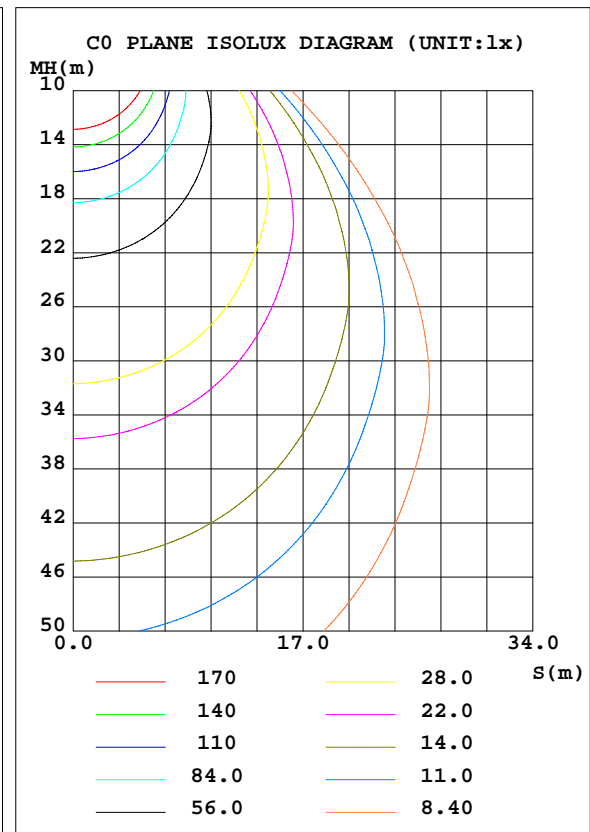
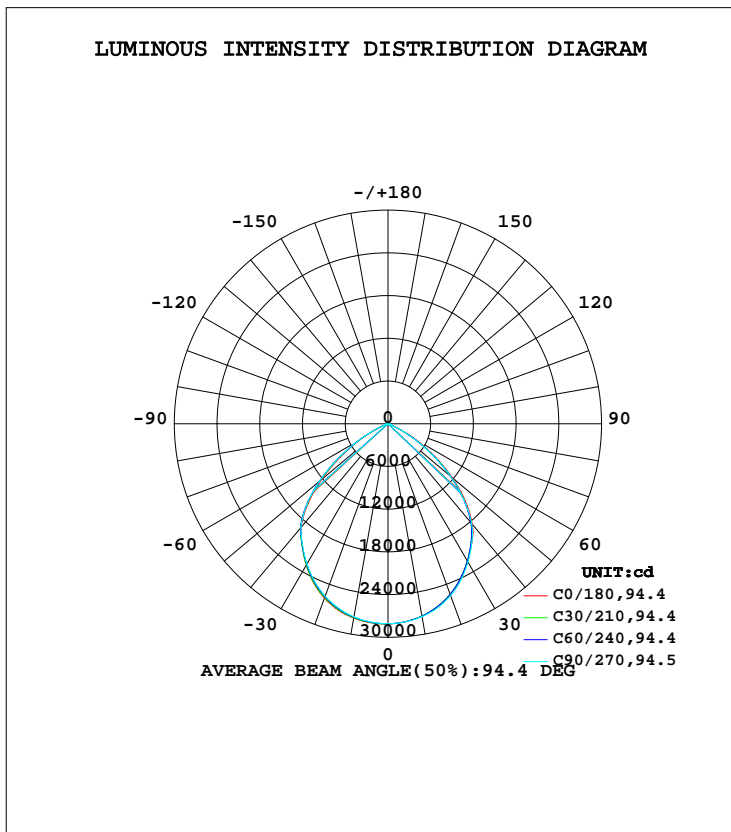


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1lx1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.06 lm/W			
MODEL	ASD-UHB2HV-400D50-PRM	I <sub>max</sub> (cd)	28128	S/MH(C0/180)	1.22
NOMINAL POWER(W)	400	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	277-480	TOTAL FLUX(lm)	56053	η UP, DN(C0-180)	0.0,49.1
NOMINAL FLUX(lm)	56053.1	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,50.8
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	277	η down(%)	99.9	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2744	2741	2751	2762	2772	2764	2754	2746	0- 10	2655	2655	4.74,4.74
20	2556	2548	2570	2594	2609	2596	2579	2568	10- 20	7561	10216	18.2,18.2
30	2238	2226	2246	2273	2295	2290	2275	2256	20- 30	11197	21413	38.2,38.2
40	1841	1810	1829	1855	1900	1911	1905	1888	30- 40	12957	34370	61.3,61.3
50	1182	1144	1143	1160	1215	1255	1256	1232	40- 50	11942	46312	82.6,82.6
60	465.1	434.9	419.9	434.5	468.6	493.8	499.1	496.1	50- 60	7284	53596	95.6,95.6
70	56.66	56.28	48.35	42.08	46.89	54.67	57.56	55.21	60- 70	1940	55535	99.1,99.1
80	21.86	21.58	16.87	14.37	17.23	21.23	23.05	21.49	70- 80	370.9	55906	99.7,99.7
90	0.9494	1.042	0.2915	0.5181	0.1256	0.1135	0.1017	0.1029	80- 90	87.73	55994	99.9,99.9
100	0.1118	0.1161	0.1180	0.1164	0.2436	0.2305	0.2224	0.2243	90-100	1.900	55996	99.9,99.9
110	0.2378	0.2493	0.2554	0.2493	0.4681	0.4557	0.4483	0.4535	100-110	2.732	55999	99.9,99.9
120	0.4396	0.4598	0.4955	0.4855	0.7843	0.8023	0.8169	0.8145	110-120	4.744	56003	99.9,99.9
130	0.7915	0.7887	0.8312	0.8083	1.366	1.416	1.475	1.391	120-130	7.690	56011	99.9,99.9
140	1.209	1.199	1.248	1.215	1.848	1.999	2.065	1.952	130-140	10.46	56022	99.9,99.9
150	1.613	1.606	1.657	1.585	2.356	2.470	2.545	2.427	140-150	11.41	56033	100,100
160	2.085	1.986	1.918	2.016	2.856	2.919	2.849	2.833	150-160	10.31	56043	100,100
170	2.357	2.354	2.191	2.259	3.050	3.082	2.964	2.869	160-170	7.257	56051	100,100
180	2.816	2.846	2.667	2.815	2.847	2.879	2.742	2.701	170-180	2.562	56053	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 40730 lm

%lum = 72.7%

%lamp = 72.7%

Conical surface Flux(120deg): 53596 lm

%lum = 95.6%

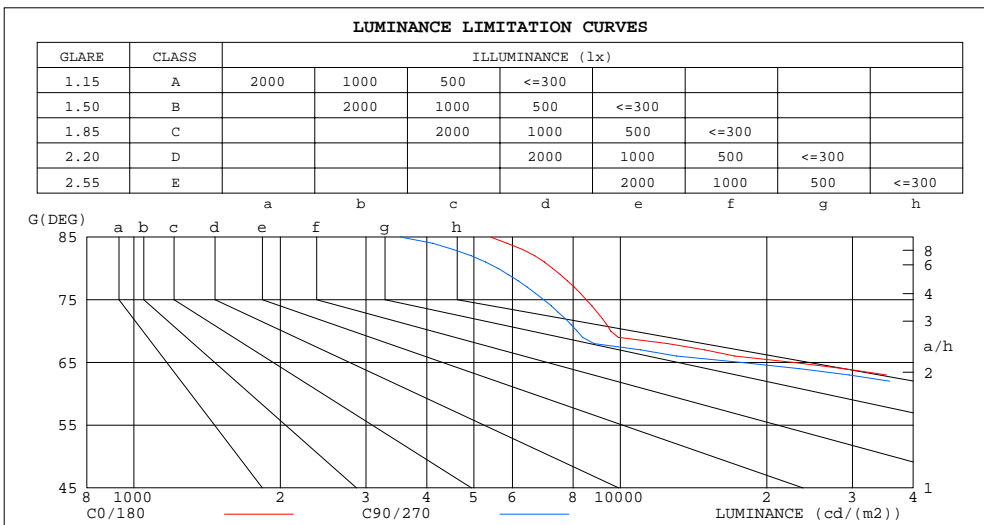
%lamp = 95.6%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.lx1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5405	3529
80	7261	5604
75	8512	6958
70	9554	8152
65	22714	17748
60	53646	48434
55	81037	76835
50	106055	102544
45	125011	123071

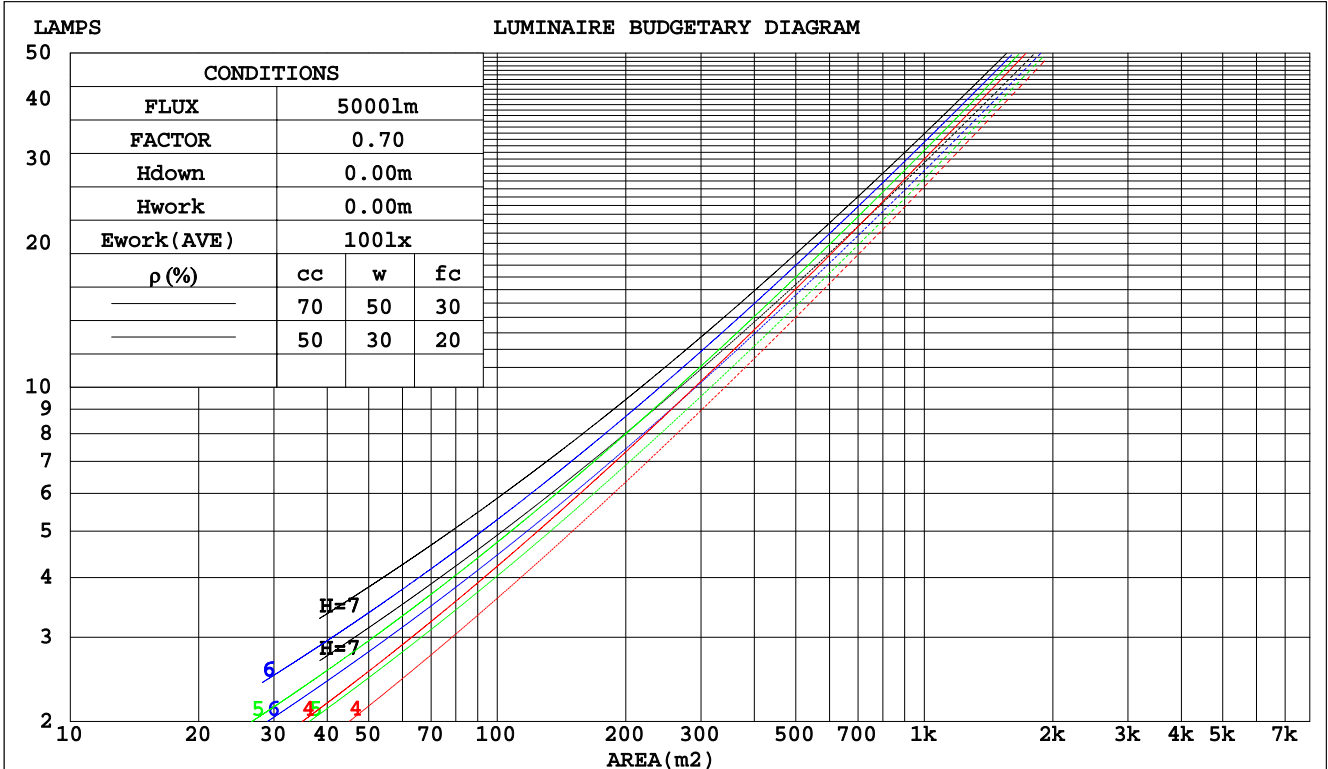
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.91	.86	.92	.88	.84	.89	.85	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.66	.78	.71	.66	.75	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.64	.58	.71	.63	.58	.69	.62	.57	.67	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.54	.50	.49
7.0	.60	.52	.46	.59	.51	.46	.57	.51	.46	.56	.50	.46	.55	.49	.45	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

WEC AND CCEC

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-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	.231	.131	.042	.224	.128	.041	.211	.121	.039	.199	.115	.037	.188	.109	.035	
2.0	.227	.124	.038	.221	.122	.037	.210	.116	.036	.199	.112	.035	.190	.107	.034	
3.0	.217	.116	.035	.212	.114	.034	.202	.110	.033	.193	.106	.033	.185	.102	.032	
4.0	.207	.107	.032	.202	.106	.031	.194	.103	.031	.186	.100	.030	.178	.097	.029	
5.0	.196	.100	.029	.192	.098	.029	.184	.096	.028	.177	.093	.028	.170	.091	.027	
6.0	.185	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.081	.024	
8.0	.166	.081	.023	.163	.080	.023	.158	.079	.023	.153	.077	.022	.148	.076	.022	
9.0	.157	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.072	.021	
10.0	.150	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

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	.176	.158	.141	.150	.135	.122	.103	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.133	.107	.141	.115	.092	.096	.079	.064	.056	.046	.038	.018	.015	.012	
3.0	.155	.115	.083	.133	.099	.072	.091	.069	.050	.053	.040	.030	.017	.013	.010	
4.0	.147	.101	.065	.126	.087	.057	.087	.061	.040	.050	.036	.024	.016	.012	.008	
5.0	.140	.090	.053	.120	.078	.046	.083	.054	.033	.048	.032	.019	.015	.010	.006	
6.0	.134	.081	.044	.115	.071	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.037	.110	.064	.032	.076	.045	.023	.044	.027	.014	.014	.009	.005	
8.0	.122	.069	.032	.105	.059	.028	.072	.042	.020	.042	.025	.012	.014	.008	.004	
9.0	.116	.064	.028	.100	.055	.024	.069	.039	.017	.040	.023	.010	.013	.008	.003	
10.0	.111	.059	.025	.096	.052	.022	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.:ASD-UHB2HV-400D50-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	25.5	26.8	25.8	27.2	27.5	25.1	26.5	25.5	26.9	27.2
3H	25.4	26.6	25.8	27.0	27.3	25.1	26.3	25.4	26.6	27.0
4H	25.4	26.5	25.8	26.9	27.3	25.0	26.2	25.4	26.5	26.9
6H	25.3	26.4	25.8	26.8	27.2	25.0	26.0	25.4	26.4	26.8
8H	25.3	26.3	25.7	26.7	27.1	24.9	25.9	25.4	26.3	26.7
12H	25.3	26.2	25.7	26.6	27.0	24.9	25.8	25.3	26.2	26.7
4H 2H	25.4	26.5	25.8	26.9	27.2	25.1	26.2	25.5	26.5	26.9
3H	25.4	26.3	25.8	26.7	27.1	25.0	25.9	25.4	26.3	26.7
4H	25.3	26.1	25.8	26.6	27.0	25.0	25.8	25.4	26.2	26.6
6H	25.3	26.0	25.8	26.5	26.9	24.9	25.6	25.4	26.1	26.5
8H	25.3	25.9	25.7	26.4	26.8	24.9	25.5	25.3	26.0	26.4
12H	25.2	25.8	25.7	26.3	26.8	24.8	25.4	25.3	25.9	26.4
8H 4H	25.2	25.9	25.7	26.3	26.8	24.8	25.5	25.3	25.9	26.4
6H	25.2	25.7	25.7	26.2	26.7	24.8	25.3	25.3	25.8	26.3
8H	25.2	25.6	25.7	26.2	26.7	24.7	25.2	25.2	25.7	26.2
12H	25.1	25.6	25.6	26.1	26.6	24.7	25.1	25.2	25.6	26.2
12H 4H	25.2	25.8	25.7	26.2	26.7	24.8	25.4	25.3	25.9	26.3
6H	25.1	25.6	25.7	26.1	26.6	24.7	25.2	25.2	25.7	26.2
8H	25.1	25.6	25.6	26.0	26.6	24.7	25.1	25.2	25.6	26.2
CIE190: 2010										

CIE190: 2010  
Area: 0.173406 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Alan Wang  
Test Date: 30 December 2021

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 44.6%  
Test Distance: 2.500m [K=1.0455]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

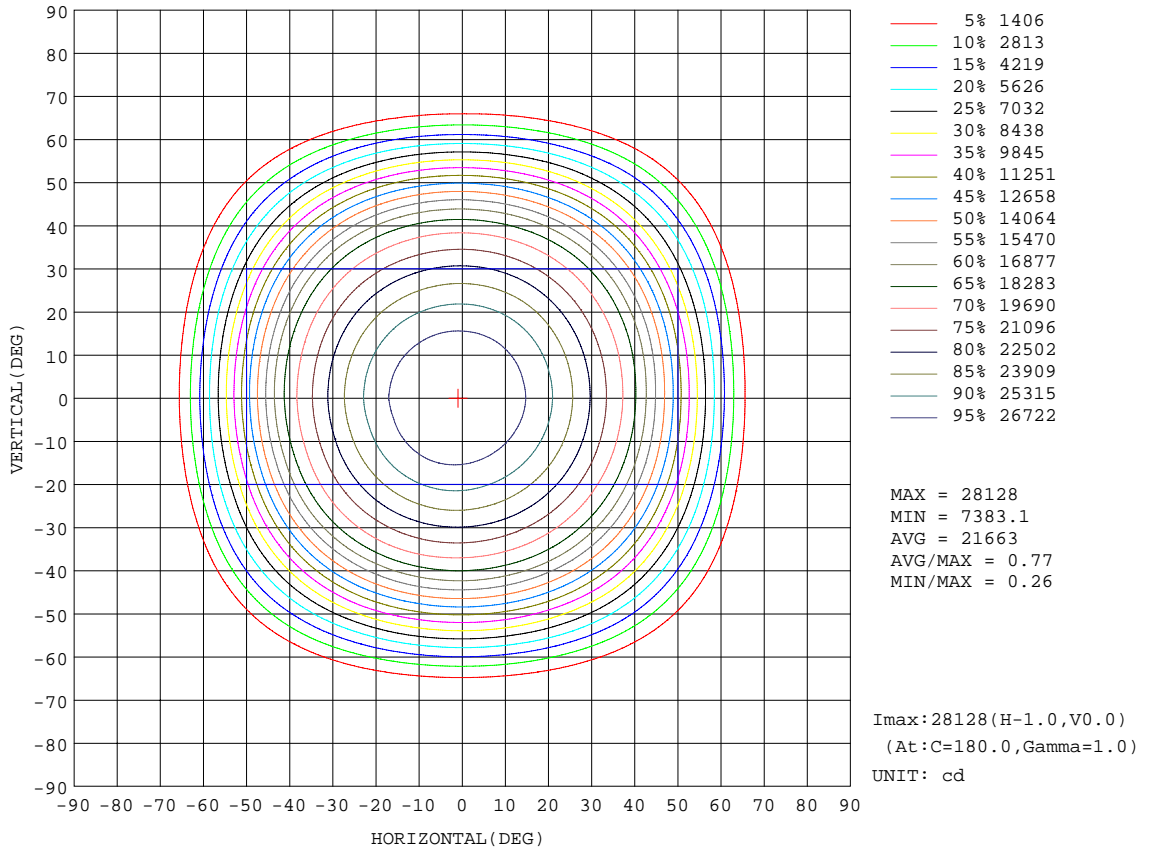
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	50	66	56	50	65	56	50	45
0.80	77	67	61	76	67	61	75	66	61	55
1.00	86	77	71	84	76	71	83	77	70	64
1.25	92	84	79	91	83	78	89	82	77	71
1.50	96	89	84	95	88	83	92	87	82	76
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	102	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	103	100	92
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: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators:Alan Wang  
 Test Date:30 December 2021

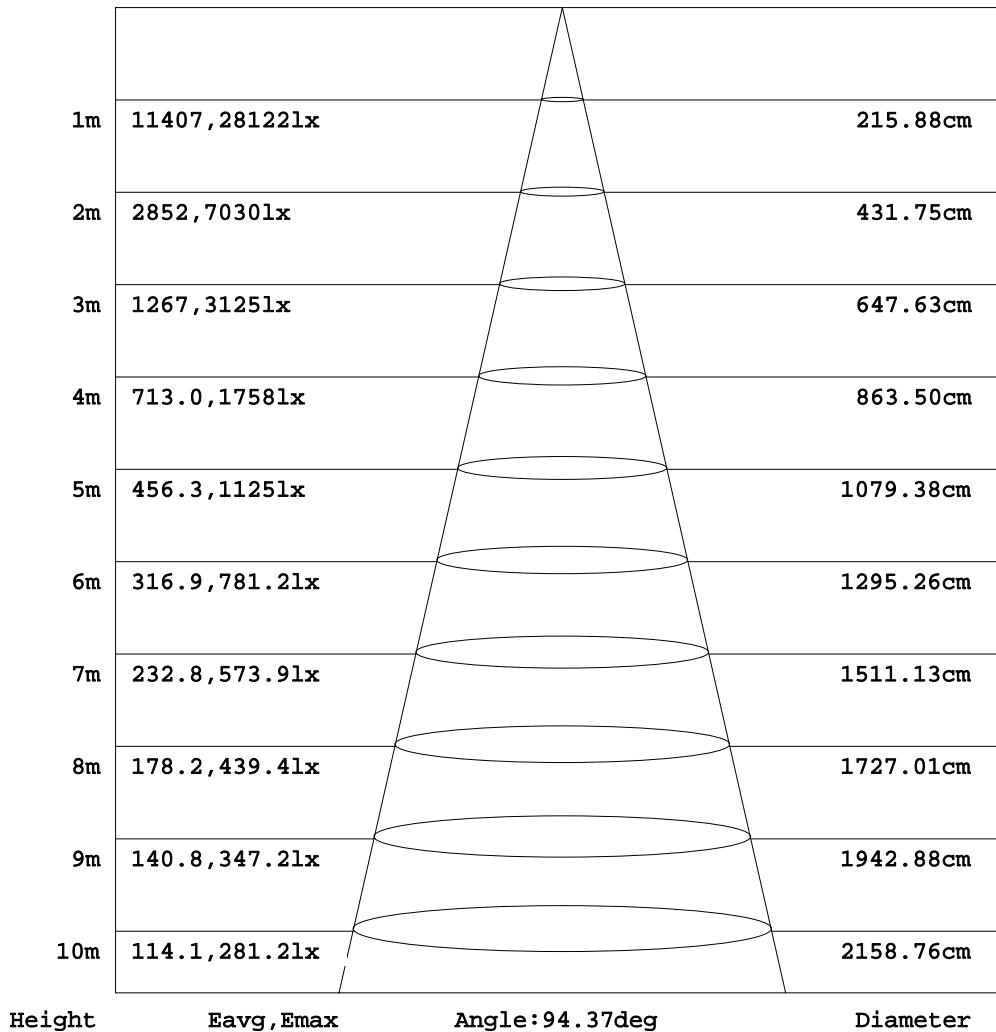
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance:2.500m [K=1.0455]  
 Remarks:



AAI Figure

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:44204 lm



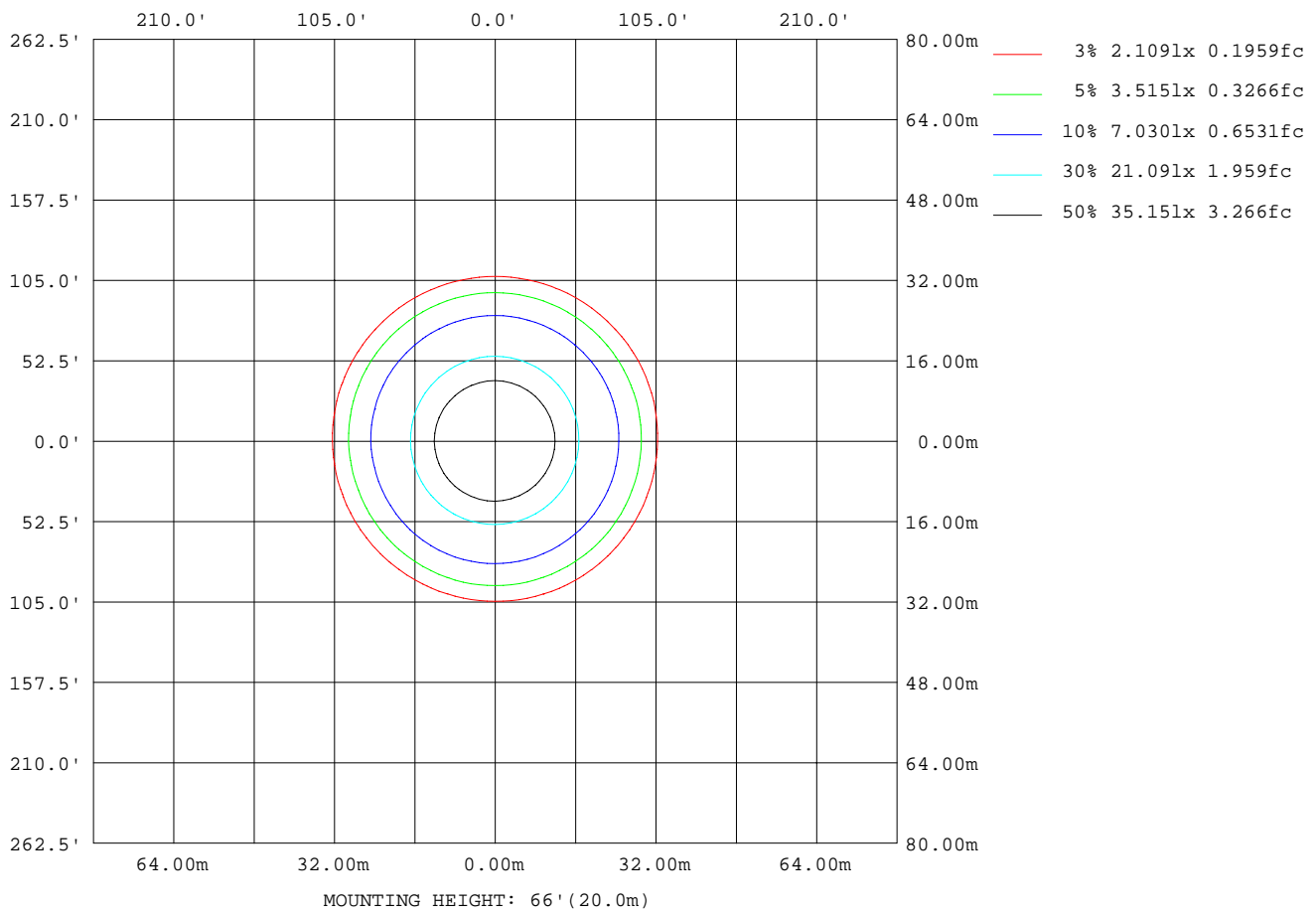
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators:Alan Wang  
 Test Date:30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance:2.500m [K=1.0455]  
 Remarks:

ISOLUX DIAGRAM

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

## LED Avg.L Report

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

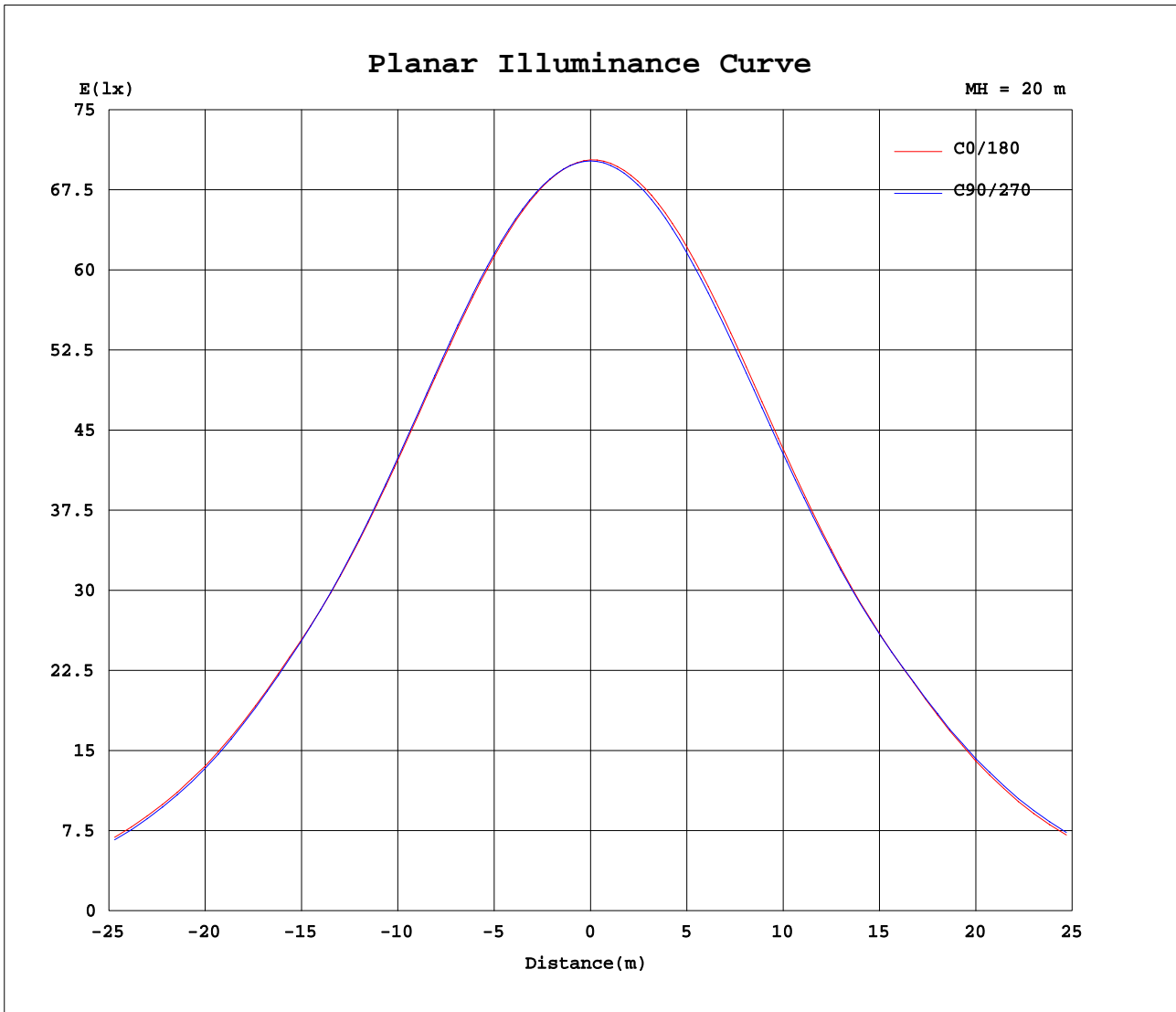
AvgL	cd/m2
L_0~180(65)av	23242
L_0~180(75)av	7706
L_0~180(85)av	4718
L_90~270(65)av	21995
L_90~270(75)av	7830
L_90~270(85)av	4699
L_45(65)av	22551
L_45(75)av	7732
L_45(85)av	4706

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24.8DEG  
Operators: Alan Wang  
Test Date: 30 December 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 44.6%  
Test Distance: 2.500m [K=1.0455]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1

UNIT: x10cd

C( DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2812	2811	2811	2810	2809	2809	2809	2807	2807	2806	2806	2805	2812	2811	2811	2810	2809	2809	2809
5	2791	2790	2790	2790	2791	2792	2793	2795	2795	2797	2797	2797	2805	2804	2802	2800	2798	2796	2794
10	2744	2742	2741	2741	2743	2746	2751	2756	2760	2762	2764	2764	2772	2770	2768	2764	2760	2757	2754
15	2667	2664	2661	2661	2664	2670	2679	2687	2693	2698	2700	2700	2708	2706	2702	2696	2690	2687	2682
20	2556	2552	2548	2548	2550	2558	2570	2579	2588	2594	2598	2599	2609	2606	2602	2596	2589	2584	2579
25	2411	2405	2401	2400	2403	2411	2423	2434	2443	2450	2455	2458	2468	2467	2464	2458	2451	2445	2441
30	2238	2231	2227	2226	2229	2237	2246	2256	2265	2273	2279	2283	2295	2296	2295	2290	2284	2278	2275
35	2052	2044	2036	2031	2033	2041	2052	2062	2071	2079	2084	2087	2099	2102	2104	2102	2097	2094	2092
40	1841	1828	1819	1810	1812	1819	1829	1837	1845	1855	1864	1877	1900	1906	1911	1911	1909	1907	1905
45	1533	1519	1511	1505	1500	1505	1509	1518	1524	1532	1547	1560	1587	1599	1611	1619	1622	1620	1612
50	1182	1172	1156	1144	1142	1141	1143	1148	1155	1160	1168	1181	1215	1233	1248	1255	1258	1259	1256
55	806	792	782	775	764	761	764	765	769	775	781	792	820	838	852	860	862	867	867
60	465	450	441	435	424	419	420	421	425	434	457	467	469	478	486	494	499	501	499
65	166	160	149	140	134	131	130	133	135	138	143	151	174	180	185	188	189	191	192
70	56.7	57.5	57.4	56.3	54.3	51.5	48.3	45.4	43.1	42.1	42.5	43.9	46.9	49.5	52.2	54.7	56.6	57.6	57.6
75	38.2	38.9	38.9	37.9	36.1	33.8	31.2	29.0	27.5	27.0	27.3	28.5	31.0	33.0	35.0	36.8	38.2	39.1	39.1
80	21.9	22.4	22.3	21.6	20.3	18.6	16.9	15.4	14.6	14.4	14.8	15.6	17.2	18.6	19.9	21.2	22.3	23.0	23.1
85	8.17	8.24	8.08	7.73	6.94	6.26	5.33	4.75	4.52	4.56	4.80	5.22	6.09	6.67	7.26	7.79	8.22	8.62	8.87
90	0.95	1.04	1.07	1.04	0.99	0.86	0.29	0.32	0.27	0.52	0.12	0.54	0.13	0.12	0.12	0.11	0.11	0.10	0.10
95	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.15	0.15	0.15	0.14	0.14	0.14	0.14
100	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.24	0.24	0.23	0.23	0.23	0.22	0.22
105	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.36	0.35	0.35	0.34	0.34	0.34	0.34
110	0.24	0.24	0.24	0.25	0.25	0.25	0.26	0.25	0.25	0.25	0.24	0.24	0.47	0.46	0.46	0.46	0.45	0.45	0.45
115	0.32	0.33	0.33	0.35	0.35	0.36	0.36	0.36	0.36	0.35	0.34	0.32	0.60	0.60	0.59	0.60	0.60	0.60	0.60
120	0.44	0.45	0.44	0.46	0.48	0.49	0.50	0.50	0.50	0.49	0.47	0.45	0.78	0.79	0.79	0.80	0.81	0.81	0.82
125	0.61	0.59	0.58	0.61	0.62	0.64	0.65	0.65	0.66	0.64	0.61	0.60	1.07	1.07	1.07	1.10	1.11	1.10	1.12
130	0.79	0.78	0.76	0.79	0.83	0.81	0.83	0.82	0.83	0.81	0.79	0.77	1.37	1.37	1.38	1.42	1.44	1.46	1.47
135	1.00	1.00	0.98	0.98	1.05	1.02	1.05	1.05	1.04	1.00	1.02	0.99	1.64	1.65	1.67	1.71	1.75	1.80	1.81
140	1.21	1.22	1.21	1.20	1.24	1.20	1.25	1.24	1.23	1.21	1.20	1.22	1.85	1.90	1.92	2.00	2.01	2.08	2.06
145	1.44	1.48	1.45	1.44	1.46	1.47	1.47	1.47	1.45	1.42	1.37	1.43	2.13	2.16	2.19	2.27	2.29	2.35	2.33
150	1.61	1.68	1.64	1.61	1.67	1.67	1.66	1.67	1.62	1.59	1.53	1.55	2.36	2.38	2.38	2.47	2.52	2.58	2.54
155	1.85	1.93	1.94	1.81	1.86	1.82	1.81	1.85	1.83	1.79	1.82	1.73	2.59	2.56	2.65	2.67	2.72	2.78	2.68
160	2.09	2.13	2.14	1.99	1.97	1.94	1.92	2.03	2.00	2.02	2.01	1.95	2.86	2.83	2.85	2.92	2.91	2.93	2.85
165	2.22	2.29	2.30	2.21	2.14	2.09	2.06	2.19	2.22	2.23	2.17	2.14	2.98	2.98	2.99	3.05	3.10	3.07	2.98
170	2.36	2.42	2.42	2.35	2.27	2.22	2.19	2.28	2.30	2.26	2.26	2.29	3.05	3.05	3.07	3.08	3.10	3.07	2.96
175	2.62	2.68	2.66	2.63	2.54	2.48	2.38	2.44	2.47	2.50	2.50	2.56	3.01	3.00	3.04	3.03	3.00	2.96	2.87
180	2.82	2.86	2.87	2.85	2.82	2.74	2.67	2.68	2.84	2.82	2.91	2.96	2.85	2.84	2.89	2.88	2.85	2.81	2.74

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:1.3878A P:381.16W PF:0.9915 Freq:60.00Hz Lamp Flux:56053.1x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.:ASD-UHB2HV-400D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	2807	2807	2806	2806	2805														
5	2792	2790	2789	2787	2786														
10	2751	2749	2746	2744	2742														
15	2679	2677	2674	2670	2666														
20	2576	2572	2568	2562	2557														
25	2438	2432	2426	2418	2414														
30	2271	2265	2256	2247	2242														
35	2088	2081	2072	2065	2059														
40	1901	1895	1888	1877	1861														
45	1603	1594	1588	1578	1563														
50	1252	1243	1232	1221	1205														
55	862	857	843	828	819														
60	497	495	496	502	490														
65	194	195	195	191	185														
70	56.7	55.8	55.2	55.4	56.2														
75	38.4	37.6	37.1	37.2	37.8														
80	22.6	22.0	21.5	21.4	21.8														
85	8.90	8.68	8.37	8.17	8.20														
90	0.10	0.10	0.10	0.12	0.16														
95	0.14	0.14	0.14	0.14	0.14														
100	0.22	0.22	0.22	0.23	0.23														
105	0.33	0.34	0.34	0.34	0.35														
110	0.45	0.45	0.45	0.46	0.46														
115	0.60	0.60	0.61	0.61	0.60														
120	0.82	0.82	0.81	0.81	0.80														
125	1.11	1.11	1.09	1.08	1.07														
130	1.46	1.44	1.39	1.36	1.37														
135	1.80	1.75	1.68	1.64	1.65														
140	2.04	1.96	1.95	1.90	1.89														
145	2.29	2.27	2.18	2.16	2.15														
150	2.48	2.44	2.43	2.36	2.39														
155	2.65	2.62	2.61	2.68	2.65														
160	2.79	2.81	2.83	2.88	2.88														
165	2.88	2.93	2.96	2.97	3.00														
170	2.89	2.93	2.87	2.93	3.01														
175	2.79	2.84	2.78	2.87	2.93														
180	2.70	2.64	2.70	2.73	2.76														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24.8DEG  
 Operators: Alan Wang  
 Test Date: 30 December 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 44.6%  
 Test Distance: 2.500m [K=1.0455]  
 Remarks: