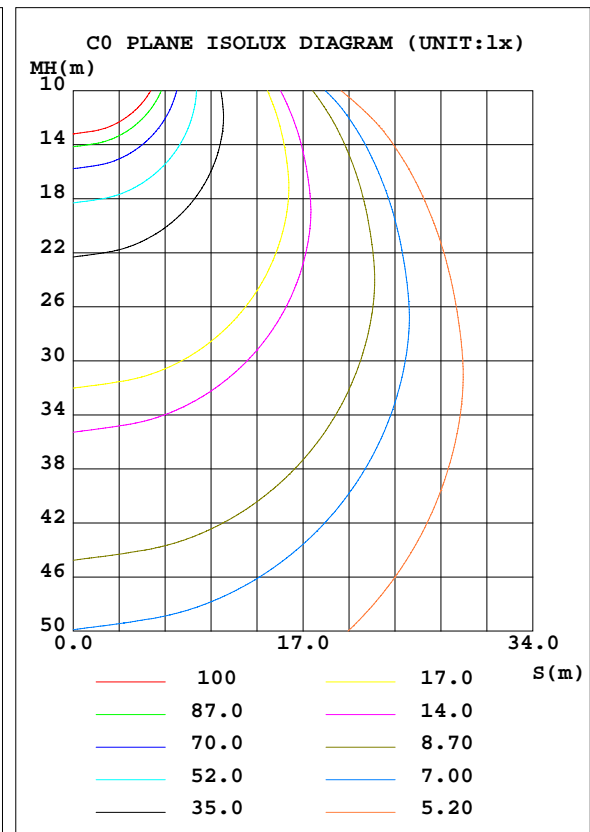
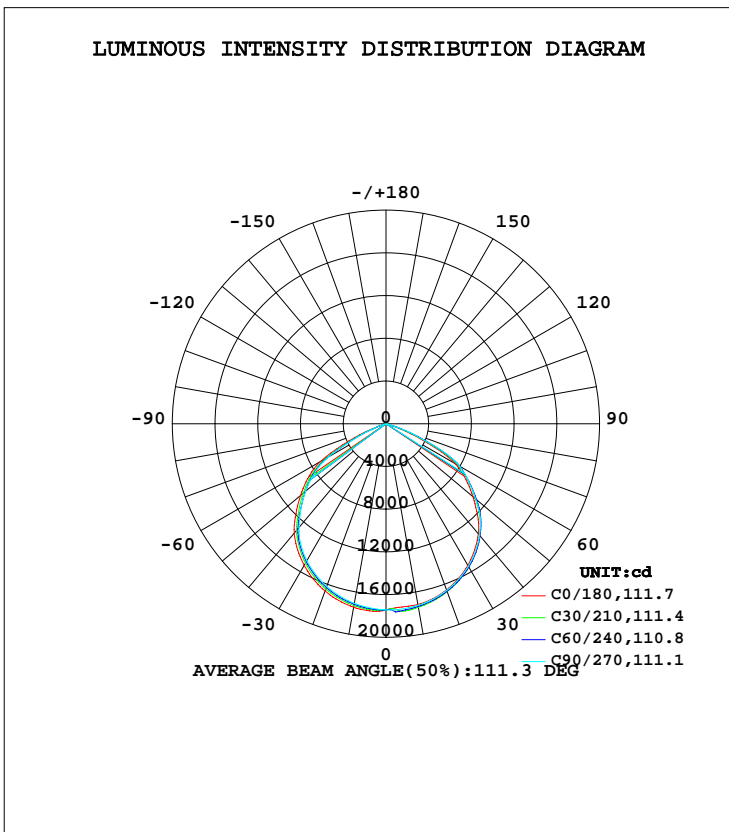


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.27 lm/W			
MODEL	ASD-UHB2-300D50-PRM	I <sub>max</sub> (cd)	17687	S/MH(C0/180)	1.30
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	45000	η UP, DN(C0-180)	0.0,51.8
NOMINAL FLUX(lm)	45000	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,48.1
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.35



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

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	1719	1742	1726	1708	1745	1722	1707	1700	0- 10	1655	1655	3.74,3.74
20	1657	1672	1661	1639	1667	1639	1622	1617	10- 20	4771	6426	14.5,14.5
30	1532	1551	1542	1513	1532	1499	1481	1482	20- 30	7312	13737	31.1,31.1
40	1345	1368	1363	1330	1336	1292	1266	1281	30- 40	8916	22654	51.2,51.2
50	1063	1101	1096	1053	1045	995.9	981.7	1005	40- 50	9140	31794	71.9,71.9
60	752.6	795.6	796.0	746.3	710.9	632.8	623.3	677.5	50- 60	7932	39726	89.8,89.8
70	149.9	206.2	226.7	173.1	112.3	65.36	73.58	101.1	60- 70	4114	43840	99.1,99.1
80	3.945	4.299	4.374	4.117	3.757	3.147	2.950	3.385	70- 80	325.8	44165	99.9,99.9
90	0.3604	0.6732	0.6724	0.5844	0.2986	0.2126	0.2360	0.2823	80- 90	20.26	44186	99.9,99.9
100	0.1368	0.1235	0.1219	0.1311	0.3257	0.3483	0.3481	0.3212	90-100	2.249	44188	99.9,99.9
110	0.2439	0.2398	0.2433	0.2516	0.4961	0.5090	0.5093	0.4880	100-110	3.255	44191	99.9,99.9
120	0.3936	0.3689	0.3908	0.4108	0.6110	0.6570	0.6752	0.6288	110-120	4.291	44196	99.9,99.9
130	0.6432	0.5831	0.6026	0.6245	0.9516	1.000	1.045	0.9116	120-130	5.774	44201	99.9,99.9
140	0.8839	0.8017	0.8325	0.8490	1.213	1.329	1.320	1.216	130-140	7.178	44208	100,100
150	1.027	0.9656	0.9925	0.9876	1.442	1.497	1.480	1.409	140-150	7.178	44216	100,100
160	1.246	1.111	1.078	1.157	1.641	1.672	1.586	1.571	150-160	5.972	44222	100,100
170	1.392	1.314	1.247	1.346	1.732	1.724	1.629	1.581	160-170	4.078	44226	100,100
180	1.342	1.342	1.342	1.342	1.503	1.503	1.503	1.503	170-180	1.440	44227	100,100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT:lm		

Conical surface Flux(90deg): 27297 lm

%lum = 61.7%

%lamp = 61.7%

Conical surface Flux(120deg): 39726 lm

%lum = 89.8%

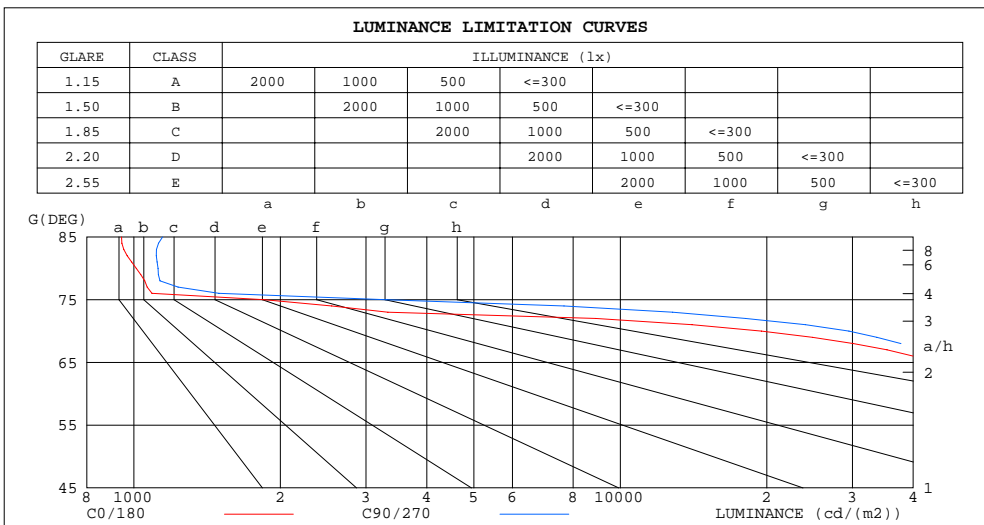
%lamp = 89.8%

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	943	1145
80	1011	1121
75	1855	3303
70	19502	29504
65	45831	54701
60	66993	70852
55	71077	73535
50	73611	75884
45	76307	78567

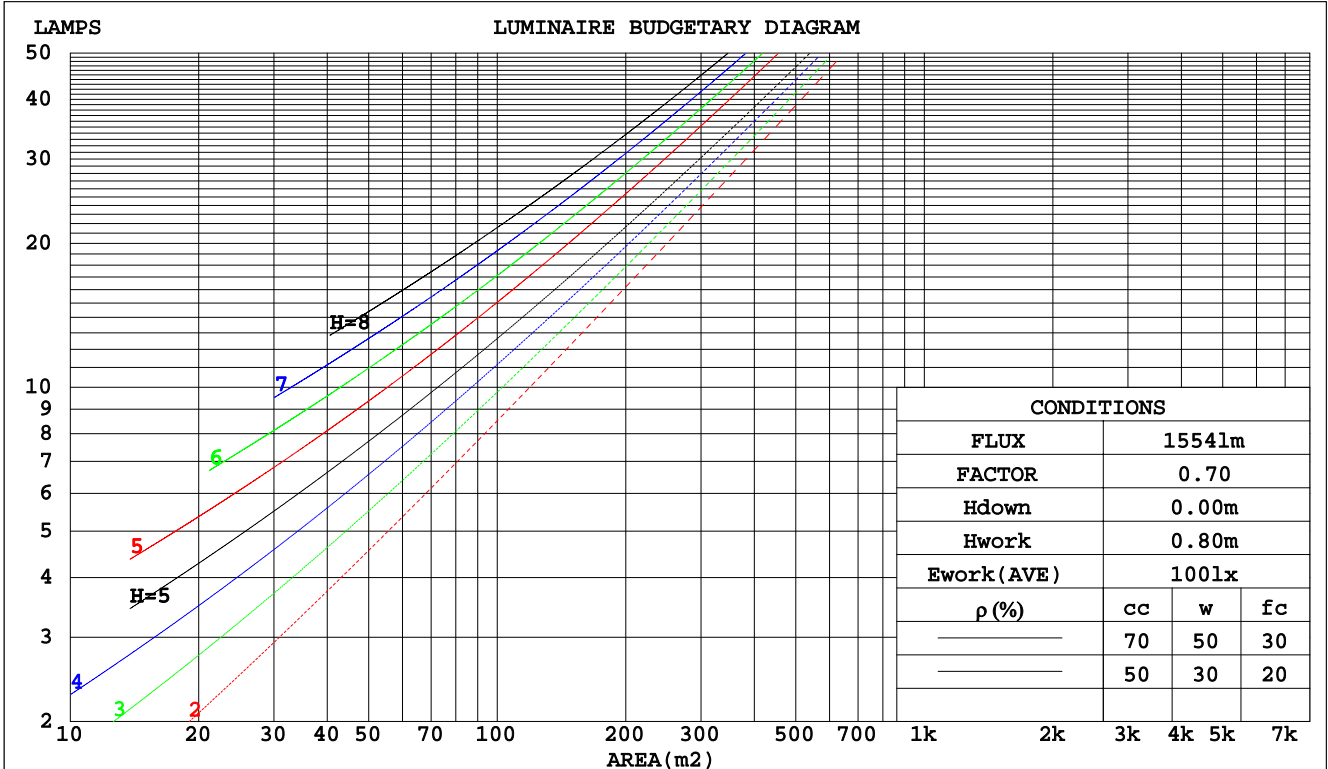
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 April 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-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	1.07	1.03	1.00	1.05	1.01	.99	1.00	.98	.95	.97	.94	.93	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.58	.52	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49
6.0	.61	.52	.46	.60	.52	.46	.58	.51	.45	.56	.50	.45	.55	.49	.45	.43
7.0	.55	.47	.41	.54	.46	.41	.53	.46	.40	.51	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.36	.49	.42	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.42	.36	.32	.30
10.0	.42	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.39	.33	.29	.28



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

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

WEC AND CCEC

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-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	.253	.144	.046	.246	.140	.045	.233	.134	.043	.221	.127	.041	.210	.122	.039	
2.0	.250	.137	.042	.244	.134	.041	.233	.129	.040	.222	.125	.039	.213	.120	.038	
3.0	.240	.127	.038	.234	.125	.038	.224	.121	.037	.215	.118	.036	.206	.114	.035	
4.0	.227	.118	.035	.222	.116	.034	.213	.113	.034	.205	.110	.033	.197	.107	.033	
5.0	.213	.109	.031	.209	.107	.031	.201	.105	.031	.194	.102	.030	.187	.100	.030	
6.0	.200	.100	.029	.197	.099	.029	.190	.097	.028	.183	.095	.028	.177	.093	.028	
7.0	.188	.093	.026	.185	.092	.026	.179	.090	.026	.173	.089	.026	.167	.087	.026	
8.0	.177	.087	.024	.174	.086	.024	.169	.084	.024	.163	.083	.024	.158	.081	.024	
9.0	.167	.081	.023	.164	.080	.022	.159	.079	.022	.155	.077	.022	.150	.076	.022	
10.0	.158	.076	.021	.156	.075	.021	.151	.074	.021	.147	.073	.021	.142	.072	.021	

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	.152	.135	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.167	.133	.104	.143	.114	.090	.098	.079	.063	.057	.046	.037	.018	.015	.012	
3.0	.159	.115	.079	.137	.099	.069	.094	.069	.048	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.062	.130	.087	.054	.090	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.145	.091	.050	.125	.078	.044	.086	.055	.031	.050	.032	.018	.016	.010	.006	
6.0	.138	.082	.042	.119	.071	.036	.082	.050	.026	.048	.029	.015	.015	.010	.005	
7.0	.132	.075	.035	.114	.065	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004	
8.0	.126	.069	.031	.109	.060	.027	.075	.042	.019	.044	.025	.011	.014	.008	.004	
9.0	.121	.065	.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: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 April 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-UHB2-300D50-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	27.7	29.2	28.0	29.5	29.8	27.7	29.2	28.0	29.5	29.8
3H	28.0	29.4	28.4	29.7	30.1	28.2	29.6	28.6	29.9	30.3
4H	28.0	29.3	28.4	29.6	30.0	28.2	29.5	28.6	29.8	30.2
6H	27.9	29.1	28.3	29.5	29.9	28.1	29.3	28.5	29.7	30.1
8H	27.9	29.0	28.3	29.4	29.8	28.1	29.2	28.5	29.6	30.0
12H	27.9	28.9	28.3	29.3	29.7	28.1	29.1	28.5	29.5	29.9
4H 2H	28.1	29.3	28.5	29.7	30.1	28.0	29.2	28.4	29.6	30.0
3H	28.5	29.5	28.9	29.9	30.3	28.5	29.6	29.0	30.0	30.4
4H	28.4	29.3	28.8	29.7	30.2	28.5	29.4	28.9	29.8	30.3
6H	28.3	29.1	28.8	29.6	30.1	28.4	29.2	28.9	29.7	30.1
8H	28.3	29.0	28.8	29.5	30.0	28.4	29.1	28.8	29.6	30.0
12H	28.3	28.9	28.8	29.4	29.9	28.3	29.0	28.8	29.5	30.0
8H 4H	28.3	29.1	28.8	29.5	30.0	28.4	29.1	28.9	29.6	30.0
6H	28.2	28.8	28.7	29.3	29.8	28.3	28.9	28.8	29.4	29.9
8H	28.2	28.7	28.7	29.2	29.7	28.3	28.8	28.8	29.3	29.8
12H	28.2	28.6	28.7	29.1	29.7	28.2	28.7	28.7	29.2	29.8
12H 4H	28.3	28.9	28.8	29.4	29.9	28.4	29.0	28.8	29.5	30.0
6H	28.2	28.7	28.7	29.2	29.8	28.3	28.8	28.8	29.3	29.8
8H	28.2	28.6	28.7	29.1	29.7	28.2	28.7	28.7	29.2	29.8
CIE190: 2010										

CIE190: 2010  
Area: 0.224687 m2

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

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
Humidity: 40.9%  
Test Distance: 2.500m [K=1.0417]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

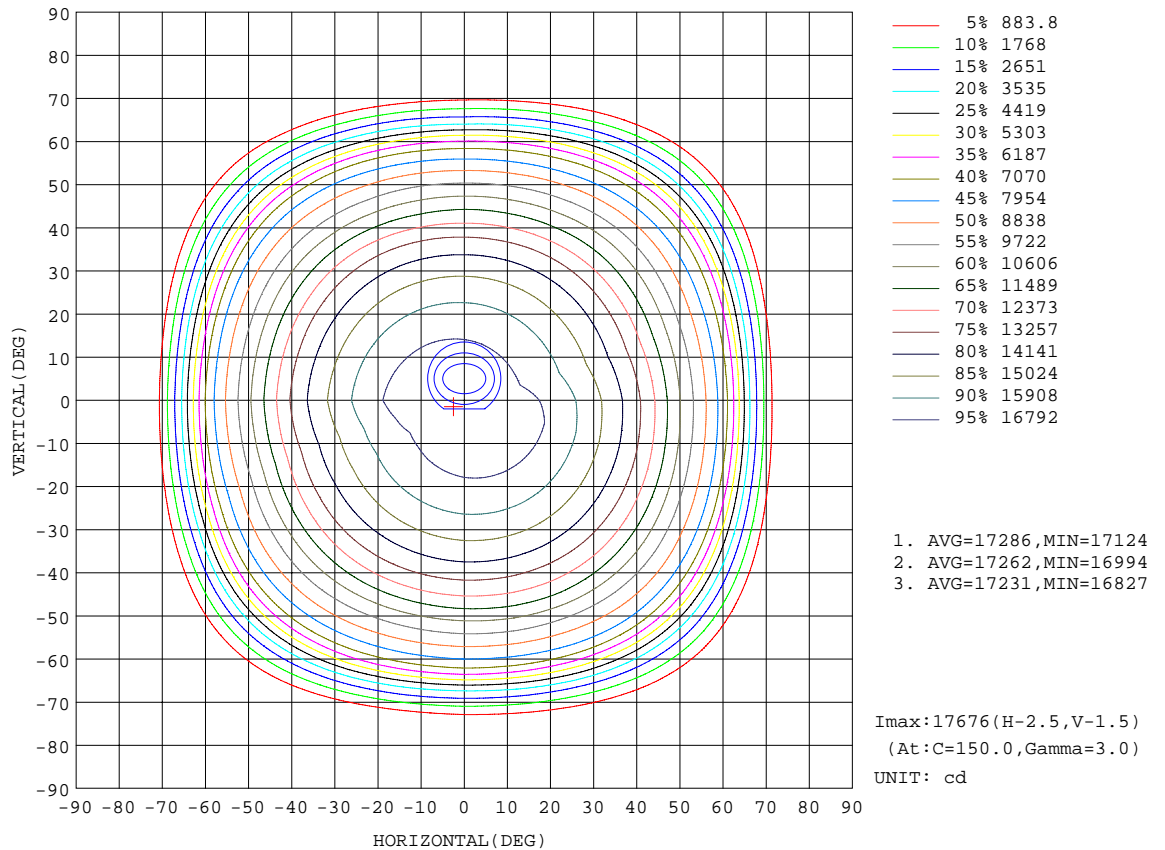
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	60	49	43	60	49	43	59	49	42	36
0.80	71	60	54	70	60	53	69	59	53	47
1.00	80	70	64	79	70	63	77	71	63	56
1.25	88	78	72	86	78	72	84	76	71	64
1.50	93	84	78	91	83	77	88	81	76	69
2.00	99	92	86	97	91	86	94	88	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	100	95	103	98	94	100	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	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: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 April 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



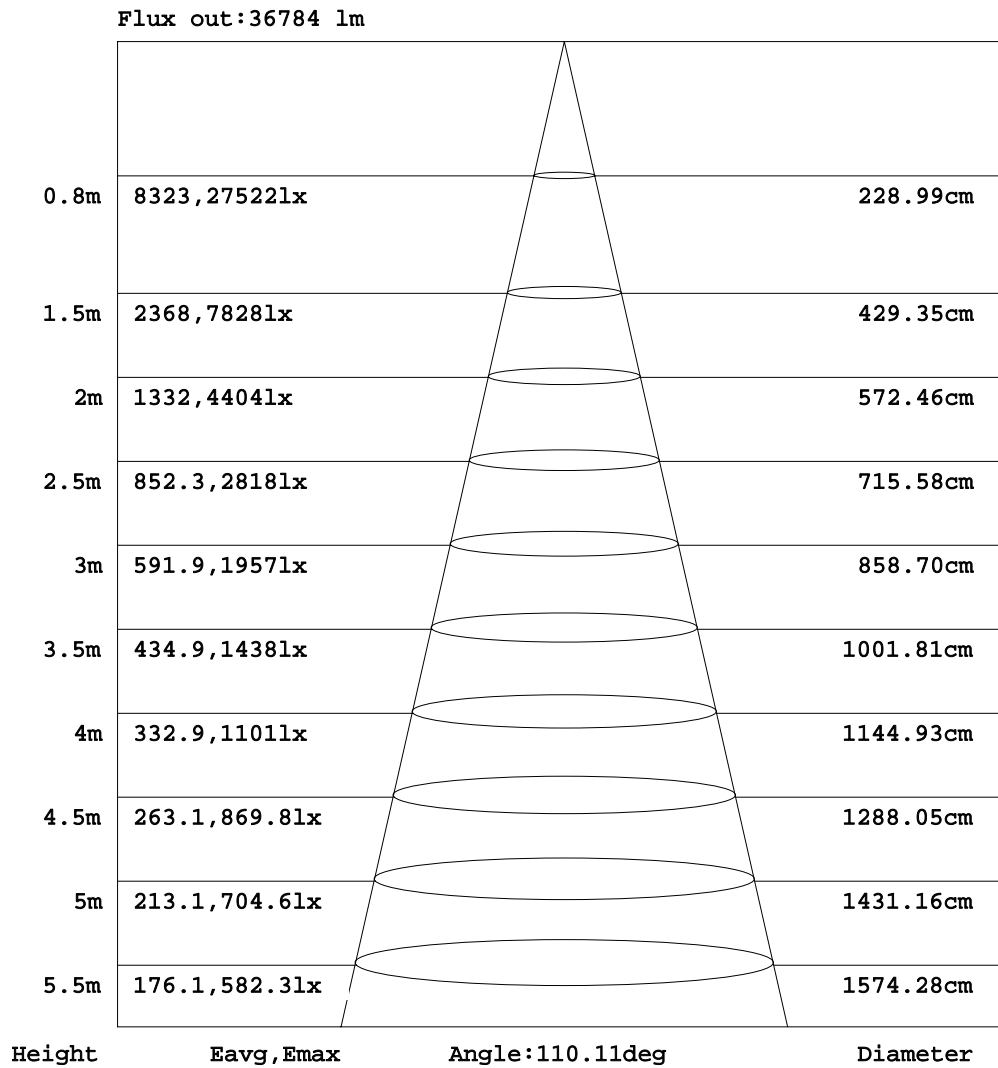
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.1DEG  
 Operators: Alan Wang  
 Test Date: 23 April 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:



AAI Figure

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



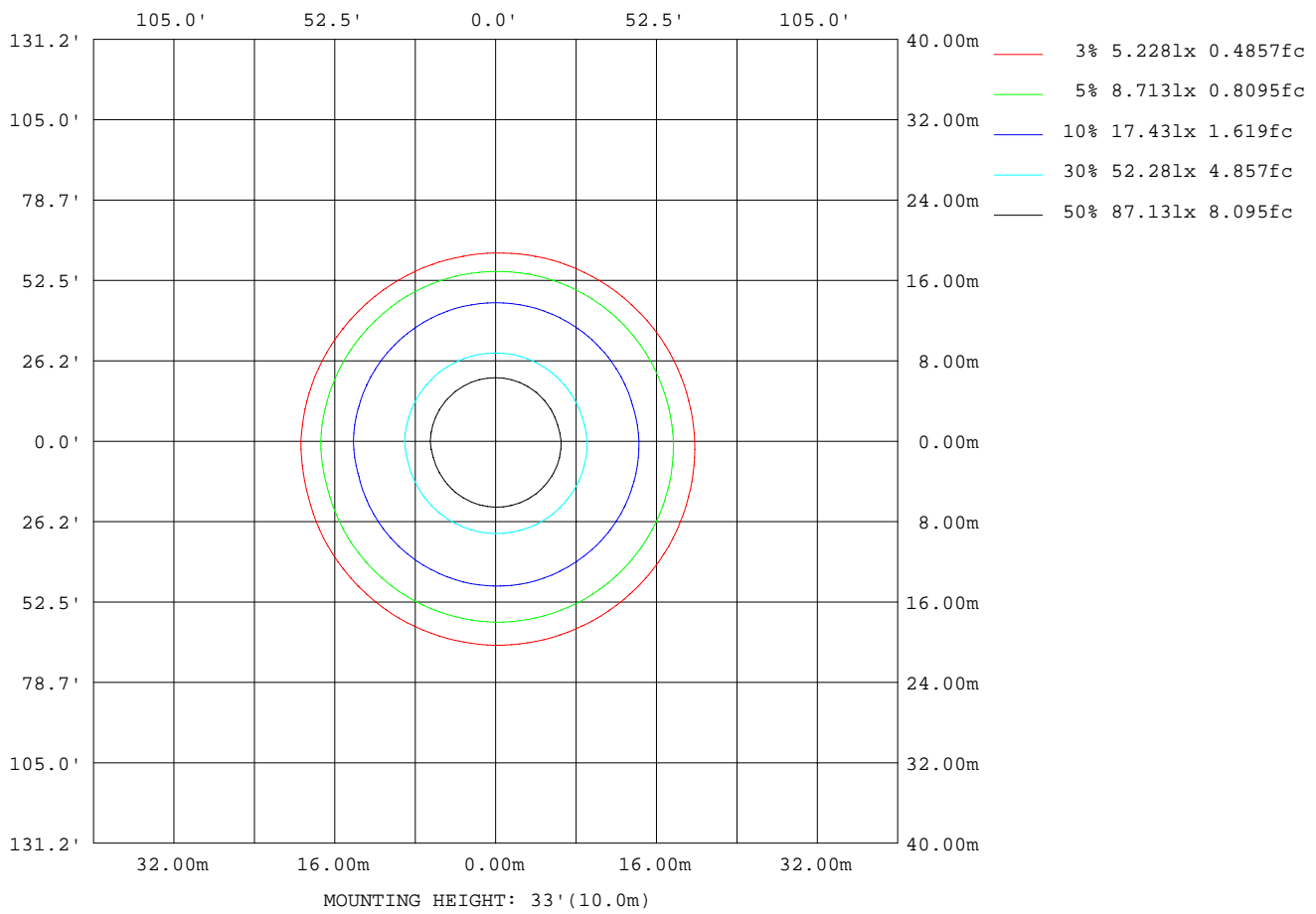
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-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 April 2021

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

## LED Avg.L Report

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-PRM	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

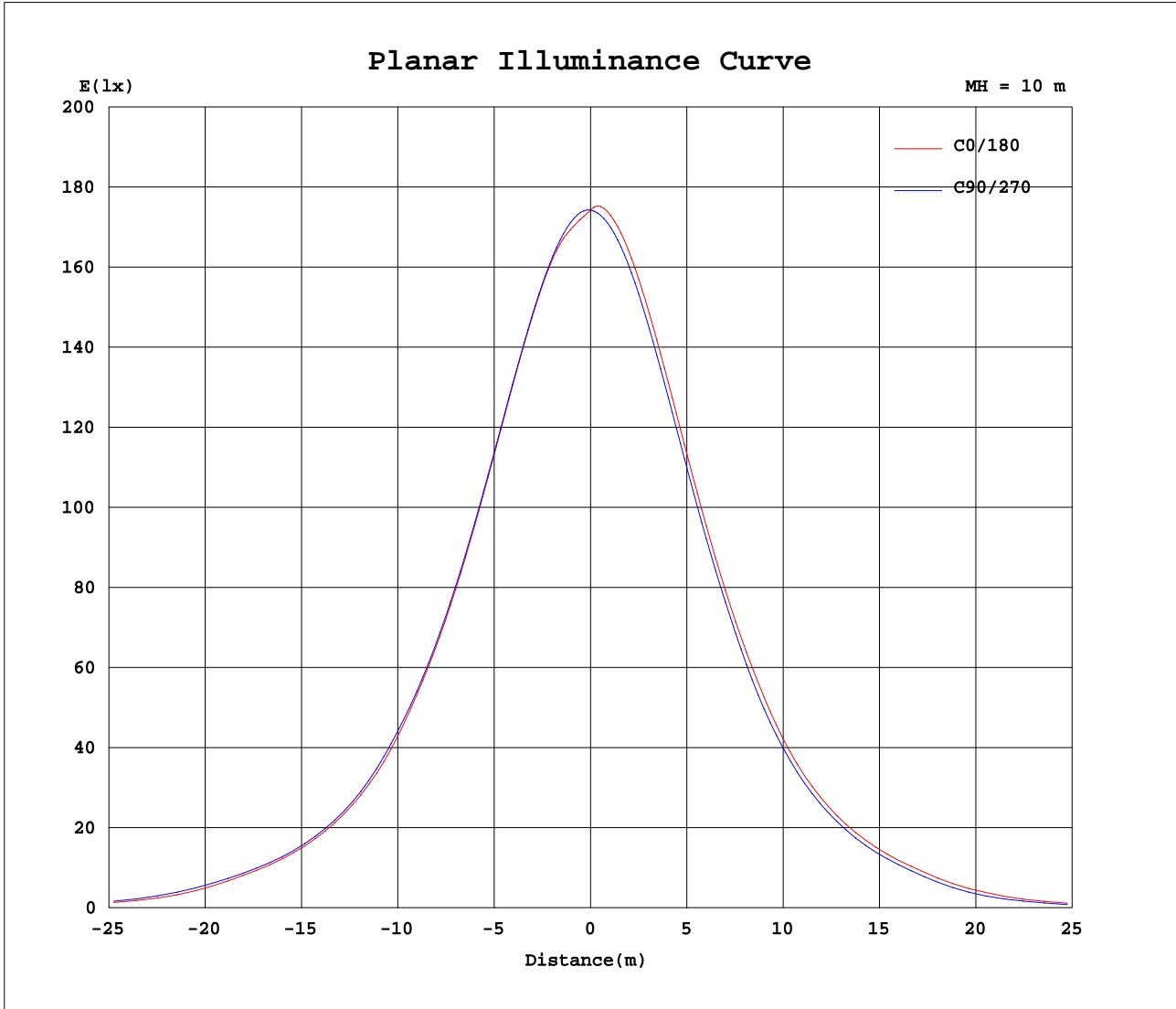
AvgL	cd/m2
L_0~180(65)av	43212
L_0~180(75)av	1457
L_0~180(85)av	901
L_90~270(65)av	43034
L_90~270(75)av	2103
L_90~270(85)av	870
L_45(65)av	43226
L_45(75)av	1704
L_45(85)av	883

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 April 2021

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

Planar Illuminance Curve



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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-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	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743	1743
5	1722	1745	1763	1762	1756	1749	1741	1734	1728	1725	1747	1765	1759	1753	1747	1742	1738	1734	1731
10	1719	1744	1746	1742	1737	1732	1726	1720	1714	1708	1709	1733	1745	1736	1729	1722	1716	1711	1707
15	1696	1716	1716	1713	1710	1705	1700	1694	1688	1681	1676	1692	1713	1704	1695	1688	1681	1676	1671
20	1657	1673	1674	1672	1670	1666	1661	1654	1646	1639	1632	1641	1667	1656	1647	1639	1632	1626	1622
25	1602	1616	1618	1619	1617	1614	1608	1600	1592	1583	1574	1579	1607	1595	1585	1576	1569	1563	1559
30	1532	1545	1549	1551	1550	1547	1542	1533	1523	1513	1503	1503	1532	1518	1507	1499	1492	1485	1481
35	1446	1459	1464	1468	1469	1466	1461	1451	1440	1429	1417	1415	1442	1426	1414	1406	1399	1393	1389
40	1345	1358	1364	1368	1370	1369	1363	1353	1342	1330	1317	1311	1336	1318	1303	1292	1282	1272	1266
45	1212	1232	1245	1252	1256	1255	1248	1235	1219	1200	1182	1170	1193	1173	1155	1141	1129	1124	1128
50	1063	1079	1092	1101	1108	1106	1096	1082	1068	1053	1037	1025	1045	1027	1011	996	985	983	982
55	916	930	944	949	950	952	948	935	922	909	894	879	895	878	861	847	836	829	826
60	753	769	784	796	800	800	796	783	765	746	727	703	711	678	652	633	626	622	623
65	435	467	494	512	522	525	519	502	484	457	424	392	385	356	330	315	306	303	298
70	150	173	193	206	214	223	227	212	193	173	150	127	112	97.6	81.7	65.4	69.7	70.9	73.6
75	10.8	12.2	14.1	16.3	18.1	19.7	19.2	17.8	14.6	11.6	9.60	7.47	6.15	5.97	5.74	5.53	5.36	5.26	5.25
80	3.95	4.10	4.21	4.30	4.36	4.38	4.37	4.33	4.26	4.12	3.92	3.71	3.76	3.53	3.33	3.15	3.02	2.96	2.95
85	1.85	2.01	2.14	2.21	2.26	2.27	2.24	2.18	2.10	1.99	1.85	1.69	1.68	1.53	1.37	1.24	1.16	1.13	1.16
90	0.36	0.47	0.58	0.67	0.68	0.68	0.67	0.67	0.66	0.58	0.48	0.33	0.30	0.26	0.22	0.21	0.21	0.22	0.24
95	0.09	0.10	0.11	0.11	0.10	0.10	0.12	0.16	0.14	0.10	0.09	0.09	0.21	0.22	0.22	0.23	0.23	0.23	0.23
100	0.14	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.33	0.33	0.34	0.35	0.35	0.35	0.35
105	0.20	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.44	0.45	0.45	0.45	0.45	0.45	0.45
110	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.26	0.50	0.50	0.50	0.51	0.51	0.51	0.51
115	0.30	0.30	0.29	0.30	0.30	0.30	0.31	0.32	0.32	0.32	0.32	0.32	0.54	0.54	0.55	0.56	0.57	0.57	0.57
120	0.39	0.38	0.36	0.37	0.38	0.38	0.39	0.40	0.41	0.41	0.41	0.41	0.61	0.63	0.64	0.66	0.67	0.67	0.68
125	0.51	0.47	0.45	0.46	0.48	0.48	0.49	0.50	0.52	0.51	0.51	0.51	0.77	0.78	0.79	0.82	0.84	0.84	0.85
130	0.64	0.61	0.57	0.58	0.59	0.58	0.60	0.61	0.62	0.62	0.62	0.64	0.95	0.97	0.98	1.00	1.03	1.04	1.05
135	0.77	0.75	0.71	0.69	0.73	0.70	0.72	0.73	0.75	0.73	0.76	0.77	1.12	1.14	1.16	1.18	1.19	1.22	1.21
140	0.88	0.87	0.83	0.80	0.83	0.81	0.83	0.84	0.84	0.85	0.86	0.89	1.21	1.26	1.28	1.33	1.33	1.35	1.32
145	0.96	0.96	0.92	0.92	0.91	0.92	0.92	0.93	0.93	0.93	0.91	0.95	1.34	1.38	1.39	1.42	1.45	1.47	1.44
150	1.03	1.03	0.99	0.97	1.00	1.00	0.99	1.01	1.00	0.99	0.97	0.99	1.44	1.46	1.46	1.50	1.51	1.53	1.48
155	1.13	1.14	1.11	1.04	1.04	1.03	1.03	1.06	1.06	1.06	1.07	1.08	1.53	1.53	1.56	1.57	1.56	1.58	1.51
160	1.25	1.23	1.19	1.11	1.10	1.09	1.08	1.13	1.15	1.16	1.17	1.17	1.64	1.63	1.63	1.67	1.68	1.66	1.59
165	1.31	1.32	1.29	1.23	1.18	1.16	1.13	1.23	1.27	1.29	1.29	1.27	1.69	1.69	1.71	1.74	1.76	1.74	1.67
170	1.39	1.38	1.36	1.31	1.27	1.26	1.25	1.31	1.34	1.35	1.33	1.33	1.73	1.72	1.71	1.72	1.73	1.70	1.63
175	1.52	1.49	1.44	1.39	1.35	1.33	1.31	1.33	1.36	1.38	1.40	1.43	1.73	1.73	1.72	1.73	1.73	1.69	1.63
180	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.50	1.50	1.50	1.50	1.50	1.50	1.50

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

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:2.4742A P:296.28W PF:0.9979 Freq:60.00Hz Lamp Flux:45000x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-UHB2-300D50-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	1743	1743	1743	1743	1743														
5	1728	1725	1723	1722	1721														
10	1704	1702	1700	1699	1700														
15	1668	1666	1665	1665	1667														
20	1619	1618	1617	1618	1622														
25	1557	1556	1556	1559	1565														
30	1480	1481	1482	1486	1493														
35	1389	1391	1394	1400	1407														
40	1268	1273	1281	1290	1305														
45	1128	1132	1143	1153	1168														
50	987	993	1005	1016	1028														
55	831	840	855	871	886														
60	638	657	677	699	720														
65	319	338	358	381	411														
70	83.8	95.0	101	117	139														
75	5.42	5.77	6.28	6.89	7.54														
80	3.06	3.21	3.38	3.60	3.81														
85	1.25	1.36	1.47	1.60	1.76														
90	0.22	0.24	0.28	0.36	0.45														
95	0.22	0.22	0.21	0.20	0.18														
100	0.34	0.33	0.32	0.31	0.29														
105	0.44	0.43	0.42	0.41	0.39														
110	0.50	0.50	0.49	0.48	0.45														
115	0.57	0.56	0.54	0.53	0.50														
120	0.66	0.65	0.63	0.60	0.57														
125	0.83	0.80	0.77	0.74	0.71														
130	1.02	0.98	0.91	0.90	0.87														
135	1.17	1.11	1.07	1.06	1.03														
140	1.27	1.23	1.22	1.19	1.14														
145	1.39	1.36	1.31	1.30	1.24														
150	1.43	1.41	1.41	1.39	1.31														
155	1.48	1.47	1.47	1.50	1.40														
160	1.52	1.55	1.57	1.59	1.47														
165	1.60	1.60	1.62	1.62	1.50														
170	1.59	1.57	1.58	1.60	1.48														
175	1.58	1.58	1.62	1.60	1.54														
180	1.50	1.50	1.50	1.50	1.50														

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

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.442T2  
 Humidity: 40.9%  
 Test Distance: 2.500m [K=1.0417]  
 Remarks: