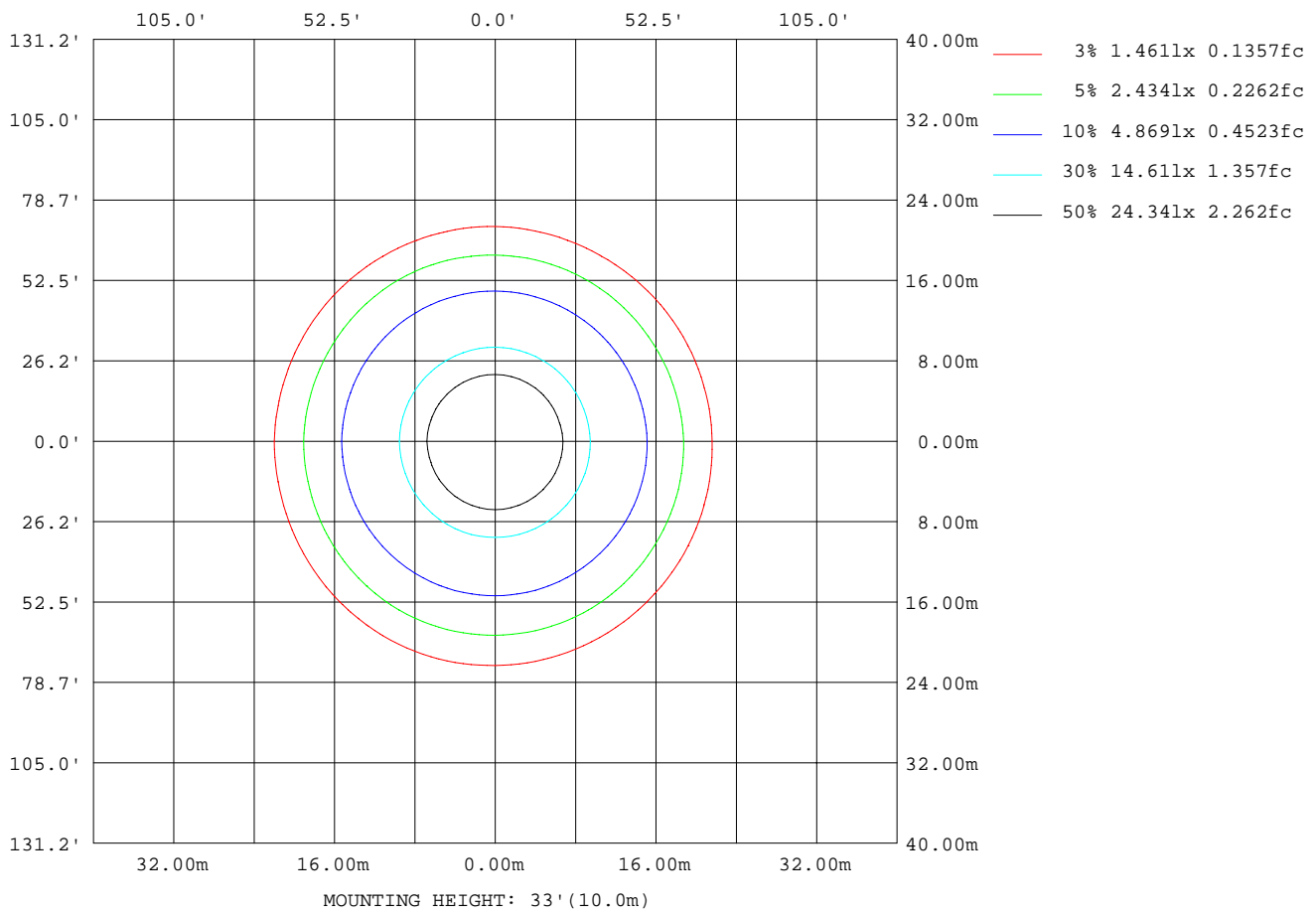
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-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: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

## LED Avg.L Report

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

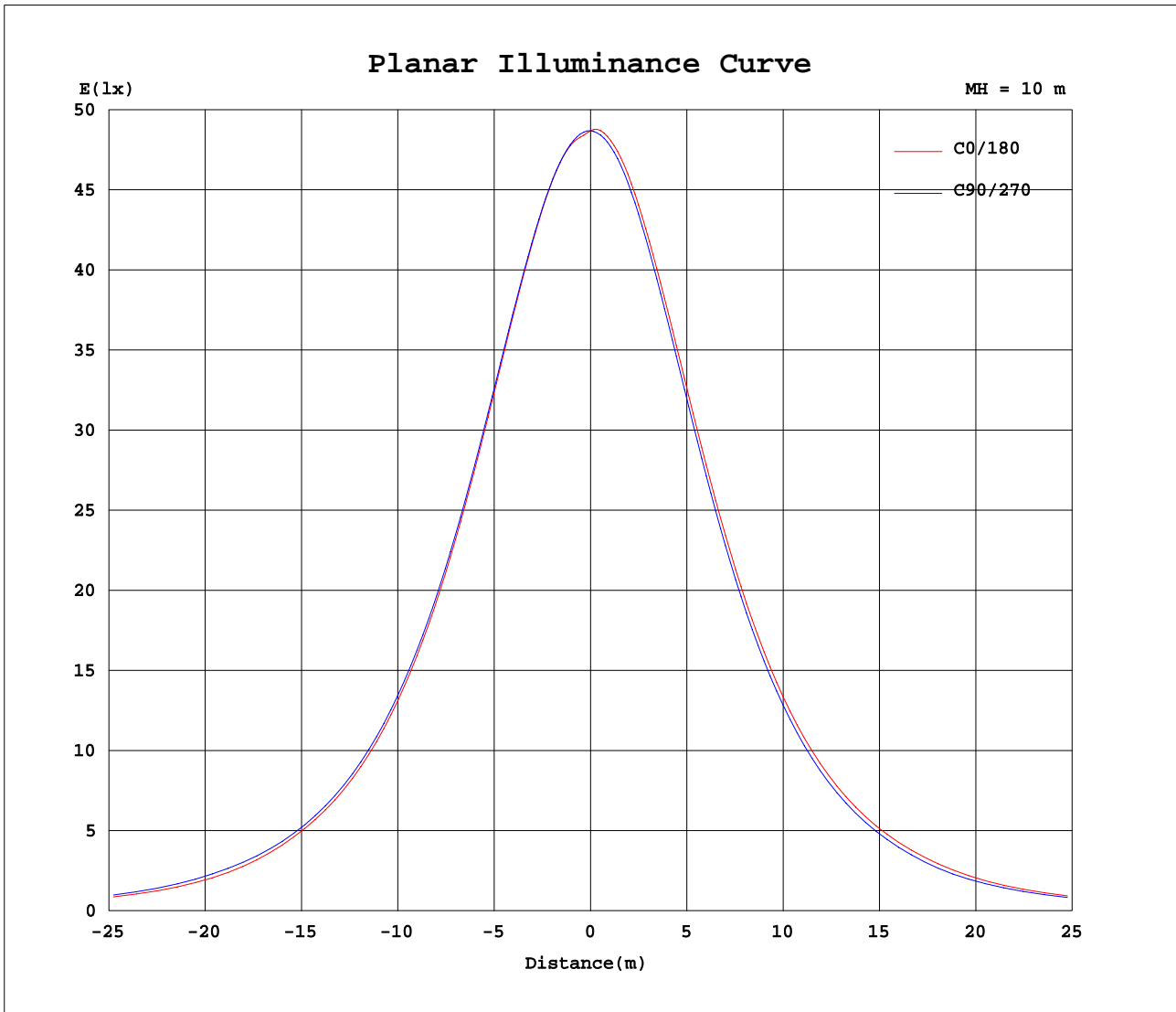
AvgL	cd/m2
L_0~180(65)av	21976
L_0~180(75)av	16708
L_0~180(85)av	6051
L_90~270(65)av	22215
L_90~270(75)av	16963
L_90~270(85)av	6860
L_45(65)av	22014
L_45(75)av	16788
L_45(85)av	6403

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-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	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869	4869
5	4854	4875	4887	4885	4878	4872	4864	4857	4850	4848	4861	4882	4889	4881	4875	4869	4863	4858	4853
10	4839	4857	4859	4855	4851	4846	4841	4835	4829	4824	4824	4843	4868	4857	4846	4836	4828	4821	4815
15	4781	4797	4798	4797	4796	4793	4790	4785	4779	4772	4768	4779	4810	4795	4783	4770	4760	4751	4744
20	4690	4705	4708	4710	4711	4711	4709	4704	4698	4690	4682	4688	4721	4704	4689	4675	4663	4652	4644
25	4567	4581	4586	4591	4594	4597	4597	4592	4586	4577	4567	4568	4603	4583	4566	4549	4534	4521	4512
30	4411	4425	4431	4438	4445	4450	4452	4449	4443	4432	4420	4417	4450	4428	4409	4389	4371	4358	4348
35	4218	4233	4243	4252	4261	4270	4274	4272	4265	4254	4240	4233	4265	4239	4216	4194	4174	4158	4147
40	3984	4005	4017	4029	4042	4053	4059	4057	4050	4039	4023	4011	4039	4011	3987	3963	3940	3921	3907
45	3710	3733	3750	3766	3782	3795	3802	3802	3795	3783	3767	3751	3776	3745	3716	3690	3664	3643	3627
50	3391	3416	3436	3458	3477	3494	3502	3502	3496	3484	3466	3446	3469	3432	3399	3373	3343	3318	3299
55	3022	3049	3074	3101	3126	3143	3153	3155	3150	3136	3116	3095	3110	3069	3032	3003	2974	2944	2922
60	2548	2591	2629	2675	2712	2731	2744	2753	2749	2732	2702	2673	2682	2627	2587	2561	2533	2491	2453
65	1982	2026	2069	2111	2164	2206	2234	2262	2250	2208	2158	2119	2114	2068	2033	2002	1961	1931	1906
70	1441	1490	1533	1571	1592	1635	1675	1678	1664	1657	1621	1573	1569	1542	1510	1466	1414	1393	1373
75	891	925	963	1014	1059	1098	1127	1135	1130	1114	1074	1030	1016	977	938	893	866	833	809
80	400	429	459	500	537	570	587	601	598	582	551	520	501	468	436	412	390	368	347
85	94.6	109	122	140	163	181	191	201	200	187	171	151	138	126	110	95.1	86.7	81.3	72.7
90	10.7	12.6	14.6	17.3	21.4	24.4	26.5	27.3	27.2	24.8	21.5	18.5	21.5	18.2	15.1	12.2	9.73	8.17	5.79
95	0.69	0.68	0.68	0.89	1.06	1.26	1.12	1.35	1.14	0.96	0.79	1.07	1.23	1.26	1.29	1.31	1.34	1.36	1.38
100	0.89	0.87	0.86	0.85	0.83	0.82	0.81	0.80	0.79	0.80	0.80	0.83	1.56	1.58	1.62	1.64	1.67	1.69	1.71
105	1.08	1.06	1.04	1.04	1.03	1.02	1.02	1.01	1.00	1.00	1.00	1.01	1.85	1.85	1.88	1.90	1.92	1.94	1.95
110	1.28	1.25	1.23	1.24	1.24	1.22	1.23	1.22	1.21	1.21	1.20	1.21	2.00	1.99	2.01	2.04	2.07	2.08	2.08
115	1.54	1.50	1.45	1.47	1.46	1.46	1.46	1.50	1.49	1.48	1.47	1.47	2.18	2.14	2.14	2.18	2.23	2.22	2.28
120	1.88	1.82	1.73	1.72	1.75	1.75	1.76	1.80	1.80	1.79	1.77	1.79	2.39	2.39	2.41	2.45	2.48	2.48	2.55
125	2.22	2.10	2.02	2.01	2.04	2.03	2.06	2.05	2.09	2.08	2.07	2.11	2.83	2.84	2.85	2.92	2.93	2.95	3.01
130	2.54	2.43	2.34	2.34	2.35	2.29	2.32	2.32	2.38	2.40	2.40	2.43	3.31	3.36	3.40	3.47	3.49	3.54	3.55
135	2.83	2.76	2.65	2.61	2.71	2.62	2.63	2.66	2.70	2.65	2.72	2.73	3.71	3.80	3.88	3.93	3.94	4.06	4.01
140	3.03	3.00	2.89	2.86	2.88	2.80	2.84	2.86	2.88	2.90	2.90	2.98	3.89	4.01	4.11	4.24	4.23	4.31	4.24
145	3.16	3.16	3.03	3.01	3.04	3.05	3.03	3.05	3.06	3.03	2.97	3.09	4.12	4.23	4.31	4.43	4.46	4.50	4.43
150	3.26	3.27	3.18	3.10	3.17	3.22	3.21	3.24	3.22	3.18	3.12	3.19	4.31	4.41	4.46	4.58	4.61	4.65	4.54
155	3.52	3.53	3.45	3.23	3.22	3.23	3.25	3.32	3.35	3.36	3.38	3.41	4.55	4.57	4.68	4.73	4.73	4.73	4.52
160	3.78	3.76	3.65	3.41	3.37	3.39	3.37	3.49	3.55	3.63	3.69	3.72	4.86	4.84	4.89	4.98	4.95	4.88	4.67
165	3.92	3.95	3.89	3.74	3.63	3.59	3.51	3.74	3.88	3.98	3.96	3.96	5.00	5.02	5.08	5.17	5.21	5.12	4.89
170	4.17	4.17	4.11	3.97	3.84	3.82	3.80	3.95	4.05	4.07	4.05	4.11	5.05	5.03	5.06	5.10	5.10	4.99	4.75
175	4.48	4.42	4.32	4.20	4.08	4.01	3.96	4.03	4.12	4.19	4.24	4.33	4.98	4.96	4.97	5.00	4.99	4.89	4.73
180	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	4.25	4.25	4.25	4.25	4.25	4.25	4.25

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.01V I:0.8358A P:100.11W PF:0.9980 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D50-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	4869	4869	4869	4869	4869														
5	4849	4845	4843	4841	4841														
10	4810	4807	4805	4805	4809														
15	4739	4736	4735	4736	4741														
20	4638	4636	4637	4639	4645														
25	4506	4504	4506	4511	4519														
30	4341	4340	4343	4350	4360														
35	4140	4139	4144	4153	4166														
40	3901	3902	3908	3918	3932														
45	3621	3623	3630	3642	3657														
50	3294	3296	3306	3319	3338														
55	2915	2914	2924	2940	2965														
60	2434	2423	2413	2429	2476														
65	1875	1863	1885	1916	1944														
70	1352	1340	1362	1386	1424														
75	799	801	811	834	859														
80	348	345	351	360	384														
85	70.7	68.4	70.2	76.4	83.8														
90	5.58	5.87	6.61	7.86	9.55														
95	1.39	1.39	1.38	1.35	1.30														
100	1.72	1.72	1.70	1.68	1.62														
105	1.96	1.98	1.97	1.94	1.90														
110	2.11	2.11	2.11	2.10	2.04														
115	2.27	2.26	2.25	2.25	2.19														
120	2.54	2.50	2.48	2.47	2.42														
125	2.95	2.90	2.89	2.84	2.79														
130	3.49	3.43	3.28	3.24	3.22														
135	3.93	3.78	3.65	3.67	3.63														
140	4.08	3.94	3.95	3.94	3.81														
145	4.28	4.22	4.11	4.11	4.02														
150	4.40	4.31	4.31	4.26	4.14														
155	4.47	4.44	4.41	4.54	4.34														
160	4.54	4.58	4.63	4.71	4.48														
165	4.75	4.75	4.83	4.85	4.57														
170	4.69	4.65	4.67	4.77	4.55														
175	4.62	4.61	4.67	4.70	4.59														
180	4.25	4.25	4.25	4.25	4.25														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.9%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks: