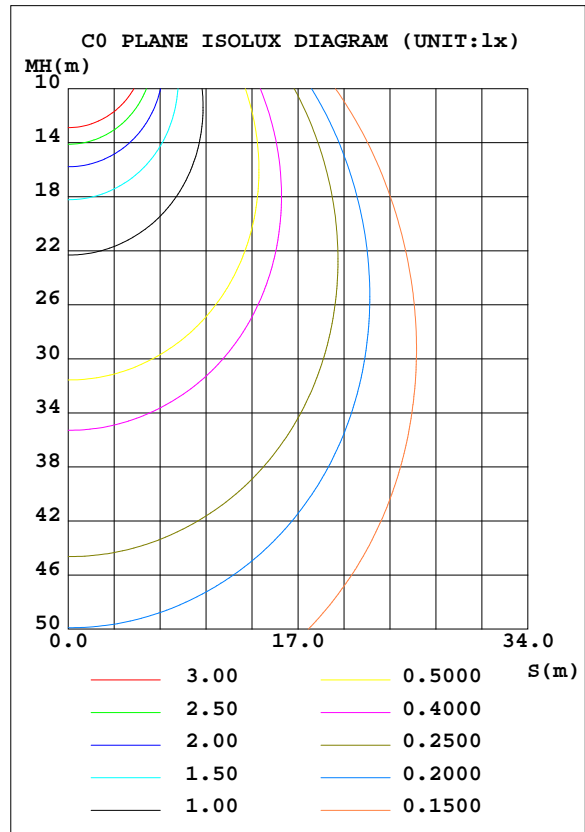
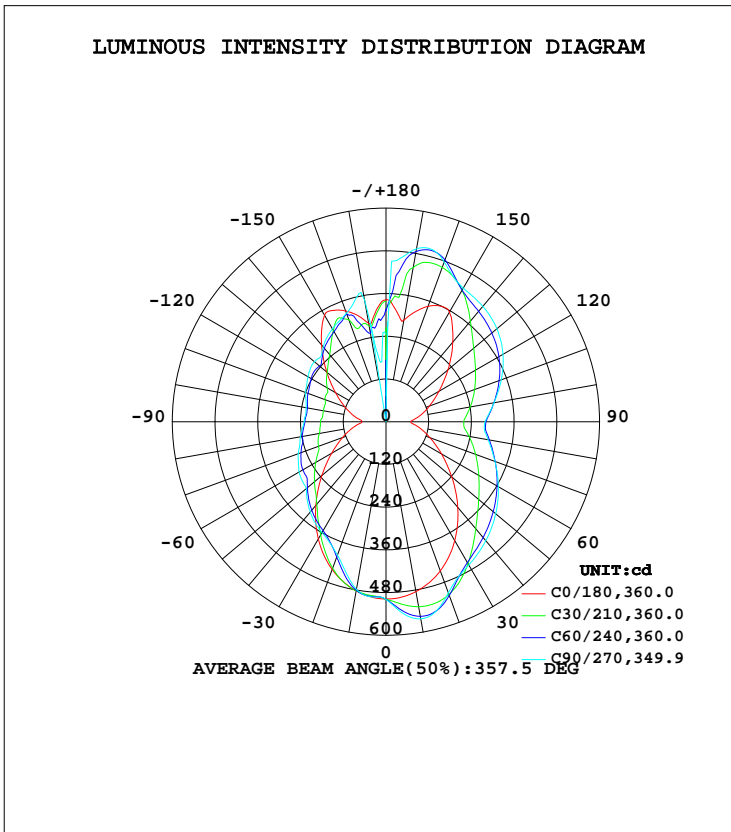


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.49 lm/W			
MODEL	LWS27A-72D40BK	Imax(cd)	562.4	S/MH(C0/180)	1.15
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.07
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	3619.6	η UP, DN(C0-180)	27.8,28.9
NOMINAL FLUX(lm)	3620	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	19.9,23.3
LAMPS INSIDE	1	η up(%)	47.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	52.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	484.5	544.6	562.1	545.4	482.4	483.0	478.4	484.7	0- 10	48.49	48.49	1.34,1.34
20	446.0	524.5	512.1	525.1	441.8	420.3	399.2	424.7	10- 20	138.4	186.9	5.16,5.16
30	386.0	455.9	464.8	454.7	380.3	352.0	359.8	360.4	20- 30	200.8	387.7	10.7,10.7
40	313.8	407.6	436.2	404.2	306.5	314.4	330.9	315.4	30- 40	240.4	628.0	17.4,17.4
50	241.4	372.9	402.4	367.4	235.3	280.2	292.6	278.3	40- 50	259.9	887.9	24.5,24.5
60	179.6	341.0	364.6	334.1	175.8	245.6	282.0	245.4	50- 60	263.9	1152	31.8,31.8
70	131.7	310.1	325.8	302.9	130.2	237.9	262.4	240.7	60- 70	260.0	1412	39,39
80	94.50	279.9	291.4	273.2	93.97	224.0	244.0	225.9	70- 80	247.7	1660	45.9,45.9
90	70.23	264.0	277.9	257.1	68.01	217.5	230.0	220.5	80- 90	231.9	1892	52.3,52.3
100	96.08	288.2	308.2	281.6	90.09	212.5	227.7	217.6	90-100	231.6	2123	58.7,58.7
110	129.9	314.3	344.5	309.4	123.0	215.4	240.5	220.5	100-110	243.0	2366	65.4,65.4
120	171.9	338.2	379.4	334.3	163.8	223.8	253.1	226.7	110-120	249.5	2616	72.3,72.3
130	227.2	359.8	406.7	356.6	217.1	232.8	262.6	237.5	120-130	247.1	2863	79.1,79.1
140	292.2	383.8	423.4	380.7	281.6	259.2	274.7	267.3	130-140	234.3	3097	85.6,85.6
150	356.2	428.7	434.1	423.9	345.5	288.6	301.1	295.3	140-150	212.1	3309	91.4,91.4
160	345.1	481.4	478.2	473.3	331.2	309.8	324.9	327.1	150-160	171.8	3481	96.2,96.2
170	290.2	463.7	493.1	351.5	280.8	263.9	347.8	345.9	160-170	107.3	3588	99.1,99.1
180	344.4	319.0	73.11	313.6	342.0	325.0	245.5	274.0	170-180	31.48	3620	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 756.74 lm

%lum = 20.9%

%lamp = 20.9%

Conical surface Flux(120deg): 1151.8 lm

%lum = 31.8%

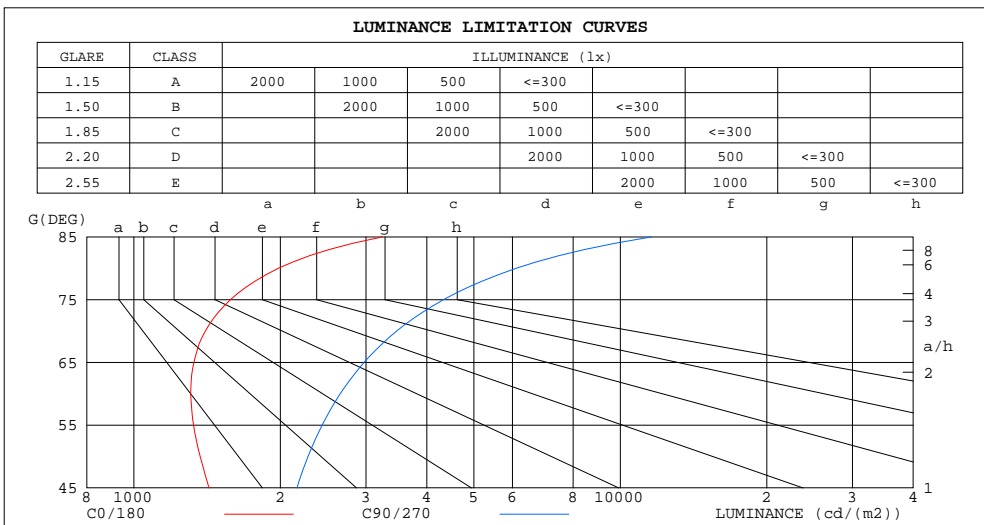
%lamp = 31.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3245	11613
80	1983	6113
75	1580	4332
70	1403	3470
65	1329	2974
60	1309	2656
55	1327	2438
50	1368	2281
45	1427	2164

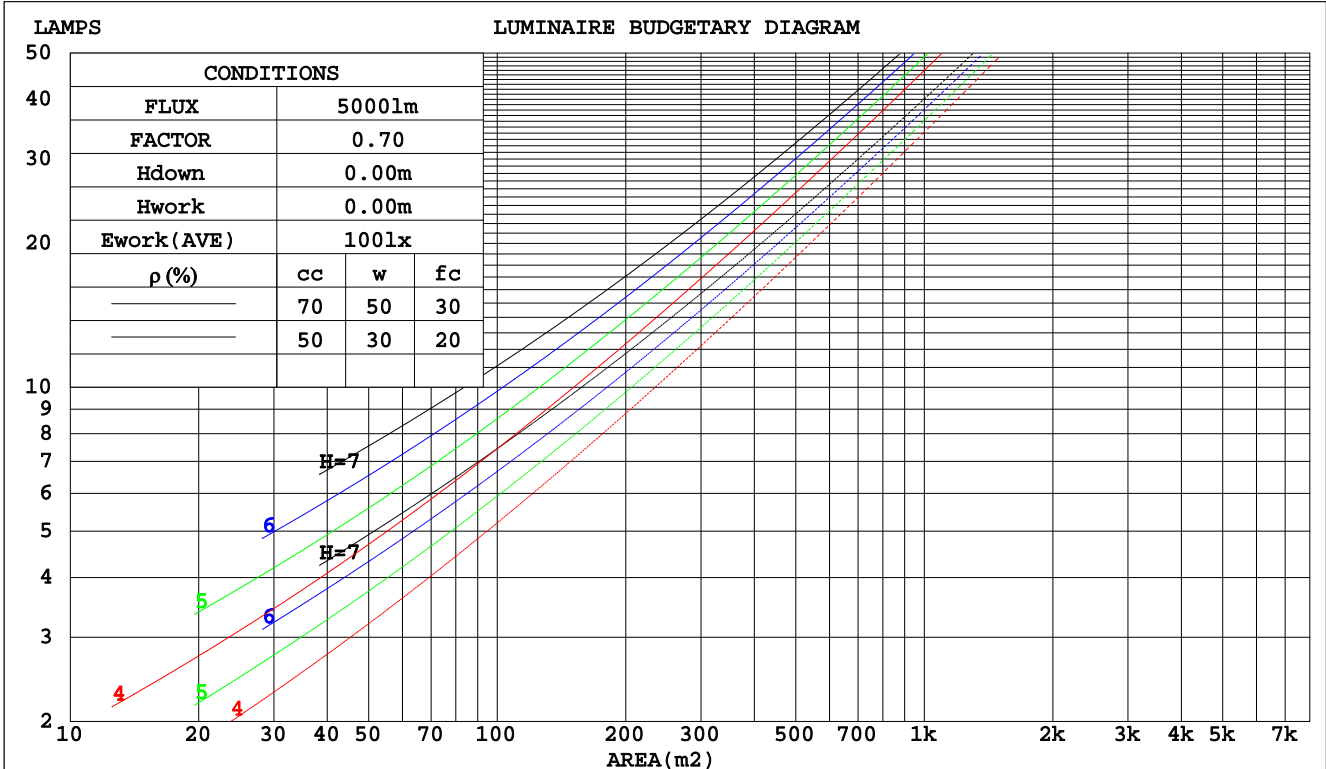
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 27.8DEG
 Operators: Alan Wang
 Test Date: 14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 47.5%
 Test Distance: 2.500m [K=1.0393]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

ρcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																0
ρfc																0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.08	1.08	1.08	.00	.00	.00	.85	.85	.85	.71	.71	.71	.58	.58	.58	.52
1.0	.90	.85	.80	.83	.79	.75	.70	.67	.64	.58	.55	.53	.47	.45	.43	.38
2.0	.77	.70	.64	.71	.65	.59	.60	.55	.51	.49	.46	.43	.40	.37	.35	.30
3.0	.67	.59	.52	.62	.54	.48	.52	.46	.42	.43	.39	.35	.35	.31	.29	.24
4.0	.59	.50	.43	.54	.47	.41	.46	.40	.35	.38	.33	.29	.31	.27	.24	.20
5.0	.52	.43	.37	.48	.40	.34	.41	.35	.30	.34	.29	.25	.27	.24	.21	.17
6.0	.47	.38	.32	.43	.35	.30	.37	.30	.26	.31	.26	.22	.25	.21	.18	.15
7.0	.42	.34	.28	.39	.31	.26	.33	.27	.23	.28	.23	.19	.23	.19	.16	.13
8.0	.38	.30	.24	.35	.28	.23	.30	.24	.20	.25	.21	.17	.21	.17	.14	.12
9.0	.35	.27	.22	.32	.25	.20	.28	.22	.18	.23	.19	.15	.19	.15	.13	.11
10.0	.32	.24	.19	.30	.23	.18	.25	.20	.16	.22	.17	.14	.18	.14	.12	.10



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 27.8DEG
 Operators: Alan Wang
 Test Date: 14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 47.5%
 Test Distance: 2.500m [K=1.0393]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

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	.359	.204	.065	.337	.192	.061	.297	.170	.054	.259	.150	.048	.225	.130	.042	
2.0	.309	.169	.052	.289	.159	.049	.253	.140	.044	.218	.123	.038	.187	.106	.033	
3.0	.275	.146	.044	.257	.137	.041	.223	.121	.037	.192	.105	.032	.163	.090	.028	
4.0	.248	.129	.038	.231	.121	.036	.200	.106	.032	.172	.092	.028	.145	.079	.024	
5.0	.226	.115	.033	.211	.108	.031	.182	.095	.028	.156	.082	.024	.131	.070	.021	
6.0	.207	.104	.030	.193	.098	.028	.167	.086	.025	.143	.074	.022	.120	.063	.019	
7.0	.191	.095	.027	.179	.089	.025	.154	.078	.022	.132	.067	.020	.110	.057	.017	
8.0	.178	.087	.024	.166	.082	.023	.143	.072	.020	.122	.062	.018	.102	.052	.015	
9.0	.166	.080	.022	.155	.076	.021	.134	.066	.019	.114	.057	.016	.095	.048	.014	
10.0	.156	.075	.021	.145	.070	.020	.126	.062	.017	.107	.053	.015	.089	.045	.013	

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	.554	.554	.554	.474	.474	.474	.323	.323	.323	.186	.186	.186	.059	.059	.059	
1.0	.550	.522	.497	.471	.448	.428	.322	.308	.296	.185	.179	.172	.059	.057	.056	
2.0	.544	.501	.465	.466	.431	.402	.319	.298	.280	.184	.174	.164	.059	.056	.054	
3.0	.537	.486	.445	.460	.419	.386	.316	.291	.271	.182	.170	.159	.059	.055	.052	
4.0	.529	.474	.431	.454	.409	.375	.312	.285	.264	.181	.167	.156	.058	.054	.051	
5.0	.522	.465	.422	.448	.402	.367	.309	.281	.259	.179	.165	.154	.058	.054	.051	
6.0	.515	.457	.415	.443	.396	.362	.306	.277	.256	.177	.163	.152	.057	.053	.050	
7.0	.509	.451	.410	.438	.391	.358	.302	.274	.253	.176	.161	.151	.057	.053	.050	
8.0	.503	.446	.407	.433	.387	.355	.299	.271	.252	.174	.160	.150	.056	.052	.050	
9.0	.497	.441	.404	.428	.383	.352	.297	.269	.250	.173	.159	.149	.056	.052	.049	
10.0	.491	.437	.401	.424	.380	.350	.294	.267	.249	.171	.158	.149	.056	.052	.049	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm										
NAME:ASD-LWS27A-72D40BK										
SPEC.:5000K										
MFR.: ASD Lighting Corp										

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	11.4	12.4	12.2	13.3	14.4	13.5	14.5	14.3	15.4	16.5
3H	13.3	14.2	14.1	15.1	16.2	16.2	17.1	17.0	18.0	19.1
4H	14.2	15.1	15.1	16.0	17.1	17.7	18.6	18.6	19.5	20.6
6H	15.2	16.0	16.1	16.9	18.1	19.4	20.2	20.3	21.1	22.3
8H	15.6	16.4	16.5	17.4	18.5	20.3	21.1	21.2	22.0	23.2
12H	16.2	16.9	17.1	17.8	19.0	21.4	22.2	22.3	23.1	24.3
4H 2H	12.8	13.7	13.7	14.6	15.7	14.2	15.1	15.1	16.0	17.1
3H	15.0	15.8	15.9	16.7	17.9	17.1	17.9	18.0	18.8	20.0
4H	16.2	16.9	17.1	17.8	19.1	18.8	19.5	19.7	20.4	21.6
6H	17.4	18.0	18.4	19.0	20.2	20.7	21.3	21.6	22.2	23.5
8H	18.0	18.6	19.0	19.5	20.8	21.7	22.3	22.7	23.2	24.5
12H	18.6	19.1	19.6	20.1	21.4	22.9	23.4	23.9	24.4	25.7
8H 4H	17.4	18.0	18.4	18.9	20.2	19.3	19.9	20.3	20.8	22.1
6H	19.0	19.5	20.0	20.5	21.8	21.5	22.0	22.5	23.0	24.2
8H	19.9	20.3	20.9	21.3	22.6	22.7	23.2	23.7	24.2	25.5
12H	20.8	21.1	21.8	22.2	23.5	24.2	24.6	25.2	25.6	26.9
12H 4H	17.7	18.2	18.7	19.2	20.5	19.4	19.9	20.4	20.9	22.2
6H	19.6	20.0	20.6	21.0	22.3	21.7	22.1	22.7	23.1	24.4
8H	20.7	21.0	21.7	22.0	23.4	23.1	23.5	24.1	24.5	25.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117, 3620 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.5)
 Area: 0.2745 m2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

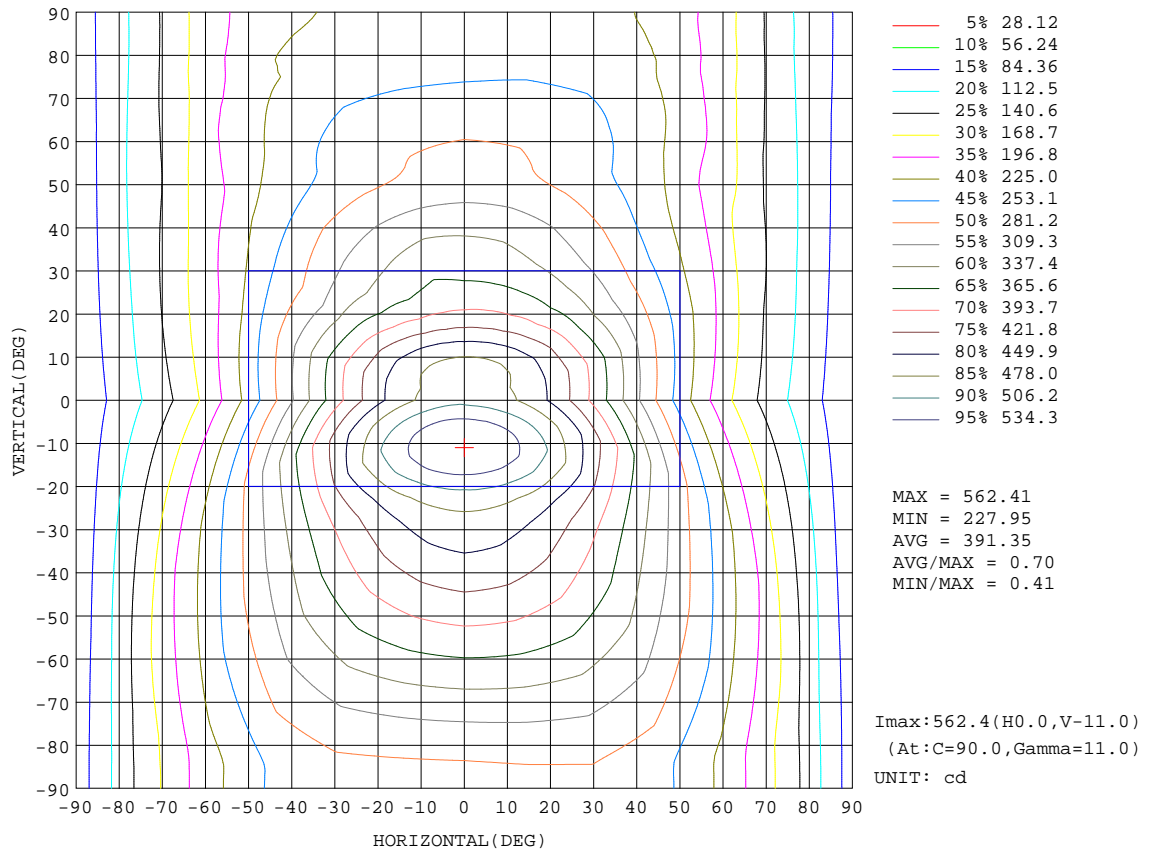
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	41	29	22	39	28	21	35	26	20	13
0.80	50	37	29	47	35	28	41	32	26	16
1.00	57	44	36	53	42	34	47	39	31	20
1.25	64	51	42	59	48	40	52	43	36	23
1.50	69	56	48	64	53	45	55	47	41	25
2.00	76	65	56	71	61	53	61	53	47	29
2.50	81	70	62	75	66	59	64	57	51	32
3.00	84	75	67	78	70	63	67	61	55	34
4.00	89	81	74	83	76	70	70	65	60	37
5.00	92	85	79	85	79	74	73	68	64	39
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:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

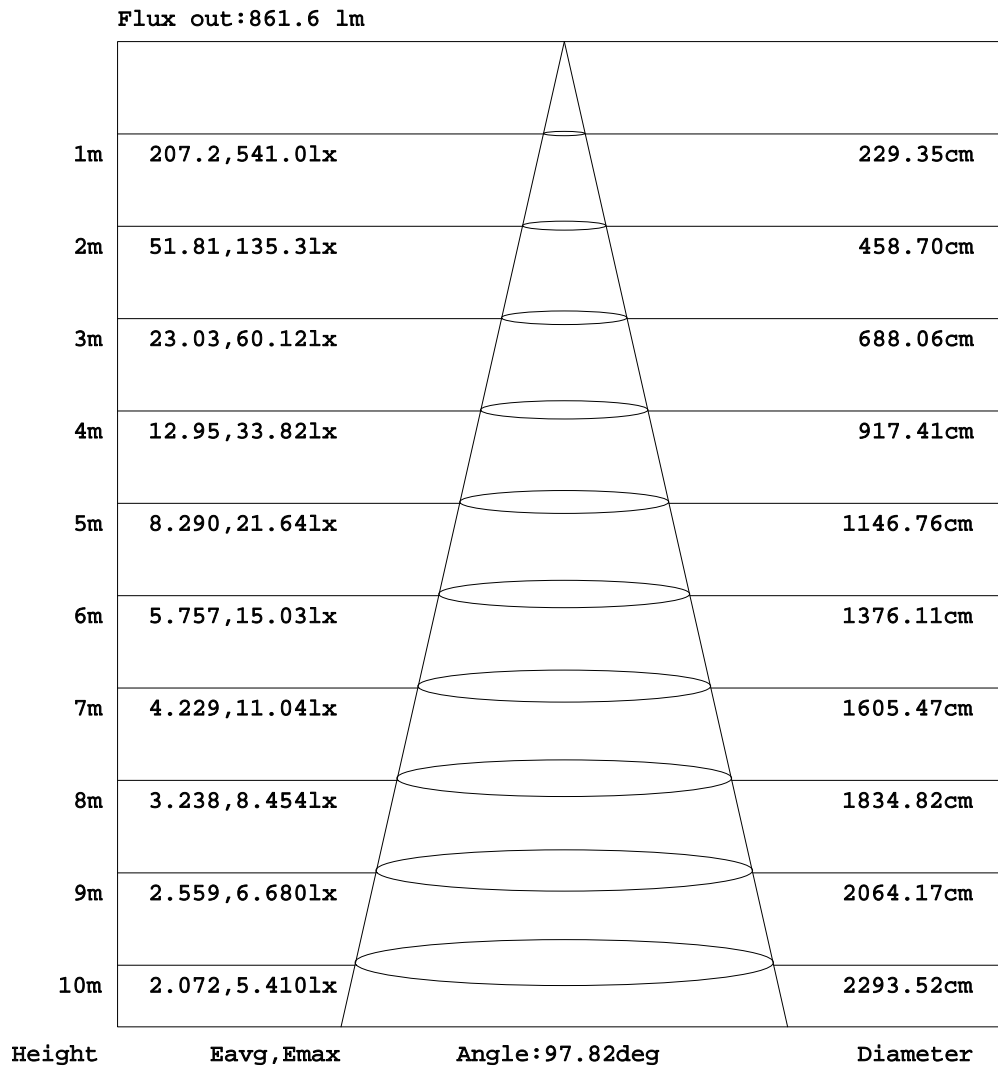


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

AAI Figure

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp



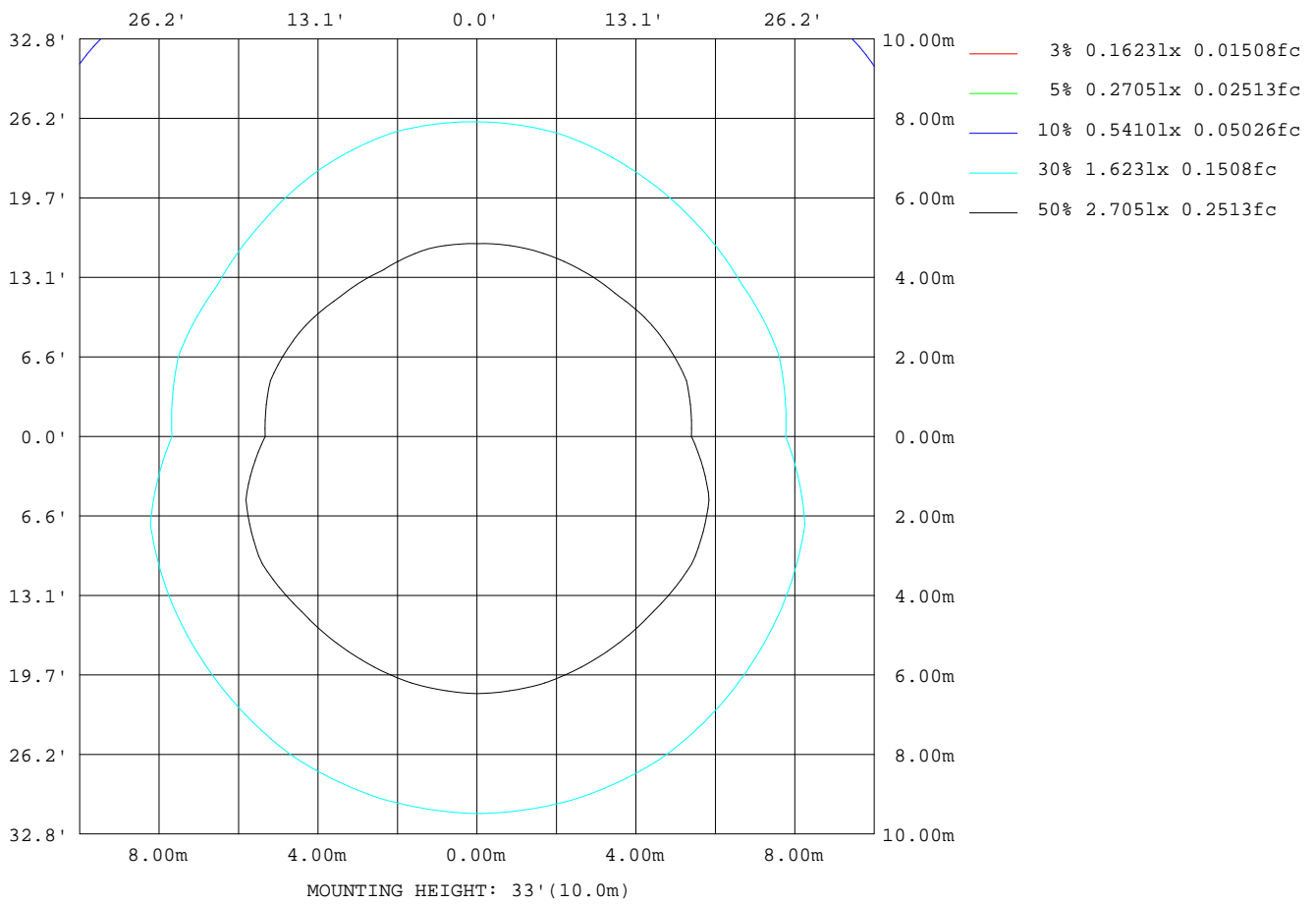
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 27.8DEG
 Operators: Alan Wang
 Test Date: 14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 47.5%
 Test Distance: 2.500m [K=1.0393]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

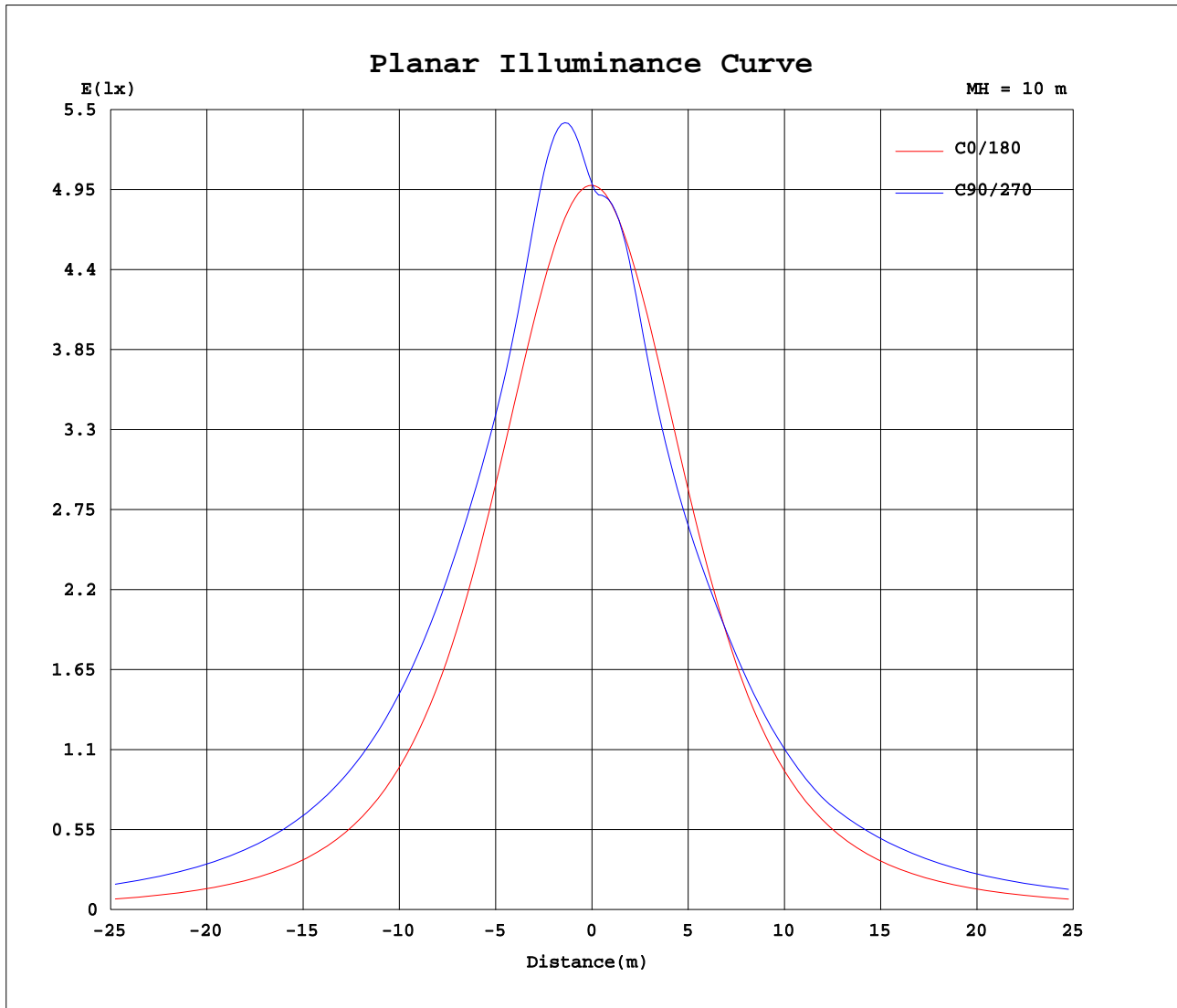
AvgL	cd/m2
L_0~180(65)av	1317
L_0~180(75)av	1573
L_0~180(85)av	3244
L_90~270(65)av	2658
L_90~270(75)av	3931
L_90~270(85)av	10742
L_45(65)av	2437
L_45(75)av	3688
L_45(85)av	10148

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 27.8DEG
 Operators: Alan Wang
 Test Date: 14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity: 47.5%
 Test Distance: 2.500m [K=1.0393]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

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	498	498	499	499	499	499	499	499	500	500	500	500	498	498	499	499	499	499	499
5	495	503	514	525	533	538	540	539	534	527	516	505	494	489	490	491	493	493	494
10	485	504	528	545	555	560	562	561	556	545	528	505	482	479	483	483	481	479	478
15	468	499	529	544	549	550	550	550	550	545	528	499	465	464	465	458	447	439	437
20	446	487	517	524	520	514	512	514	520	525	517	485	442	444	438	420	405	399	399
25	418	466	493	491	483	481	481	481	482	491	493	464	413	417	404	382	373	376	374
30	386	439	461	456	457	463	465	462	456	455	461	437	380	385	367	352	353	363	360
35	351	407	426	428	440	449	451	447	438	426	425	405	344	351	333	330	340	349	347
40	314	373	392	408	425	434	436	432	422	404	390	370	306	315	303	314	325	331	331
45	277	339	364	390	409	418	420	415	405	385	360	336	270	282	280	298	307	311	313
50	241	307	340	373	393	401	402	398	388	367	335	303	235	250	262	280	288	290	293
55	209	277	319	357	377	383	384	380	372	350	314	273	204	220	245	262	272	283	288
60	180	252	301	341	360	365	365	361	355	334	295	247	176	197	228	246	270	278	282
65	154	230	284	325	343	346	345	343	337	318	278	224	151	181	212	243	264	269	272
70	132	211	268	310	327	327	326	324	320	303	262	205	130	163	202	238	254	259	262
75	112	194	252	295	310	310	308	306	304	288	246	188	111	147	198	231	243	248	251
80	94.5	177	237	280	295	294	291	290	289	273	231	172	94.0	133	190	224	239	243	244
85	77.6	162	222	266	281	280	278	277	275	260	217	157	77.6	126	186	222	233	235	236
90	70.2	157	218	264	280	280	278	276	274	257	213	149	68.0	123	184	217	228	229	230
95	79.8	165	228	275	293	294	292	290	286	268	221	156	74.5	118	179	213	225	226	227
100	96.1	178	240	288	308	310	308	306	302	282	234	168	90.1	120	179	212	224	227	228
105	113	191	253	301	323	327	326	324	318	296	247	181	106	125	178	215	229	232	233
110	130	204	265	314	338	344	344	342	334	309	259	194	123	138	182	215	233	239	241
115	149	219	277	327	353	361	363	359	349	322	272	209	142	150	184	219	237	244	246
120	172	237	290	338	366	377	379	375	363	334	285	227	164	165	191	224	243	251	253
125	198	258	305	349	378	390	394	389	375	346	300	247	189	185	204	221	247	257	260
130	227	282	322	360	388	402	407	401	386	357	317	270	217	205	216	233	244	257	263
135	259	309	343	371	397	412	416	410	395	368	337	296	248	224	230	248	254	256	259
140	292	337	369	384	405	419	423	418	403	381	362	324	282	247	246	259	269	273	275
145	325	364	399	402	414	424	428	423	411	399	391	353	315	274	269	272	281	287	290
150	356	388	427	429	428	432	434	431	425	424	418	360	346	306	296	289	293	298	301
155	359	407	449	460	454	450	449	449	450	451	437	380	346	296	321	302	306	309	312
160	345	425	462	481	484	481	478	479	480	473	444	355	331	326	305	310	323	325	325
165	320	429	463	486	498	502	501	499	491	442	364	323	310	311	278	281	287	337	348
170	290	315	440	464	486	492	493	491	442	352	333	304	281	280	273	264	252	243	348
175	316	313	352	394	424	461	461	407	288	330	326	315	315	314	306	285	281	259	168
180	344	340	321	319	312	203	73.1	116	288	314	328	353	342	342	338	325	316	311	246

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3867A P:41.85W PF:0.9019 Freq:60.00Hz Lamp Flux:3619.59x1 lm
NAME:ASD-LWS27A-72D40BK
SPEC.:5000K
MFR.: ASD Lighting Corp

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	499	500	500	500	500														
5	493	493	492	490	491														
10	480	483	485	484	480														
15	441	449	461	469	467														
20	403	409	425	443	447														
25	377	381	388	410	422														
30	358	359	360	373	391														
35	345	338	337	340	357														
40	330	323	315	312	321														
45	312	307	294	287	288														
50	293	289	278	263	257														
55	285	272	262	238	229														
60	280	271	245	224	204														
65	272	266	244	208	180														
70	263	259	241	198	155														
75	253	250	234	195	143														
80	245	243	226	189	129														
85	238	237	223	184	121														
90	232	233	221	182	117														
95	229	229	216	178	114														
100	230	230	218	179	118														
105	236	235	220	181	123														
110	242	239	220	186	136														
115	247	241	224	183	150														
120	252	247	227	193	164														
125	259	251	223	208	179														
130	260	246	238	222	197														
135	259	259	253	237	217														
140	275	274	267	253	242														
145	290	287	282	269	271														
150	301	300	295	287	301														
155	312	311	309	309	312														
160	325	325	327	336	288														
165	347	349	356	350	271														
170	389	391	346	294	273														
175	164	230	265	279	284														
180	150	154	274	312	326														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
 Test Date:14 October 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.416
 Humidity:47.5%
 Test Distance:2.500m [K=1.0393]
 Remarks: