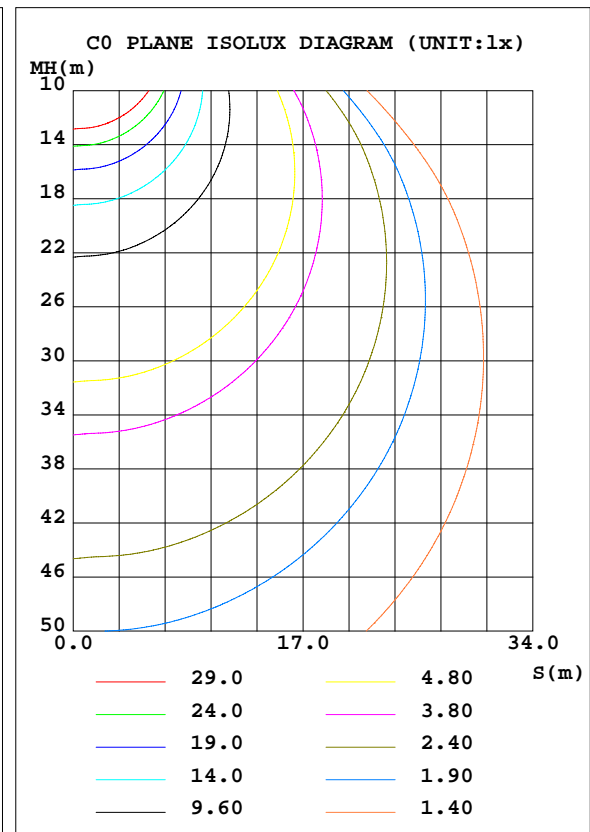
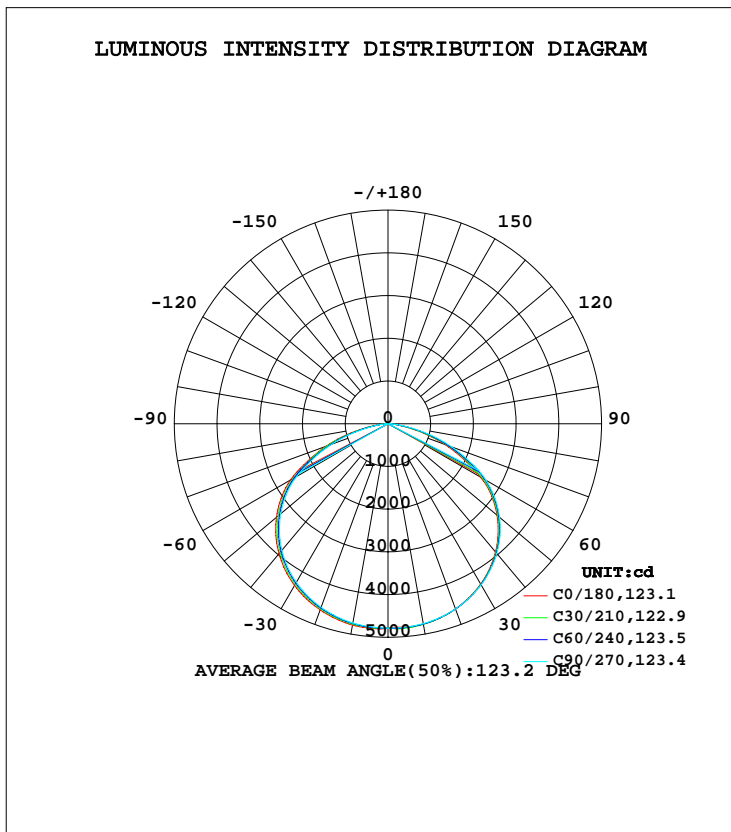


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.08 lm/W			
MODEL	ASD-UHB2-100D40-PRM	I <sub>max</sub> (cd)	4811	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)	14700	η UP, DN(C0-180)	0.0,50.7
NOMINAL FLUX(lm)	14700	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,49.2
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: 25.0DEG  
 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: 47.6%  
 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	4760	4766	4751	4737	4784	4756	4736	4724	0- 10	455.2	455.2	3.01,3.01
20	4612	4619	4616	4601	4639	4601	4573	4562	10- 20	1325	1781	11.8,11.8
30	4336	4348	4358	4343	4373	4324	4289	4279	20- 30	2067	3847	25.5,25.5
40	3915	3941	3964	3952	3969	3911	3864	3857	30- 40	2592	6440	42.6,42.6
50	3332	3374	3408	3401	3408	3337	3276	3272	40- 50	2818	9258	61.3,61.3
60	2504	2595	2652	2654	2635	2553	2466	2410	50- 60	2665	11923	78.9,78.9
70	1416	1507	1592	1592	1542	1478	1402	1376	60- 70	1997	13919	92.1,92.1
80	392.9	458.3	529.9	538.1	491.8	432.6	377.6	370.1	70- 80	1001	14920	98.7,98.7
90	10.50	14.32	19.25	19.83	21.16	14.35	8.029	8.025	80- 90	174.2	15094	99.9,99.9
100	0.8763	0.8479	0.8122	0.7952	1.535	1.592	1.651	1.653	90-100	3.276	15098	99.9,99.9
110	1.260	1.232	1.223	1.206	1.965	1.992	2.024	2.066	100-110	1.518	15099	99.9,99.9
120	1.852	1.705	1.761	1.775	2.343	2.383	2.474	2.414	110-120	1.812	15101	99.9,99.9
130	2.496	2.323	2.303	2.373	3.251	3.372	3.437	3.191	120-130	2.183	15103	99.9,99.9
140	2.980	2.823	2.799	2.868	3.828	4.149	4.137	3.863	130-140	2.453	15106	100,100
150	3.203	3.049	3.170	3.130	4.242	4.493	4.466	4.220	140-150	2.253	15108	100,100
160	3.710	3.366	3.319	3.589	4.774	4.883	4.566	4.515	150-160	1.801	15110	100,100
170	4.098	3.934	3.755	4.004	4.957	5.033	4.684	4.575	160-170	1.208	15111	100,100
180	4.015	4.015	4.015	4.015	4.301	4.301	4.301	4.301	170-180	0.4209	15111	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7842.3 lm

%lum = 51.9%

%lamp = 51.9%

Conical surface Flux(120deg): 11923 lm

%lum = 78.9%

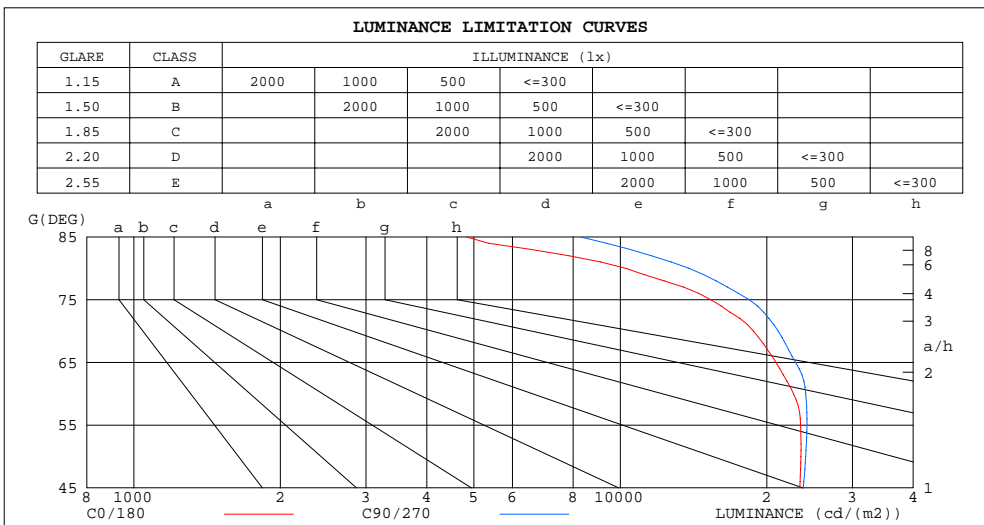
%lamp = 78.9%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4835	8290
80	10261	13838
75	15348	18402
70	18776	21111
65	20896	22921
60	22711	24052
55	23476	24193
50	23509	24045
45	23384	23780

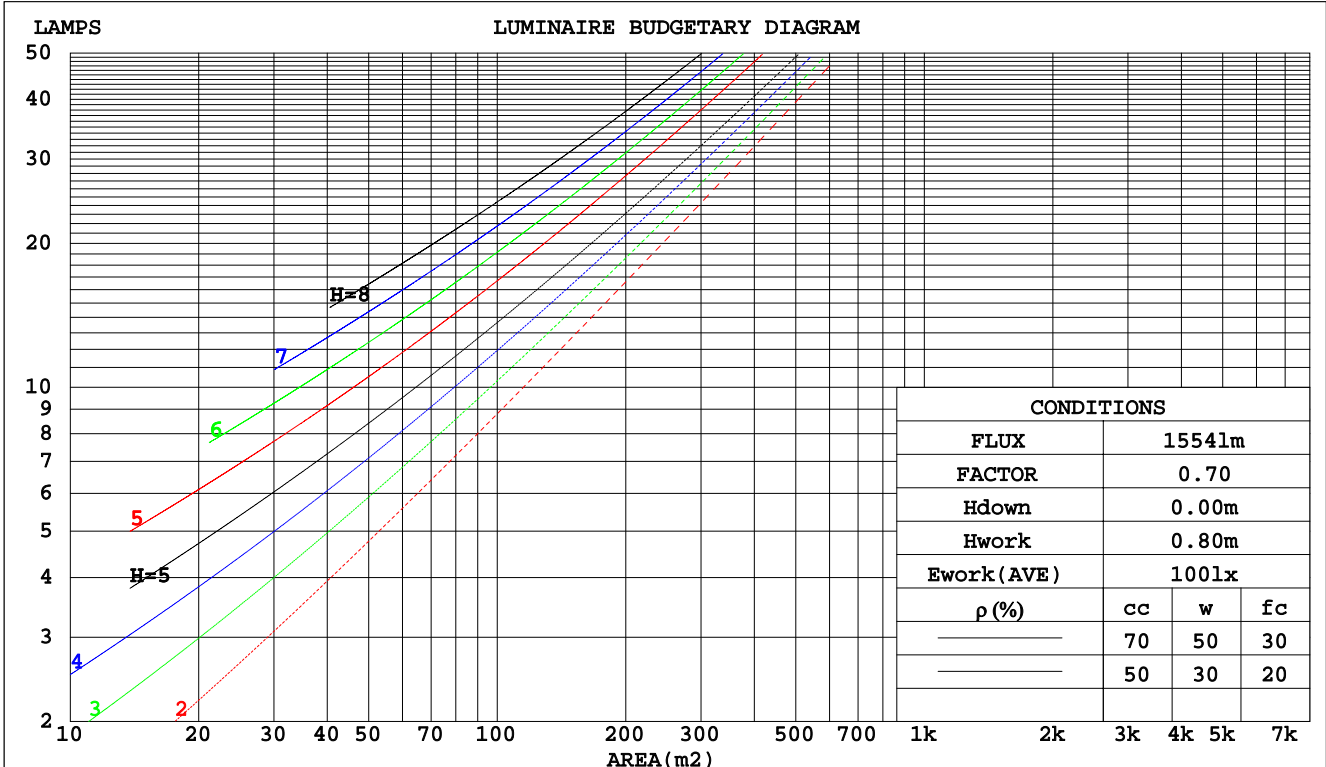
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-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																
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: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

WEC AND CCEC

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-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	.305	.174	.055	.298	.170	.054	.285	.163	.052	.273	.157	.050	.261	.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	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.251	.131	.038	.246	.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	.191	.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	.020	.020	.020	
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	.097	.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: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2-100D40W-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	23.5	25.1	23.9	25.5	25.8	23.7	25.4	24.1	25.7	26.0
3H	25.1	26.6	25.4	26.9	27.3	25.5	27.0	25.8	27.3	27.7
4H	25.5	27.0	25.9	27.3	27.7	26.1	27.5	26.5	27.8	28.2
6H	25.8	27.1	26.2	27.5	27.9	26.4	27.7	26.8	28.1	28.5
8H	25.8	27.1	26.2	27.5	27.9	26.5	27.7	26.9	28.1	28.5
12H	25.8	27.0	26.2	27.4	27.8	26.5	27.7	26.9	28.1	28.5
4H 2H	24.1	25.5	24.5	25.9	26.2	24.3	25.8	24.7	26.1	26.5
3H	25.9	27.1	26.3	27.5	27.9	26.3	27.5	26.7	27.9	28.3
4H	26.5	27.5	26.9	28.0	28.4	27.0	28.1	27.5	28.5	28.9
6H	26.8	27.7	27.3	28.2	28.6	27.5	28.4	27.9	28.9	29.3
8H	26.8	27.7	27.3	28.2	28.6	27.6	28.4	28.0	28.9	29.4
12H	26.9	27.6	27.3	28.1	28.6	27.6	28.4	28.1	28.9	29.4
8H 4H	26.7	27.6	27.2	28.0	28.5	27.3	28.2	27.8	28.6	29.1
6H	27.1	27.8	27.6	28.3	28.8	27.8	28.5	28.3	29.0	29.5
8H	27.2	27.8	27.7	28.3	28.8	28.0	28.6	28.5	29.1	29.6
12H	27.2	27.8	27.7	28.3	28.8	28.1	28.6	28.6	29.1	29.7
12H 4H	26.7	27.5	27.2	28.0	28.5	27.3	28.1	27.8	28.6	29.0
6H	27.1	27.8	27.7	28.3	28.8	27.9	28.5	28.4	29.0	29.5
8H	27.2	27.8	27.7	28.3	28.9	28.0	28.6	28.5	29.1	29.6
CIE190: 2010										

CIE190: 2010  
Area: 0.220507 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
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: 47.6%  
Test Distance: 2.500m [K=1.0459]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

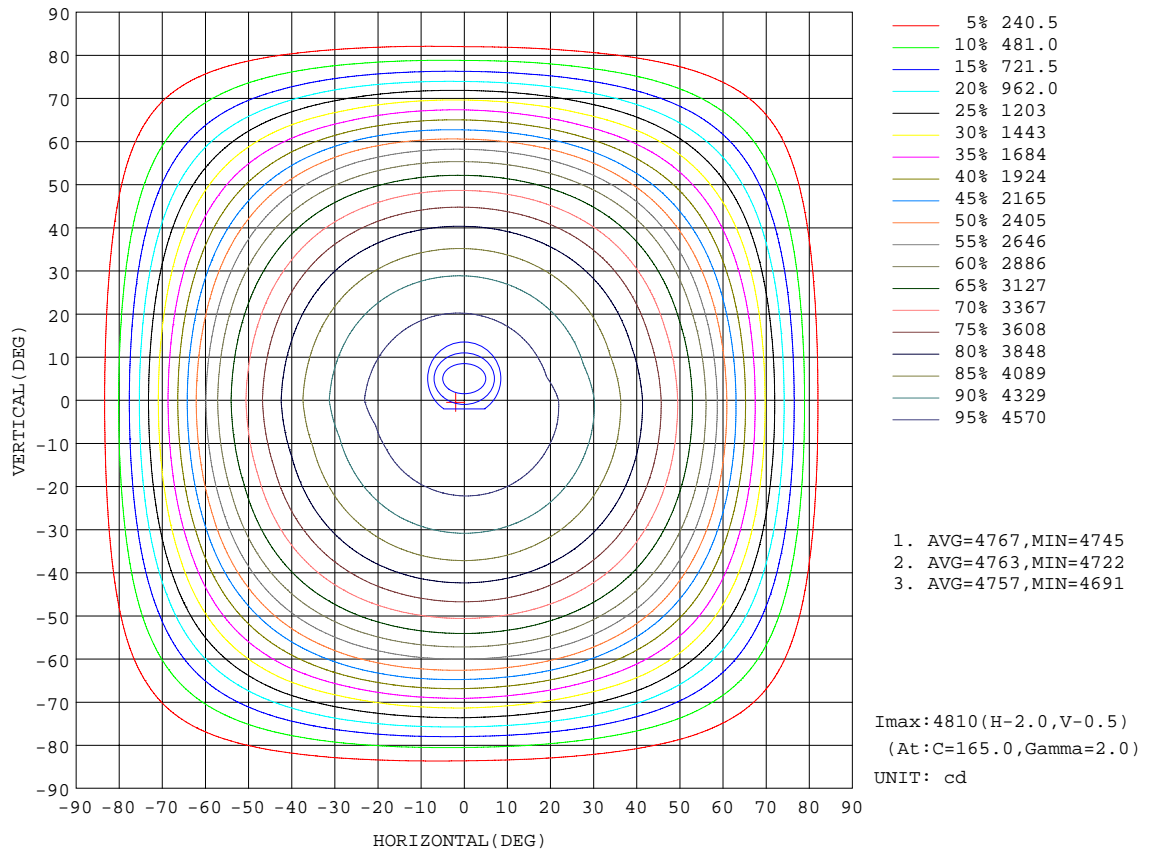
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	44	37	30
0.80	66	55	47	65	54	47	64	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	71	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: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



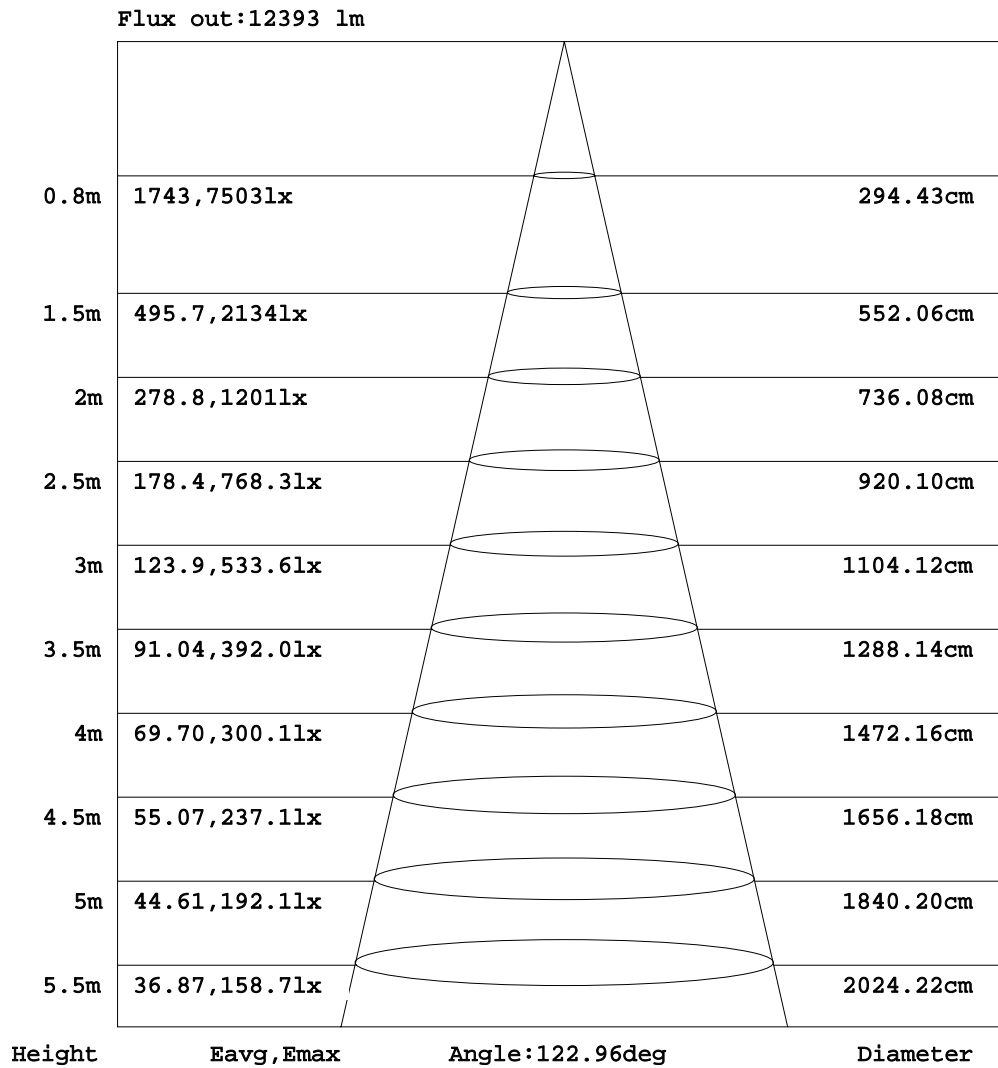
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 23 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:



AAI Figure

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



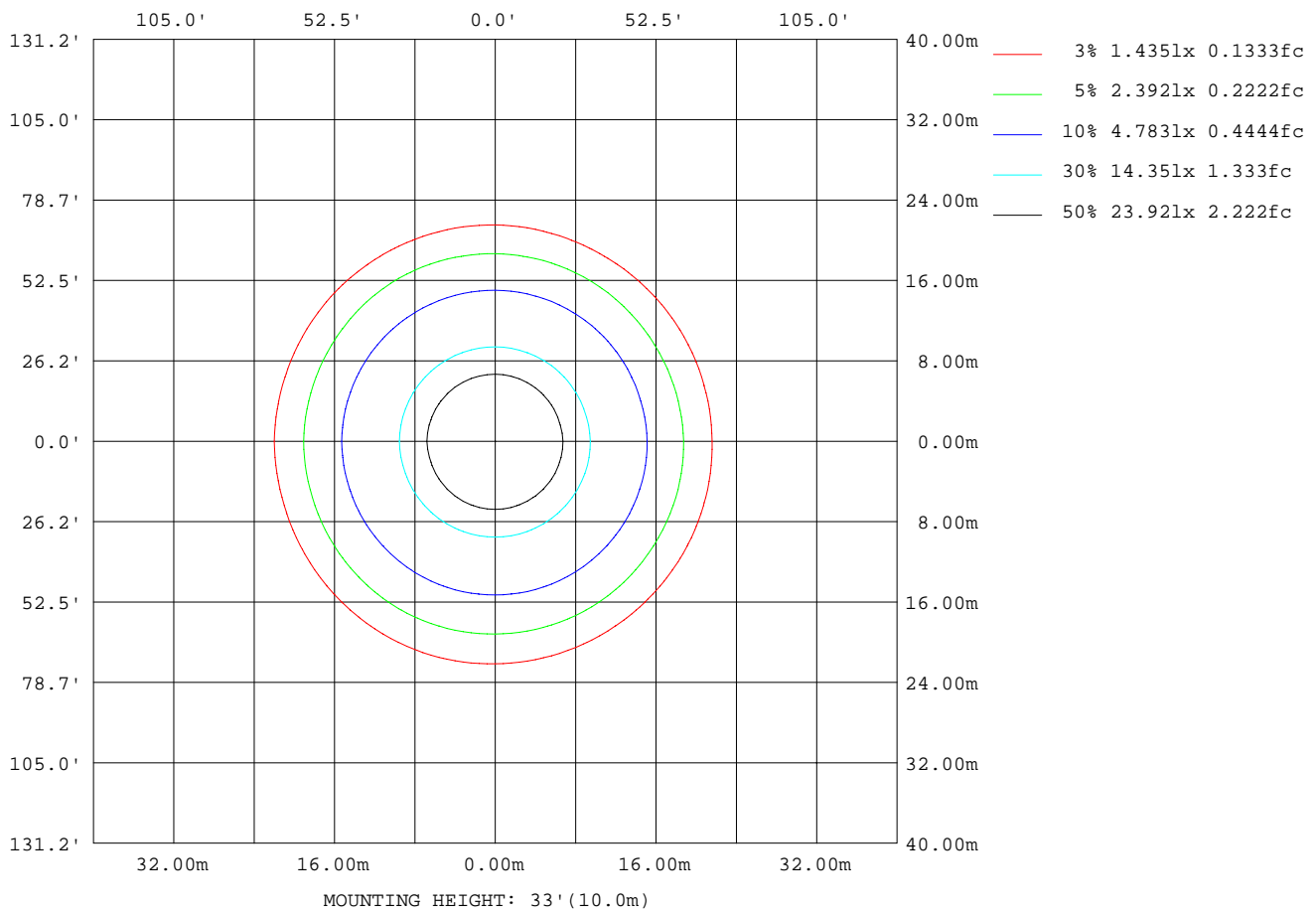
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

## LED Avg.L Report

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

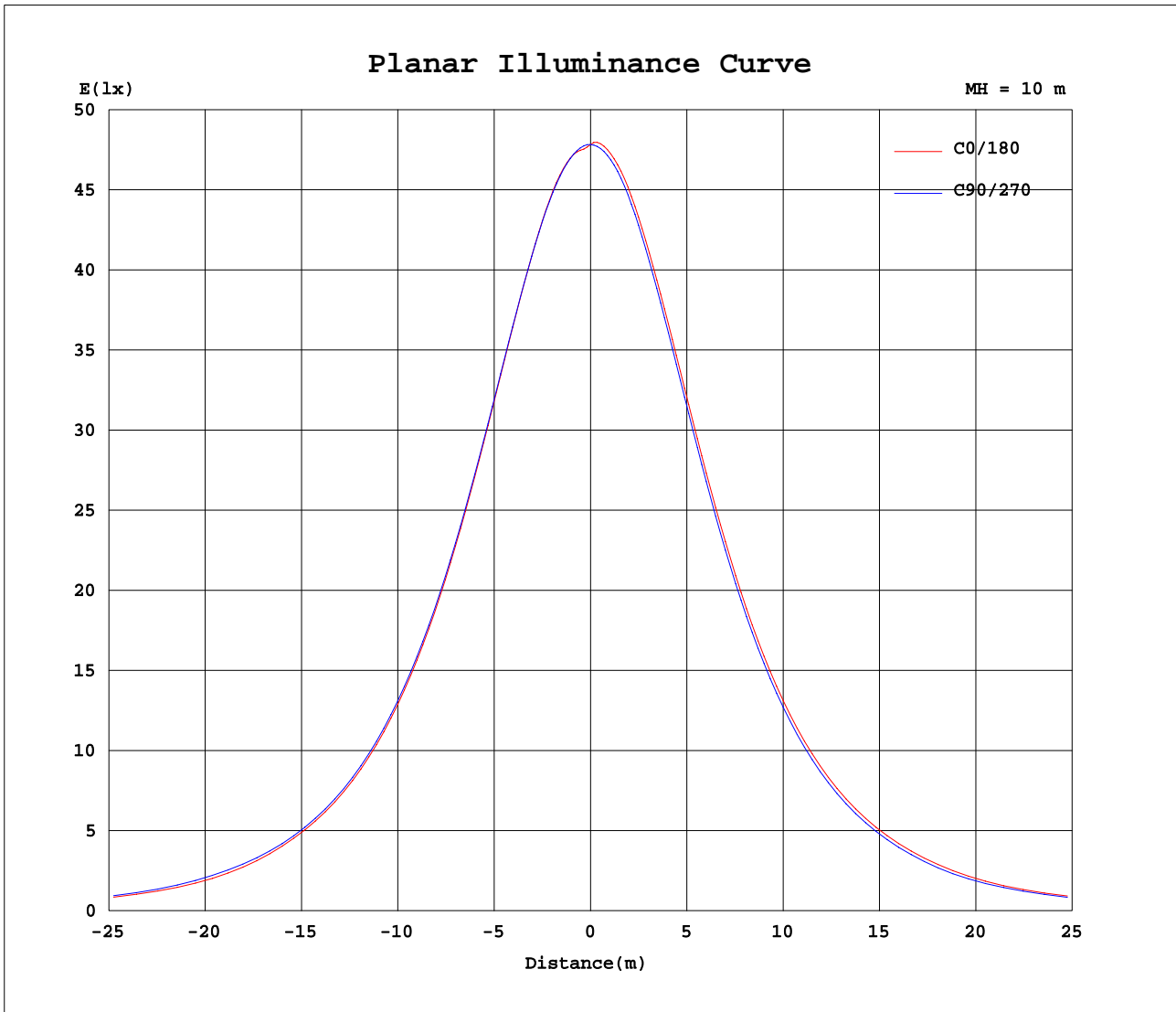
AvgL	cd/m2
L_0~180(65)av	21593
L_0~180(75)av	16417
L_0~180(85)av	5945
L_90~270(65)av	21783
L_90~270(75)av	16607
L_90~270(85)av	6383
L_45(65)av	21607
L_45(75)av	16462
L_45(85)av	6059

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.0DEG  
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: 47.6%  
Test Distance: 2.500m [K=1.0459]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-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	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783	4783
5	4775	4798	4802	4795	4790	4783	4777	4770	4764	4760	4764	4790	4806	4798	4791	4785	4780	4775	4770
10	4760	4773	4771	4766	4761	4756	4751	4746	4742	4737	4734	4750	4784	4774	4765	4756	4748	4741	4736
15	4702	4712	4710	4708	4706	4702	4699	4694	4690	4684	4679	4687	4726	4714	4703	4693	4684	4675	4669
20	4612	4620	4619	4619	4619	4618	4616	4612	4607	4601	4594	4598	4639	4625	4613	4601	4590	4581	4573
25	4490	4497	4499	4500	4502	4503	4502	4499	4495	4488	4480	4481	4523	4507	4493	4479	4466	4456	4447
30	4336	4343	4345	4348	4352	4356	4358	4355	4351	4343	4335	4332	4373	4355	4340	4324	4310	4298	4289
35	4146	4154	4159	4163	4169	4176	4179	4178	4173	4166	4156	4151	4191	4171	4153	4136	4119	4106	4095
40	3915	3928	3935	3941	3950	3959	3964	3963	3959	3952	3941	3933	3969	3948	3930	3911	3892	3876	3864
45	3646	3661	3670	3680	3691	3702	3708	3708	3705	3698	3687	3676	3710	3687	3666	3646	3625	3607	3593
50	3332	3347	3359	3374	3388	3401	3408	3409	3407	3401	3389	3376	3408	3381	3356	3337	3314	3293	3276
55	2969	2986	3001	3020	3039	3052	3060	3063	3063	3055	3042	3030	3056	3026	2999	2979	2956	2930	2911
60	2504	2533	2558	2595	2626	2640	2652	2663	2665	2654	2633	2614	2635	2595	2570	2553	2534	2498	2466
65	1947	1977	2007	2034	2075	2110	2136	2168	2161	2129	2092	2066	2077	2045	2022	2004	1975	1948	1924
70	1416	1451	1479	1507	1518	1555	1592	1596	1586	1592	1567	1531	1542	1529	1510	1478	1432	1420	1402
75	876	895	919	957	993	1025	1050	1063	1065	1055	1026	996	998	973	947	915	897	868	845
80	393	410	427	458	487	515	530	545	546	538	517	498	492	470	448	433	417	397	378
85	92.9	101	108	119	136	151	159	168	170	163	153	140	136	128	117	105	99.4	93.5	86.0
90	10.5	11.7	12.9	14.3	16.3	17.9	19.3	20.1	20.7	19.8	18.5	17.1	21.2	18.9	16.7	14.4	12.3	11.3	8.03
95	0.68	0.67	0.66	0.67	0.68	0.72	0.62	0.73	0.67	0.64	0.63	0.81	1.21	1.23	1.25	1.27	1.29	1.31	1.32
100	0.88	0.86	0.86	0.85	0.84	0.82	0.81	0.80	0.80	0.80	0.80	0.81	1.53	1.55	1.57	1.59	1.61	1.63	1.65
105	1.06	1.05	1.03	1.03	1.03	1.02	1.02	1.01	1.00	1.00	0.99	0.99	1.82	1.82	1.84	1.86	1.88	1.89	1.90
110	1.26	1.24	1.22	1.23	1.24	1.21	1.22	1.22	1.21	1.21	1.19	1.19	1.96	1.95	1.96	1.99	2.02	2.03	2.02
115	1.52	1.48	1.44	1.47	1.45	1.46	1.46	1.50	1.48	1.47	1.45	1.45	2.14	2.10	2.10	2.13	2.17	2.17	2.21
120	1.85	1.80	1.71	1.71	1.75	1.75	1.76	1.79	1.80	1.78	1.75	1.76	2.34	2.33	2.35	2.38	2.41	2.41	2.47
125	2.18	2.07	2.00	1.99	2.03	2.02	2.05	2.04	2.08	2.07	2.05	2.07	2.78	2.78	2.77	2.83	2.84	2.84	2.90
130	2.50	2.39	2.31	2.32	2.35	2.28	2.30	2.30	2.36	2.37	2.38	2.39	3.25	3.29	3.31	3.37	3.38	3.42	3.44
135	2.78	2.73	2.61	2.58	2.69	2.61	2.62	2.65	2.68	2.62	2.69	2.68	3.65	3.73	3.80	3.84	3.84	3.96	3.91
140	2.98	2.96	2.85	2.82	2.84	2.76	2.80	2.82	2.85	2.87	2.85	2.92	3.83	3.94	4.03	4.15	4.13	4.22	4.14
145	3.10	3.12	2.99	2.96	3.00	3.02	3.00	3.01	3.02	2.98	2.92	3.03	4.05	4.16	4.23	4.36	4.37	4.41	4.34
150	3.20	3.23	3.13	3.05	3.11	3.17	3.17	3.19	3.17	3.13	3.07	3.12	4.24	4.34	4.37	4.49	4.52	4.56	4.47
155	3.45	3.48	3.43	3.17	3.18	3.19	3.20	3.28	3.30	3.31	3.34	3.33	4.47	4.49	4.60	4.64	4.64	4.65	4.43
160	3.71	3.71	3.62	3.37	3.32	3.34	3.32	3.45	3.50	3.59	3.64	3.63	4.77	4.76	4.80	4.88	4.83	4.77	4.57
165	3.85	3.89	3.85	3.71	3.59	3.56	3.49	3.72	3.85	3.94	3.89	3.88	4.91	4.93	4.99	5.08	5.11	5.02	4.79
170	4.10	4.11	4.07	3.93	3.78	3.77	3.76	3.89	3.99	4.00	3.98	4.03	4.96	4.94	4.99	5.03	5.03	4.93	4.68
175	4.42	4.39	4.32	4.20	4.06	3.98	3.92	4.00	4.10	4.17	4.21	4.28	4.89	4.87	4.90	4.94	4.92	4.81	4.66
180	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.30	4.30	4.30	4.30	4.30	4.30	4.30

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.8356A P:100.02W PF:0.9973 Freq:60.01Hz Lamp Flux:14700x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-100D40W-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	4783	4783	4783	4783	4783														
5	4765	4761	4758	4756	4755														
10	4730	4727	4724	4723	4725														
15	4664	4660	4657	4656	4659														
20	4567	4564	4562	4562	4566														
25	4440	4437	4437	4439	4443														
30	4281	4278	4279	4282	4287														
35	4087	4085	4086	4091	4098														
40	3857	3855	3857	3862	3869														
45	3585	3584	3587	3593	3600														
50	3269	3268	3272	3278	3288														
55	2902	2898	2902	2910	2924														
60	2445	2429	2410	2414	2447														
65	1892	1875	1888	1908	1923														
70	1378	1360	1376	1390	1414														
75	832	829	831	844	857														
80	377	369	370	370	386														
85	81.9	78.3	78.0	81.4	84.8														
90	7.61	7.60	8.02	8.91	10.0														
95	1.33	1.34	1.33	1.31	1.27														
100	1.66	1.66	1.65	1.64	1.60														
105	1.91	1.93	1.92	1.90	1.87														
110	2.06	2.06	2.07	2.05	2.01														
115	2.22	2.21	2.20	2.21	2.17														
120	2.46	2.43	2.41	2.41	2.39														
125	2.86	2.81	2.80	2.77	2.75														
130	3.38	3.32	3.19	3.16	3.18														
135	3.84	3.70	3.56	3.59	3.59														
140	3.99	3.85	3.86	3.87	3.78														
145	4.19	4.13	4.03	4.03	4.00														
150	4.33	4.22	4.22	4.17	4.13														
155	4.37	4.34	4.31	4.46	4.34														
160	4.44	4.49	4.51	4.64	4.48														
165	4.64	4.66	4.75	4.79	4.59														
170	4.63	4.58	4.58	4.74	4.57														
175	4.55	4.53	4.57	4.65	4.54														
180	4.30	4.30	4.30	4.30	4.30														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 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: 47.6%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks: