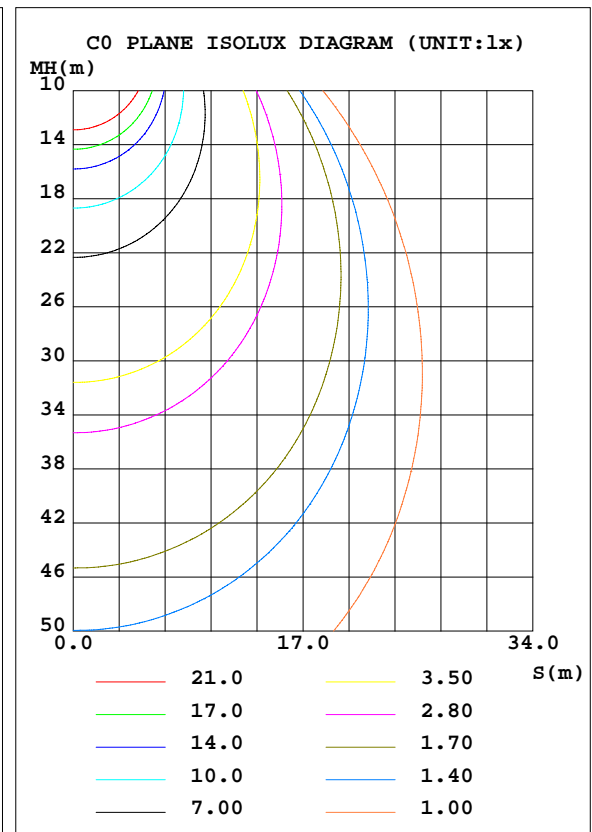
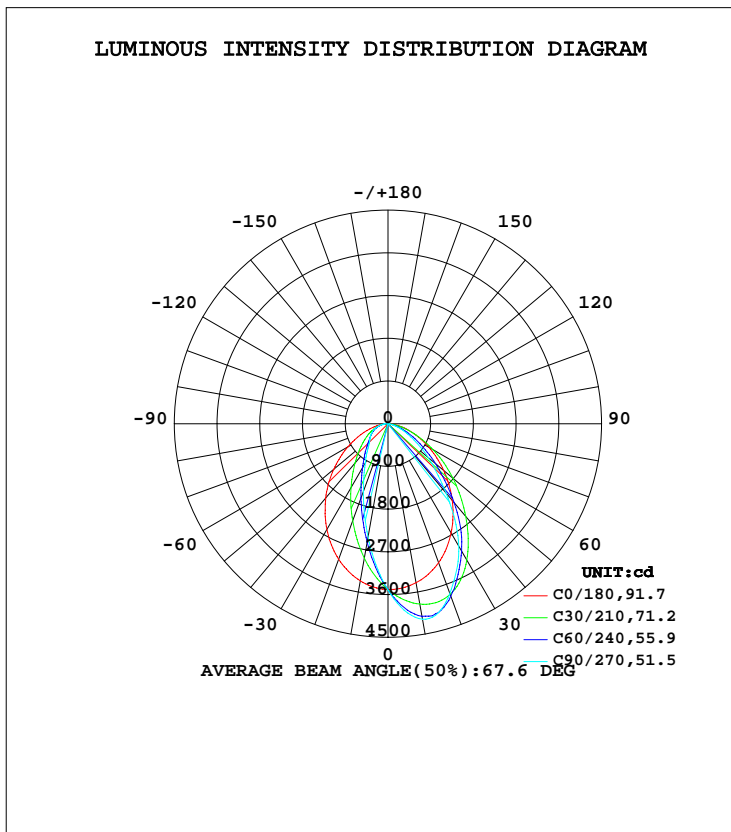


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.4297A P:50W PF:0.9896 Freq:60.00Hz		Lamp Flux:6250x1 lm
NAME: ASD-WLP02A-50DAC-BK_3000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125 lm/W			
MODEL	ASD-WLP02A-50DAC-BK	I <sub>max</sub> (cd)	4194	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)	6250	η UP, DN(C0-180)	0.0,64.4
NOMINAL FLUX(lm)	6250	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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	3402	4016	4182	3997	3360	2681	2424	2716	0- 10	327.0	327.0	5.15,5.15
20	3117	3906	3806	3884	3039	1876	1519	1926	10- 20	882.8	1210	19,19
30	2660	3216	2984	3214	2573	1254	959.6	1298	20- 30	1188	2398	37.7,37.7
40	2107	2403	1906	2424	2042	848.8	647.4	879.9	30- 40	1230	3628	57.1,57.1
50	1532	1564	1111	1615	1491	590.2	496.0	610.2	40- 50	1064	4692	73.8,73.8
60	1000	873.7	559.6	922.0	976.4	407.8	402.2	417.2	50- 60	806.3	5498	86.5,86.5
70	551.0	398.9	232.9	427.4	541.8	268.8	285.9	271.0	60- 70	524.0	6022	94.8,94.8
80	206.6	82.28	32.93	94.20	212.1	137.1	146.6	137.0	70- 80	259.9	6282	98.9,98.9
90	6.487	0.1539	0.1452	0.1558	3.395	20.75	27.30	19.39	80- 90	63.03	6345	99.9,99.9
100	0.3185	0.2084	0.1927	0.2202	0.6580	0.5705	0.3873	0.6137	90-100	1.781	6347	99.9,99.9
110	0.4465	0.2720	0.2470	0.3183	0.8562	0.8300	0.6005	0.8864	100-110	0.5119	6348	99.9,99.9
120	0.6758	0.3781	0.3372	0.4885	1.120	1.253	1.022	1.274	110-120	0.6668	6348	99.9,99.9
130	1.002	0.5905	0.4836	0.7506	1.681	2.072	1.922	2.013	120-130	0.9412	6349	99.9,99.9
140	1.348	0.9530	0.7830	1.129	2.112	2.789	2.901	2.693	130-140	1.224	6350	99.9,99.9
150	1.655	1.490	1.272	1.546	2.574	3.172	3.598	3.158	140-150	1.303	6352	100,100
160	2.128	2.093	1.825	2.047	3.050	3.287	3.663	3.352	150-160	1.155	6353	100,100
170	2.437	2.572	2.321	2.316	3.221	3.101	3.091	2.945	160-170	0.7810	6354	100,100
180	3.058	2.933	2.651	2.533	3.050	2.992	2.708	2.561	170-180	0.2599	6354	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4188.4 lm

%lum = 65.9%

%lamp = 65.9%

Conical surface Flux(120deg): 5498.3 lm

%lum = 86.5%

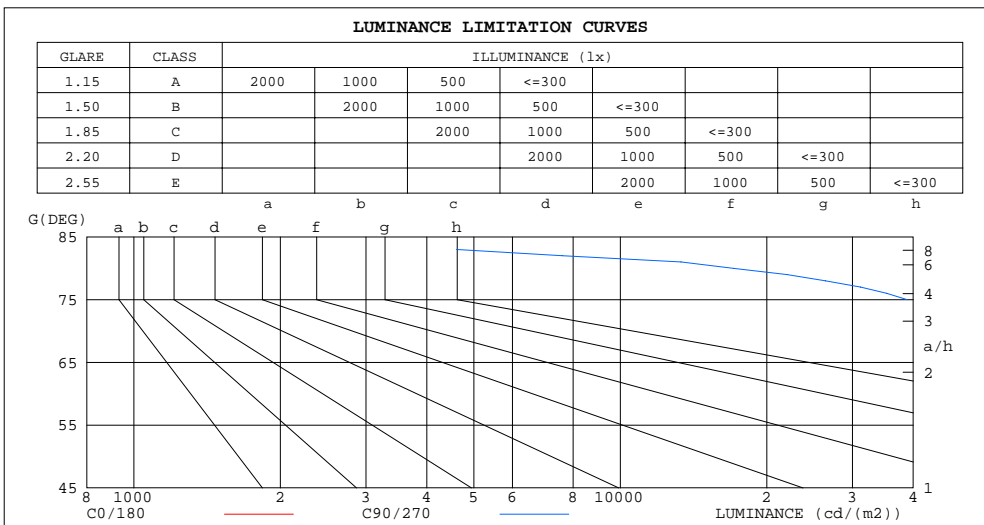
%lamp = 86.5%

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

$\gamma$  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=1.0477]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.00V I:0.4297A P:50W PF:0.9896 Freq:60.00Hz Lamp Flux:6250x1 lm		
NAME: ASD-WLP02A-50DAC-BK_3000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	82613	149
80	107165	17084
75	126813	38904
70	145147	61343
65	162856	80482
60	180254	100823
55	197623	125537
50	214775	155666
45	231601	184428

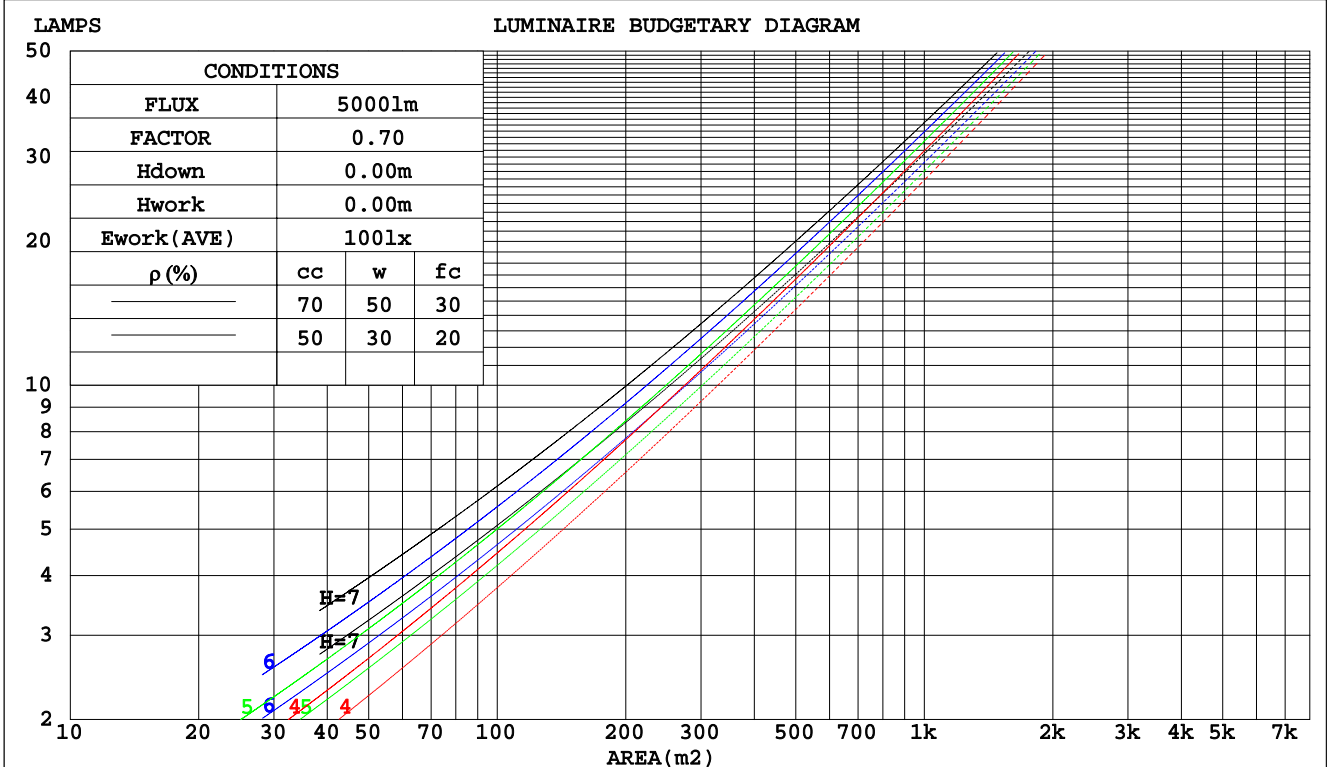
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 March 2022

$\gamma$  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=1.0477]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.4297A P:50W PF:0.9896 Freq:60.00Hz		Lamp Flux:6250x1 lm	
NAME: ASD-WLP02A-50DAC-BK_3000K		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:50W PF:0.9896 Freq:60.00Hz			Lamp Flux:6250x1 lm		
NAME: ASD-WLP02A-50DAC-BK_3000K		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:50W PF:0.9896 Freq:60.00Hz						Lamp Flux:6250x1 lm				
NAME: ASD-WLP02A-50DAC-BK_3000K			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	32.1	33.6	32.5	33.9	34.2	27.9	29.4	28.3	29.7	30.0
3H	33.4	34.8	33.8	35.1	35.5	28.6	30.0	29.0	30.3	30.6
4H	33.9	35.1	34.3	35.5	35.8	28.8	30.0	29.2	30.3	30.7
6H	34.1	35.3	34.6	35.6	36.0	28.7	29.9	29.2	30.3	30.7
8H	34.2	35.3	34.6	35.7	36.1	28.7	29.8	29.1	30.2	30.6
12H	34.2	35.3	34.7	35.7	36.1	28.7	29.7	29.1	30.1	30.5
4H 2H	32.2	33.5	32.6	33.8	34.2	28.8	30.0	29.2	30.4	30.8
3H	33.8	34.8	34.2	35.2	35.6	29.7	30.7	30.1	31.1	31.5
4H	34.3	35.3	34.8	35.7	36.1	29.8	30.7	30.3	31.2	31.6
6H	34.7	35.5	35.2	36.0	36.4	29.8	30.6	30.3	31.1	31.6
8H	34.8	35.6	35.3	36.0	36.5	29.8	30.6	30.3	31.0	31.5
12H	34.9	35.5	35.4	36.0	36.5	29.8	30.4	30.3	30.9	31.4
8H 4H	34.3	35.1	34.8	35.5	36.0	30.2	31.0	30.7	31.4	31.9
6H	34.8	35.4	35.3	35.9	36.3	30.2	30.8	30.7	31.3	31.8
8H	34.9	35.4	35.4	36.0	36.4	30.2	30.7	30.7	31.3	31.7
12H	35.0	35.5	35.5	36.0	36.5	30.2	30.6	30.7	31.1	31.7
12H 4H	34.3	34.9	34.8	35.4	35.9	30.3	30.9	30.7	31.4	31.9
6H	34.7	35.3	35.2	35.7	36.3	30.3	30.8	30.8	31.3	31.8
8H	34.9	35.3	35.4	35.8	36.4	30.2	30.7	30.8	31.2	31.8
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:50W PF:0.9896 Freq:60.00Hz			Lamp Flux:6250x1 lm		
NAME: ASD-WLP02A-50DAC-BK_3000K		TYPE: LED		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: ASD Lighting Corp.		SUR.:		Shielding Angle:	

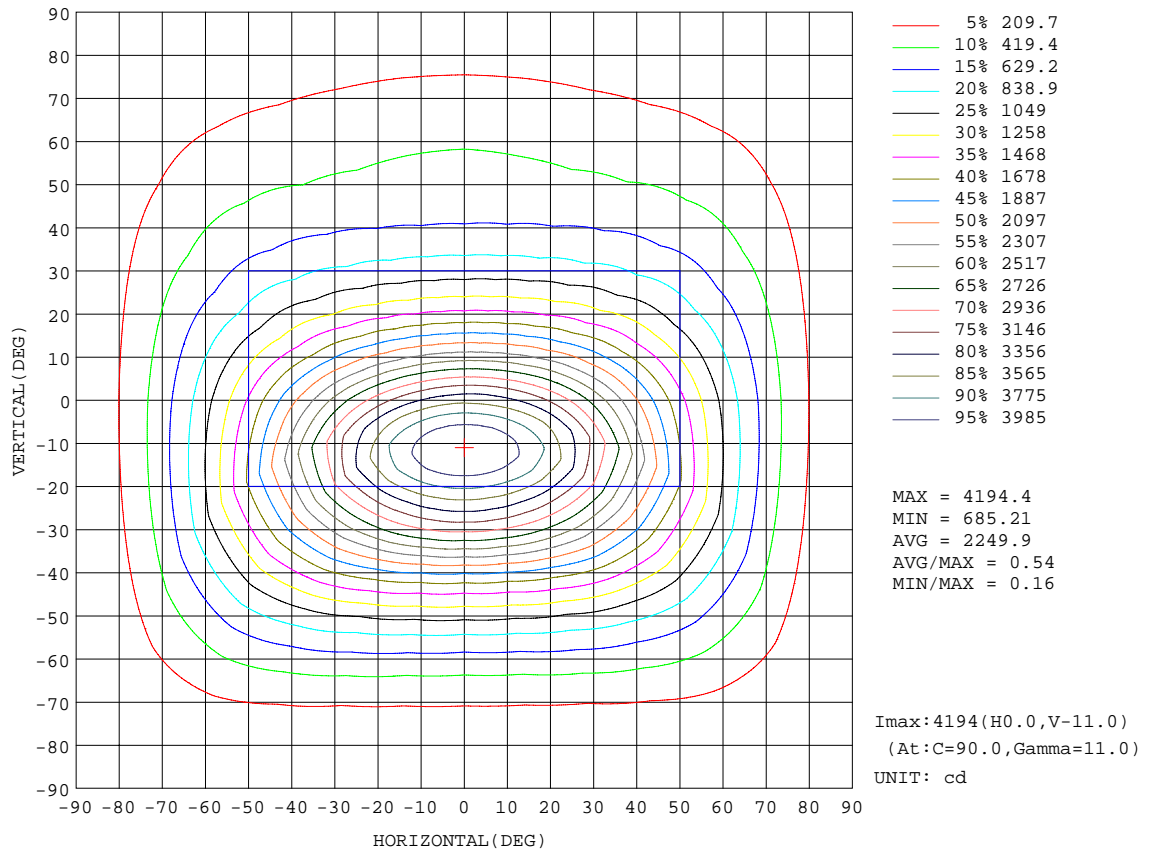
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	48	64	54	48	63	54	48	42
0.80	75	64	58	74	64	58	72	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

$\gamma$  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=1.0477]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.4297A P:50W PF:0.9896 Freq:60.00Hz Lamp Flux:6250x1 lm		
NAME: ASD-WLP02A-50DAC-BK_3000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:



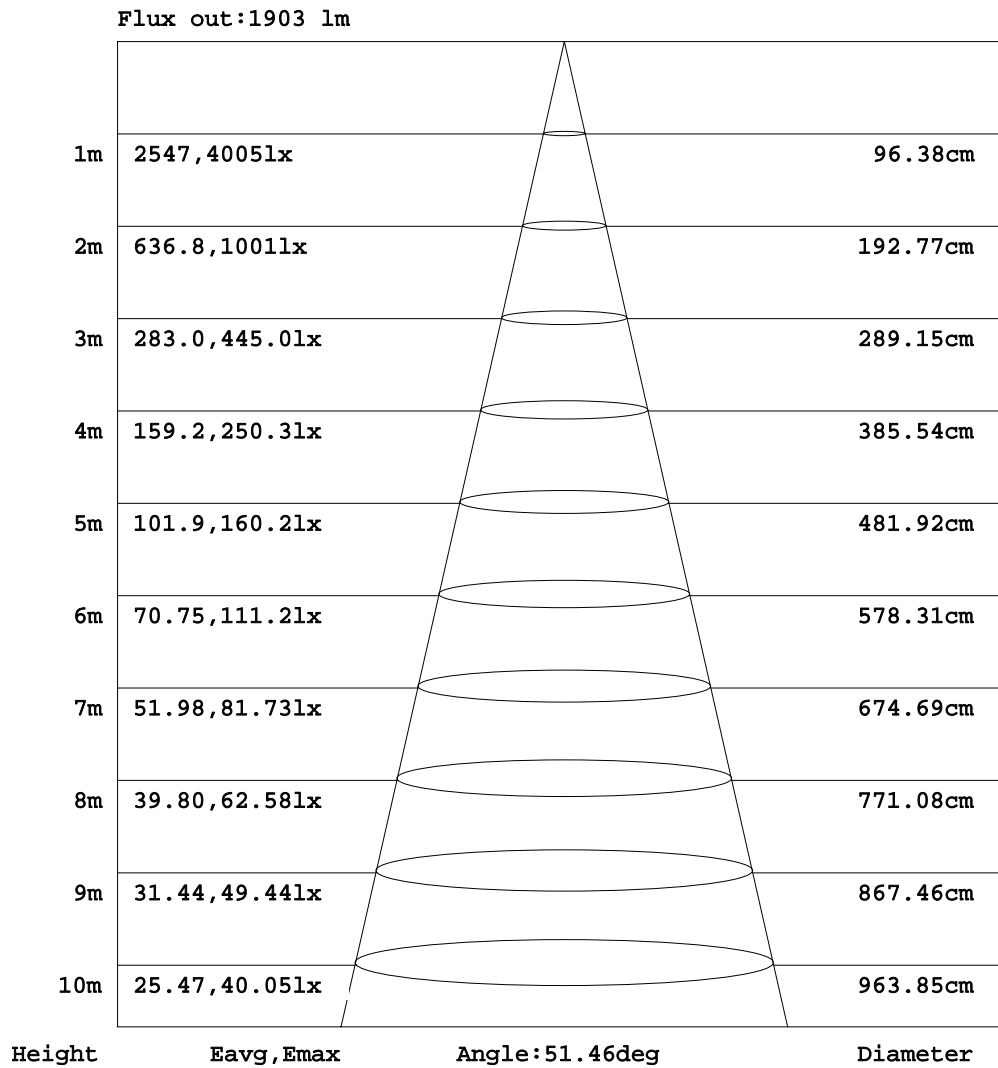
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 24 March 2022

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:50W PF:0.9896 Freq:60.00Hz Lamp Flux:6250x1 lm		
NAME: ASD-WLP02A-50DAC-BK_3000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:



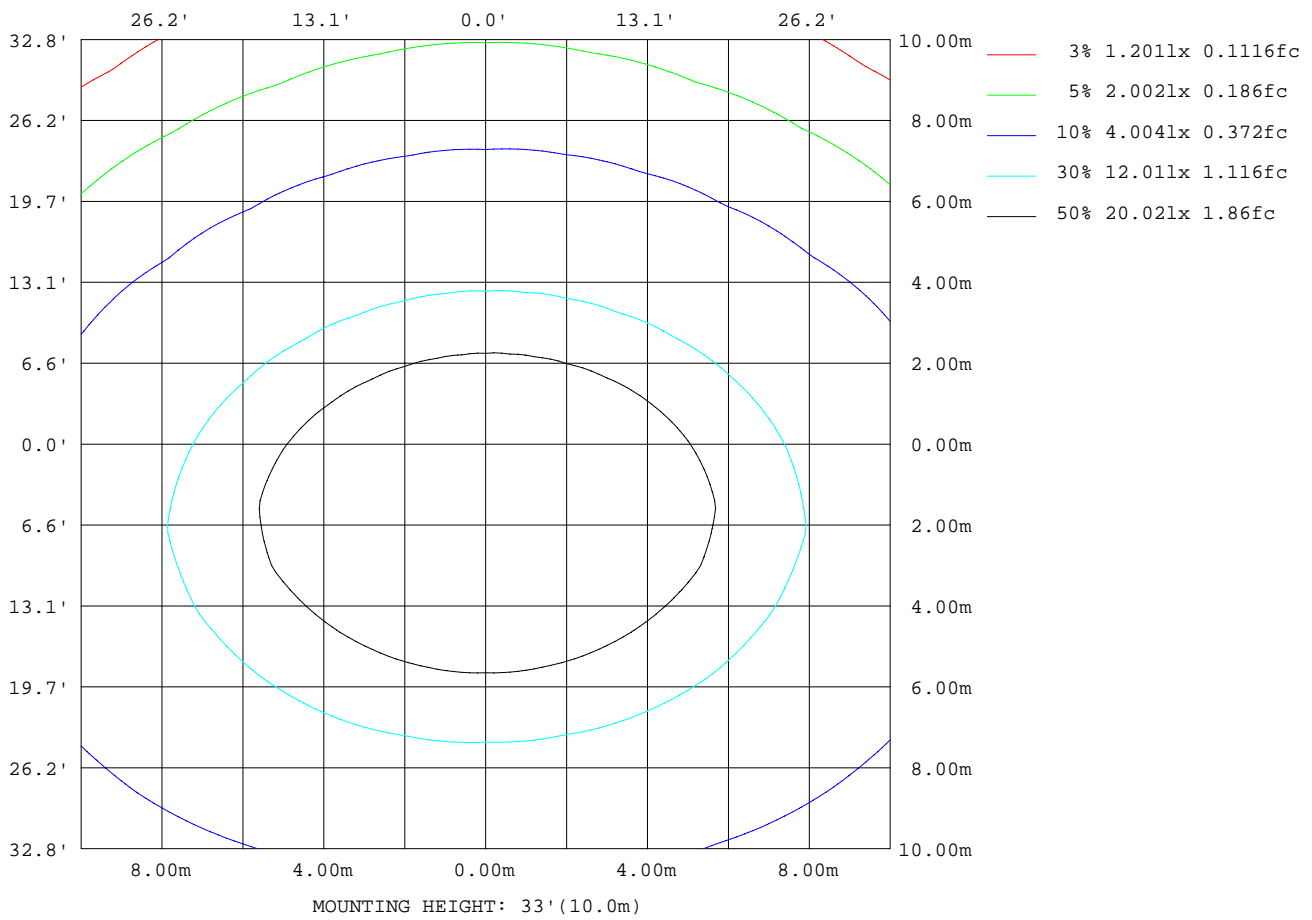
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.0DEG  
 Operators: Alan Wang  
 Test Date: 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:50W PF:0.9896 Freq:60.00Hz		Lamp Flux:6250x1 lm
NAME: ASD-WLP02A-50DAC-BK_3000K	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:50W PF:0.9896 Freq:60.00Hz Lamp Flux:6250x1 lm		
NAME: ASD-WLP02A-50DAC-BK_3000K	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp.	SUR.:	Shielding Angle:

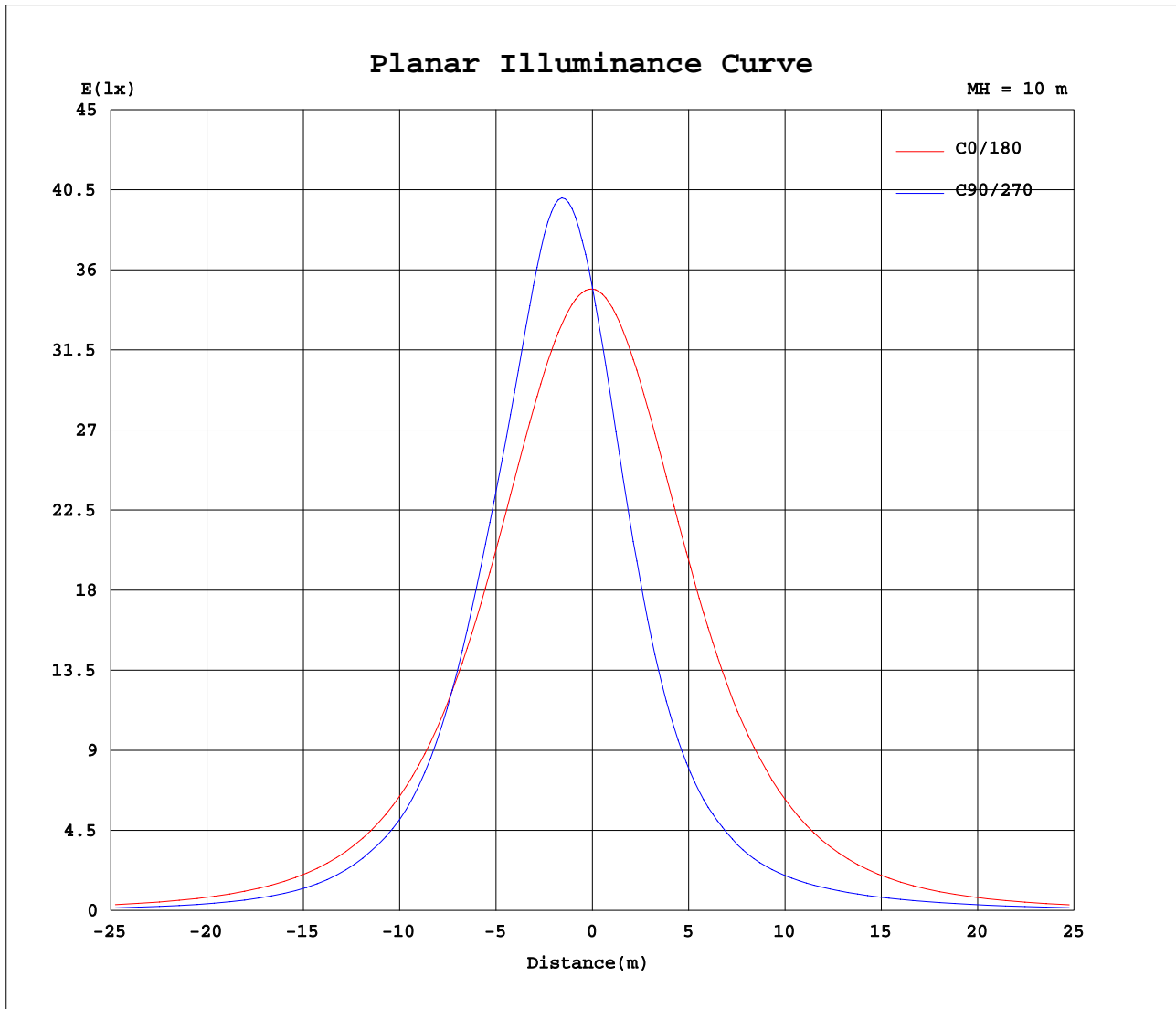
AvgL	cd/m2
L_0~180(65)av	160970
L_0~180(75)av	126560
L_0~180(85)av	86486
L_90~270(65)av	77317
L_90~270(75)av	57085
L_90~270(85)av	41854
L_45(65)av	103264
L_45(75)av	75488
L_45(85)av	43322

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

$\gamma$  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=1.0477]  
 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

$\gamma$  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=1.0477]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.4297A P:50W PF:0.9896 Freq:60.00Hz		Lamp Flux:6250x1 lm
NAME: ASD-WLP02A-50DAC-BK_3000K	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	3493	3494	3496	3497	3498	3504	3504	3504	3502	3503	3502	3500	3493	3494	3496	3497	3498	3504	3504
5	3473	3598	3716	3811	3882	3927	3943	3926	3879	3804	3708	3587	3454	3327	3210	3110	3032	2992	2975
10	3402	3645	3857	4016	4119	4166	4182	4163	4107	3997	3832	3611	3360	3110	2878	2681	2533	2450	2424
15	3283	3629	3903	4055	4116	4116	4121	4120	4103	4032	3848	3579	3218	2858	2524	2256	2072	1966	1936
20	3117	3544	3824	3906	3869	3825	3806	3827	3872	3884	3782	3476	3039	2581	2174	1876	1667	1551	1519
25	2905	3386	3627	3601	3499	3433	3414	3436	3502	3592	3588	3316	2820	2294	1857	1536	1334	1230	1200
30	2660	3157	3321	3216	3102	3016	2984	3024	3105	3214	3304	3097	2573	2016	1559	1254	1076	985	960
35	2391	2874	2947	2814	2665	2506	2451	2524	2682	2820	2954	2830	2310	1741	1299	1029	878	813	791
40	2107	2558	2549	2403	2169	1971	1906	1995	2204	2424	2571	2527	2042	1482	1081	849	731	663	647
45	1818	2214	2158	1973	1696	1502	1448	1524	1735	2014	2189	2211	1770	1242	897	710	604	565	556
50	1532	1867	1787	1564	1309	1154	1111	1170	1344	1615	1824	1874	1491	1026	743	590	514	497	496
55	1258	1525	1436	1197	965	838	799	854	991	1250	1479	1545	1227	835	612	490	446	445	448
60	1000	1199	1099	874	696	590	560	603	721	922	1147	1227	976	665	499	408	387	396	402
65	764	904	802	611	476	396	378	405	497	649	847	927	746	517	400	336	329	343	348
70	551	638	545	399	296	245	233	251	313	427	582	657	542	385	309	269	269	281	286
75	364	409	331	221	150	119	112	123	161	242	357	423	363	269	226	202	203	213	216
80	207	217	151	82.3	48.2	35.5	32.9	37.6	53.0	94.2	170	227	212	167	148	137	138	144	147
85	79.9	59.5	18.4	7.69	0.48	0.28	0.14	0.23	4.64	10.9	26.1	70.0	87.4	80.6	77.9	75.1	76.6	79.8	80.8
90	6.49	1.19	0.20	0.15	0.15	0.14	0.15	0.15	0.15	0.16	0.27	1.27	3.39	9.77	17.6	20.8	23.5	26.8	27.3
95	0.26	0.23	0.20	0.18	0.17	0.17	0.17	0.17	0.18	0.20	0.22	0.53	0.56	0.52	0.54	0.70	1.07	1.07	1.19
100	0.32	0.28	0.23	0.21	0.20	0.19	0.19	0.20	0.20	0.22	0.25	0.28	0.66	0.71	0.67	0.57	0.47	0.40	0.39
105	0.38	0.33	0.27	0.24	0.23	0.22	0.22	0.23	0.24	0.26	0.31	0.35	0.78	0.84	0.82	0.72	0.61	0.53	0.50
110	0.45	0.38	0.31	0.27	0.25	0.25	0.25	0.26	0.28	0.32	0.38	0.44	0.86	0.92	0.91	0.83	0.72	0.63	0.60
115	0.54	0.46	0.36	0.32	0.29	0.28	0.28	0.31	0.33	0.39	0.48	0.55	0.95	1.02	1.05	0.99	0.88	0.78	0.75
120	0.68	0.58	0.45	0.38	0.35	0.33	0.34	0.36	0.41	0.49	0.60	0.69	1.12	1.22	1.27	1.25	1.15	1.05	1.02
125	0.83	0.70	0.56	0.47	0.42	0.40	0.40	0.42	0.50	0.61	0.74	0.84	1.39	1.51	1.59	1.63	1.54	1.44	1.42
130	1.00	0.86	0.70	0.59	0.53	0.48	0.48	0.52	0.62	0.75	0.90	1.01	1.68	1.83	1.97	2.07	2.04	1.96	1.92
135	1.18	1.06	0.90	0.75	0.68	0.61	0.62	0.67	0.78	0.93	1.09	1.19	1.94	2.11	2.29	2.45	2.48	2.48	2.45
140	1.35	1.26	1.12	0.95	0.85	0.78	0.78	0.84	0.96	1.13	1.25	1.38	2.11	2.32	2.52	2.79	2.86	2.93	2.90
145	1.53	1.48	1.35	1.21	1.10	1.03	1.01	1.07	1.19	1.34	1.42	1.52	2.38	2.54	2.74	3.04	3.22	3.33	3.33
150	1.66	1.70	1.62	1.49	1.38	1.30	1.27	1.34	1.44	1.55	1.57	1.61	2.57	2.67	2.83	3.17	3.43	3.61	3.60
155	1.87	1.99	1.95	1.82	1.72	1.64	1.59	1.69	1.77	1.82	1.85	1.77	2.78	2.77	3.01	3.21	3.49	3.73	3.68
160	2.13	2.23	2.20	2.09	1.98	1.92	1.83	1.99	2.02	2.05	2.02	1.94	3.05	3.02	3.07	3.29	3.42	3.64	3.66
165	2.29	2.43	2.47	2.42	2.32	2.23	2.16	2.28	2.33	2.32	2.23	2.11	3.14	3.13	3.11	3.23	3.37	3.43	3.50
170	2.44	2.57	2.60	2.57	2.46	2.39	2.32	2.42	2.41	2.32	2.23	2.18	3.22	3.21	3.14	3.10	3.09	3.14	3.09
175	2.68	2.77	2.77	2.73	2.61	2.53	2.46	2.48	2.49	2.46	2.40	2.40	3.16	3.16	3.12	3.04	2.94	2.90	2.83
180	3.06	3.12	3.01	2.93	2.81	2.71	2.65	2.49	2.52	2.53	2.55	2.64	3.05	3.05	3.08	2.99	2.91	2.79	2.71

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:50W PF:0.9896 Freq:60.00Hz		Lamp Flux:6250x1 lm
NAME: ASD-WLP02A-50DAC-BK_3000K	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	3504	3502	3503	3502	3500														
5	2996	3049	3129	3237	3358														
10	2461	2560	2716	2921	3161														
15	1980	2100	2302	2587	2930														
20	1565	1697	1926	2248	2671														
25	1241	1362	1584	1932	2393														
30	994	1099	1298	1632	2105														
35	821	897	1064	1364	1839														
40	671	747	880	1134	1567														
45	568	616	731	942	1315														
50	498	521	610	776	1086														
55	444	448	505	637	882														
60	395	387	417	516	700														
65	340	327	341	410	540														
70	278	266	271	315	400														
75	211	201	203	228	277														
80	143	137	137	148	169														
85	78.7	75.0	74.0	75.9	78.2														
90	26.0	22.4	19.4	15.7	6.97														
95	1.02	0.64	0.53	0.55	0.57														
100	0.42	0.50	0.61	0.71	0.72														
105	0.54	0.64	0.77	0.86	0.85														
110	0.65	0.75	0.89	0.97	0.94														
115	0.80	0.91	1.04	1.10	1.05														
120	1.06	1.16	1.27	1.32	1.23														
125	1.43	1.51	1.61	1.61	1.50														
130	1.94	1.99	2.01	1.94	1.81														
135	2.45	2.44	2.37	2.24	2.06														
140	2.85	2.76	2.69	2.49	2.25														
145	3.23	3.14	2.95	2.69	2.49														
150	3.48	3.35	3.16	2.82	2.66														
155	3.61	3.45	3.24	3.07	2.90														
160	3.60	3.53	3.35	3.19	3.06														
165	3.40	3.40	3.31	3.16	3.07														
170	3.12	3.11	2.94	2.94	2.95														
175	2.75	2.80	2.68	2.76	2.79														
180	2.67	2.52	2.56	2.55	2.57														

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: