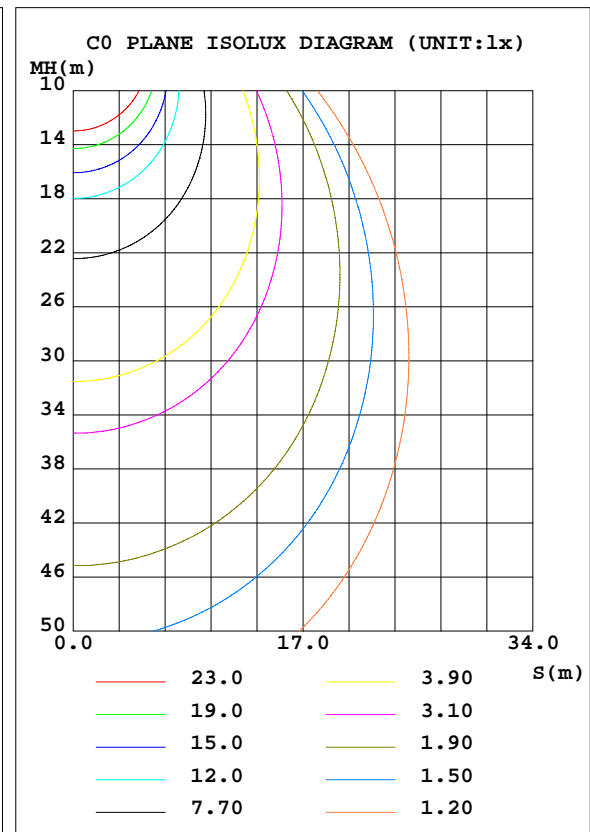
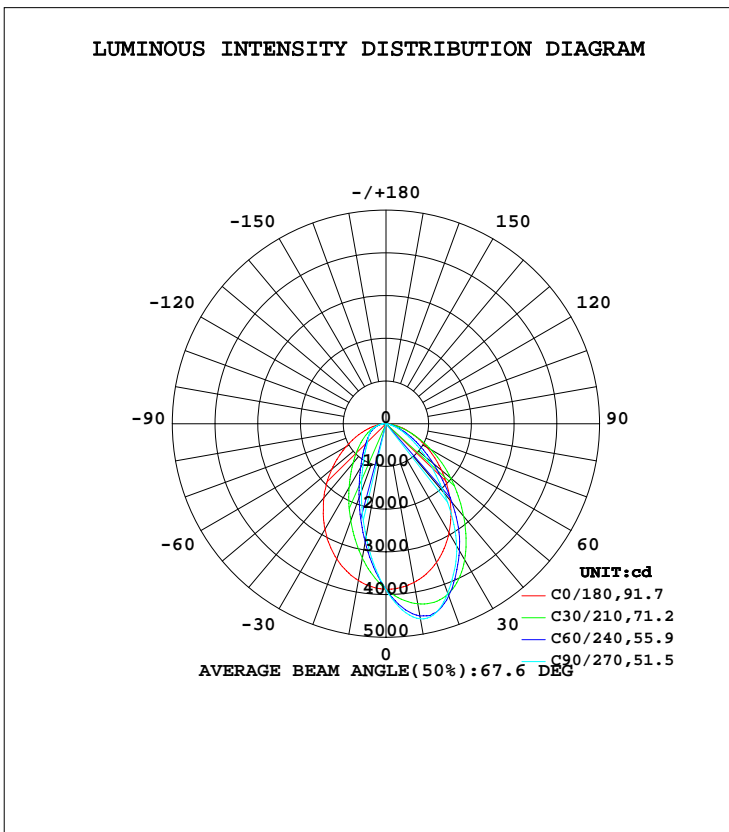


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.10 lm/W			
MODEL	ASD-WLP02-50DAC-BK	I _{max} (cd)	4652	S/MH(C0/180)	1.12
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	0.54
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	7047.4	η UP, DN(C0-180)	0.0,64.4
NOMINAL FLUX(lm)	7047.41	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1,35.5
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3773	4454	4638	4434	3727	2973	2689	3012	0- 10	362.7	362.7	5.15,5.15
20	3457	4332	4222	4308	3370	2081	1684	2137	10- 20	979.1	1342	19,19
30	2951	3567	3310	3565	2854	1391	1064	1439	20- 30	1318	2660	37.7,37.7
40	2337	2665	2115	2688	2264	941.4	718.1	975.9	30- 40	1364	4024	57.1,57.1
50	1700	1735	1232	1791	1654	654.6	550.2	676.8	40- 50	1180	5204	73.8,73.8
60	1110	969.1	620.6	1023	1083	452.4	446.1	462.7	50- 60	894.4	6098	86.5,86.5
70	611.2	442.4	258.3	474.0	601.0	298.2	317.1	300.5	60- 70	581.2	6680	94.8,94.8
80	229.1	91.27	36.52	104.5	235.2	152.0	162.6	151.9	70- 80	288.3	6968	98.9,98.9
90	7.195	0.1707	0.1611	0.1729	3.765	23.02	30.29	21.50	80- 90	69.91	7038	99.9,99.9
100	0.3533	0.2311	0.2137	0.2443	0.7298	0.6328	0.4296	0.6807	90-100	1.976	7040	99.9,99.9
110	0.4952	0.3017	0.2740	0.3530	0.9497	0.9205	0.6660	0.9831	100-110	0.5678	7040	99.9,99.9
120	0.7495	0.4193	0.3740	0.5418	1.243	1.390	1.134	1.413	110-120	0.7395	7041	99.9,99.9
130	1.111	0.6549	0.5364	0.8325	1.865	2.298	2.132	2.232	120-130	1.044	7042	99.9,99.9
140	1.495	1.057	0.8685	1.252	2.343	3.094	3.217	2.987	130-140	1.358	7044	99.9,99.9
150	1.836	1.652	1.411	1.715	2.855	3.518	3.991	3.503	140-150	1.445	7045	100,100
160	2.360	2.322	2.024	2.270	3.383	3.646	4.063	3.718	150-160	1.281	7046	100,100
170	2.703	2.853	2.575	2.569	3.572	3.439	3.429	3.266	160-170	0.8662	7047	100,100
180	3.392	3.253	2.941	2.809	3.383	3.318	3.004	2.841	170-180	0.2883	7047	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4645.5 lm

%lum = 65.9%

%lamp = 65.9%

Conical surface Flux(120deg): 6098.4 lm

%lum = 86.5%

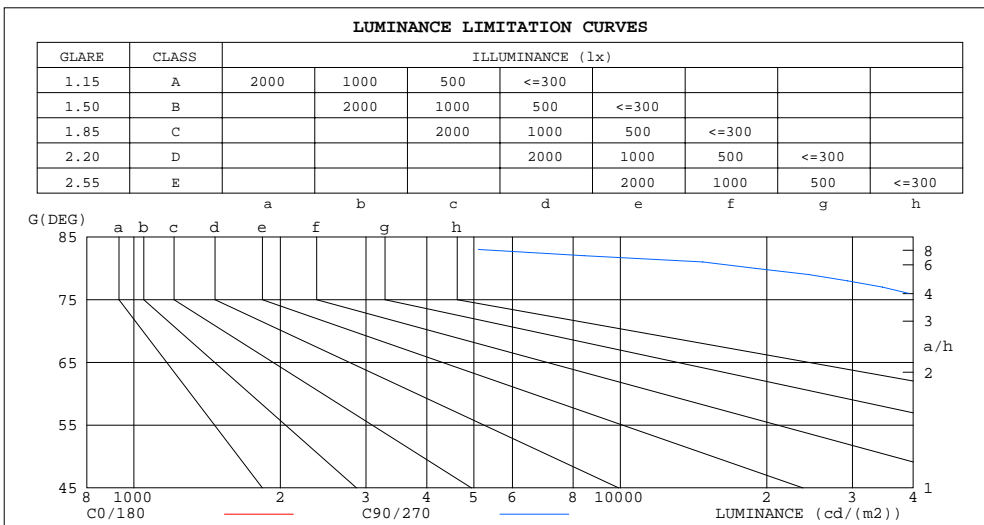
%lamp = 86.5%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	91630	166
80	118862	18948
75	140655	43150
70	160990	68038
65	180631	89266
60	199929	111828
55	219193	139239
50	238217	172656
45	256880	204558

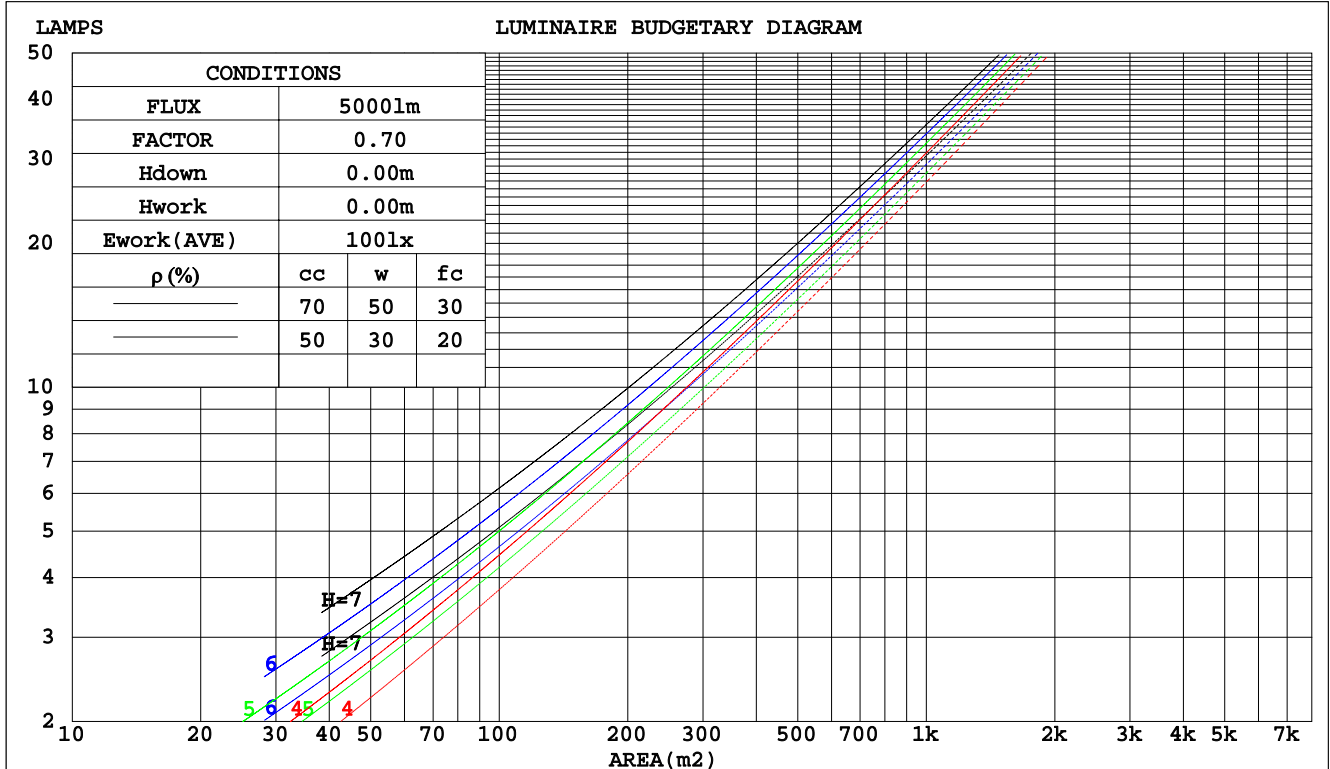
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	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																
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	1.01	.98	.90	.97	.94	.96	.94	.92	.92	.90	.89	.87
2.0	.94	.88	.83	.93	.87	.82	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.70	.77	.72	.68	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.48	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.39	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

WEC AND CCEC

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	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	.265	.151	.048	.258	.147	.047	.245	.141	.045	.233	.134	.043	.222	.129	.041	
2.0	.253	.139	.043	.247	.136	.042	.236	.131	.041	.225	.126	.040	.215	.122	.038	
3.0	.237	.126	.038	.232	.124	.037	.222	.120	.037	.213	.117	.036	.204	.113	.035	
4.0	.222	.115	.034	.217	.114	.034	.208	.110	.033	.200	.107	.032	.192	.104	.032	
5.0	.207	.105	.031	.203	.104	.030	.195	.102	.030	.188	.099	.029	.181	.097	.029	
6.0	.194	.097	.028	.190	.096	.028	.183	.094	.027	.176	.092	.027	.170	.090	.027	
7.0	.182	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.084	.025	
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.161	.078	.022	.158	.077	.022	.153	.076	.021	.149	.074	.021	.144	.073	.021	
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.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	.178	.158	.139	.153	.135	.120	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.168	.133	.104	.144	.115	.090	.099	.079	.063	.057	.046	.037	.018	.015	.012	
3.0	.159	.115	.080	.137	.099	.069	.094	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.151	.101	.063	.130	.088	.055	.089	.061	.039	.052	.036	.023	.017	.012	.008	
5.0	.144	.091	.052	.123	.078	.045	.085	.055	.032	.049	.032	.019	.016	.011	.006	
6.0	.137	.082	.043	.117	.071	.038	.081	.050	.027	.047	.029	.016	.015	.010	.005	
7.0	.130	.075	.037	.112	.065	.032	.077	.046	.023	.045	.027	.013	.014	.009	.004	
8.0	.124	.069	.032	.107	.060	.028	.074	.042	.020	.043	.025	.012	.014	.008	.004	
9.0	.118	.064	.028	.102	.056	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.113	.060	.025	.097	.052	.022	.067	.037	.015	.039	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm										
NAME: ASD-WLP02A-50DAC-BK_4000K					TYPE: LED			WEIGHT:		
SPEC.:					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	32.5	34.0	32.8	34.3	34.6	28.2	29.7	28.6	30.0	30.4
3H	33.8	35.1	34.2	35.5	35.8	29.0	30.3	29.4	30.6	31.0
4H	34.2	35.5	34.6	35.8	36.2	29.1	30.3	29.5	30.7	31.1
6H	34.5	35.6	34.9	36.0	36.4	29.1	30.3	29.5	30.6	31.0
8H	34.6	35.6	35.0	36.0	36.4	29.1	30.2	29.5	30.6	31.0
12H	34.6	35.6	35.0	36.0	36.4	29.0	30.1	29.5	30.5	30.9
4H 2H	32.6	33.8	33.0	34.2	34.6	29.2	30.4	29.6	30.8	31.1
3H	34.1	35.2	34.5	35.6	36.0	30.0	31.1	30.4	31.5	31.9
4H	34.7	35.6	35.1	36.0	36.5	30.2	31.1	30.6	31.5	32.0
6H	35.1	35.9	35.5	36.3	36.8	30.2	31.0	30.7	31.5	31.9
8H	35.2	35.9	35.7	36.4	36.9	30.2	30.9	30.6	31.4	31.8
12H	35.2	35.9	35.7	36.4	36.9	30.1	30.8	30.6	31.3	31.8
8H 4H	34.7	35.4	35.1	35.9	36.3	30.6	31.3	31.0	31.8	32.2
6H	35.1	35.7	35.6	36.2	36.7	30.6	31.2	31.1	31.7	32.2
8H	35.2	35.8	35.8	36.3	36.8	30.5	31.1	31.1	31.6	32.1
12H	35.3	35.8	35.8	36.3	36.9	30.5	31.0	31.0	31.5	32.1
12H 4H	34.6	35.3	35.1	35.8	36.3	30.6	31.3	31.1	31.8	32.2
6H	35.1	35.6	35.6	36.1	36.6	30.6	31.2	31.2	31.7	32.2
8H	35.2	35.7	35.7	36.2	36.8	30.6	31.1	31.1	31.6	32.2
CIE190: 2010										

CIE190: 2010
Area: 0.0111 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.0DEG
Operators: Alan Wang
Test Date: 24 March 2022

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=1.0477]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

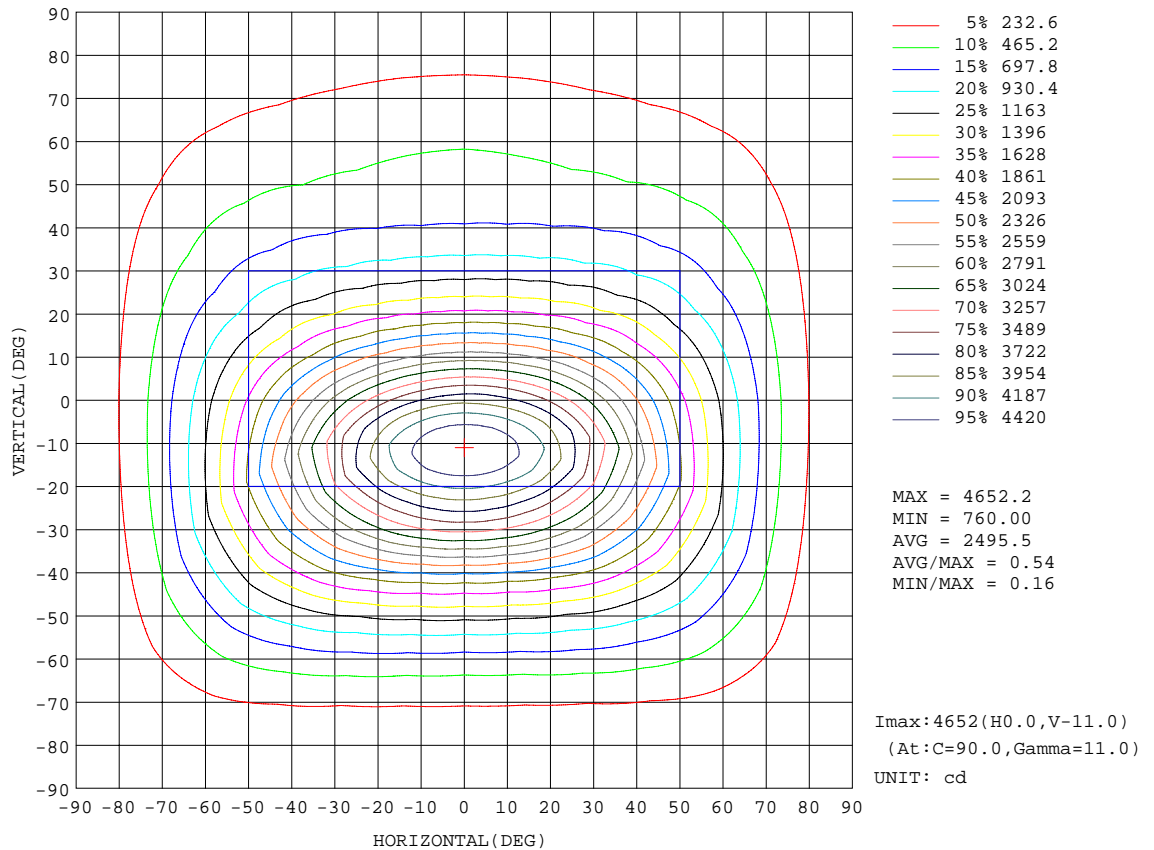
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	48	64	54	48	63	54	48	42
0.80	75	64	58	74	64	58	72	63	57	51
1.00	82	73	66	81	72	66	79	73	66	59
1.25	89	80	74	87	79	73	85	78	73	66
1.50	93	85	79	92	84	78	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	94	99	95	91	84
4.00	109	104	100	106	102	98	102	99	96	87
5.00	111	106	103	108	105	101	104	101	98	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: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:



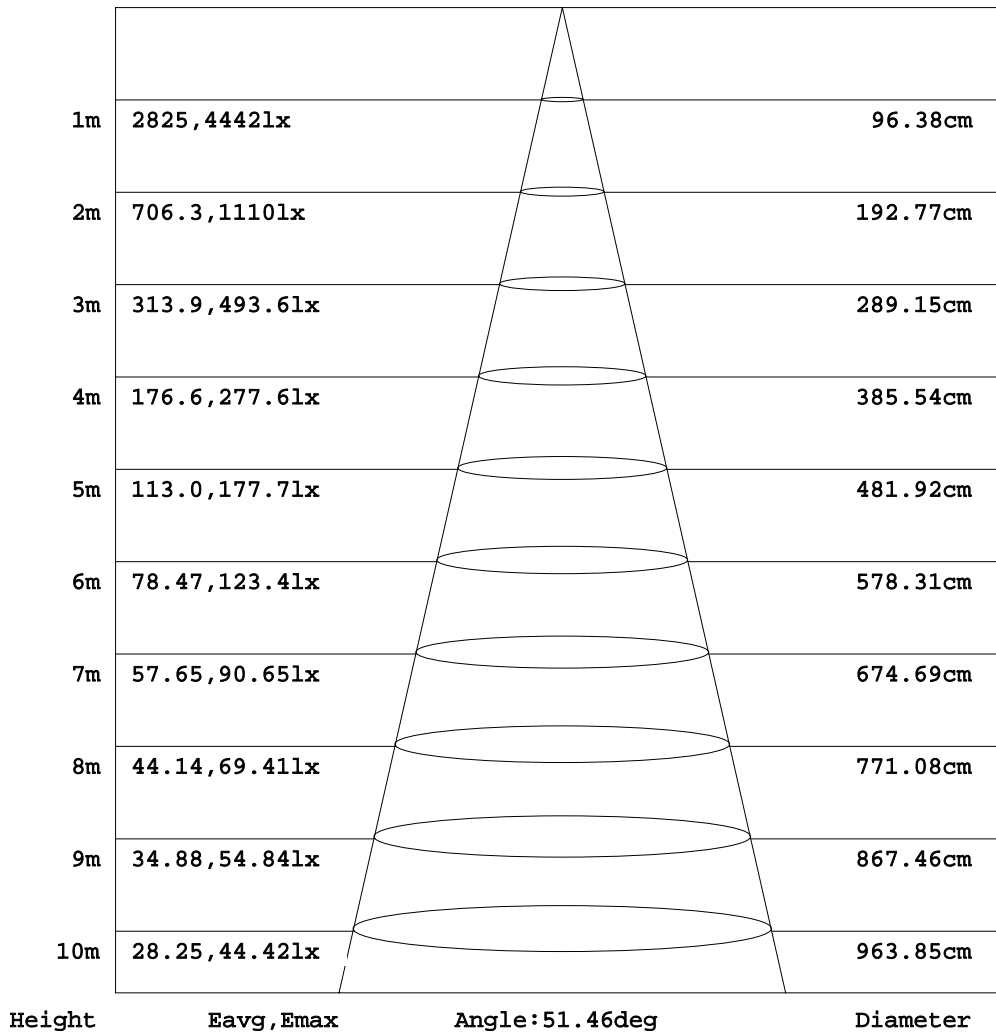
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

AAI Figure

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

Flux out:2111 lm



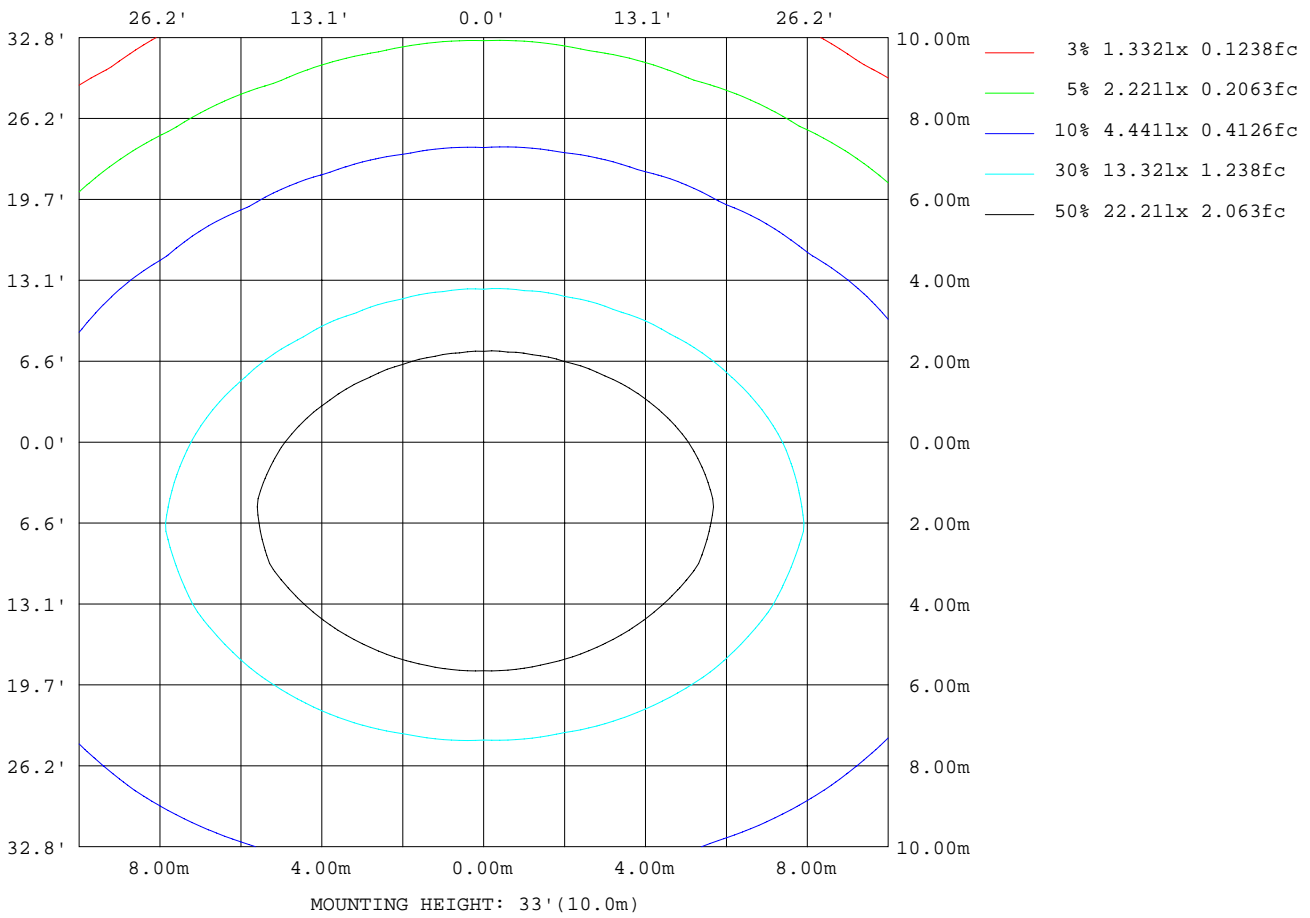
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators:Alan Wang
 Test Date:24 March 2022

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=1.0477]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	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: 24 March 2022

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=1.0477]
 Remarks:

LED Avg.L Report

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

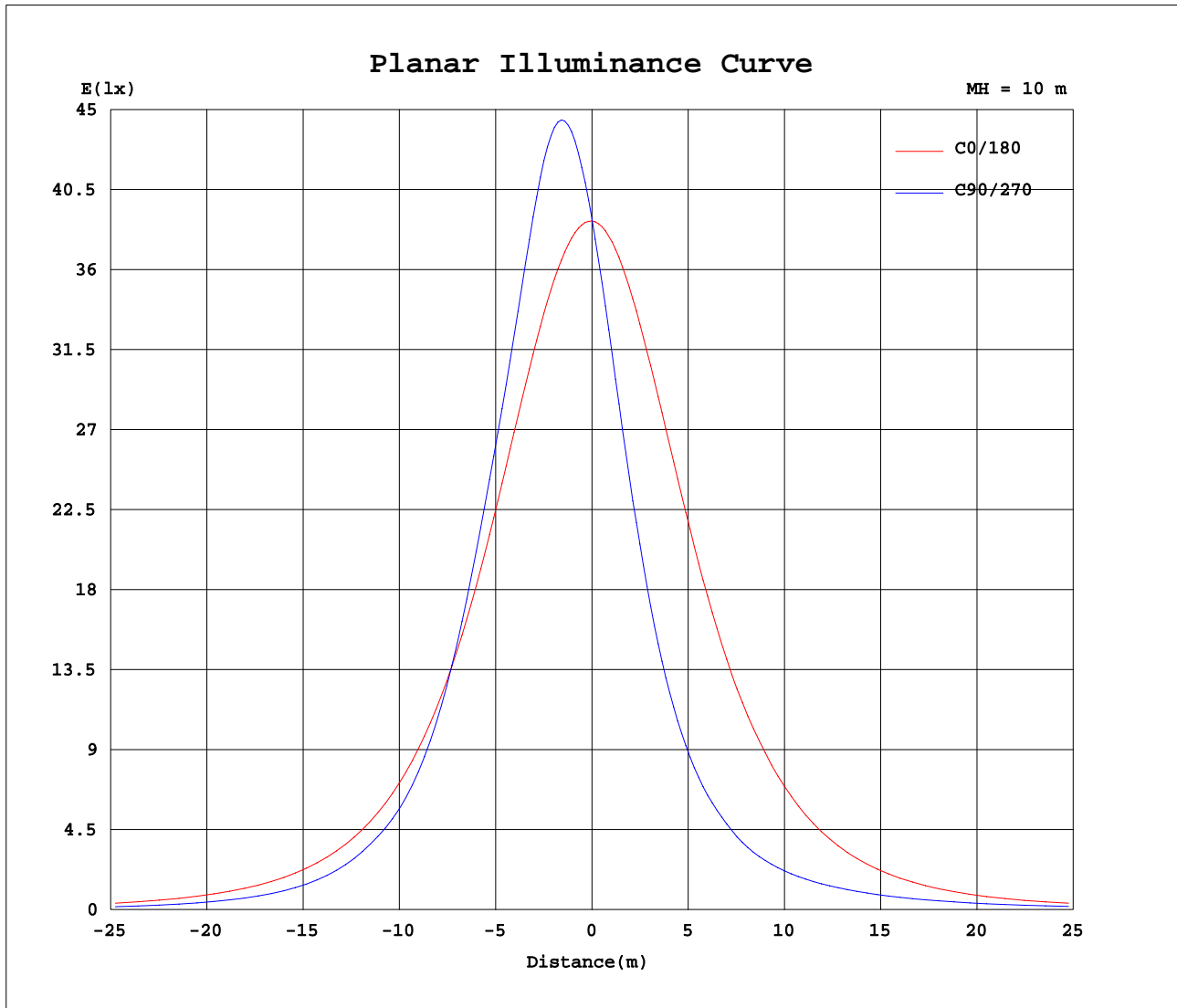
AvgL	cd/m2
L_0~180(65)av	178539
L_0~180(75)av	140374
L_0~180(85)av	95926
L_90~270(65)av	85756
L_90~270(75)av	63316
L_90~270(85)av	46422
L_45(65)av	114535
L_45(75)av	83728
L_45(85)av	48051

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	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	3874	3876	3878	3879	3880	3887	3886	3886	3884	3886	3885	3882	3874	3876	3878	3879	3880	3887	3886
5	3852	3990	4122	4227	4306	4355	4373	4355	4302	4220	4113	3979	3831	3690	3560	3449	3363	3318	3300
10	3773	4043	4278	4454	4569	4620	4638	4618	4556	4434	4250	4005	3727	3450	3192	2973	2810	2717	2689
15	3642	4025	4329	4498	4565	4565	4571	4570	4550	4472	4268	3969	3570	3170	2799	2503	2298	2181	2147
20	3457	3931	4242	4332	4291	4242	4222	4244	4295	4308	4195	3856	3370	2863	2412	2081	1849	1721	1684
25	3222	3755	4023	3994	3881	3808	3787	3811	3884	3985	3980	3678	3128	2545	2060	1703	1480	1365	1331
30	2951	3502	3683	3567	3441	3345	3310	3354	3444	3565	3665	3435	2854	2236	1729	1391	1193	1092	1064
35	2652	3188	3269	3121	2956	2780	2719	2800	2974	3127	3276	3139	2562	1931	1441	1141	974	901	877
40	2337	2837	2827	2665	2406	2186	2115	2212	2445	2688	2852	2803	2264	1644	1199	941	810	735	718
45	2016	2456	2394	2189	1881	1666	1606	1690	1925	2234	2428	2453	1963	1378	994	788	670	626	617
50	1700	2071	1982	1735	1451	1280	1232	1297	1490	1791	2023	2079	1654	1138	824	655	570	552	550
55	1396	1691	1593	1327	1071	929	886	947	1099	1387	1640	1714	1361	926	679	543	494	494	497
60	1110	1330	1219	969	772	654	621	669	800	1023	1272	1361	1083	738	554	452	429	440	446
65	847	1002	889	678	528	439	419	449	551	720	939	1028	828	573	444	373	365	380	386
70	611	708	604	442	328	272	258	279	347	474	646	729	601	427	343	298	298	312	317
75	404	453	367	245	166	132	124	137	178	268	396	470	402	299	250	224	225	236	240
80	229	240	167	91.3	53.5	39.4	36.5	41.7	58.8	104	189	252	235	186	165	152	153	160	163
85	88.6	66.0	20.4	8.53	0.53	0.31	0.16	0.25	5.15	12.1	29.0	77.7	97.0	89.4	86.4	83.2	84.9	88.5	89.7
90	7.19	1.32	0.22	0.17	0.16	0.16	0.16	0.16	0.17	0.17	0.30	1.41	3.77	10.8	19.5	23.0	26.0	29.7	30.3
95	0.29	0.26	0.22	0.20	0.19	0.19	0.19	0.19	0.20	0.23	0.25	0.58	0.62	0.57	0.60	0.77	1.19	1.32	
100	0.35	0.31	0.26	0.23	0.22	0.21	0.21	0.22	0.23	0.24	0.28	0.31	0.73	0.79	0.74	0.63	0.52	0.45	0.43
105	0.42	0.36	0.30	0.26	0.25	0.24	0.25	0.25	0.27	0.29	0.34	0.39	0.86	0.93	0.90	0.80	0.67	0.58	0.56
110	0.50	0.43	0.34	0.30	0.28	0.27	0.27	0.29	0.31	0.35	0.42	0.48	0.95	1.02	1.01	0.92	0.80	0.70	0.67
115	0.60	0.51	0.40	0.35	0.32	0.31	0.32	0.34	0.37	0.44	0.53	0.61	1.06	1.13	1.16	1.10	0.98	0.87	0.84
120	0.75	0.64	0.50	0.42	0.39	0.37	0.37	0.40	0.45	0.54	0.66	0.76	1.24	1.35	1.41	1.39	1.28	1.16	1.13
125	0.93	0.78	0.62	0.52	0.46	0.44	0.44	0.47	0.55	0.67	0.82	0.93	1.54	1.68	1.77	1.81	1.71	1.60	1.57
130	1.11	0.96	0.78	0.65	0.59	0.54	0.54	0.58	0.68	0.83	0.99	1.12	1.86	2.03	2.19	2.30	2.26	2.18	2.13
135	1.31	1.17	0.99	0.83	0.76	0.68	0.69	0.75	0.86	1.03	1.21	1.32	2.15	2.34	2.54	2.72	2.75	2.75	2.72
140	1.50	1.40	1.24	1.06	0.95	0.87	0.87	0.93	1.06	1.25	1.39	1.53	2.34	2.58	2.80	3.09	3.18	3.24	3.22
145	1.69	1.64	1.50	1.34	1.22	1.14	1.12	1.19	1.32	1.49	1.58	1.68	2.64	2.81	3.04	3.37	3.57	3.69	3.69
150	1.84	1.89	1.80	1.65	1.53	1.44	1.41	1.49	1.59	1.72	1.75	1.78	2.85	2.96	3.14	3.52	3.80	4.01	3.99
155	2.07	2.20	2.16	2.02	1.91	1.82	1.77	1.87	1.96	2.02	2.05	1.96	3.09	3.07	3.34	3.56	3.88	4.13	4.08
160	2.36	2.47	2.44	2.32	2.20	2.13	2.02	2.20	2.24	2.27	2.24	2.15	3.38	3.35	3.40	3.65	3.80	4.04	4.06
165	2.54	2.70	2.74	2.69	2.58	2.48	2.40	2.53	2.58	2.57	2.47	2.34	3.48	3.47	3.45	3.58	3.73	3.81	3.89
170	2.70	2.85	2.89	2.85	2.73	2.65	2.57	2.68	2.67	2.57	2.48	2.42	3.57	3.56	3.49	3.44	3.43	3.48	3.43
175	2.98	3.08	3.08	3.03	2.90	2.81	2.72	2.75	2.76	2.72	2.66	2.66	3.50	3.50	3.46	3.37	3.26	3.22	3.13
180	3.39	3.46	3.34	3.25	3.12	3.01	2.94	2.77	2.79	2.81	2.83	2.93	3.38	3.38	3.42	3.32	3.23	3.09	3.00

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.4297A P:51.030W PF:0.9896 Freq:60.00Hz Lamp Flux:7047.4lx1 lm		
NAME: ASD-WLP02A-50DAC-BK_4000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	3886	3884	3886	3885	3882														
5	3322	3382	3471	3590	3725														
10	2730	2839	3012	3240	3506														
15	2196	2329	2554	2869	3249														
20	1736	1882	2137	2493	2963														
25	1377	1511	1757	2143	2654														
30	1103	1219	1439	1810	2335														
35	910	995	1180	1513	2039														
40	744	829	976	1257	1738														
45	630	683	811	1045	1459														
50	553	578	677	860	1205														
55	493	497	560	706	978														
60	438	429	463	573	777														
65	377	363	379	455	598														
70	309	296	301	350	444														
75	234	223	225	253	307														
80	158	151	152	164	188														
85	87.2	83.2	82.0	84.1	86.8														
90	28.9	24.8	21.5	17.4	7.73														
95	1.13	0.71	0.59	0.61	0.63														
100	0.46	0.55	0.68	0.79	0.80														
105	0.60	0.71	0.85	0.96	0.95														
110	0.72	0.83	0.98	1.08	1.04														
115	0.89	1.01	1.15	1.22	1.16														
120	1.18	1.29	1.41	1.46	1.37														
125	1.59	1.68	1.79	1.78	1.66														
130	2.15	2.21	2.23	2.15	2.01														
135	2.71	2.71	2.63	2.49	2.29														
140	3.16	3.06	2.99	2.76	2.50														
145	3.58	3.49	3.27	2.98	2.76														
150	3.86	3.71	3.50	3.13	2.95														
155	4.01	3.83	3.59	3.41	3.21														
160	3.99	3.91	3.72	3.54	3.40														
165	3.77	3.78	3.67	3.51	3.41														
170	3.46	3.45	3.27	3.26	3.27														
175	3.05	3.11	2.97	3.07	3.10														
180	2.96	2.79	2.84	2.83	2.85														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.0DEG
 Operators: Alan Wang
 Test Date: 24 March 2022

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=1.0477]
 Remarks: