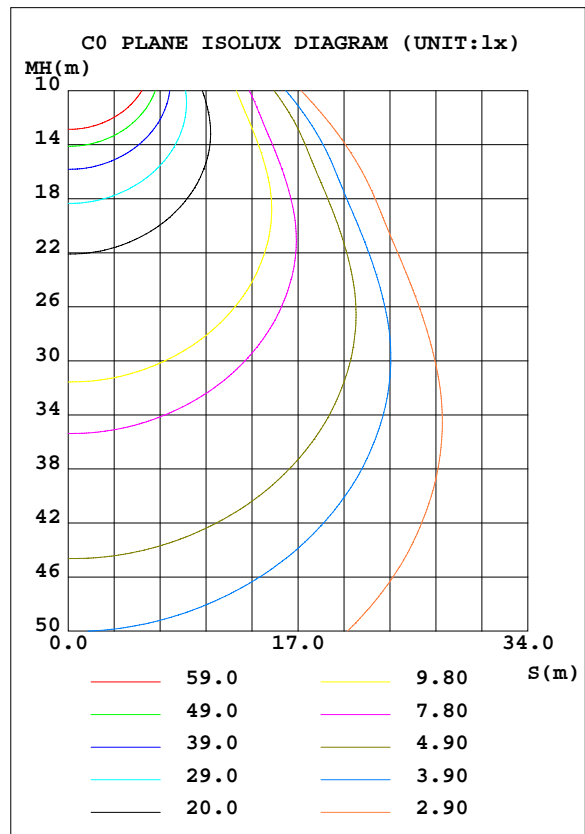
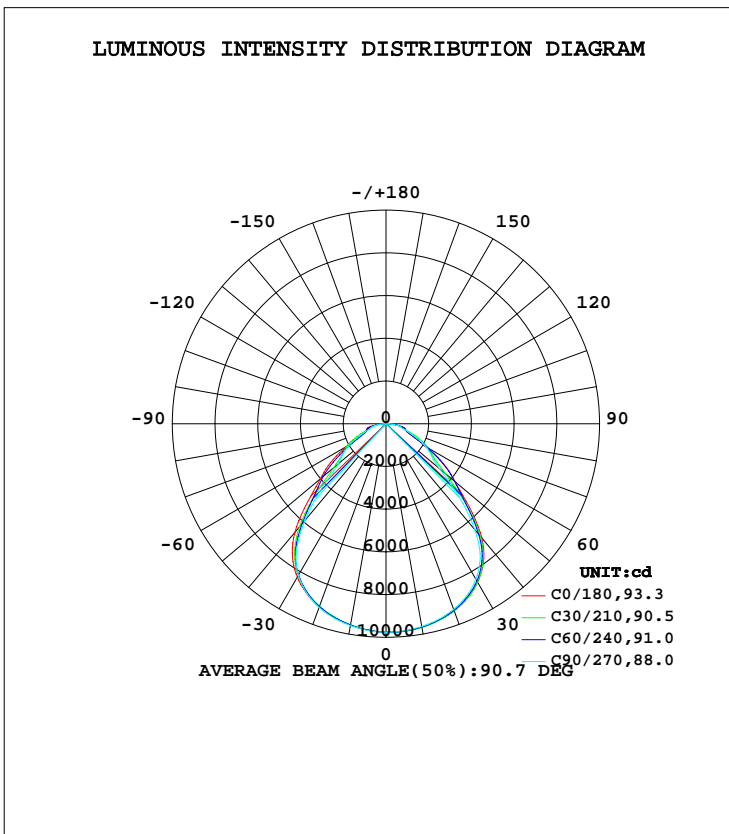


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.02 lm/W			
MODEL	ASD-WHB5M-2D16540	I _{max} (cd)	9768	S/MH(C0/180)	1.26
NOMINAL POWER(W)	165	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	22440	η UP, DN(C0-180)	0.1,51.7
NOMINAL FLUX(lm)	22440	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,48.2
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	9672	9672	9638	9614	9570	9562	9592	9607	0- 10	924.7	924.7	4.27,4.27
20	9323	9310	9251	9216	9129	9099	9149	9184	10- 20	2669	3593	16.6,16.6
30	8577	8542	8407	8436	8299	8193	8199	8270	20- 30	4077	7671	35.4,35.4
40	6981	6832	6465	6817	6636	6191	5900	6098	30- 40	4731	12402	57.2,57.2
50	4199	4040	3272	3963	4008	3665	2918	3610	40- 50	3836	16238	74.9,74.9
60	2261	2362	2161	2358	2169	2097	1974	1977	50- 60	2567	18805	86.8,86.8
70	1005	1276	1088	1308	962.7	1188	948.8	1142	60- 70	1573	20378	94.1,94.1
80	710.6	651.7	613.7	690.8	727.4	555.2	526.4	486.3	70- 80	927.8	21305	98.3,98.3
90	46.67	71.01	62.71	110.0	50.64	17.56	3.156	2.175	80- 90	327.7	21633	99.9,99.9
100	1.784	1.185	0.8073	1.032	2.516	2.046	1.634	2.253	90-100	8.627	21642	99.9,99.9
110	2.605	1.762	1.509	1.903	3.204	2.667	2.421	2.960	100-110	2.246	21644	99.9,99.9
120	2.912	2.331	2.362	2.592	3.737	3.579	3.515	3.947	110-120	2.558	21647	99.9,99.9
130	3.796	3.339	3.498	3.751	5.195	5.598	5.877	5.623	120-130	3.373	21650	99.9,99.9
140	4.810	4.415	4.869	4.826	6.608	7.276	7.544	7.092	130-140	4.052	21654	99.9,99.9
150	5.778	5.585	5.840	5.879	7.903	8.509	8.742	8.791	140-150	4.072	21658	100,100
160	6.779	6.606	6.922	6.999	9.594	9.559	9.771	9.445	150-160	3.517	21662	100,100
170	7.970	8.032	7.982	8.074	9.563	9.566	10.08	9.558	160-170	2.423	21664	100,100
180	9.287	9.287	9.287	9.287	9.188	9.188	9.188	9.188	170-180	0.8553	21665	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 14517 lm

%lum = 67.0%

%lamp = 67.0%

Conical surface Flux(120deg): 18805 lm

%lum = 86.8%

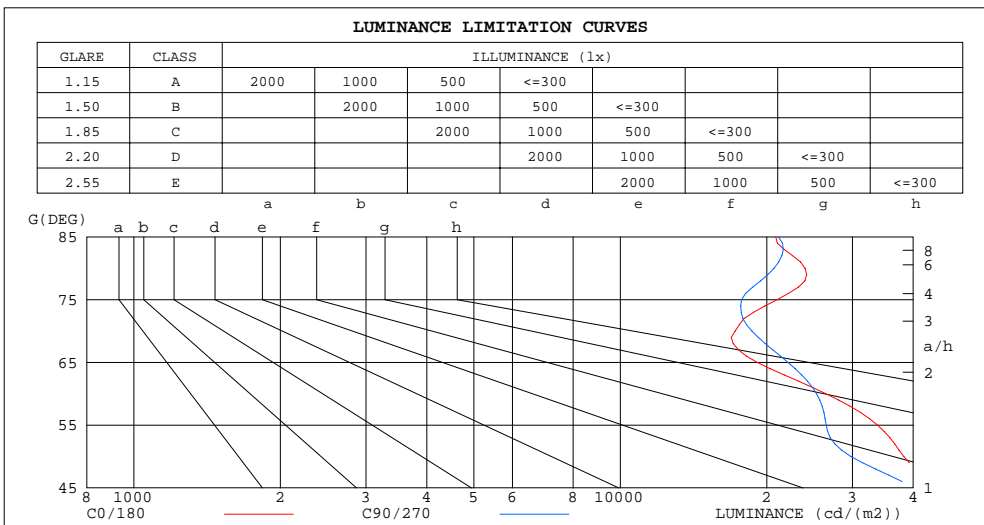
%lamp = 86.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	20866	21136
80	23969	20699
75	21000	17750
70	17213	18639
65	19126	22119
60	26479	25316
55	33783	26492
50	38259	29811
45	45720	40163

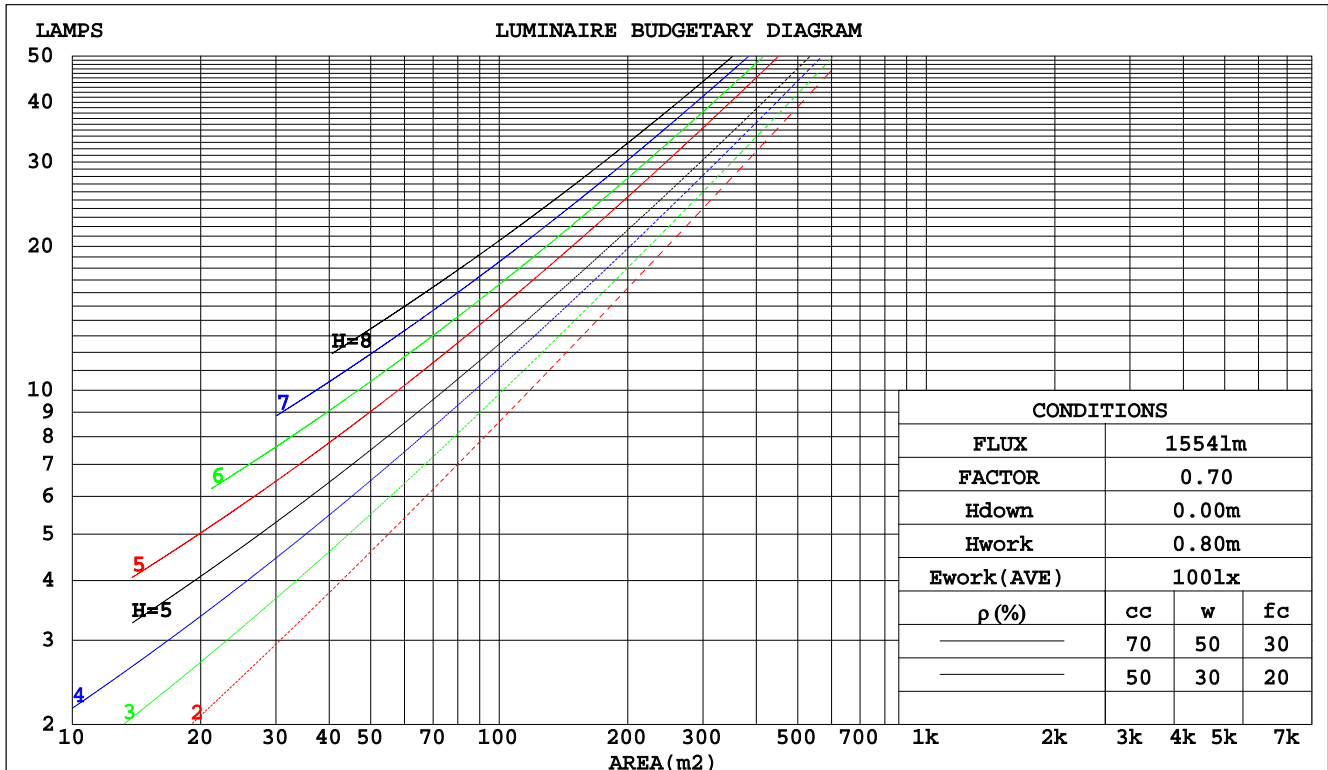
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.78	.83	.79	.77	.74
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.70	.64	.59	.67	.63	.59	.57
5.0	.68	.60	.54	.67	.59	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.42	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	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	.271	.154	.049	.264	.151	.048	.251	.144	.046	.239	.138	.044	.228	.132	.043	
2.0	.256	.141	.043	.250	.138	.042	.239	.133	.041	.228	.128	.040	.219	.124	.039	
3.0	.240	.128	.038	.234	.126	.038	.224	.122	.037	.215	.118	.036	.206	.114	.035	
4.0	.224	.116	.034	.219	.115	.034	.210	.111	.033	.202	.108	.033	.194	.105	.032	
5.0	.209	.106	.031	.205	.105	.031	.197	.102	.030	.189	.100	.030	.183	.098	.029	
6.0	.195	.098	.028	.192	.097	.028	.185	.095	.028	.178	.093	.027	.172	.091	.027	
7.0	.183	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.163	.084	.025	
8.0	.173	.084	.024	.170	.084	.024	.164	.082	.023	.159	.080	.023	.154	.079	.023	
9.0	.163	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021	
10.0	.154	.074	.020	.152	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.179	.158	.139	.153	.135	.119	.105	.093	.082	.060	.054	.048	.019	.017	.016	
2.0	.169	.133	.103	.144	.115	.089	.099	.079	.062	.057	.046	.037	.018	.015	.012	
3.0	.160	.115	.080	.137	.099	.069	.094	.069	.048	.054	.040	.029	.017	.013	.009	
4.0	.152	.102	.063	.130	.088	.055	.090	.061	.039	.052	.036	.023	.017	.012	.008	
5.0	.144	.091	.052	.124	.079	.045	.085	.055	.032	.049	.032	.019	.016	.011	.006	
6.0	.137	.082	.043	.118	.071	.037	.081	.050	.026	.047	.029	.016	.015	.010	.005	
7.0	.131	.075	.036	.112	.065	.032	.078	.046	.023	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.032	.107	.060	.027	.074	.042	.020	.043	.025	.012	.014	.008	.004	
9.0	.119	.065	.028	.103	.056	.024	.071	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.114	.060	.025	.098	.052	.021	.068	.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: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm										
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:		
SPEC.: ASD-WHB5M-2D16540					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	23.0	24.5	23.4	24.8	25.1	23.2	24.7	23.6	25.0	25.3
3H	24.3	25.7	24.7	26.0	26.4	24.5	25.8	24.9	26.1	26.5
4H	25.0	26.2	25.4	26.5	26.9	25.0	26.2	25.4	26.6	26.9
6H	25.6	26.7	26.0	27.1	27.5	25.5	26.6	25.9	27.0	27.4
8H	25.8	26.9	26.2	27.3	27.7	25.7	26.7	26.1	27.1	27.5
12H	25.9	27.0	26.4	27.3	27.8	25.8	26.9	26.3	27.3	27.7
4H 2H	23.4	24.7	23.8	25.0	25.4	23.6	24.9	24.0	25.2	25.6
3H	25.0	26.0	25.4	26.4	26.8	25.0	26.1	25.4	26.5	26.9
4H	25.7	26.6	26.1	27.0	27.5	25.7	26.7	26.2	27.1	27.5
6H	26.5	27.3	26.9	27.7	28.2	26.4	27.2	26.9	27.7	28.2
8H	26.7	27.5	27.2	27.9	28.4	26.7	27.5	27.2	27.9	28.4
12H	26.9	27.6	27.4	28.1	28.6	27.0	27.7	27.5	28.1	28.6
8H 4H	26.0	26.7	26.4	27.2	27.6	26.1	26.8	26.5	27.3	27.7
6H	26.9	27.5	27.4	28.0	28.5	27.0	27.6	27.5	28.1	28.6
8H	27.3	27.8	27.8	28.4	28.8	27.4	28.0	27.9	28.5	29.0
12H	27.6	28.1	28.1	28.6	29.1	27.8	28.3	28.3	28.8	29.4
12H 4H	26.0	26.7	26.5	27.2	27.6	26.1	26.8	26.6	27.3	27.7
6H	27.0	27.6	27.5	28.0	28.6	27.1	27.6	27.6	28.1	28.7
8H	27.4	27.9	27.9	28.4	29.0	27.6	28.1	28.1	28.6	29.2
CIE190: 2010										

CIE190: 2010
Area: 0.170742 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 04 June 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.8%
Test Distance: 2.500m [K=1.0462]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

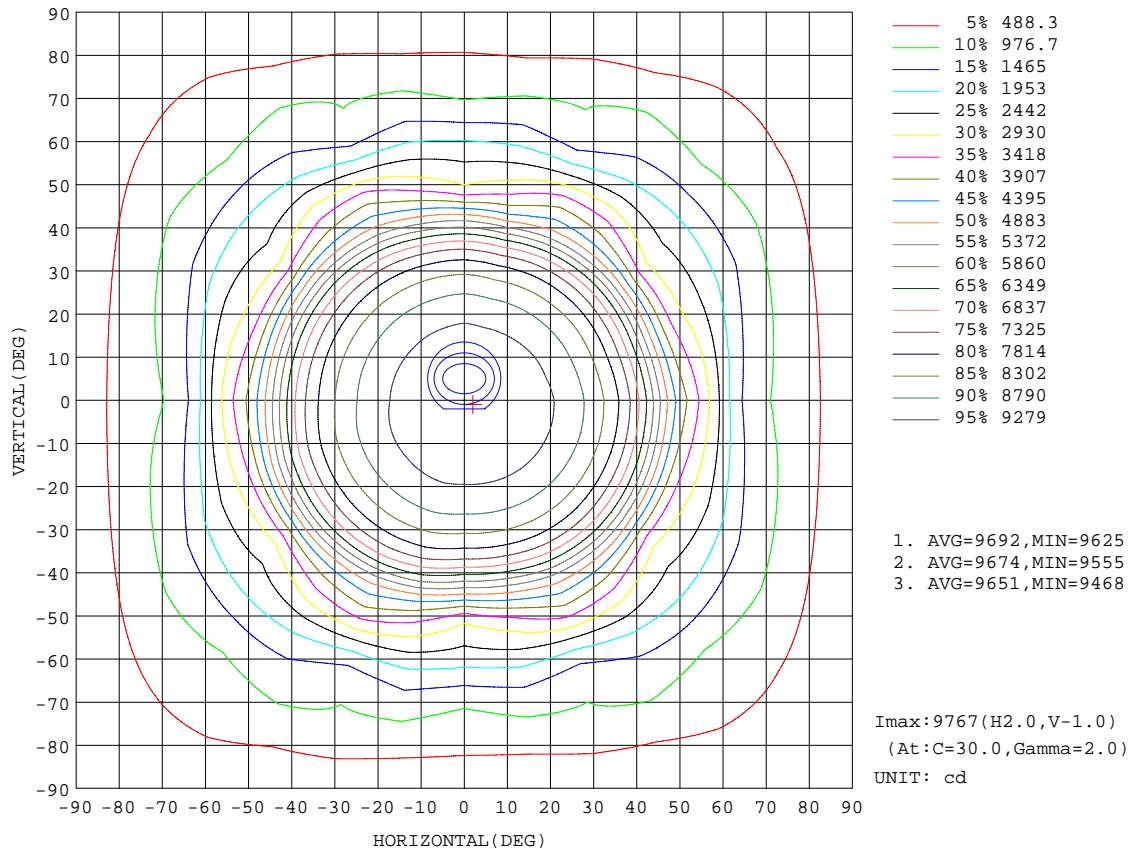
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	48	64	54	48	63	54	48	42
0.80	75	65	58	74	64	58	72	63	58	52
1.00	83	73	67	81	72	66	79	73	66	60
1.25	89	80	74	88	79	73	85	78	73	66
1.50	93	85	79	92	84	79	89	82	77	71
2.00	99	92	86	97	91	86	94	89	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	99	95	103	98	93	99	95	91	83
4.00	108	103	100	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

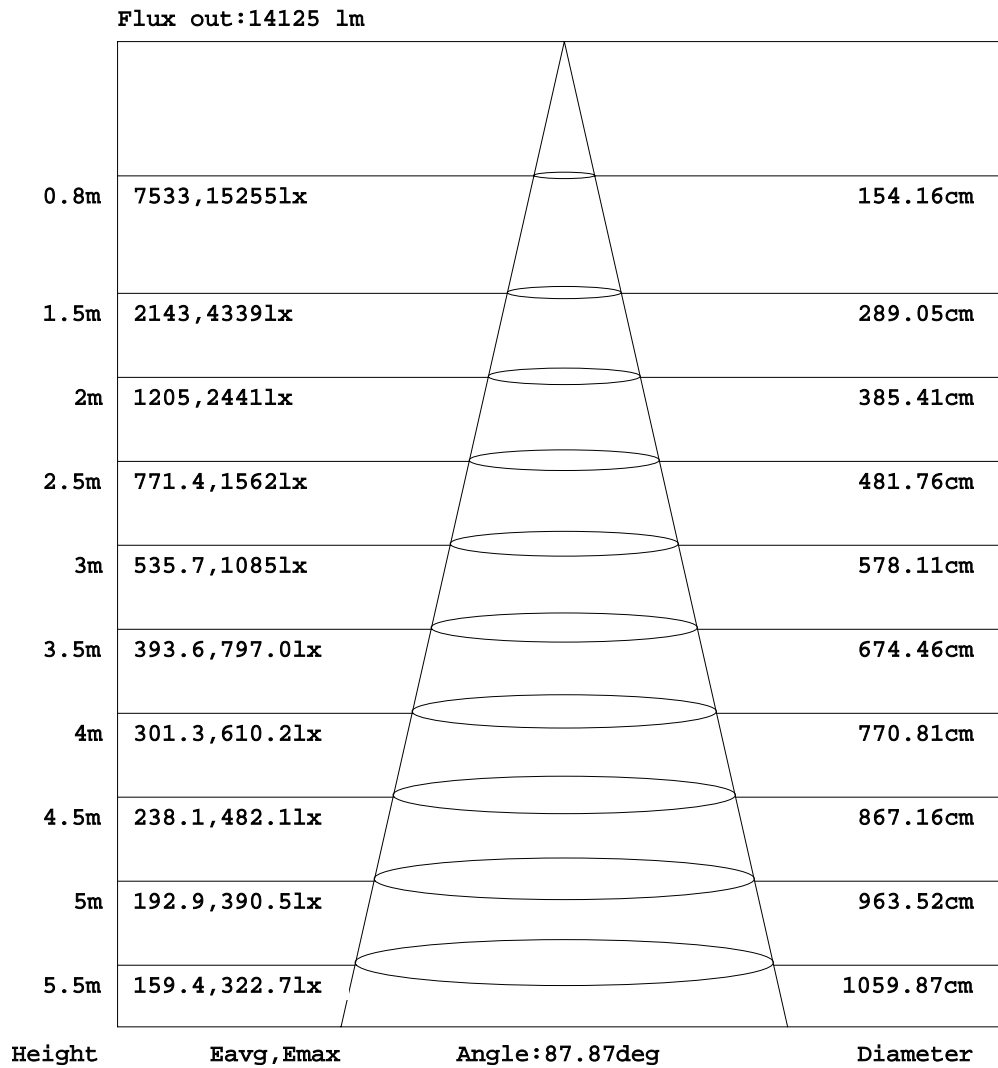


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

AAI Figure

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



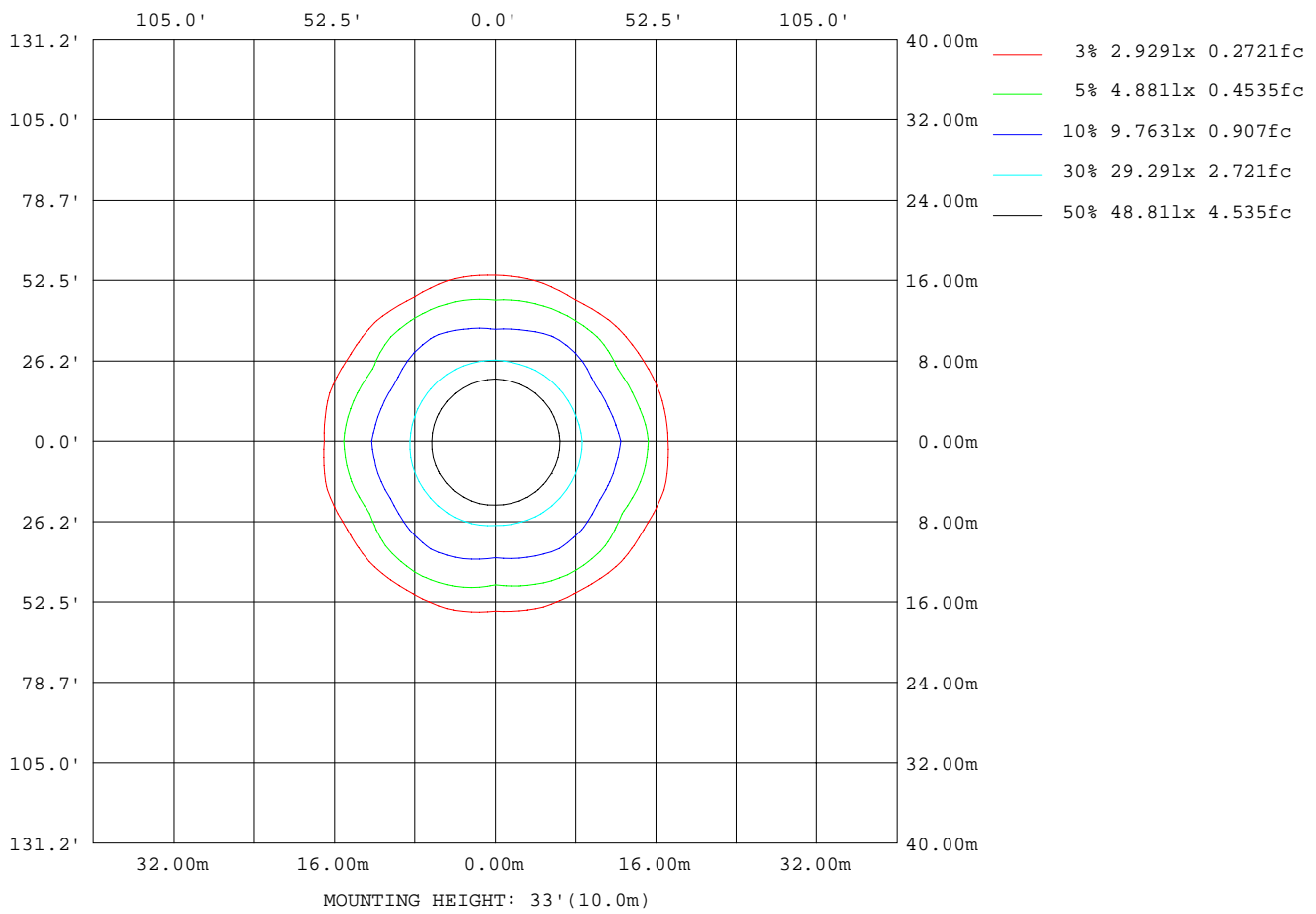
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	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: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

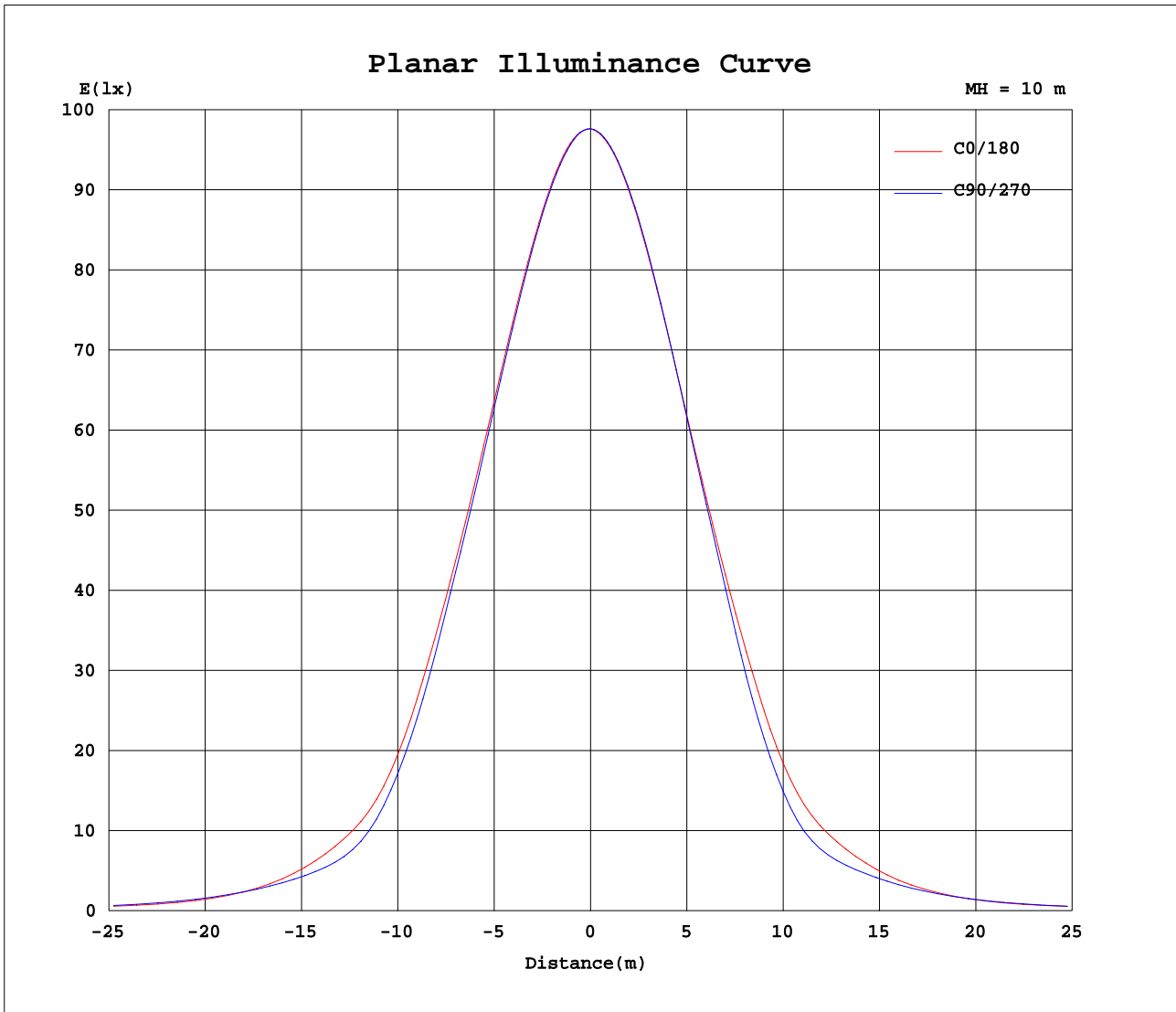
AvgL	cd/m2
L_0~180(65)av	18722
L_0~180(75)av	20866
L_0~180(85)av	21888
L_90~270(65)av	20720
L_90~270(75)av	17099
L_90~270(85)av	17008
L_45(65)av	22054
L_45(75)av	21362
L_45(85)av	19428

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	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	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763	9763
5	9749	9756	9756	9753	9747	9738	9734	9737	9731	9725	9718	9706	9698	9692	9690	9693	9697	9704	9712
10	9672	9684	9680	9672	9663	9650	9638	9644	9627	9614	9608	9592	9570	9564	9559	9562	9568	9580	9592
15	9529	9548	9537	9526	9515	9497	9484	9491	9468	9447	9434	9414	9384	9375	9366	9368	9379	9392	9417
20	9323	9332	9323	9310	9291	9270	9251	9264	9242	9216	9201	9175	9129	9114	9100	9099	9109	9122	9149
25	9012	9030	9018	8996	8967	8937	8908	8942	8919	8891	8875	8846	8776	8756	8733	8724	8722	8733	8764
30	8577	8592	8570	8542	8508	8452	8407	8476	8463	8436	8422	8394	8299	8260	8218	8193	8181	8181	8199
35	7948	7951	7914	7881	7834	7755	7693	7827	7819	7790	7776	7760	7631	7549	7466	7422	7392	7335	7330
40	6981	6957	6884	6832	6754	6569	6465	6768	6841	6817	6805	6814	6636	6463	6303	6191	6107	5950	5900
45	5520	5436	5291	5287	5285	5045	4849	5202	5322	5250	5251	5360	5209	4925	4660	4676	4742	4480	4211
50	4199	3906	3635	4040	4210	3710	3272	3854	4236	3963	3584	3856	4008	3547	3207	3665	3844	3331	2918
55	3309	3019	2700	3170	3264	2879	2594	3032	3355	3150	2631	2932	3165	2810	2499	2871	2836	2653	2459
60	2261	2428	2280	2362	2203	2276	2161	2358	2289	2358	2263	2388	2169	2283	2126	2097	1842	2037	1974
65	1380	1798	1781	1678	1398	1696	1596	1745	1439	1719	1779	1839	1322	1691	1613	1520	1199	1502	1394
70	1005	1309	1218	1276	1037	1256	1088	1317	1045	1308	1228	1348	963	1239	1078	1188	980	1130	949
75	928	968	803	996	926	919	784	975	944	1029	842	995	916	932	742	906	878	827	727
80	711	660	646	652	694	632	614	684	752	691	671	712	727	631	622	555	587	528	526
85	311	297	330	329	352	314	315	383	427	392	417	378	341	293	288	266	255	208	192
90	46.7	46.5	70.0	71.0	71.6	65.3	62.7	91.1	101	110	77.9	60.9	50.6	35.8	24.5	17.6	12.0	3.76	3.16
95	1.33	1.42	1.09	1.28	1.31	1.19	1.11	1.72	1.55	1.66	1.45	2.26	1.91	1.73	1.55	1.61	1.53	1.44	1.35
100	1.78	1.55	1.74	1.18	0.86	0.80	0.81	0.80	0.86	1.03	1.31	1.34	2.52	2.96	2.56	2.05	1.70	1.58	1.63
105	2.64	2.24	2.54	1.76	1.23	1.02	1.18	1.18	1.30	1.55	2.49	1.86	3.26	2.98	3.23	2.46	2.09	1.91	2.14
110	2.61	2.34	2.29	1.76	1.45	1.28	1.51	1.48	1.63	1.90	2.00	1.99	3.20	2.88	2.99	2.67	2.36	2.24	2.42
115	2.49	2.22	2.11	2.13	1.75	1.63	1.88	1.83	2.00	2.26	2.31	2.21	3.31	3.02	3.13	3.01	2.73	2.76	2.85
120	2.91	2.53	2.54	2.33	2.13	2.15	2.36	2.30	2.42	2.59	2.78	2.59	3.74	3.55	3.79	3.58	3.33	3.45	3.51
125	3.47	2.97	2.98	2.86	2.67	2.77	2.91	2.84	2.93	3.16	3.29	3.07	4.54	4.34	4.52	4.64	4.38	4.45	4.48
130	3.80	3.40	3.43	3.34	3.40	3.36	3.50	3.43	3.59	3.75	3.74	3.41	5.20	5.06	5.36	5.60	5.86	5.87	5.88
135	4.06	3.98	3.92	3.82	4.07	4.12	4.25	4.17	4.26	4.27	4.27	4.01	6.13	5.93	6.14	6.54	6.77	6.87	6.99
140	4.81	4.60	4.49	4.42	4.69	4.85	4.87	4.79	4.86	4.83	4.72	4.76	6.61	6.57	6.92	7.28	7.47	7.50	7.54
145	5.13	5.07	4.88	4.86	5.25	5.38	5.38	5.32	5.35	5.35	5.39	5.46	7.57	7.35	7.64	7.90	8.16	8.18	8.20
150	5.78	5.67	5.49	5.58	5.56	5.79	5.84	5.88	5.90	5.88	5.70	5.62	7.90	7.99	7.92	8.51	8.59	8.74	8.74
155	6.37	6.37	6.36	5.92	6.31	6.37	6.27	6.28	6.52	6.71	6.64	6.18	8.70	8.47	8.76	8.75	9.14	9.31	9.11
160	6.78	6.73	6.76	6.61	6.67	7.06	6.92	7.23	6.81	7.00	7.36	7.02	9.59	9.30	9.32	9.56	9.47	9.69	9.77
165	7.35	7.43	7.50	7.62	7.51	7.37	7.19	7.45	7.58	7.72	7.71	7.47	9.29	9.31	9.32	9.73	10.0	10.2	10.1
170	7.97	8.05	8.05	8.03	8.03	8.07	7.98	8.21	8.31	8.07	7.89	7.91	9.56	9.55	9.57	9.57	9.79	10.1	10.1
175	8.86	8.88	8.83	8.62	8.31	8.16	7.95	8.01	8.14	8.18	8.23	8.42	9.75	9.86	9.96	10.0	9.93	9.74	9.58
180	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.29	9.19	9.19	9.19	9.19	9.19	9.19	9.19

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.3200A P:158.11W PF:0.9982 Freq:60.00Hz Lamp Flux:22440x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D16540	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	9763	9763	9763	9763	9763														
5	9711	9713	9718	9727	9737														
10	9586	9596	9607	9625	9642														
15	9401	9416	9440	9469	9490														
20	9123	9147	9184	9228	9259														
25	8721	8762	8809	8872	8926														
30	8131	8197	8270	8363	8441														
35	7215	7364	7470	7589	7720														
40	5735	5941	6098	6314	6570														
45	4159	4585	4542	4517	4914														
50	3209	3707	3610	3116	3511														
55	2551	2667	2756	2511	2770														
60	1934	1688	1977	2095	2234														
65	1435	1147	1448	1524	1692														
70	1056	978	1142	1026	1221														
75	760	835	844	733	882														
80	471	525	486	559	556														
85	137	153	168	186	215														
90	1.91	1.93	2.17	2.54	2.65														
95	1.29	1.34	1.47	1.43	1.38														
100	1.80	1.96	2.25	2.74	2.48														
105	2.18	2.35	2.66	3.15	2.83														
110	2.46	2.65	2.96	2.83	2.85														
115	2.91	3.03	3.14	3.32	3.10														
120	3.60	3.66	3.95	3.87	3.63														
125	4.65	4.76	4.77	4.57	4.24														
130	6.10	5.87	5.62	5.48	5.00														
135	6.83	6.56	6.33	6.20	5.83														
140	7.42	7.30	7.09	6.90	6.54														
145	8.16	8.18	7.79	7.50	7.25														
150	8.69	8.55	8.79	8.32	8.05														
155	9.42	9.15	8.57	8.88	8.41														
160	9.57	9.57	9.45	9.44	8.75														
165	10.2	10.2	10.1	9.92	8.97														
170	9.97	9.94	9.56	9.46	8.94														
175	9.50	9.49	9.52	9.48	9.15														
180	9.19	9.19	9.19	9.19	9.19														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 04 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.8%
 Test Distance: 2.500m [K=1.0462]
 Remarks: