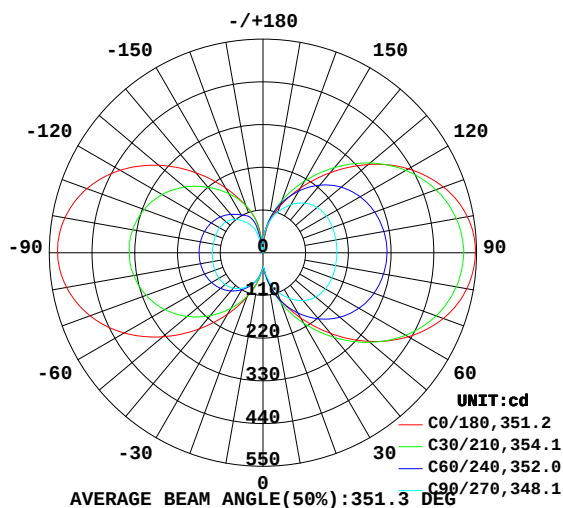


LUMINAIRE PHOTOMETRIC TEST REPORT

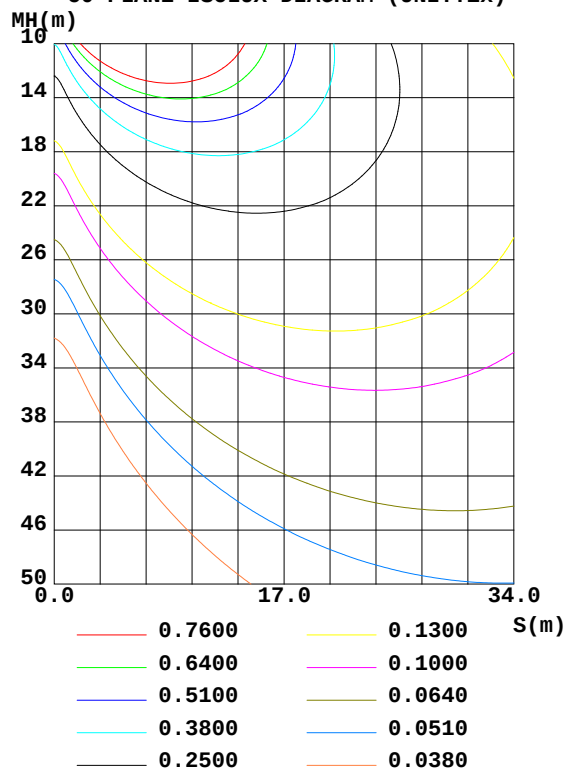
Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:ASD-LWS27N-72D40BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.81 lm/W			
MODEL	ASD-LWS27N-72D40BK	I _{max} (cd)	596.7	S/MH(C0/180)	5.10
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	3.09
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	3245.4	η UP, DN(C0-180)	29.1, 28.7
NOMINAL FLUX(lm)	3245.4	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	21.1, 21.0
LAMPS INSIDE	1	η up(%)	50.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	49.8	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 19 December 2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.9%
Test Distance: 2.500m [K=1.0423]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	75.74	75.61	66.93	72.73	71.57	69.82	65.00	73.94	0- 10	5.419	5.419	0.17,0.17
20	128.4	138.7	105.7	131.4	121.4	105.1	86.58	109.0	10- 20	27.13	32.55	1,1
30	193.2	198.3	135.5	182.6	182.5	136.2	104.9	136.7	20- 30	64.20	96.75	2.98,2.98
40	271.1	253.8	160.7	227.9	256.3	164.3	119.0	162.0	30- 40	114.7	211.4	6.51,6.51
50	355.0	303.3	177.1	266.8	336.7	188.1	127.4	183.6	40- 50	175.0	386.4	11.9,11.9
60	432.6	342.1	185.6	297.9	413.0	206.9	131.1	201.4	50- 60	237.7	624.0	19.2,19.2
70	494.2	369.5	188.9	319.7	474.2	220.5	131.8	214.2	60- 70	294.3	918.4	28.3,28.3
80	532.8	385.6	189.8	332.9	513.4	229.2	131.2	222.7	70- 80	336.9	1255	38.7,38.7
90	546.8	390.9	190.4	338.2	529.0	231.5	130.7	225.6	80- 90	360.1	1615	49.8,49.8
100	534.4	386.6	190.6	334.9	517.9	230.3	130.0	224.8	90-100	361.0	1976	60.9,60.9
110	494.7	370.5	190.8	323.3	482.7	223.6	130.3	218.8	100-110	338.9	2315	71.3,71.3
120	432.4	343.9	188.8	303.4	424.9	211.6	129.0	207.5	110-120	297.3	2613	80.5,80.5
130	353.7	306.2	181.9	274.6	350.6	193.8	124.0	190.7	120-130	241.4	2854	87.9,87.9
140	269.3	258.0	167.1	236.8	268.8	170.7	112.7	168.1	130-140	178.4	3032	93.4,93.4
150	191.9	202.0	142.5	191.4	192.8	145.4	92.61	137.5	140-150	117.2	3150	97,97
160	127.5	143.2	111.4	140.8	128.8	117.8	67.28	100.3	150-160	65.56	3215	99.1,99.1
170	71.58	81.79	75.40	83.52	72.02	47.50	13.23	29.55	160-170	26.49	3242	99.9,99.9
180	0.0000	0.0000	0.0000	0.0000	1.429	1.429	1.429	1.429	170-180	3.745	3245	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 291 lm

%lum = 9.0%

%lamp = 9.0%

Conical surface Flux(120deg): 624.03 lm

%lum = 19.2%

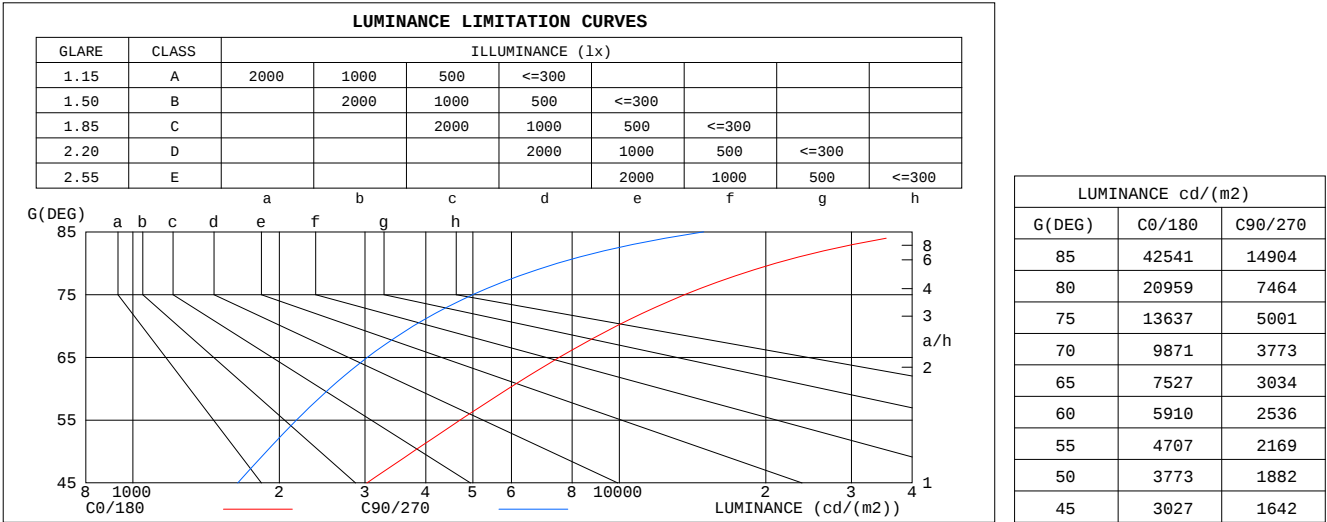
%lamp = 19.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



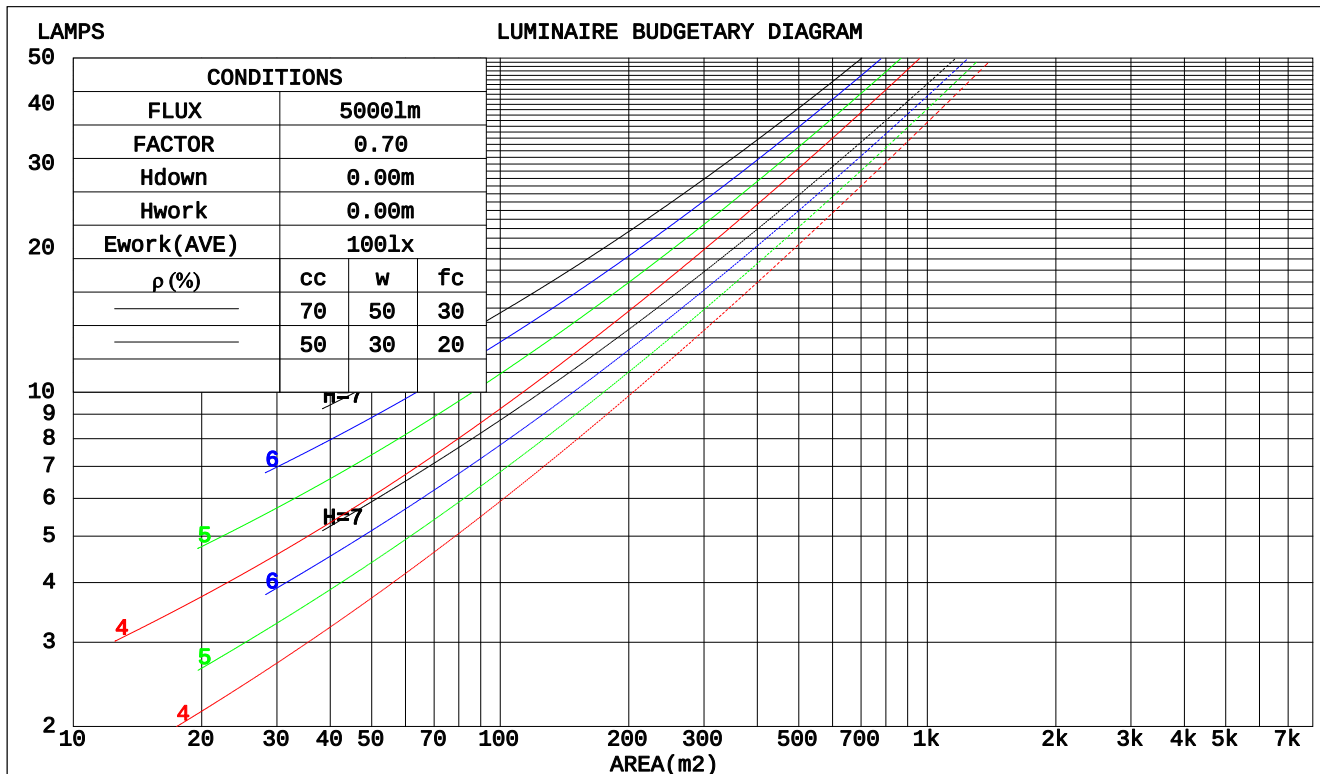
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators:Alan Wang
Test Date:19 December 2023

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.9%
Test Distance:2.500m [K=1.0423]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	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	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.85	.79	.74	.78	.73	.68	.64	.60	.57	.52	.49	.46	.40	.38	.36	.30
2.0	.71	.63	.56	.65	.58	.51	.53	.47	.42	.42	.38	.34	.32	.29	.26	.21
3.0	.61	.51	.44	.55	.47	.40	.45	.39	.33	.36	.31	.26	.27	.23	.20	.15
4.0	.53	.43	.36	.48	.39	.33	.39	.32	.27	.31	.25	.21	.23	.19	.16	.12
5.0	.46	.37	.29	.42	.33	.27	.34	.27	.22	.27	.22	.17	.20	.16	.13	.09
6.0	.41	.32	.25	.37	.29	.23	.30	.24	.19	.24	.19	.14	.18	.14	.10	.07
7.0	.37	.27	.21	.33	.25	.19	.27	.21	.16	.21	.16	.12	.16	.12	.09	.06
8.0	.33	.24	.18	.30	.22	.17	.25	.18	.14	.19	.14	.11	.15	.11	.08	.05
9.0	.30	.21	.16	.27	.20	.14	.22	.16	.12	.18	.13	.09	.13	.09	.07	.04
10.0	.27	.19	.14	.25	.18	.13	.20	.14	.10	.16	.11	.08	.12	.09	.06	.04



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm					
NAME:			TYPE:LED		WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K			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	.435	.247	.078	.412	.235	.075	.370	.212	.068	.331	.191	.061	.295	.171	.055	
2.0	.358	.196	.060	.338	.186	.057	.299	.166	.052	.263	.148	.046	.230	.130	.041	
3.0	.310	.165	.049	.291	.156	.047	.256	.139	.042	.223	.122	.037	.193	.107	.033	
4.0	.274	.143	.042	.257	.135	.040	.225	.119	.036	.195	.104	.032	.166	.090	.028	
5.0	.246	.126	.036	.231	.118	.034	.201	.105	.031	.173	.091	.027	.147	.079	.024	
6.0	.224	.112	.032	.209	.106	.030	.182	.093	.027	.156	.081	.024	.132	.069	.021	
7.0	.205	.101	.029	.192	.095	.027	.166	.084	.024	.142	.073	.021	.120	.062	.018	
8.0	.189	.092	.026	.177	.087	.025	.153	.076	.022	.131	.066	.019	.110	.056	.016	
9.0	.175	.085	.024	.164	.080	.022	.142	.070	.020	.121	.061	.017	.101	.052	.015	
10.0	.164	.078	.022	.153	.074	.021	.132	.065	.018	.113	.056	.016	.094	.047	.014	

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	.573	.573	.573	.490	.490	.490	.334	.334	.334	.192	.192	.192	.061	.061	.061	
1.0	.575	.541	.510	.492	.464	.439	.336	.319	.304	.194	.185	.177	.062	.059	.057	
2.0	.570	.520	.478	.488	.448	.414	.334	.310	.288	.193	.180	.169	.062	.058	.055	
3.0	.563	.505	.459	.482	.436	.398	.331	.303	.279	.191	.177	.165	.061	.057	.054	
4.0	.555	.494	.447	.476	.427	.388	.328	.297	.273	.190	.174	.162	.061	.057	.053	
5.0	.548	.485	.438	.470	.419	.381	.324	.293	.269	.188	.172	.160	.060	.056	.053	
6.0	.541	.478	.432	.465	.414	.377	.321	.290	.266	.186	.170	.158	.060	.056	.052	
7.0	.534	.472	.428	.459	.409	.373	.317	.287	.264	.184	.169	.157	.060	.055	.052	
8.0	.527	.466	.425	.454	.405	.370	.314	.284	.263	.183	.168	.157	.059	.055	.052	
9.0	.521	.462	.422	.449	.401	.368	.311	.282	.262	.181	.166	.156	.059	.055	.052	
10.0	.515	.458	.420	.444	.398	.367	.308	.280	.261	.180	.165	.155	.058	.054	.052	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm											
NAME:					TYPE:LED			WEIGHT:			
SPEC.:ASD-LWS27N-72D40BK_5000K					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		16.9	18.1	17.8	19.0	20.1	13.0	14.1	13.8	15.0	16.2
	3H	20.9	22.0	21.8	22.9	24.1	15.9	16.9	16.8	17.8	19.0
	4H	23.1	24.1	24.0	25.0	26.2	17.5	18.4	18.4	19.4	20.6
	6H	25.4	26.3	26.3	27.2	28.5	19.3	20.2	20.2	21.1	22.4
	8H	26.6	27.5	27.5	28.4	29.7	20.3	21.2	21.2	22.1	23.4
	12H	28.0	28.8	28.9	29.8	31.0	21.4	22.3	22.4	23.2	24.5
4H	2H	17.6	18.6	18.5	19.5	20.7	15.1	16.1	16.0	17.0	18.2
	3H	21.8	22.7	22.8	23.6	24.9	18.0	18.8	18.9	19.8	21.1
	4H	24.2	25.0	25.2	26.0	27.2	19.7	20.4	20.6	21.4	22.7
	6H	26.8	27.4	27.7	28.4	29.7	21.4	22.1	22.4	23.1	24.4
	8H	28.1	28.8	29.1	29.8	31.1	22.4	23.1	23.4	24.1	25.4
	12H	29.6	30.2	30.6	31.2	32.5	23.6	24.2	24.5	25.2	26.5
8H	4H	24.6	25.2	25.6	26.2	27.6	21.3	21.9	22.3	22.9	24.3
	6H	27.5	28.0	28.5	29.1	30.4	23.3	23.9	24.3	24.9	26.2
	8H	29.1	29.6	30.1	30.6	32.0	24.4	24.9	25.4	26.0	27.3
	12H	30.9	31.4	32.0	32.4	33.8	25.7	26.1	26.7	27.2	28.5
12H	4H	24.6	25.2	25.6	26.3	27.6	21.9	22.5	22.9	23.5	24.9
	6H	27.6	28.1	28.6	29.2	30.5	24.1	24.6	25.1	25.6	27.0
	8H	29.4	29.8	30.4	30.9	32.2	25.3	25.8	26.4	26.8	28.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.3 / - 0.3					+ 0.2 / - 0.2				
2.0H		+ 0.4 / - 0.5					+ 0.3 / - 0.4				

CIE Pub.117, 3245 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.1$)
Area: 0.1464 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.9%
Test Distance: 2.500m [K=1.0423]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

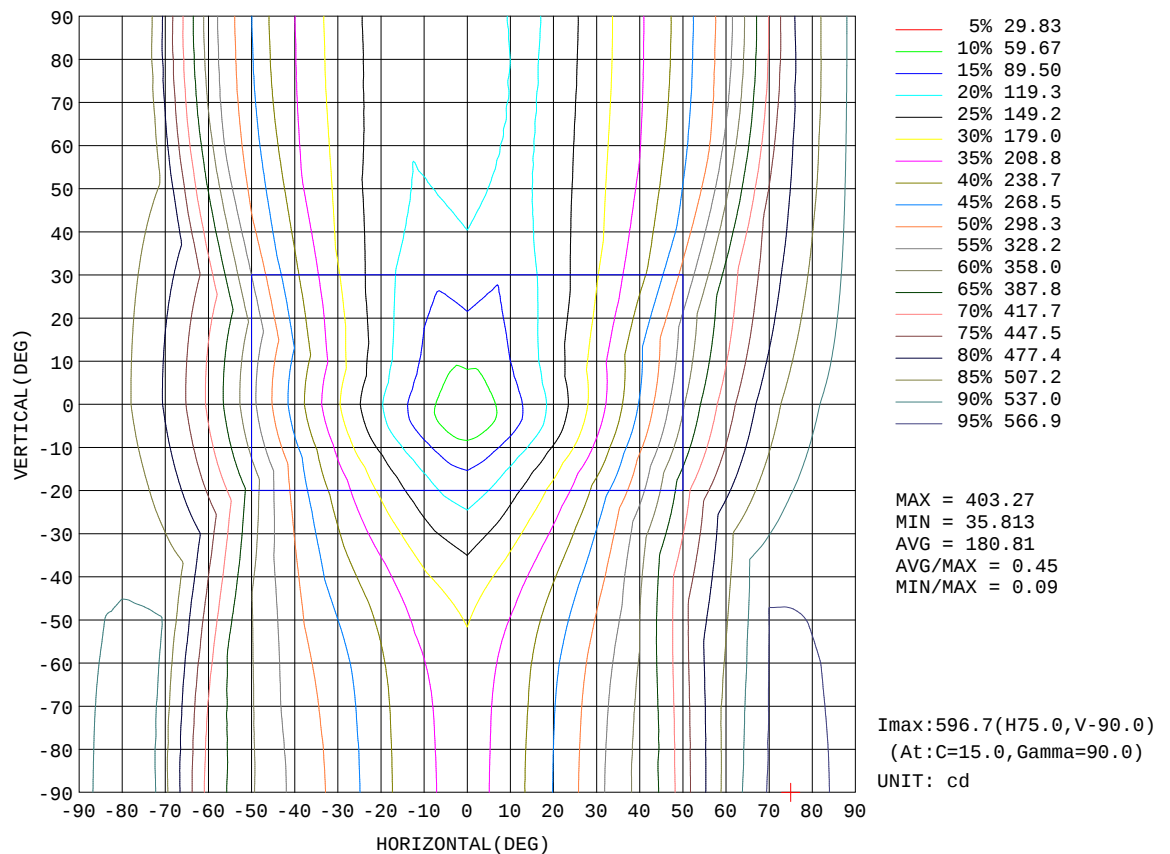
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	34	21	14	32	20	13	29	18	12	4
0.80	42	28	19	40	26	18	35	24	16	7
1.00	49	35	25	46	33	24	40	31	21	10
1.25	56	41	31	52	39	30	45	34	26	12
1.50	62	47	37	57	44	35	49	38	30	15
2.00	69	56	46	64	52	43	54	45	37	19
2.50	75	62	52	69	58	49	58	49	42	22
3.00	79	67	58	73	62	54	61	53	46	24
4.00	84	74	66	78	69	61	65	58	52	28
5.00	88	79	71	81	73	66	68	62	56	31
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: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

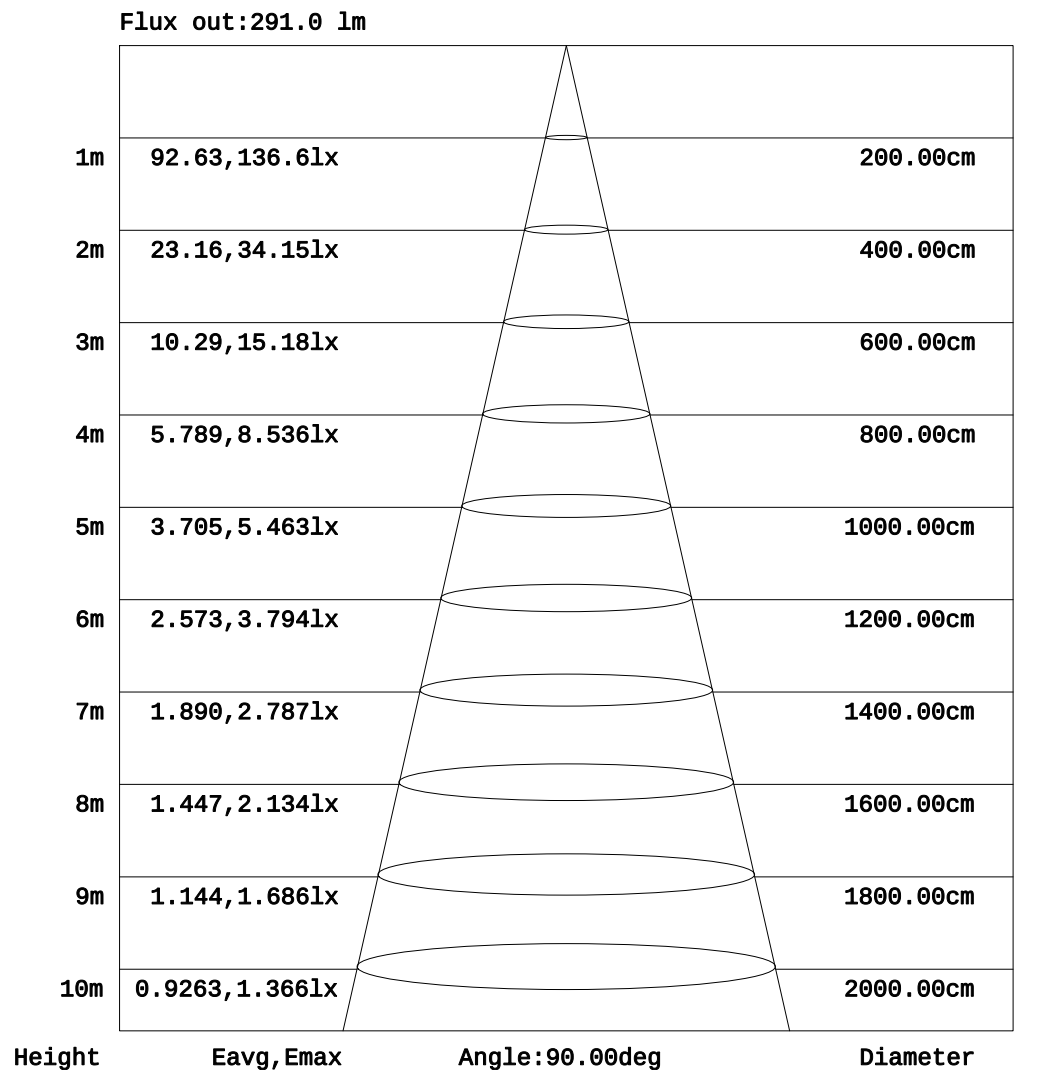


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

AAI Figure

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



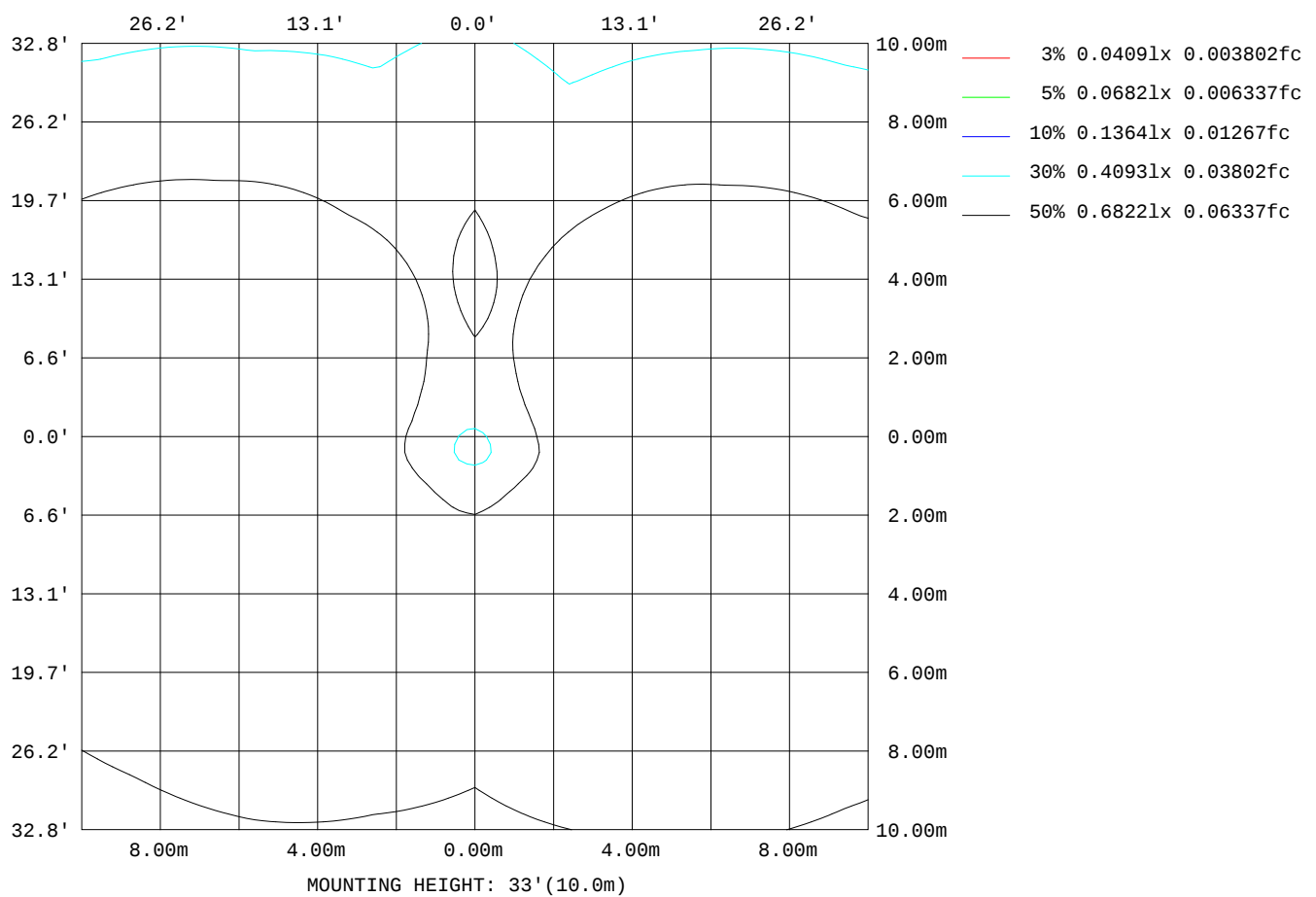
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators:Alan Wang
 Test Date:19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance:2.500m [K=1.0423]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

LED Avg.L Report

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

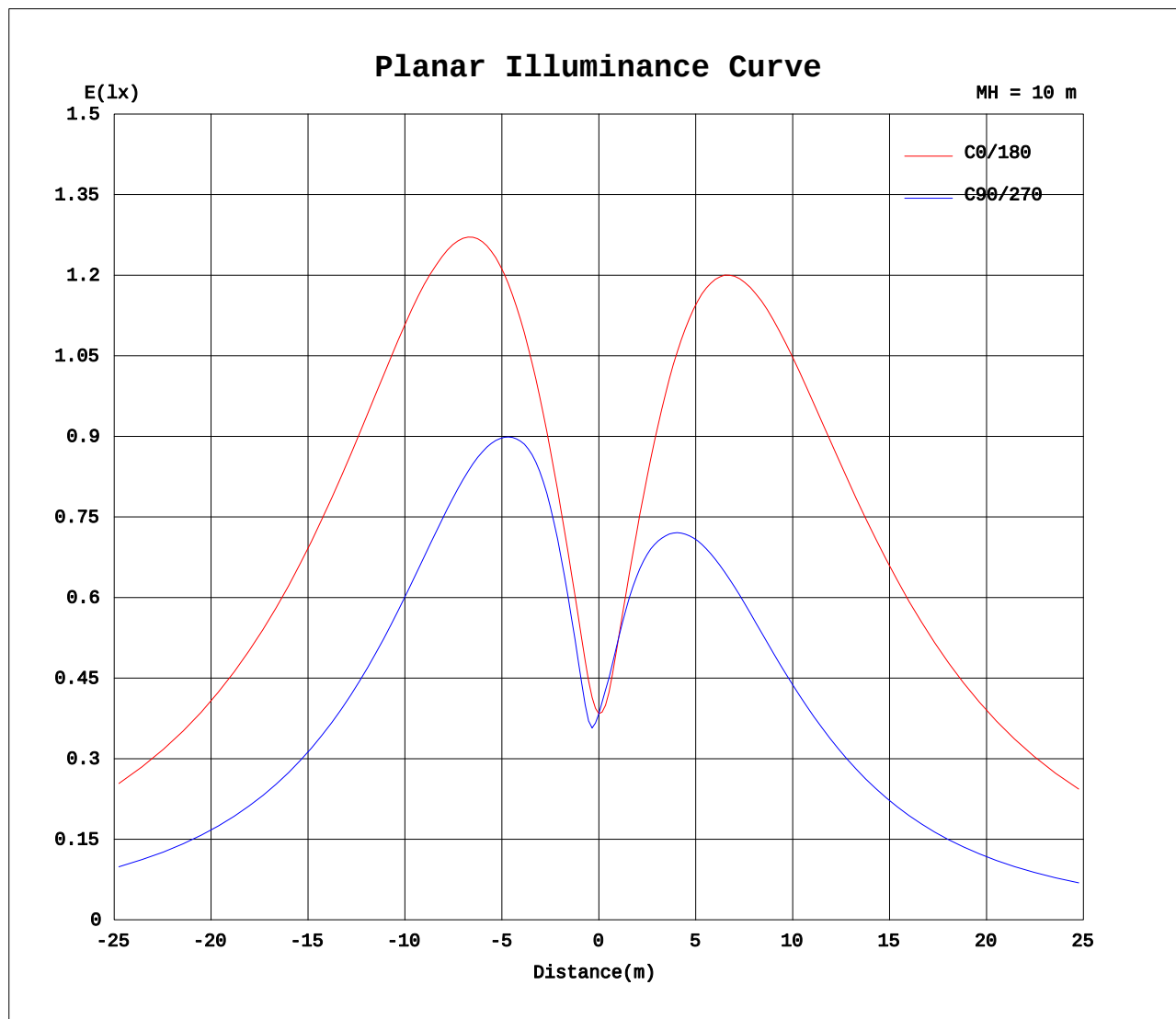
AvgL	cd/m2
L_0~180(65)av	7368
L_0~180(75)av	13372
L_0~180(85)av	41825
L_90~270(65)av	2581
L_90~270(75)av	4236
L_90~270(85)av	12579
L_45(65)av	4403
L_45(75)av	7591
L_45(85)av	23199

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.8DEG
Operators: Alan Wang
Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.9%
Test Distance: 2.500m [K=1.0423]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	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	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
5	52.8	50.9	48.4	47.1	46.2	45.2	44.5	44.4	44.6	45.1	45.9	47.7	49.9	51.5	51.7	50.8	49.7	49.7	50.9
10	75.7	72.9	73.8	75.6	74.3	70.3	66.9	68.0	71.2	72.7	71.2	69.5	71.6	74.2	73.6	69.8	64.3	60.9	65.0
15	101	99.7	105	107	104	95.6	88.1	91.8	98.9	103	101	95.7	95.2	98.8	96.1	88.1	77.5	70.3	76.6
20	128	131	138	139	131	118	106	113	124	131	131	125	121	125	119	105	88.9	78.1	86.6
25	159	165	173	169	155	137	121	131	146	158	163	157	150	154	142	121	99.6	86.0	96.1
30	193	203	209	198	179	156	135	148	167	183	194	192	182	185	165	136	110	93.3	105
35	231	244	246	227	201	173	149	165	187	206	224	229	218	219	188	151	120	100	113
40	271	288	284	254	222	189	161	179	206	228	253	269	256	255	211	164	128	106	119
45	313	334	322	279	241	202	170	192	223	248	281	312	296	293	234	177	136	111	124
50	355	379	359	303	258	213	177	202	237	267	307	354	337	333	255	188	143	115	127
55	395	424	393	324	273	222	182	210	250	283	330	396	376	371	275	198	149	119	130
60	433	465	425	342	286	229	186	216	260	298	351	436	413	408	292	207	153	120	131
65	466	503	452	357	296	235	188	221	269	310	368	472	446	442	308	214	157	122	132
70	494	535	475	369	304	238	189	224	276	320	382	503	474	471	320	221	160	123	132
75	517	561	492	379	311	241	189	226	281	327	394	528	497	496	330	225	162	124	132
80	533	579	506	386	315	243	190	228	285	333	401	546	513	513	337	229	164	124	131
85	543	590	513	391	318	244	190	229	288	337	407	558	525	524	343	231	165	124	131
90	547	597	517	391	319	245	190	229	289	338	407	566	529	532	344	231	165	124	131
95	544	591	513	391	319	244	191	230	288	338	408	560	527	526	345	232	164	124	130
100	534	580	506	387	316	244	191	229	287	335	403	550	518	517	340	230	163	124	130
105	518	562	492	380	312	242	191	228	284	330	396	534	503	501	335	228	162	123	130
110	495	535	474	370	306	240	191	227	279	323	386	509	483	479	326	224	160	122	130
115	466	504	451	358	299	237	190	224	274	314	373	480	456	451	314	218	158	121	130
120	432	466	424	344	289	232	189	221	266	303	357	446	425	418	300	212	154	119	129
125	395	425	394	326	277	226	186	215	256	290	338	407	389	381	283	203	149	116	127
130	354	380	360	306	263	218	182	208	245	275	316	366	351	344	263	194	144	112	124
135	311	334	324	283	246	207	176	199	231	257	291	324	310	305	243	183	137	108	119
140	269	289	286	258	227	194	167	187	214	237	263	282	269	265	220	171	129	102	113
145	229	245	249	231	206	179	156	173	196	215	234	242	230	229	198	158	121	94.5	103
150	192	204	213	202	183	161	143	157	176	191	204	204	193	194	176	145	113	84.5	92.6
155	158	167	177	173	160	142	127	139	154	167	174	169	159	162	153	133	106	80.4	80.2
160	127	133	143	143	135	122	111	120	132	141	143	136	129	131	129	118	97.5	75.4	67.3
165	99.7	102	110	113	109	101	94.8	100	108	113	112	106	102	103	102	94.6	78.7	50.5	36.2
170	71.6	74.5	79.2	81.8	80.9	77.6	75.4	77.8	81.6	83.5	82.0	77.1	72.0	69.9	61.7	47.5	34.7	23.5	13.2
175	28.9	40.3	48.3	52.1	53.0	53.0	53.1	53.6	54.0	53.3	48.4	37.6	18.9	20.4	17.9	11.2	5.37	2.07	0.12
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	1.43	1.43	1.43	1.43	1.43	1.43

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 24.8DEG

Operators: Alan Wang

Test Date: 19 December 2023

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416

Humidity: 41.9%

Test Distance: 2.500m [K=1.0423]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.3421A P:40.16W PF:0.9783 Freq:60.00Hz Lamp Flux:3245.4x1 lm		
NAME:	TYPE:LED	WEIGHT:
SPEC.:ASD-LWS27N-72D40BK_5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	38.4	38.4	38.4	38.4	38.4													
5	50.8	52.3	54.0	54.9	54.4													
10	62.7	68.1	73.9	77.5	78.0													
15	71.7	81.6	92.5	100	103													
20	78.7	93.0	109	123	130													
25	85.3	103	124	144	158													
30	90.9	112	137	164	187													
35	96.4	121	149	183	218													
40	101	130	162	203	252													
45	104	137	173	221	287													
50	108	143	184	238	319													
55	110	149	193	254	351													
60	111	153	201	269	381													
65	112	156	208	281	408													
70	113	159	214	292	431													
75	113	161	219	300	449													
80	114	163	223	307	461													
85	113	163	225	312	468													
90	112	164	226	312	473													
95	113	164	226	313	470													
100	113	163	225	310	462													
105	112	162	222	305	448													
110	112	161	219	297	429													
115	112	159	214	288	405													
120	111	156	207	275	379													
125	110	151	200	261	349													
130	107	146	191	245	318													
135	102	140	180	227	284													
140	97.0	131	168	208	249													
145	91.5	121	154	186	216													
150	84.9	109	137	164	184													
155	78.8	95.2	119	140	153													
160	70.5	79.8	100	117	125													
165	40.7	48.8	76.1	91.9	99.3													
170	14.3	18.7	29.6	42.7	60.2													
175	0.63	1.31	3.74	8.95	17.7													
180	1.43	1.43	1.43	1.43	1.43													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.8DEG
 Operators: Alan Wang
 Test Date: 19 December 2023

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.9%
 Test Distance: 2.500m [K=1.0423]
 Remarks: