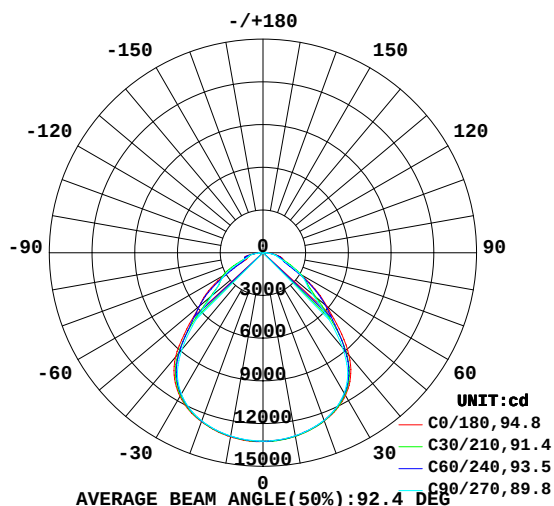


LUMINAIRE PHOTOMETRIC TEST REPORT

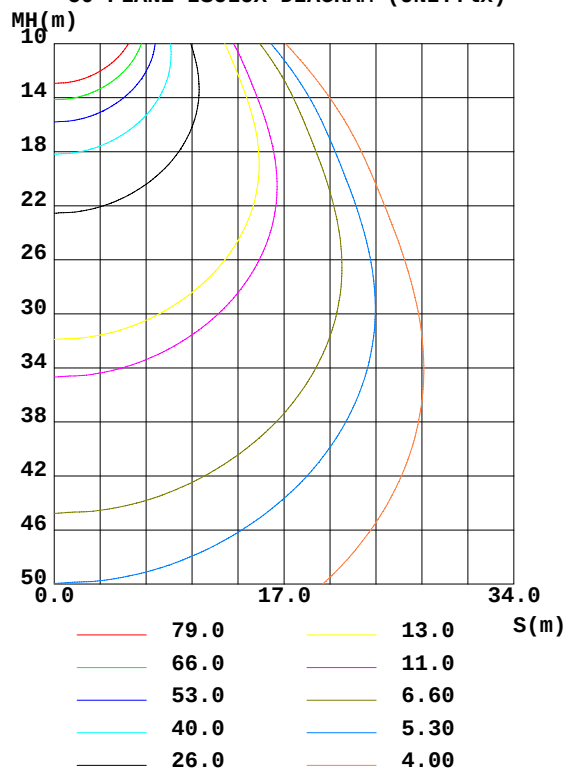
Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.75 lm/W			
MODEL	ASD-WHB5M-2D22040	I _{max} (cd)	13283	S/MH(C0/180)	1.30
NOMINAL POWER(W)	220	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	30360	η UP, DN(C0-180)	0.0, 50.2
NOMINAL FLUX(lm)	30360	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 49.6
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 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	1309	1307	1305	1306	1313	1309	1307	1299	0- 10	1255	1255	4.16, 4.16
20	1257	1253	1253	1257	1262	1258	1257	1245	10- 20	3631	4886	16.2, 16.2
30	1157	1146	1139	1158	1165	1154	1146	1132	20- 30	5579	10465	34.7, 34.7
40	940.1	902.7	867.8	942.3	955.3	920.8	884.6	871.4	30- 40	6552	17017	56.4, 56.4
50	585.6	544.9	454.1	563.0	582.9	552.5	464.6	518.0	40- 50	5447	22465	74.4, 74.4
60	303.5	315.7	300.6	323.1	309.3	315.5	306.4	296.9	50- 60	3693	26157	86.7, 86.7
70	157.3	169.4	138.7	183.6	120.6	181.9	143.8	159.9	60- 70	2214	28371	94, 94
80	97.47	80.64	78.12	87.43	101.1	79.69	82.69	76.66	70- 80	1304	29675	98.3, 98.3
90	0.2470	0.9592	0.4037	3.516	7.487	5.300	4.148	0.3642	80- 90	465.4	30140	99.9, 99.9
100	0.2757	0.1659	0.1193	0.1672	0.3332	0.2661	0.2136	0.2803	90-100	4.656	30145	99.9, 99.9
110	0.3102	0.2618	0.2024	0.2375	0.4401	0.3508	0.3180	0.3721	100-110	2.914	30148	99.9, 99.9
120	0.4116	0.3391	0.3279	0.3434	0.4854	0.4629	0.4592	0.4897	110-120	3.422	30151	99.9, 99.9
130	0.5078	0.4644	0.4827	0.4894	0.7000	0.7497	0.7490	0.7450	120-130	4.463	30156	99.9, 99.9
140	0.6399	0.6141	0.6537	0.6308	0.8694	0.9402	1.018	0.9314	130-140	5.399	30161	100, 100
150	0.7768	0.7405	0.7839	0.7739	1.054	1.135	1.162	1.120	140-150	5.403	30167	100, 100
160	0.9448	0.9137	0.9200	0.9578	1.273	1.288	1.306	1.271	150-160	4.711	30171	100, 100
170	1.103	1.083	1.059	1.067	1.290	1.304	1.340	1.300	160-170	3.272	30175	100, 100
180	1.256	1.256	1.256	1.256	1.246	1.246	1.246	1.246	170-180	1.164	30176	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

Conical surface Flux(90deg): 20008 lm

%lum = 66.3%

%lamp = 66.3%

Conical surface Flux(120deg): 26157 lm

%lum = 86.7%

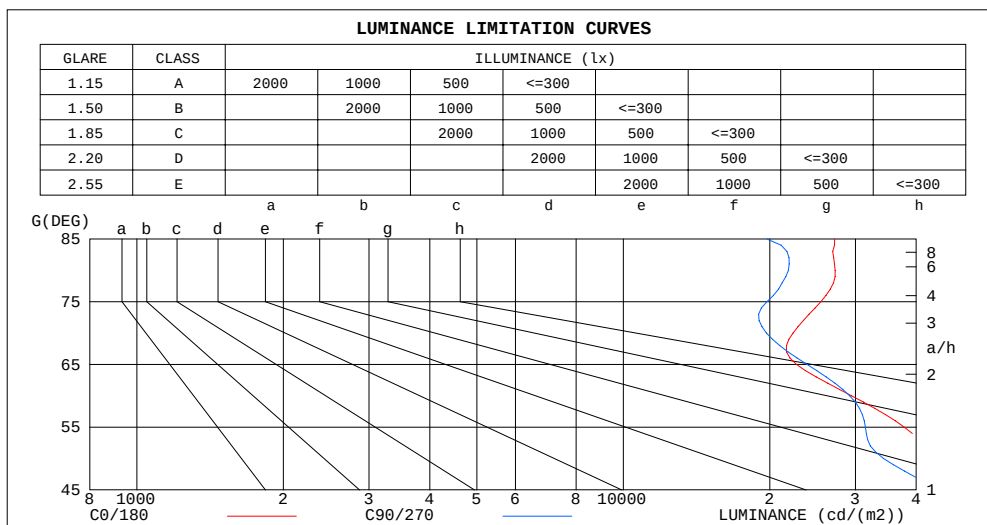
%lamp = 86.7%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	27184	19737
80	27253	21843
75	25467	19730
70	22332	19695
65	22704	23875
60	29470	29193
55	37805	31458
50	44229	34296
45	52010	44442

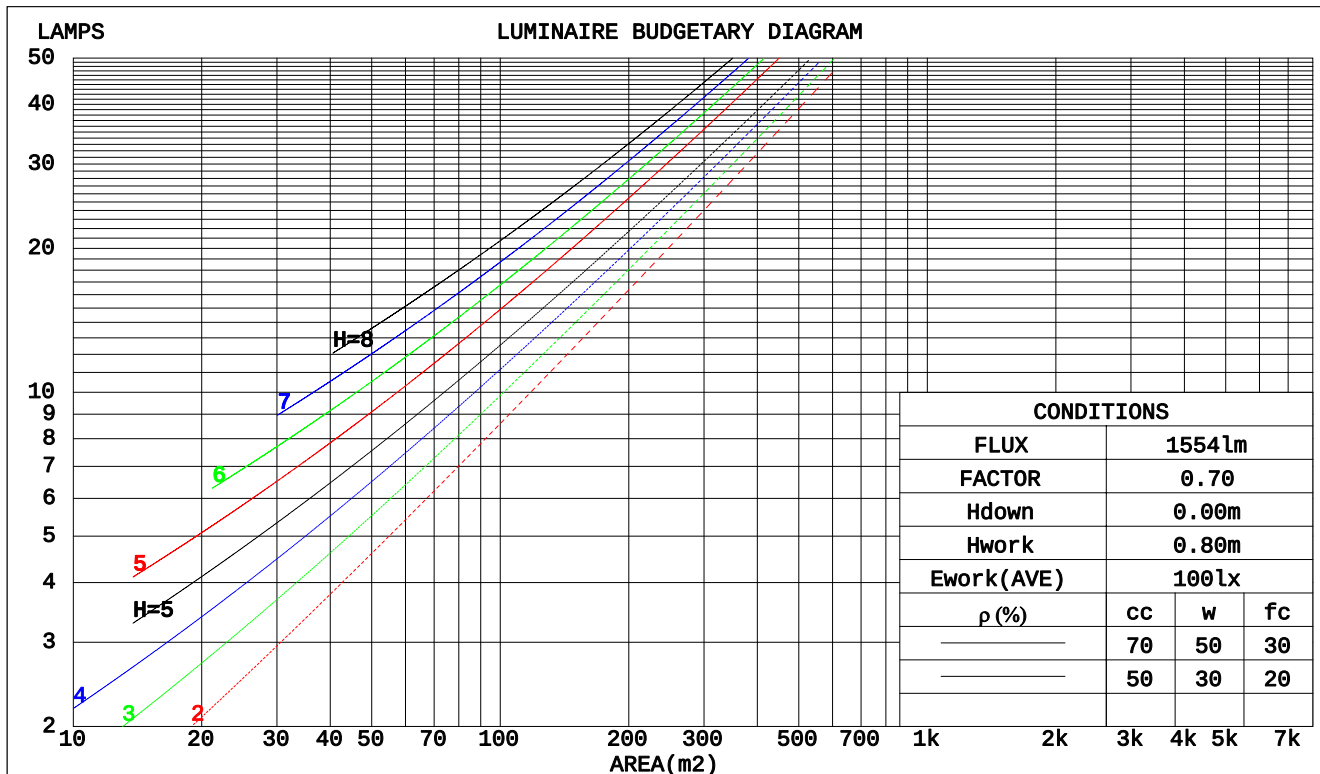
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.86	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.74	.69	.77	.72	.68	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.68	.60	.54	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.50
6.0	.62	.53	.48	.61	.53	.47	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.56	.48	.42	.56	.48	.42	.54	.47	.42	.53	.46	.42	.51	.46	.41	.40
8.0	.52	.44	.38	.51	.43	.38	.50	.43	.38	.49	.42	.38	.47	.42	.37	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.36	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.30



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm									
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:	
SPEC.: ASD-WHB5M-2D22040					DIM.:			SERIAL No.:	
MFR.: ASD Lighting Corp					SUR.:			Shielding Angle:	

ρ _{CC}	80%			70%			50%			30%			10%			0	
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ _{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.273	.155	.049	.266	.152	.048	.253	.145	.046	.240	.139	.045	.229	.133	.043		
2.0	.258	.141	.043	.252	.139	.043	.241	.134	.042	.230	.129	.040	.220	.125	.039		
3.0	.241	.128	.038	.236	.126	.038	.226	.122	.037	.217	.119	.036	.208	.115	.036		
4.0	.225	.117	.034	.220	.115	.034	.211	.112	.033	.203	.109	.033	.195	.106	.032		
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.030		
6.0	.197	.099	.028	.193	.097	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027		
7.0	.184	.091	.026	.181	.090	.026	.175	.088	.025	.169	.087	.025	.163	.085	.025		
8.0	.173	.085	.024	.170	.084	.024	.165	.082	.024	.160	.081	.023	.155	.079	.023		
9.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.151	.076	.022	.147	.074	.022		
10.0	.155	.074	.021	.152	.074	.021	.148	.072	.020	.143	.071	.020	.139	.070	.020		

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	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	.021	.021	.021	
1.0	.179	.157	.138	.153	.135	.119	.105	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.169	.133	.103	.144	.114	.089	.099	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.160	.115	.079	.137	.099	.069	.094	.069	.048	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.063	.130	.088	.055	.090	.061	.038	.052	.036	.023	.017	.012	.007	
5.0	.144	.091	.051	.124	.078	.044	.085	.055	.031	.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	.113	.065	.031	.078	.046	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.031	.107	.060	.027	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.027	.103	.056	.024	.071	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.114	.060	.024	.098	.052	.021	.068	.037	.015	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm											
NAME: ASD Lighting Corp					TYPE: LED			WEIGHT:			
SPEC.: ASD-WHB5M-2D22040					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	23.3	24.8	23.7	25.1	25.4	23.4	24.9	23.8	25.2	25.5	
	3H	24.7	26.0	25.1	26.4	26.7	24.6	25.9	25.0	26.2	26.6
	4H	25.3	26.6	25.7	26.9	27.3	25.0	26.3	25.5	26.6	27.0
	6H	25.9	27.1	26.3	27.4	27.8	25.5	26.6	25.9	27.0	27.4
	8H	26.1	27.2	26.6	27.6	28.0	25.7	26.8	26.1	27.2	27.6
	12H	26.3	27.4	26.7	27.7	28.2	25.8	26.8	26.2	27.2	27.7
4H	2H	23.7	25.0	24.1	25.3	25.7	23.8	25.1	24.2	25.4	25.8
	3H	25.3	26.3	25.7	26.7	27.1	25.2	26.2	25.6	26.6	27.0
	4H	26.1	27.0	26.5	27.4	27.8	25.9	26.8	26.3	27.2	27.6
	6H	26.8	27.6	27.2	28.0	28.5	26.5	27.3	27.0	27.7	28.2
	8H	27.1	27.8	27.5	28.3	28.7	26.7	27.5	27.2	27.9	28.4
	12H	27.3	28.0	27.8	28.5	28.9	26.9	27.6	27.4	28.0	28.5
8H	4H	26.3	27.1	26.8	27.5	28.0	26.2	27.0	26.7	27.4	27.9
	6H	27.2	27.8	27.7	28.3	28.8	27.1	27.7	27.6	28.2	28.7
	8H	27.6	28.1	28.1	28.6	29.1	27.4	28.0	27.9	28.5	29.0
	12H	27.9	28.4	28.4	28.9	29.5	27.7	28.2	28.2	28.7	29.2
12H	4H	26.3	27.0	26.8	27.5	28.0	26.3	26.9	26.8	27.4	27.9
	6H	27.2	27.8	27.8	28.3	28.8	27.2	27.7	27.7	28.2	28.7
	8H	27.7	28.2	28.2	28.7	29.2	27.6	28.1	28.1	28.6	29.1
CIE190: 2010											

CIE190: 2010
Area: 0.205965 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 05 June 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.6%
Test Distance: 2.500m [K=1.0462]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

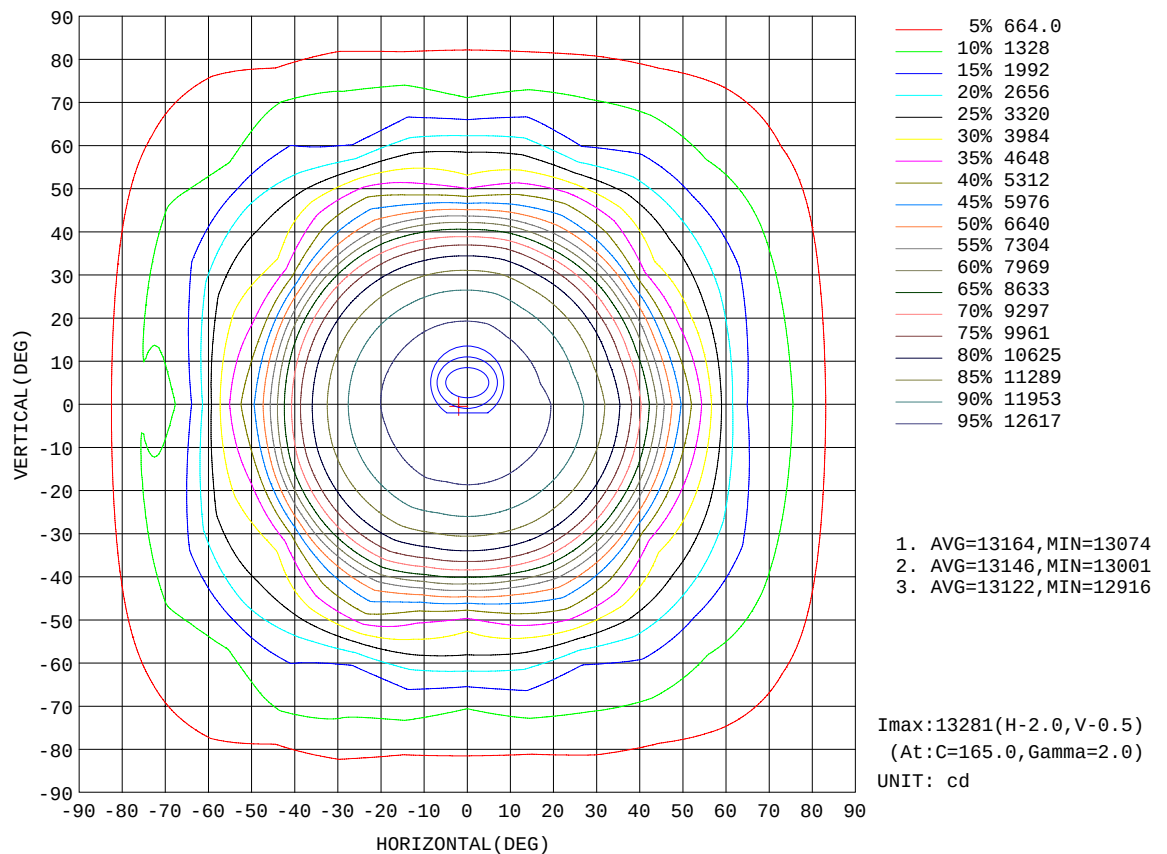
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	64	54	48	63	53	47	42
0.80	74	64	58	73	64	57	72	63	57	51
1.00	82	72	66	81	72	66	79	73	65	59
1.25	89	80	73	87	79	73	85	78	72	66
1.50	93	85	79	92	84	78	89	82	77	70
2.00	99	92	86	97	90	85	94	88	84	77
2.50	102	95	90	100	94	89	97	91	87	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	103	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: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

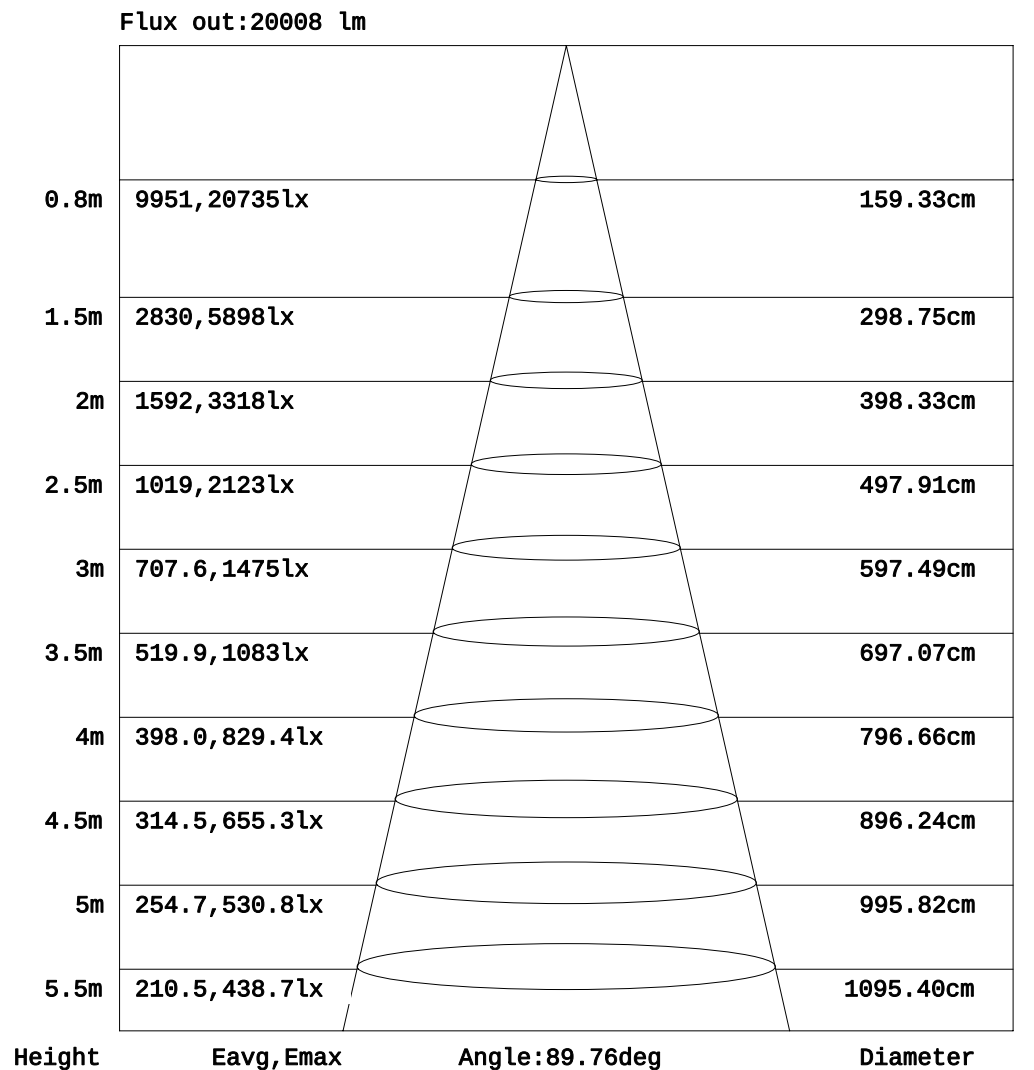


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 05 June 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.6%
Test Distance: 2.500m [K=1.0462]
Remarks:

AAI Figure

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



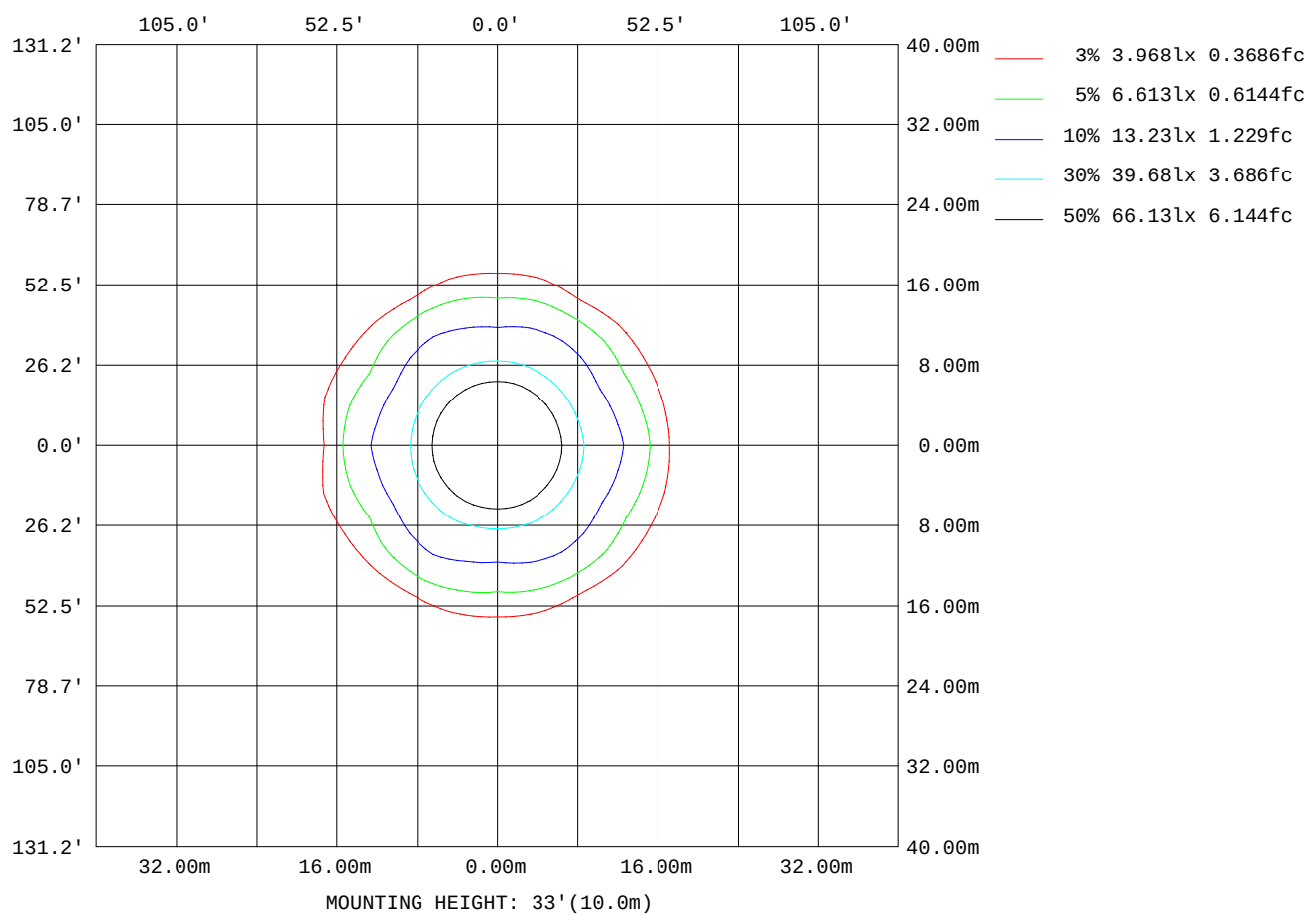
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	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: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.50m [K=1.0462]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

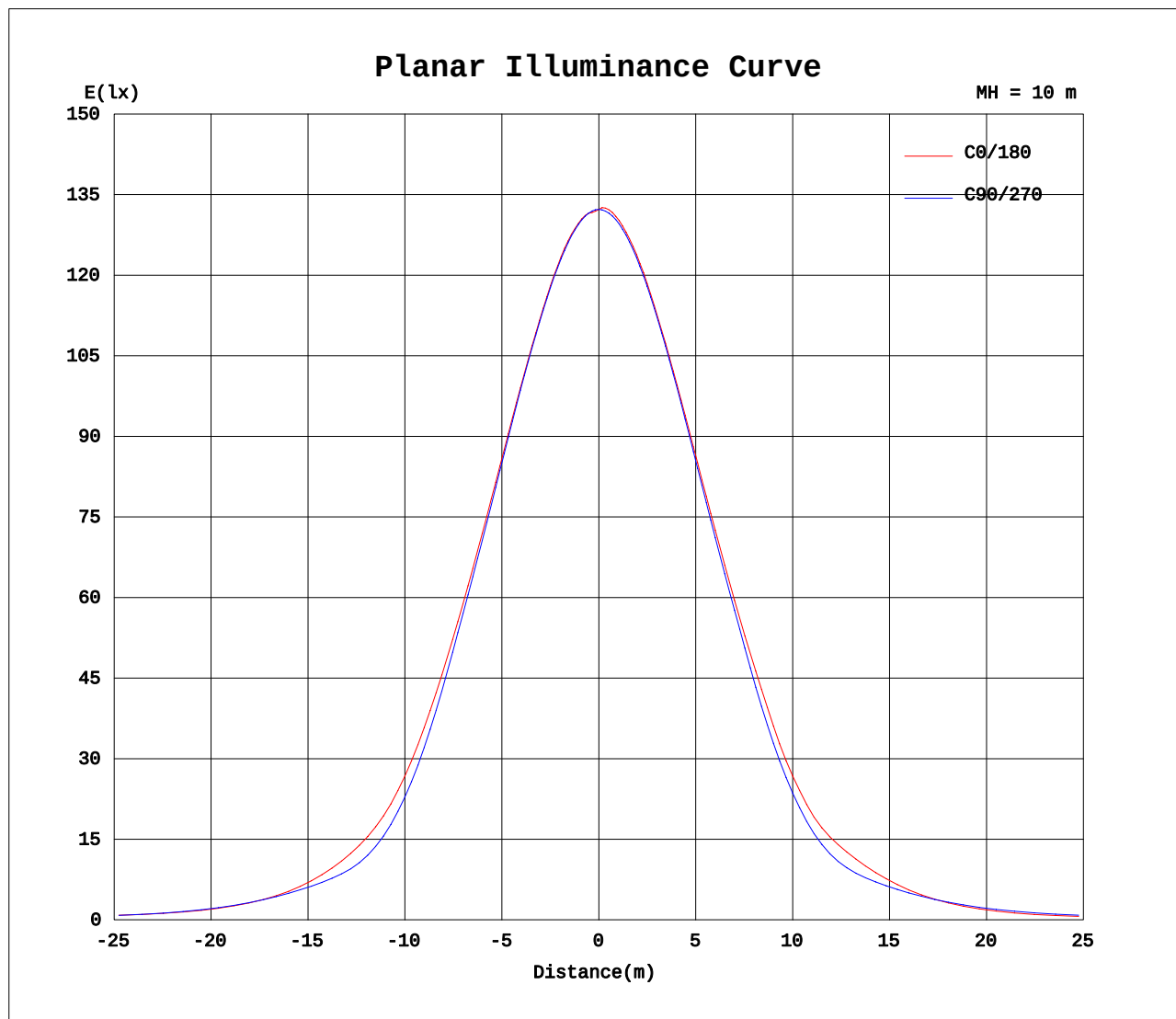
AvgL	cd/m2
L_0~180(65)av	21218
L_0~180(75)av	25089
L_0~180(85)av	25658
L_90~270(65)av	24276
L_90~270(75)av	19892
L_90~270(85)av	21564
L_45(65)av	25796
L_45(75)av	24911
L_45(85)av	23828

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
Humidity: 47.6%
Test Distance: 2.500m [K=1.0462]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm																		
NAME: ASD Lighting Corp									TYPE: LED					WEIGHT:				
SPEC.: ASD-WHB5M-2D22040									DIM.:					SERIAL No.:				
MFR.: ASD Lighting Corp									SUR.:					Shielding Angle:				

Table--1

UNIT: ×10cd

C(°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
γ (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323	1323
5	1320	1323	1323	1321	1319	1318	1318	1317	1318	1317	1317	1320	1325	1324	1323	1321	1320	1319	1319
10	1309	1311	1309	1307	1306	1305	1305	1304	1307	1306	1306	1307	1313	1311	1310	1309	1308	1307	1307
15	1287	1288	1287	1284	1283	1283	1283	1282	1286	1286	1286	1287	1292	1291	1290	1289	1288	1287	1287
20	1257	1258	1256	1253	1253	1253	1253	1252	1258	1257	1257	1259	1262	1262	1260	1258	1258	1258	1257
25	1217	1216	1213	1209	1208	1207	1207	1207	1216	1216	1219	1221	1223	1222	1219	1216	1214	1213	1213
30	1157	1155	1150	1146	1144	1140	1139	1141	1156	1158	1162	1165	1165	1163	1159	1154	1150	1149	1146
35	1071	1066	1057	1051	1050	1041	1038	1042	1069	1074	1079	1085	1082	1077	1070	1064	1059	1053	1048
40	940	927	908	903	902	877	868	882	935	942	950	961	955	944	928	921	917	900	885
45	757	727	691	702	713	672	647	671	740	731	731	760	757	731	704	711	724	694	668
50	586	537	488	545	572	520	454	502	595	563	498	539	583	524	483	552	584	517	465
55	447	413	381	429	432	403	372	406	464	447	373	420	467	423	372	435	444	411	375
60	303	317	312	316	284	306	301	311	301	323	333	358	309	352	329	315	282	315	306
65	198	237	225	227	182	226	208	223	179	231	257	267	172	254	244	228	173	227	215
70	157	182	159	169	146	168	139	169	137	184	161	185	121	178	152	182	139	173	144
75	136	128	115	125	125	118	105	124	133	148	103	140	132	138	101	140	132	129	107
80	97.5	84.6	86.4	80.6	86.3	77.0	78.1	81.1	100	87.4	94.2	99.0	101	93.3	92.0	79.7	92.9	84.0	82.7
85	48.8	44.0	40.6	42.5	43.7	37.4	35.4	36.0	51.9	47.0	50.2	44.4	43.3	39.7	42.6	43.8	48.8	42.6	42.0
90	0.25	1.18	4.56	0.96	0.72	0.49	0.40	2.11	3.26	3.52	6.07	6.57	7.49	5.89	5.48	5.30	5.31	4.26	4.15
95	0.12	0.18	0.16	0.19	0.17	0.16	0.16	0.16	0.18	0.21	0.21	0.30	0.27	0.37	0.25	0.26	0.26	0.23	0.22
100	0.28	0.22	0.23	0.17	0.13	0.12	0.12	0.12	0.13	0.17	0.21	0.15	0.33	0.31	0.35	0.27	0.23	0.21	0.21
105	0.30	0.27	0.29	0.23	0.20	0.16	0.15	0.17	0.18	0.22	0.26	0.23	0.42	0.40	0.42	0.37	0.29	0.27	0.27
110	0.31	0.29	0.27	0.26	0.23	0.21	0.20	0.22	0.22	0.24	0.26	0.25	0.44	0.41	0.37	0.35	0.32	0.30	0.32
115	0.36	0.32	0.31	0.29	0.27	0.25	0.26	0.27	0.27	0.29	0.29	0.27	0.42	0.41	0.40	0.39	0.37	0.35	0.37
120	0.41	0.37	0.36	0.34	0.32	0.31	0.33	0.33	0.33	0.34	0.34	0.33	0.49	0.48	0.49	0.46	0.44	0.44	0.46
125	0.43	0.41	0.41	0.40	0.40	0.38	0.41	0.41	0.40	0.41	0.41	0.39	0.58	0.58	0.59	0.60	0.57	0.57	0.58
130	0.51	0.47	0.48	0.46	0.48	0.45	0.48	0.48	0.48	0.49	0.49	0.45	0.70	0.70	0.71	0.75	0.74	0.73	0.75
135	0.58	0.56	0.55	0.53	0.56	0.55	0.58	0.57	0.56	0.56	0.56	0.52	0.77	0.80	0.83	0.86	0.89	0.90	0.92
140	0.64	0.63	0.63	0.61	0.63	0.64	0.65	0.65	0.64	0.63	0.62	0.62	0.87	0.88	0.91	0.94	0.98	1.01	1.02
145	0.70	0.70	0.69	0.67	0.70	0.72	0.72	0.73	0.72	0.69	0.68	0.68	0.97	0.97	1.00	1.04	1.07	1.09	1.09
150	0.78	0.79	0.76	0.74	0.74	0.77	0.78	0.80	0.77	0.77	0.73	0.73	1.05	1.06	1.06	1.14	1.14	1.17	1.16
155	0.85	0.87	0.87	0.82	0.84	0.85	0.84	0.85	0.87	0.88	0.88	0.83	1.16	1.15	1.18	1.17	1.22	1.22	1.20
160	0.94	0.95	0.94	0.91	0.89	0.94	0.92	0.96	0.95	0.96	0.96	0.92	1.27	1.25	1.25	1.29	1.27	1.28	1.31
165	1.02	1.04	1.03	1.02	0.99	1.00	1.00	1.04	1.01	1.05	1.04	1.00	1.25	1.26	1.28	1.33	1.35	1.34	1.35
170	1.10	1.11	1.10	1.08	1.05	1.06	1.06	1.09	1.09	1.07	1.06	1.07	1.29	1.29	1.30	1.30	1.33	1.35	1.34
175	1.23	1.24	1.23	1.19	1.13	1.11	1.09	1.11	1.11	1.12	1.12	1.14	1.31	1.32	1.33	1.34	1.32	1.31	1.31
180	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.25	1.25	1.25	1.25	1.25	1.25	1.25

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:1.8288A P:219.06W PF:0.9982 Freq:60.00Hz Lamp Flux:30360x1 lm		
NAME: ASD Lighting Corp	TYPE: LED	WEIGHT:
SPEC.: ASD-WHB5M-2D22040	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: ×10cd

C(°) γ (°)	285	300	315	330	345													
0	1323	1323	1323	1323	1323													
5	1317	1315	1314	1314	1314													
10	1305	1301	1299	1300	1300													
15	1285	1280	1278	1277	1277													
20	1256	1248	1245	1245	1245													
25	1211	1201	1199	1199	1201													
30	1146	1134	1132	1133	1136													
35	1050	1035	1033	1034	1041													
40	890	875	871	872	892													
45	680	682	662	644	685													
50	522	546	518	453	506													
55	403	405	404	364	392													
60	310	262	297	294	299													
65	230	174	213	211	224													
70	169	144	160	151	172													
75	120	122	118	110	120													
80	80.2	81.7	76.7	82.6	77.5													
85	43.4	40.2	37.7	35.0	37.4													
90	4.31	0.41	0.36	0.33	0.29													
95	0.21	0.19	0.21	0.19	0.18													
100	0.22	0.25	0.28	0.42	0.31													
105	0.28	0.31	0.37	0.34	0.34													
110	0.32	0.35	0.37	0.36	0.36													
115	0.37	0.40	0.42	0.42	0.41													
120	0.45	0.48	0.49	0.51	0.49													
125	0.57	0.60	0.61	0.60	0.57													
130	0.72	0.77	0.74	0.72	0.68													
135	0.88	0.88	0.84	0.82	0.79													
140	0.98	0.96	0.93	0.92	0.88													
145	1.06	1.06	1.03	0.99	0.98													
150	1.16	1.14	1.12	1.07	1.06													
155	1.21	1.25	1.16	1.20	1.14													
160	1.29	1.28	1.27	1.28	1.23													
165	1.34	1.36	1.33	1.33	1.27													
170	1.35	1.34	1.30	1.31	1.27													
175	1.29	1.29	1.30	1.33	1.29													
180	1.25	1.25	1.25	1.25	1.25													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 05 June 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.442T2
 Humidity: 47.6%
 Test Distance: 2.500m [K=1.0462]
 Remarks: