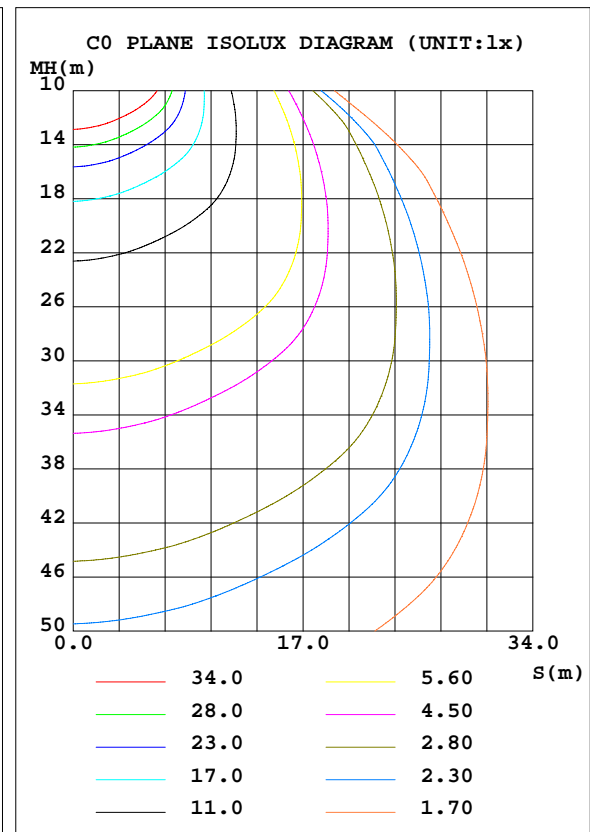
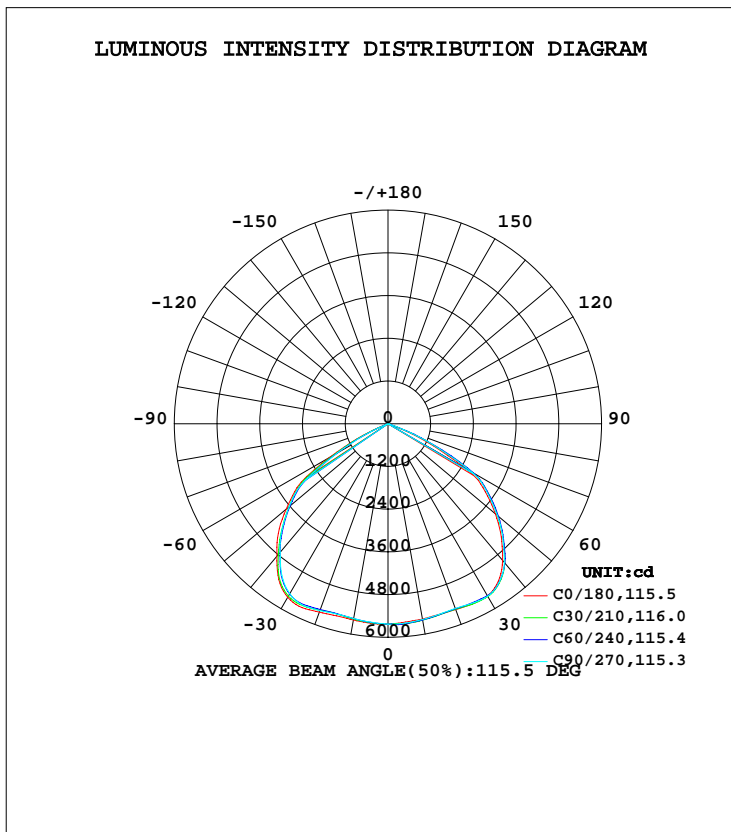


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148 lm/W			
MODEL	ASD-UHB22-100D50-MS	I <sub>max</sub> (cd)	5705	S/MH(C0/180)	1.45
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.42
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	14800	η UP, DN(C0-180)	0.0,51.9
NOMINAL FLUX(lm)	14800	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,48.0
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 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	5572	5600	5584	5570	5599	5563	5554	5557	0- 10	534.4	534.4	3.51,3.51
20	5555	5539	5523	5608	5633	5552	5587	5569	10- 20	1575	2109	13.8,13.8
30	5588	5597	5597	5627	5630	5549	5515	5528	20- 30	2593	4703	30.9,30.9
40	5010	5111	5088	4924	4858	4743	4717	4791	30- 40	3324	8027	52.7,52.7
50	3937	4044	4010	3900	3735	3600	3626	3730	40- 50	3381	11408	74.9,74.9
60	2522	2775	2733	2266	1904	1694	1635	1936	50- 60	2798	14206	93.3,93.3
70	79.68	293.3	235.7	124.6	29.05	26.04	20.60	30.89	60- 70	985.5	15192	99.7,99.7
80	5.487	6.555	6.742	6.580	5.717	4.655	4.854	4.968	70- 80	22.68	15214	99.9,99.9
90	0.2324	0.3310	1.088	1.773	1.457	1.124	1.304	0.9632	80- 90	2.893	15217	99.9,99.9
100	0.3483	0.3220	0.3153	0.3595	1.039	1.094	1.293	0.9016	90-100	0.7962	15218	99.9,99.9
110	0.7358	0.7234	0.7578	0.7978	1.673	1.739	1.785	1.582	100-110	1.091	15219	99.9,99.9
120	1.268	1.225	1.307	1.402	2.102	2.299	2.355	2.180	110-120	1.445	15221	99.9,99.9
130	2.124	1.995	2.085	2.194	3.299	3.524	3.759	3.282	120-130	2.002	15223	99.9,99.9
140	2.976	2.751	2.886	2.952	4.197	4.594	4.625	4.282	130-140	2.511	15225	100,100
150	3.539	3.361	3.476	3.495	4.909	5.092	5.084	4.797	140-150	2.479	15228	100,100
160	4.284	3.782	3.708	4.000	5.464	5.614	5.295	5.250	150-160	2.037	15230	100,100
170	4.799	4.529	4.293	4.689	5.768	5.823	5.520	5.365	160-170	1.390	15231	100,100
180	5.250	5.250	5.250	5.250	5.221	5.221	5.221	5.221	170-180	0.4934	15232	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9748.1 lm

%lum = 64.0%

%lamp = 64.0%

Conical surface Flux(120deg): 14206 lm

%lum = 93.3%

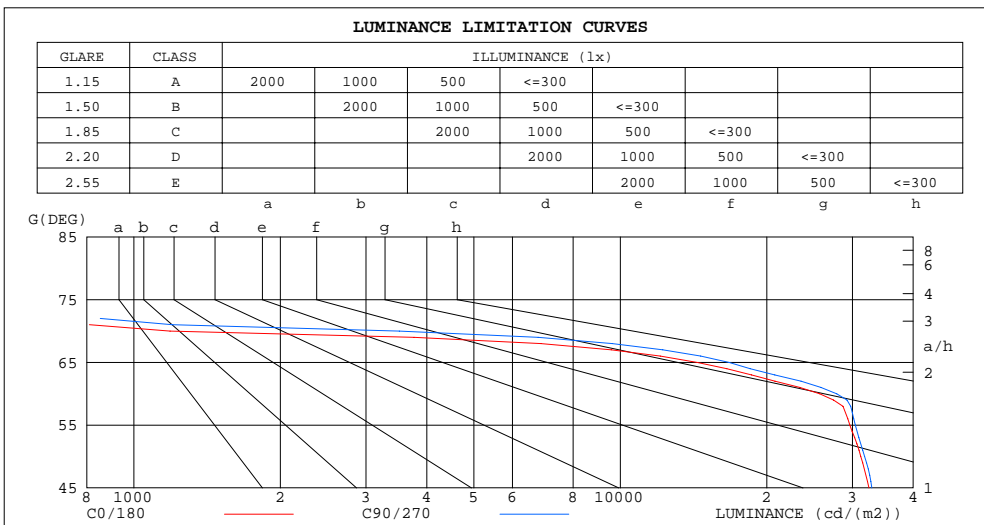
%lamp = 93.3%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	107	190
80	161	198
75	233	252
70	1187	3511
65	14397	16740
60	25701	27856
55	29639	30410
50	31213	31790
45	32433	32888

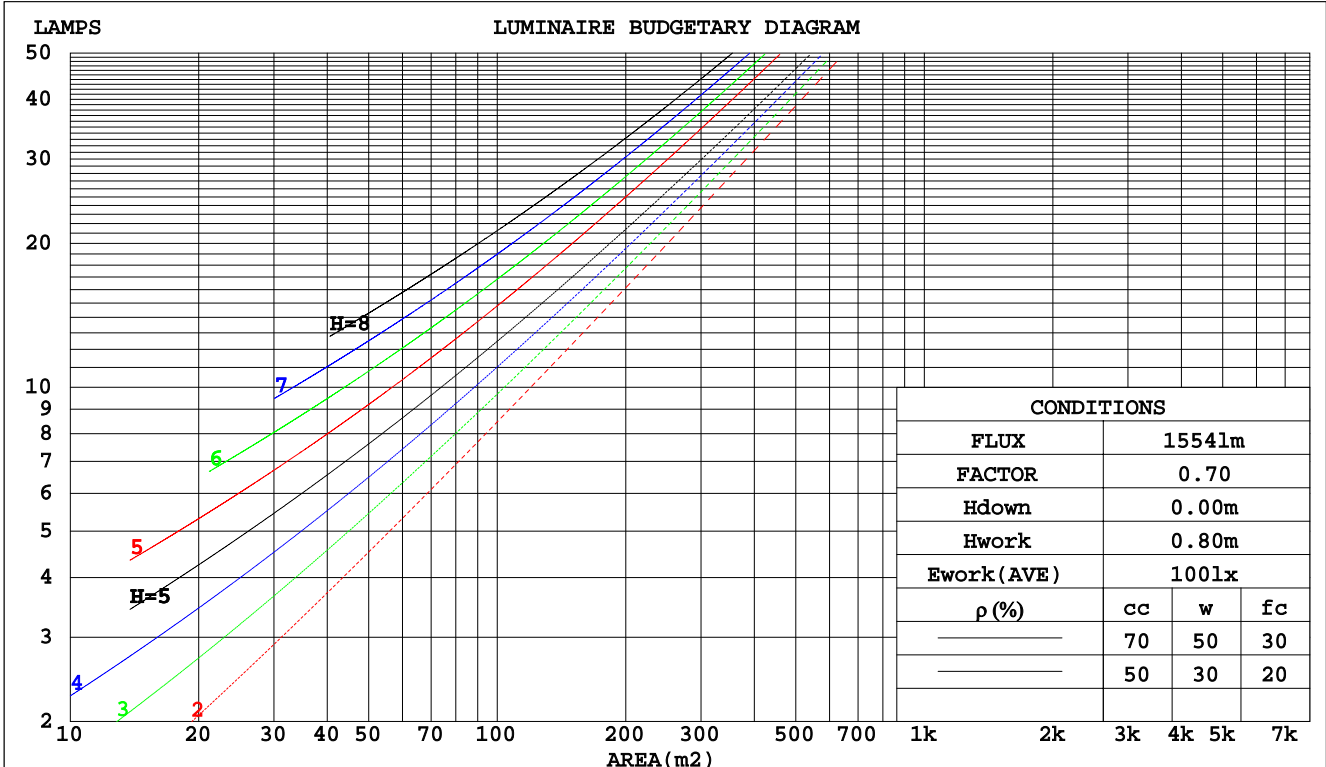
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	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	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.72	.81	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.61	.53	.47	.60	.53	.47	.59	.52	.46	.57	.51	.46	.55	.50	.46	.44
7.0	.56	.47	.42	.55	.47	.41	.53	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.37	.50	.42	.37	.49	.42	.37	.47	.41	.36	.46	.41	.36	.34
9.0	.46	.39	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

WEC AND CCEC

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	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	.245	.139	.044	.238	.136	.043	.225	.129	.041	.213	.123	.039	.202	.117	.038	
2.0	.243	.133	.041	.237	.130	.040	.226	.125	.039	.215	.121	.038	.205	.116	.037	
3.0	.234	.124	.037	.228	.122	.037	.218	.118	.036	.209	.115	.035	.201	.111	.034	
4.0	.222	.115	.034	.217	.114	.034	.208	.111	.033	.200	.108	.032	.193	.105	.032	
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.190	.100	.030	.184	.098	.029	
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.181	.094	.028	.174	.092	.027	
7.0	.187	.092	.026	.183	.091	.026	.177	.089	.026	.171	.088	.026	.166	.086	.025	
8.0	.176	.086	.024	.173	.085	.024	.167	.084	.024	.162	.082	.024	.157	.081	.023	
9.0	.166	.080	.022	.164	.080	.022	.159	.078	.022	.154	.077	.022	.149	.076	.022	
10.0	.157	.075	.021	.155	.075	.021	.150	.074	.021	.146	.072	.021	.142	.071	.020	

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	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.140	.151	.135	.121	.103	.093	.083	.059	.054	.049	.019	.017	.016	
2.0	.166	.133	.105	.143	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.158	.115	.080	.136	.099	.070	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.151	.101	.063	.129	.087	.055	.089	.061	.039	.052	.036	.023	.017	.012	.008	
5.0	.144	.091	.051	.124	.078	.044	.085	.055	.031	.049	.032	.019	.016	.010	.006	
6.0	.138	.082	.042	.118	.071	.037	.082	.050	.026	.047	.029	.015	.015	.010	.005	
7.0	.132	.075	.036	.113	.065	.031	.078	.046	.022	.045	.027	.013	.015	.009	.004	
8.0	.126	.069	.031	.108	.060	.027	.075	.042	.019	.044	.025	.011	.014	.008	.004	
9.0	.120	.064	.027	.104	.056	.023	.072	.039	.017	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.024	.099	.052	.021	.069	.037	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB22-100D50-MS					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	24.8	26.3	25.2	26.6	27.0	24.8	26.3	25.2	26.6	26.9
3H	24.9	26.2	25.2	26.5	26.9	24.8	26.2	25.2	26.5	26.9
4H	24.8	26.0	25.2	26.4	26.8	24.8	26.0	25.2	26.4	26.8
6H	24.7	25.9	25.1	26.2	26.6	24.7	25.9	25.1	26.2	26.6
8H	24.7	25.8	25.1	26.2	26.6	24.7	25.8	25.1	26.2	26.6
12H	24.7	25.7	25.1	26.1	26.5	24.7	25.7	25.1	26.1	26.5
4H 2H	25.0	26.2	25.4	26.6	27.0	24.8	26.1	25.2	26.4	26.8
3H	25.0	26.0	25.4	26.4	26.8	24.9	25.9	25.3	26.3	26.7
4H	25.0	25.9	25.4	26.3	26.7	24.8	25.7	25.2	26.1	26.5
6H	24.9	25.7	25.4	26.1	26.6	24.7	25.5	25.2	25.9	26.4
8H	24.8	25.6	25.3	26.0	26.5	24.7	25.4	25.1	25.8	26.3
12H	24.8	25.4	25.3	25.9	26.4	24.6	25.3	25.1	25.8	26.2
8H 4H	24.8	25.6	25.3	26.0	26.5	24.7	25.4	25.1	25.8	26.3
6H	24.8	25.3	25.3	25.8	26.3	24.6	25.2	25.1	25.7	26.2
8H	24.7	25.2	25.2	25.7	26.2	24.5	25.1	25.0	25.6	26.1
12H	24.7	25.1	25.2	25.6	26.2	24.5	25.0	25.0	25.5	26.0
12H 4H	24.8	25.4	25.3	25.9	26.4	24.6	25.3	25.1	25.8	26.2
6H	24.7	25.2	25.2	25.7	26.3	24.5	25.1	25.1	25.5	26.1
8H	24.7	25.1	25.2	25.6	26.2	24.5	25.0	25.0	25.5	26.0
CIE190: 2010										

CIE190: 2010  
Area: 0.19625 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.3DEG  
Operators: Alan Wang  
Test Date: 27 January 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 48.4%  
Test Distance: 2.500m [K=1.0459]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

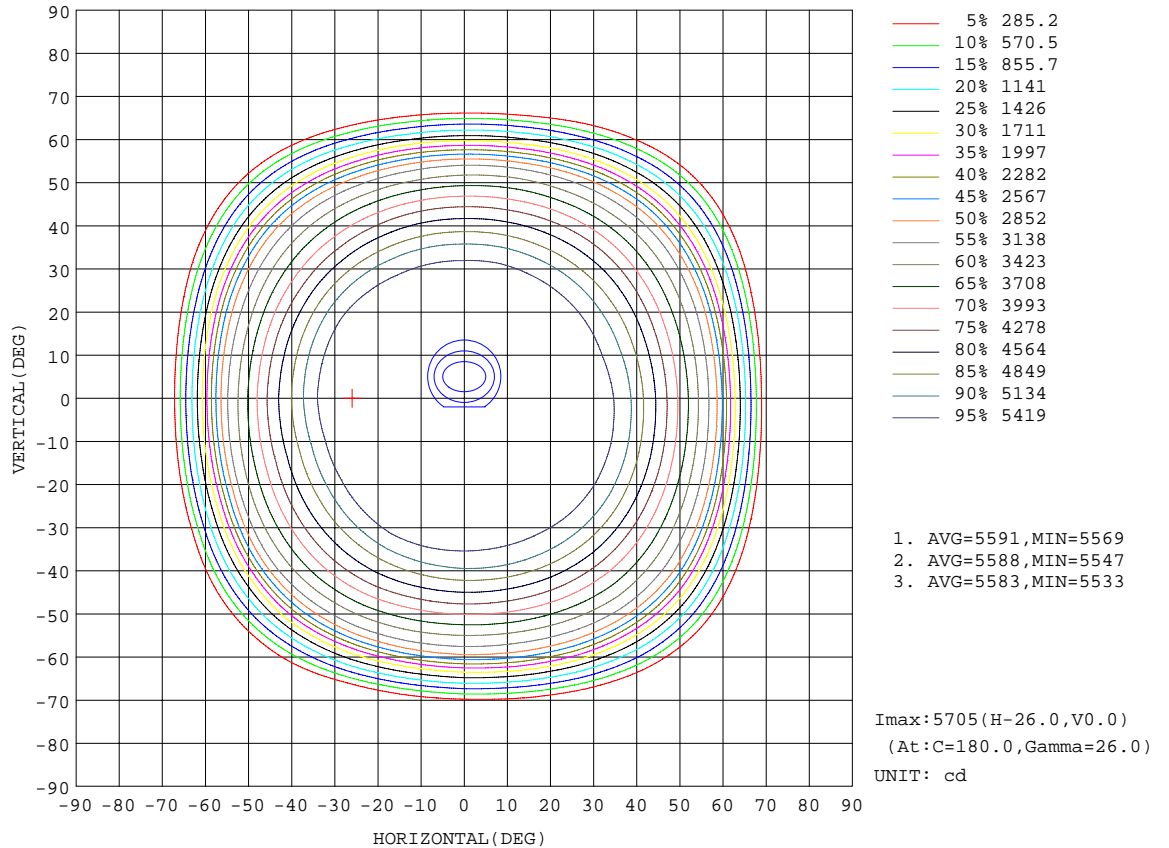
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	43	60	50	43	59	49	43	37
0.80	72	61	55	71	61	54	69	60	54	48
1.00	82	72	65	80	71	65	78	72	64	58
1.25	89	80	74	87	79	73	85	78	73	66
1.50	94	85	79	92	84	79	89	83	78	71
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	104	101	107	103	99	103	99	97	88
5.00	111	107	104	109	105	102	104	101	99	90
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: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



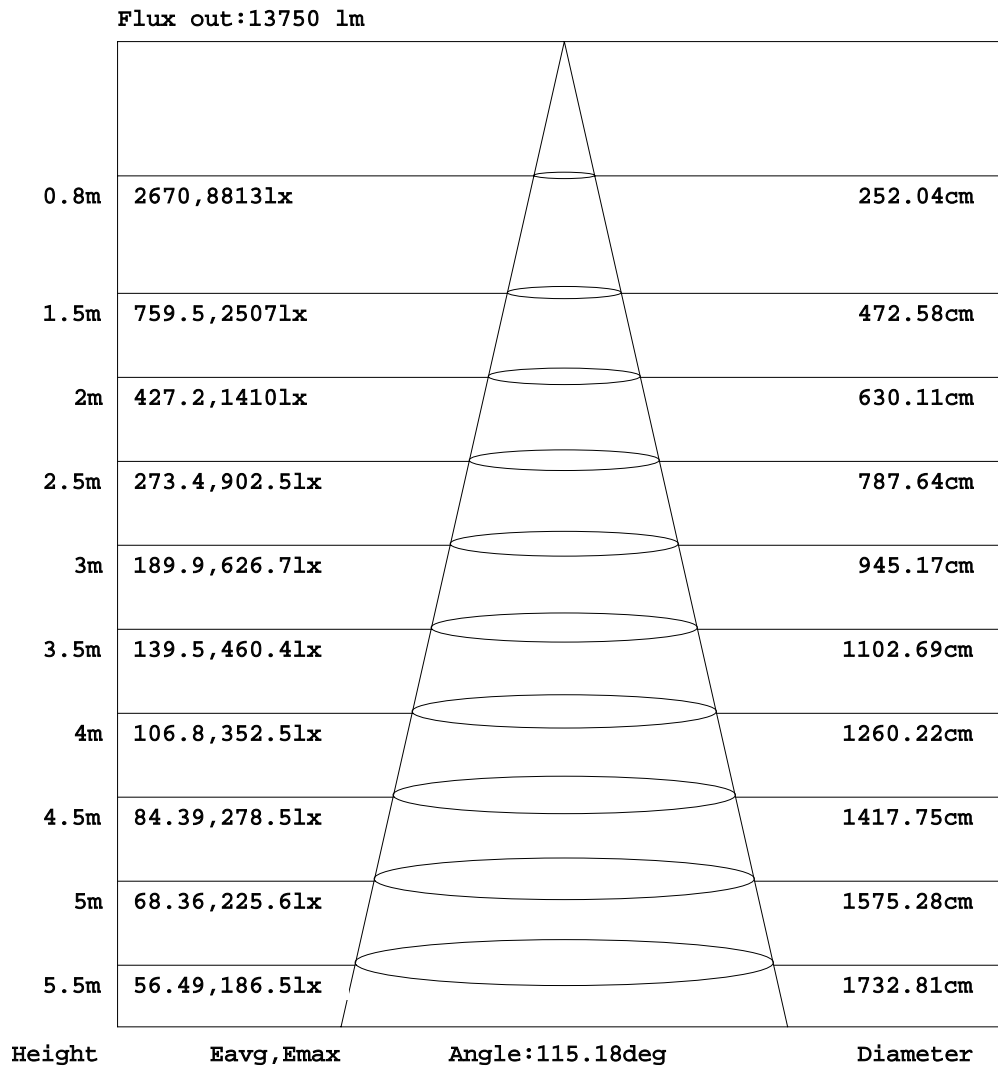
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:



AAI Figure

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



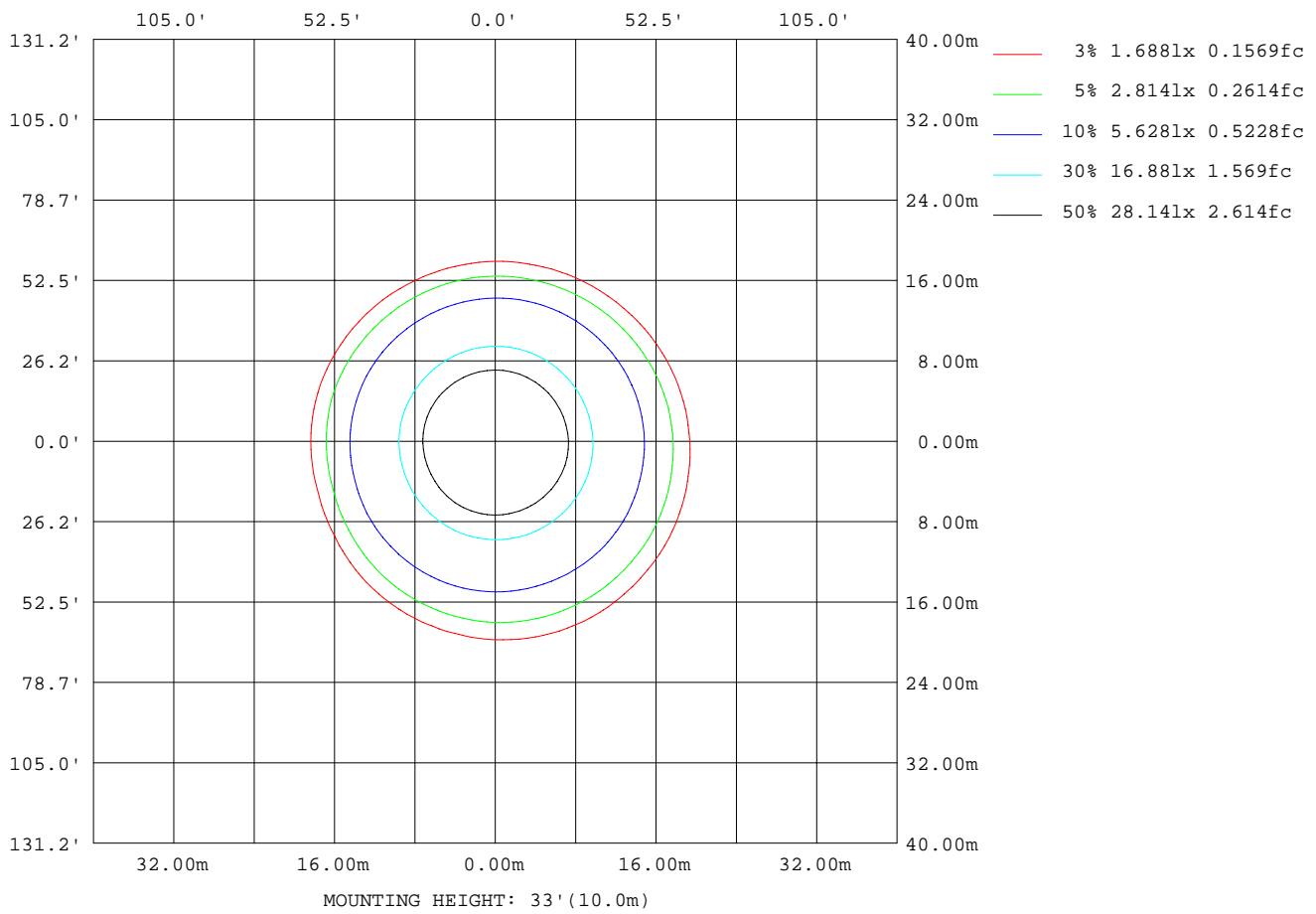
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

## LED Avg.L Report

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

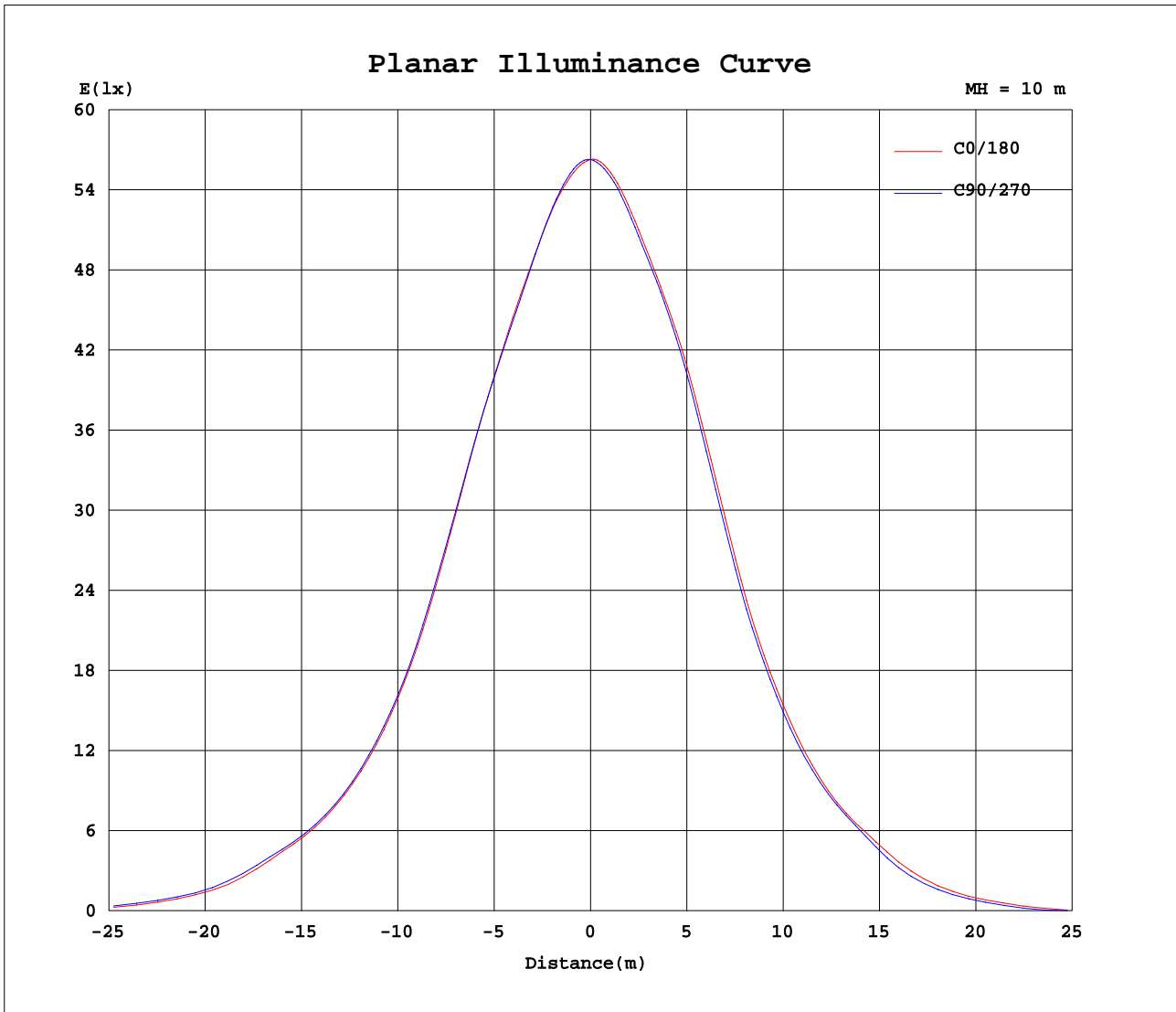
AvgL	cd/m2
L_0~180(65)av	11842
L_0~180(75)av	215
L_0~180(85)av	110
L_90~270(65)av	11622
L_90~270(75)av	208
L_90~270(85)av	142
L_45(65)av	11436
L_45(75)av	209
L_45(85)av	128

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	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	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628	5628
5	5594	5618	5643	5640	5635	5628	5620	5612	5603	5596	5618	5632	5624	5616	5609	5604	5600	5596	5593
10	5572	5604	5603	5600	5596	5591	5584	5579	5575	5570	5565	5597	5599	5583	5571	5563	5558	5556	5554
15	5544	5564	5560	5558	5554	5549	5544	5543	5550	5560	5567	5585	5587	5558	5534	5524	5525	5530	5534
20	5555	5558	5546	5539	5533	5525	5523	5540	5575	5608	5615	5623	5633	5602	5572	5552	5555	5574	5587
25	5585	5595	5594	5575	5558	5554	5567	5606	5649	5670	5677	5684	5702	5670	5643	5611	5604	5621	5629
30	5588	5600	5606	5597	5578	5581	5597	5612	5640	5627	5607	5614	5630	5607	5591	5549	5525	5520	5515
35	5401	5442	5457	5456	5441	5441	5443	5447	5439	5386	5330	5305	5345	5333	5314	5263	5222	5212	5200
40	5010	5067	5103	5111	5108	5105	5088	5045	4997	4924	4861	4829	4858	4833	4794	4743	4718	4718	4717
45	4501	4550	4576	4589	4592	4580	4564	4539	4511	4455	4394	4346	4360	4305	4225	4182	4181	4196	4210
50	3937	3982	4018	4044	4052	4036	4010	3978	3960	3900	3822	3759	3735	3673	3631	3600	3588	3592	3626
55	3336	3383	3446	3488	3466	3444	3423	3404	3358	3296	3232	3149	3120	3074	3035	2984	2933	2926	2962
60	2522	2635	2751	2775	2788	2782	2733	2610	2459	2266	2028	1888	1904	1892	1774	1694	1636	1622	1635
65	1194	1278	1378	1414	1443	1429	1388	1277	1168	1007	870	766	770	730	674	602	541	519	539
70	79.7	185	247	293	316	305	236	176	92.0	125	83.0	53.3	29.1	24.7	26.8	26.0	21.4	20.7	20.6
75	11.8	12.9	13.5	13.8	13.7	13.5	12.8	12.0	11.4	11.1	11.2	10.4	10.0	9.57	9.09	8.86	8.70	8.51	8.35
80	5.49	5.82	6.25	6.56	6.76	6.82	6.74	6.78	6.75	6.58	6.26	5.91	5.72	5.25	4.85	4.65	4.66	4.75	4.85
85	1.83	2.01	2.30	2.65	2.95	3.21	3.26	3.27	3.19	2.94	2.48	2.07	1.95	1.64	1.35	1.43	1.58	1.64	1.61
90	0.23	0.24	0.26	0.33	0.40	0.58	1.09	1.66	1.81	1.77	1.61	1.69	1.46	1.29	1.17	1.12	1.11	1.11	1.30
95	0.22	0.21	0.22	0.27	0.44	0.66	1.23	0.62	0.38	0.26	0.24	0.28	0.59	0.66	0.80	0.68	0.67	0.66	0.64
100	0.35	0.34	0.33	0.32	0.32	0.31	0.32	0.32	0.34	0.36	0.47	0.51	1.04	1.05	1.07	1.09	1.10	1.87	1.29
105	0.53	0.52	0.51	0.50	0.50	0.54	0.56	0.59	0.54	0.55	0.58	0.61	1.42	1.45	1.48	1.50	1.68	1.76	1.86
110	0.74	0.72	0.72	0.72	0.74	0.75	0.76	0.78	0.80	0.80	0.82	0.82	1.67	1.69	1.71	1.74	1.78	1.81	1.78
115	0.95	0.93	0.93	0.96	0.97	0.99	1.01	1.03	1.05	1.07	1.08	1.07	1.86	1.87	1.89	1.94	1.97	1.97	1.96
120	1.27	1.23	1.19	1.23	1.25	1.27	1.31	1.35	1.38	1.40	1.40	1.40	2.10	2.17	2.23	2.30	2.34	2.34	2.35
125	1.65	1.56	1.52	1.57	1.60	1.62	1.66	1.71	1.77	1.79	1.77	1.79	2.65	2.71	2.74	2.86	2.96	2.98	3.00
130	2.12	2.04	1.94	1.99	2.04	2.02	2.08	2.11	2.18	2.19	2.18	2.22	3.30	3.38	3.44	3.52	3.67	3.72	3.76
135	2.58	2.54	2.41	2.40	2.53	2.44	2.51	2.55	2.64	2.56	2.66	2.68	3.87	3.97	4.04	4.15	4.21	4.33	4.30
140	2.98	2.97	2.85	2.75	2.87	2.79	2.89	2.93	2.93	2.95	3.00	3.09	4.20	4.34	4.41	4.59	4.61	4.70	4.63
145	3.29	3.33	3.18	3.16	3.15	3.19	3.18	3.22	3.22	3.26	3.21	3.33	4.56	4.71	4.76	4.87	4.96	5.05	4.98
150	3.54	3.57	3.44	3.36	3.48	3.49	3.48	3.51	3.51	3.50	3.44	3.53	4.91	4.96	4.98	5.09	5.13	5.21	5.08
155	3.89	3.93	3.81	3.55	3.59	3.57	3.59	3.68	3.68	3.68	3.73	3.76	5.13	5.12	5.25	5.29	5.27	5.31	5.08
160	4.28	4.26	4.10	3.78	3.75	3.75	3.71	3.89	3.92	4.00	4.10	4.08	5.46	5.45	5.46	5.61	5.66	5.55	5.29
165	4.55	4.56	4.48	4.27	4.08	4.00	3.90	4.22	4.37	4.53	4.55	4.45	5.63	5.66	5.74	5.86	5.98	5.90	5.66
170	4.80	4.78	4.70	4.53	4.37	4.31	4.29	4.52	4.64	4.69	4.67	4.64	5.77	5.74	5.74	5.82	5.86	5.80	5.52
175	5.26	5.13	4.98	4.74	4.63	4.58	4.54	4.60	4.69	4.81	4.89	4.96	5.79	5.78	5.78	5.84	5.89	5.79	5.59
180	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.22	5.22	5.22	5.22	5.22	5.22	5.22

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.40V I:0.8333A P:100W PF:0.9947 Freq:60.01Hz Lamp Flux:14800x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB22-100D50-MS	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C( DEG) γ (DEG)	285	300	315	330	345														
0	5628	5628	5628	5628	5628														
5	5592	5592	5592	5592	5593														
10	5556	5556	5557	5557	5558														
15	5539	5539	5535	5530	5525														
20	5586	5580	5569	5556	5541														
25	5638	5623	5605	5596	5572														
30	5530	5518	5528	5550	5555														
35	5218	5228	5254	5287	5323														
40	4737	4755	4791	4847	4915														
45	4230	4271	4314	4361	4417														
50	3665	3682	3730	3786	3855														
55	3005	3074	3133	3215	3284														
60	1681	1800	1936	2123	2338														
65	579	659	770	939	1096														
70	22.7	26.3	30.9	43.2	77.2														
75	8.35	8.49	8.72	9.22	9.86														
80	4.88	4.88	4.97	5.10	5.34														
85	1.75	1.71	1.77	1.75	1.80														
90	1.40	1.23	0.96	0.71	0.42														
95	0.60	0.56	0.52	0.47	0.44														
100	1.72	1.12	0.90	0.84	0.78														
105	1.84	1.54	1.29	1.23	1.16														
110	1.74	1.67	1.58	1.52	1.44														
115	1.94	1.90	1.84	1.79	1.68														
120	2.33	2.26	2.18	2.09	1.97														
125	2.94	2.84	2.69	2.57	2.43														
130	3.65	3.55	3.28	3.17	3.05														
135	4.16	3.96	3.78	3.73	3.63														
140	4.43	4.27	4.28	4.18	4.01														
145	4.77	4.69	4.53	4.51	4.32														
150	4.84	4.79	4.80	4.77	4.56														
155	4.90	4.92	4.93	5.12	4.80														
160	5.07	5.14	5.25	5.36	5.01														
165	5.36	5.38	5.48	5.57	5.09														
170	5.38	5.33	5.36	5.56	4.98														
175	5.40	5.39	5.59	5.50	5.11														
180	5.22	5.22	5.22	5.22	5.22														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.3DEG  
 Operators: Alan Wang  
 Test Date: 27 January 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 48.4%  
 Test Distance: 2.500m [K=1.0459]  
 Remarks: