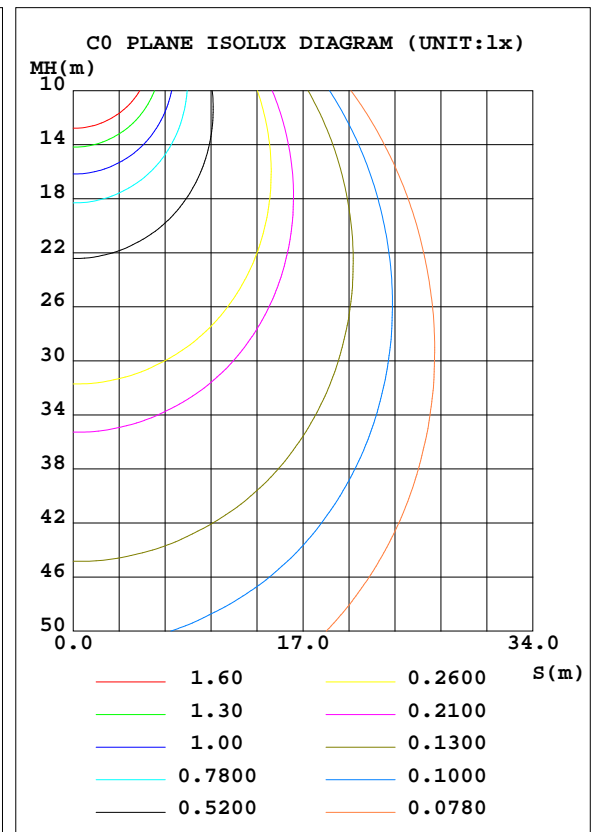
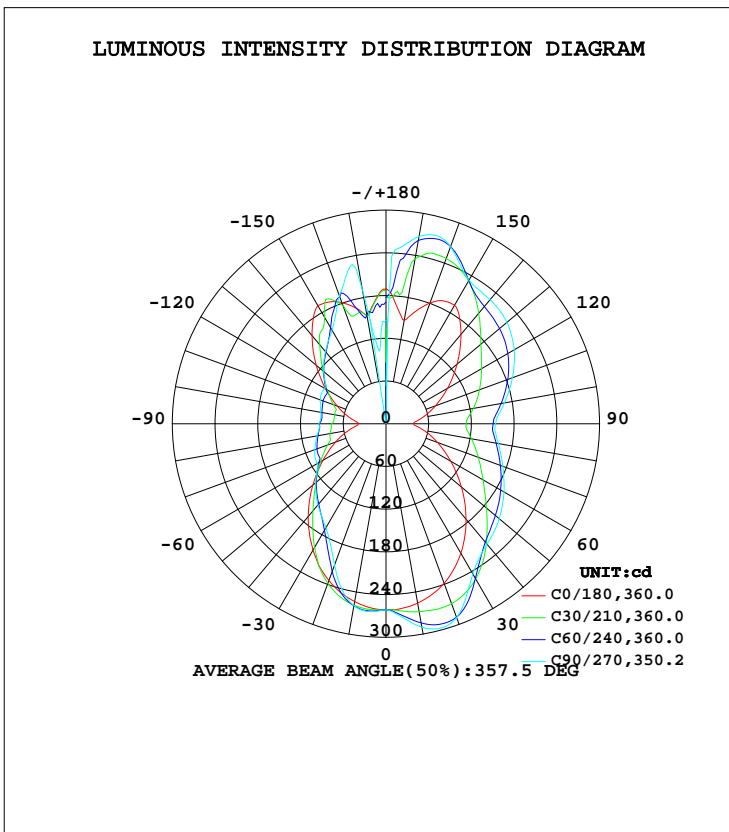


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.16 lm/W			
MODEL	ASD-LWS27C-36D30BK	I <sub>max</sub> (cd)	297.0	S/MH(C0/180)	1.18
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.98
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	1855.7	η UP, DN(C0-180)	29.5,30.0
NOMINAL FLUX(lm)	1855.67	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	18.9,21.6
LAMPS INSIDE	1	η up(%)	48.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	51.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	255.9	276.7	289.9	277.2	253.6	260.1	259.4	261.6	0- 10	25.36	25.36	1.37,1.37
20	238.7	282.6	289.9	281.1	234.4	231.1	211.1	234.9	10- 20	73.90	99.26	5.35,5.35
30	210.2	258.0	244.0	255.0	205.0	183.3	168.9	187.3	20- 30	107.8	207.1	11.2,11.2
40	175.1	217.9	220.8	214.7	170.0	149.2	148.6	153.0	30- 40	124.8	331.9	17.9,17.9
50	138.2	191.8	207.6	190.6	134.1	127.0	129.0	130.8	40- 50	132.4	464.3	25,25
60	105.0	174.6	191.4	175.0	102.2	108.3	111.6	111.0	50- 60	132.3	596.7	32.2,32.2
70	77.07	159.9	174.7	160.7	75.44	96.26	106.4	98.37	60- 70	127.7	724.4	39,39
80	54.04	146.0	160.2	147.7	53.28	92.32	98.54	92.69	70- 80	120.9	845.2	45.5,45.5
90	38.76	138.7	154.1	141.2	39.11	89.26	94.17	89.31	80- 90	112.6	957.9	51.6,51.6
100	52.53	151.2	168.7	154.4	52.56	86.11	92.98	85.06	90-100	112.3	1070	57.7,57.7
110	73.96	167.0	188.9	171.0	72.88	86.39	98.09	85.90	100-110	119.8	1190	64.1,64.1
120	99.93	180.2	207.9	185.1	97.79	96.74	99.37	95.03	110-120	125.4	1315	70.9,70.9
130	130.3	191.3	221.7	196.2	127.9	113.0	114.2	113.3	120-130	127.6	1443	77.8,77.8
140	163.9	205.7	227.4	209.1	161.7	132.8	132.4	133.5	130-140	124.7	1568	84.5,84.5
150	192.4	235.8	233.2	237.4	191.6	166.1	151.9	164.6	140-150	114.9	1682	90.7,90.7
160	180.4	260.3	264.9	257.1	181.1	185.3	191.6	201.9	150-160	95.64	1778	95.8,95.8
170	147.5	246.8	267.0	188.3	154.3	157.0	191.7	207.7	160-170	60.14	1838	99.1,99.1
180	190.0	171.5	54.27	172.5	188.7	179.4	144.7	150.4	170-180	17.43	1856	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 397.67 lm

%lum = 21.4%

%lamp = 21.4%

Conical surface Flux(120deg): 596.67 lm

%lum = 32.2%

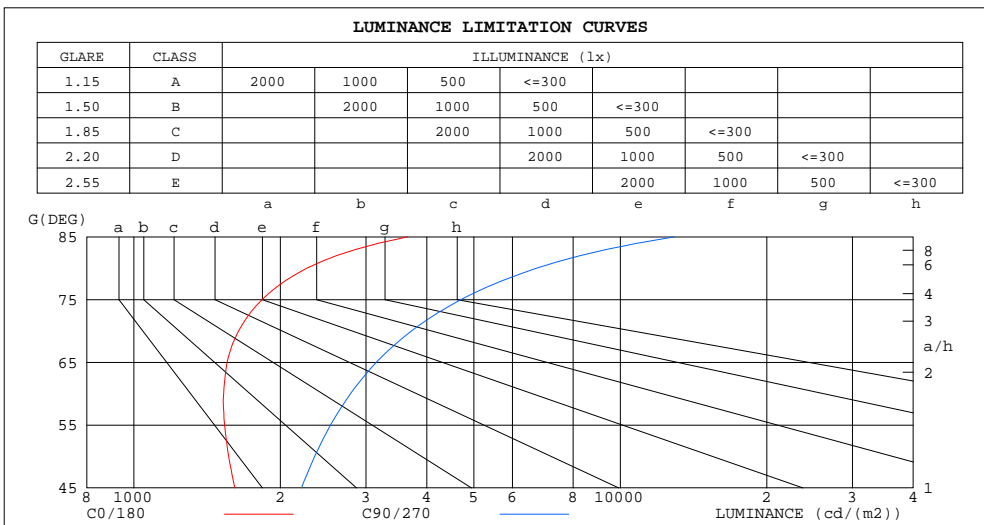
%lamp = 32.2%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3655	12918
80	2267	6721
75	1834	4702
70	1642	3721
65	1555	3150
60	1530	2789
55	1537	2536
50	1566	2353
45	1613	2210

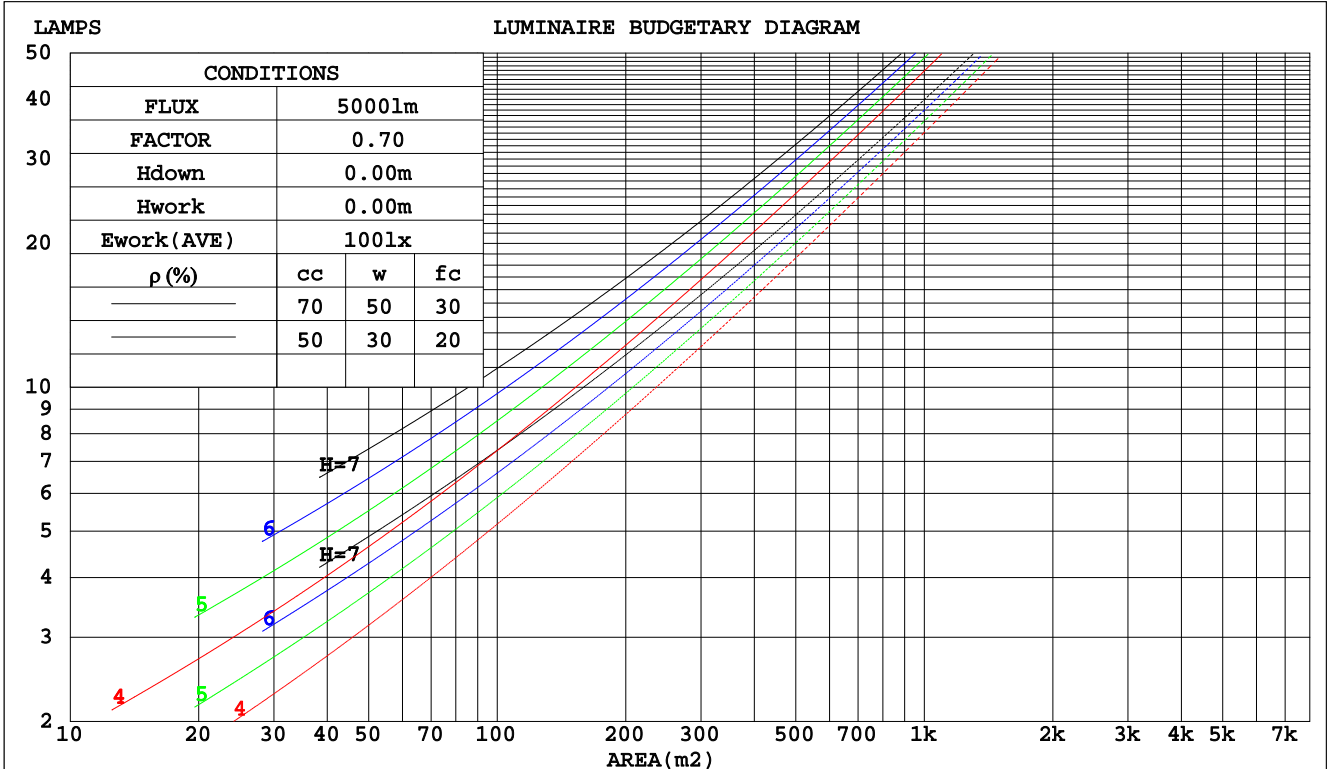
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	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																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.08	1.08	1.08	.99	.99	.99	.84	.84	.84	.70	.70	.70	.58	.58	.58	.52
1.0	.90	.85	.81	.83	.79	.75	.70	.67	.64	.58	.55	.53	.47	.45	.43	.38
2.0	.77	.70	.64	.71	.65	.60	.60	.55	.51	.50	.46	.43	.40	.37	.35	.30
3.0	.67	.59	.53	.62	.55	.49	.52	.47	.42	.43	.39	.35	.35	.32	.29	.25
4.0	.59	.51	.44	.55	.47	.41	.46	.40	.35	.38	.34	.30	.31	.27	.24	.21
5.0	.53	.44	.37	.49	.41	.35	.41	.35	.30	.34	.29	.26	.28	.24	.21	.18
6.0	.47	.38	.32	.44	.36	.30	.37	.31	.26	.31	.26	.22	.25	.21	.18	.15
7.0	.42	.34	.28	.39	.32	.26	.33	.27	.23	.28	.23	.20	.23	.19	.16	.14
8.0	.38	.30	.25	.36	.28	.23	.30	.25	.20	.26	.21	.17	.21	.17	.14	.12
9.0	.35	.27	.22	.33	.26	.21	.28	.22	.18	.23	.19	.16	.19	.16	.13	.11
10.0	.32	.25	.20	.30	.23	.19	.26	.20	.16	.22	.17	.14	.18	.14	.12	.10



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

WEC AND CCEC

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	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	.353	.201	.064	.331	.189	.060	.290	.166	.053	.253	.146	.047	.218	.126	.041	
2.0	.305	.167	.051	.285	.157	.048	.248	.138	.043	.214	.120	.037	.182	.103	.032	
3.0	.272	.144	.043	.253	.136	.041	.219	.119	.036	.188	.103	.032	.159	.088	.027	
4.0	.245	.127	.037	.229	.120	.035	.197	.105	.031	.168	.090	.027	.141	.077	.023	
5.0	.224	.114	.033	.208	.107	.031	.180	.094	.028	.153	.081	.024	.128	.068	.021	
6.0	.206	.103	.029	.192	.097	.028	.165	.085	.025	.140	.073	.021	.117	.062	.018	
7.0	.190	.094	.027	.177	.088	.025	.153	.077	.022	.130	.066	.019	.108	.056	.016	
8.0	.177	.086	.024	.165	.081	.023	.142	.071	.020	.120	.061	.018	.100	.052	.015	
9.0	.165	.080	.022	.154	.075	.021	.133	.066	.019	.113	.056	.016	.094	.048	.014	
10.0	.155	.074	.021	.144	.070	.019	.124	.061	.017	.106	.052	.015	.088	.044	.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	.559	.559	.559	.478	.478	.478	.326	.326	.326	.187	.187	.187	.060	.060	.060	
1.0	.555	.527	.503	.475	.453	.433	.325	.311	.299	.187	.180	.174	.060	.058	.056	
2.0	.548	.506	.471	.469	.436	.407	.322	.301	.284	.186	.175	.166	.060	.057	.054	
3.0	.541	.490	.450	.464	.423	.390	.318	.294	.274	.184	.172	.161	.059	.056	.053	
4.0	.534	.479	.437	.458	.414	.379	.315	.288	.267	.182	.169	.158	.059	.055	.052	
5.0	.527	.469	.427	.452	.406	.372	.312	.284	.263	.180	.167	.156	.058	.054	.051	
6.0	.520	.462	.421	.447	.400	.366	.308	.280	.259	.179	.165	.154	.058	.054	.051	
7.0	.513	.456	.416	.442	.395	.362	.305	.277	.257	.177	.163	.153	.057	.053	.051	
8.0	.507	.451	.412	.437	.391	.359	.302	.274	.255	.176	.162	.152	.057	.053	.050	
9.0	.501	.446	.409	.432	.387	.357	.299	.272	.253	.174	.161	.151	.056	.053	.050	
10.0	.496	.442	.407	.428	.384	.355	.297	.270	.252	.173	.160	.150	.056	.052	.050	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.: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	11.8	12.8	12.6	13.7	14.8	13.7	14.7	14.5	15.5	16.6
3H	13.6	14.6	14.5	15.5	16.6	16.4	17.4	17.3	18.2	19.4
4H	14.6	15.5	15.5	16.4	17.5	18.0	18.9	18.9	19.8	20.9
6H	15.5	16.4	16.4	17.3	18.4	19.8	20.6	20.7	21.5	22.7
8H	16.0	16.8	16.9	17.7	18.9	20.7	21.5	21.7	22.4	23.6
12H	16.5	17.3	17.5	18.2	19.4	21.9	22.6	22.8	23.6	24.8
4H 2H	13.1	13.9	13.9	14.8	16.0	14.3	15.2	15.2	16.1	17.2
3H	15.3	16.0	16.2	16.9	18.1	17.3	18.1	18.3	19.0	20.2
4H	16.4	17.1	17.4	18.1	19.3	19.1	19.8	20.0	20.7	21.9
6H	17.6	18.2	18.6	19.2	20.4	21.0	21.6	22.0	22.6	23.9
8H	18.2	18.8	19.2	19.7	21.0	22.1	22.7	23.1	23.7	24.9
12H	18.8	19.3	19.8	20.3	21.6	23.4	23.9	24.4	24.9	26.2
8H 4H	17.6	18.2	18.6	19.1	20.4	19.6	20.1	20.5	21.1	22.4
6H	19.2	19.7	20.2	20.7	22.0	21.8	22.3	22.8	23.3	24.6
8H	20.1	20.5	21.1	21.5	22.8	23.2	23.6	24.2	24.6	25.9
12H	20.9	21.3	21.9	22.3	23.6	24.7	25.0	25.7	26.0	27.4
12H 4H	17.9	18.5	18.9	19.4	20.7	19.7	20.2	20.6	21.2	22.4
6H	19.8	20.2	20.8	21.2	22.5	22.1	22.5	23.0	23.5	24.8
8H	20.8	21.2	21.8	22.2	23.5	23.5	23.8	24.5	24.9	26.2
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, 1856 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.1)  
 Area: 0.13725 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

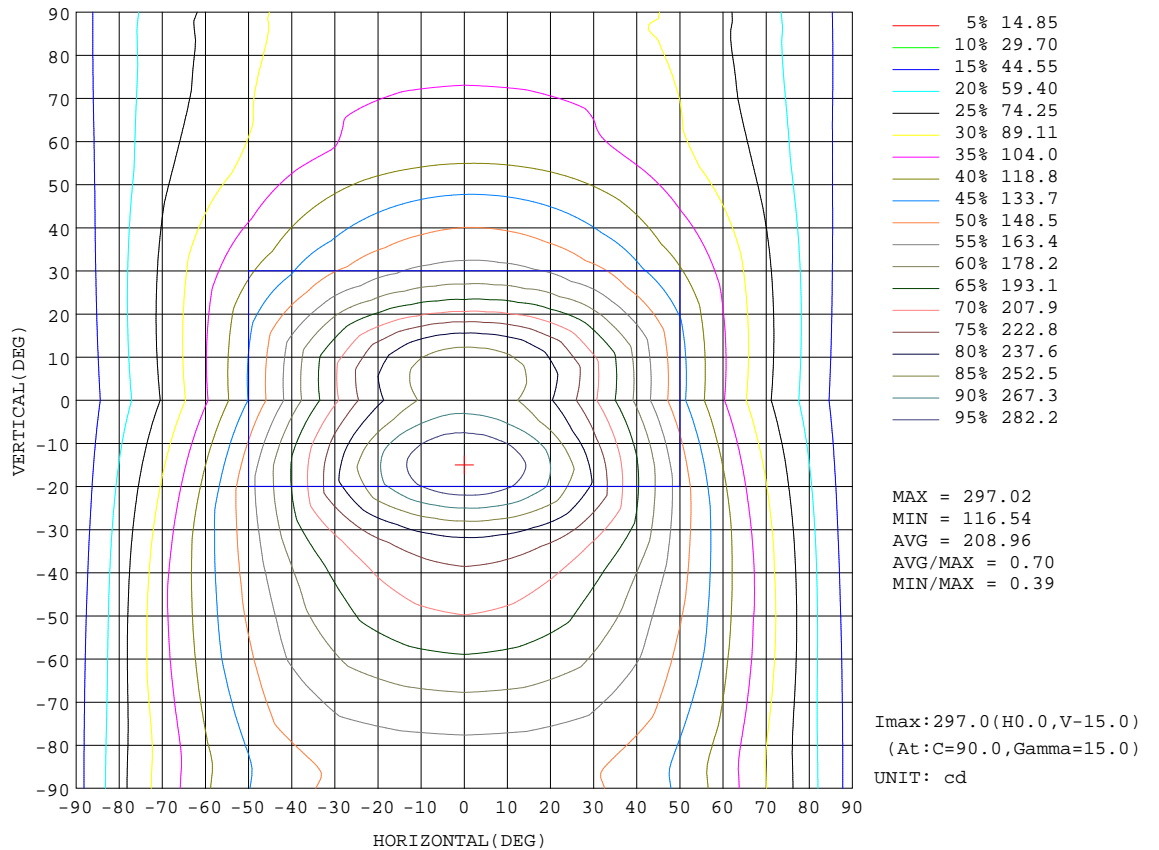
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	41	29	23	39	28	22	35	26	20	13
0.80	50	37	30	47	36	28	42	32	26	17
1.00	57	44	36	54	42	35	47	39	32	20
1.25	64	51	43	60	48	41	52	43	37	23
1.50	69	57	48	64	53	46	56	47	41	26
2.00	76	65	57	71	61	54	61	53	47	30
2.50	81	71	63	75	66	59	64	57	52	32
3.00	85	75	68	78	70	64	67	61	56	34
4.00	89	81	75	83	76	70	70	65	61	37
5.00	93	86	80	86	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: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

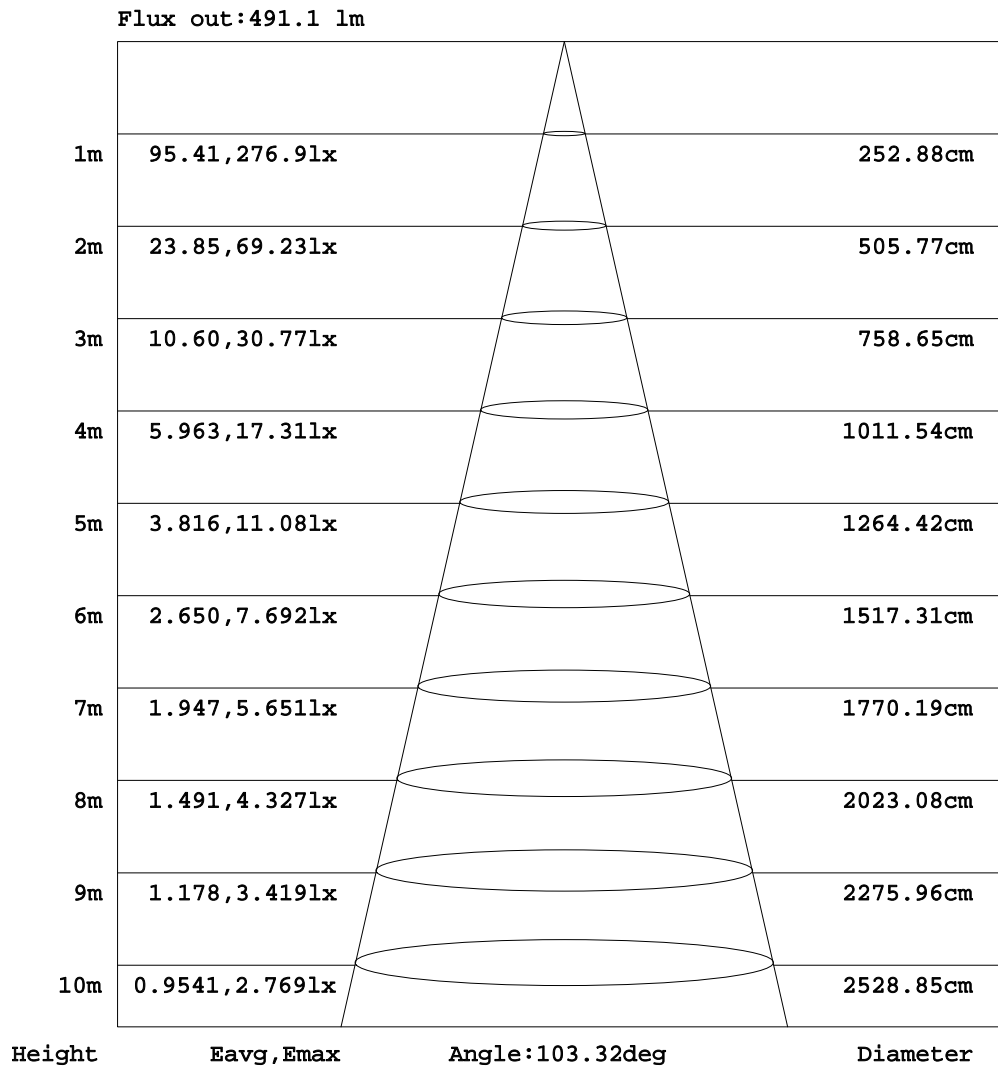


C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

AAI Figure

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



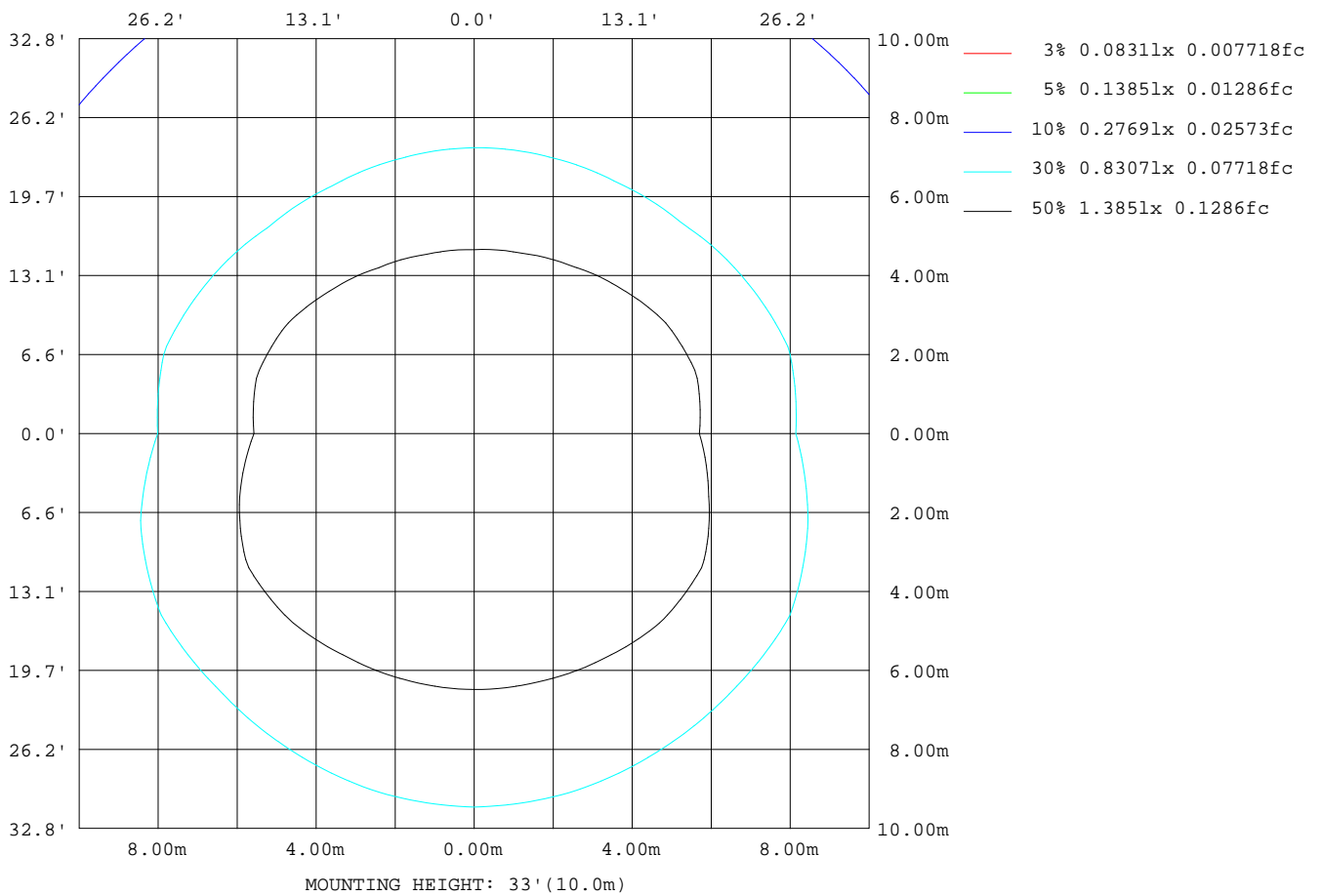
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

## LED Avg.L Report

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

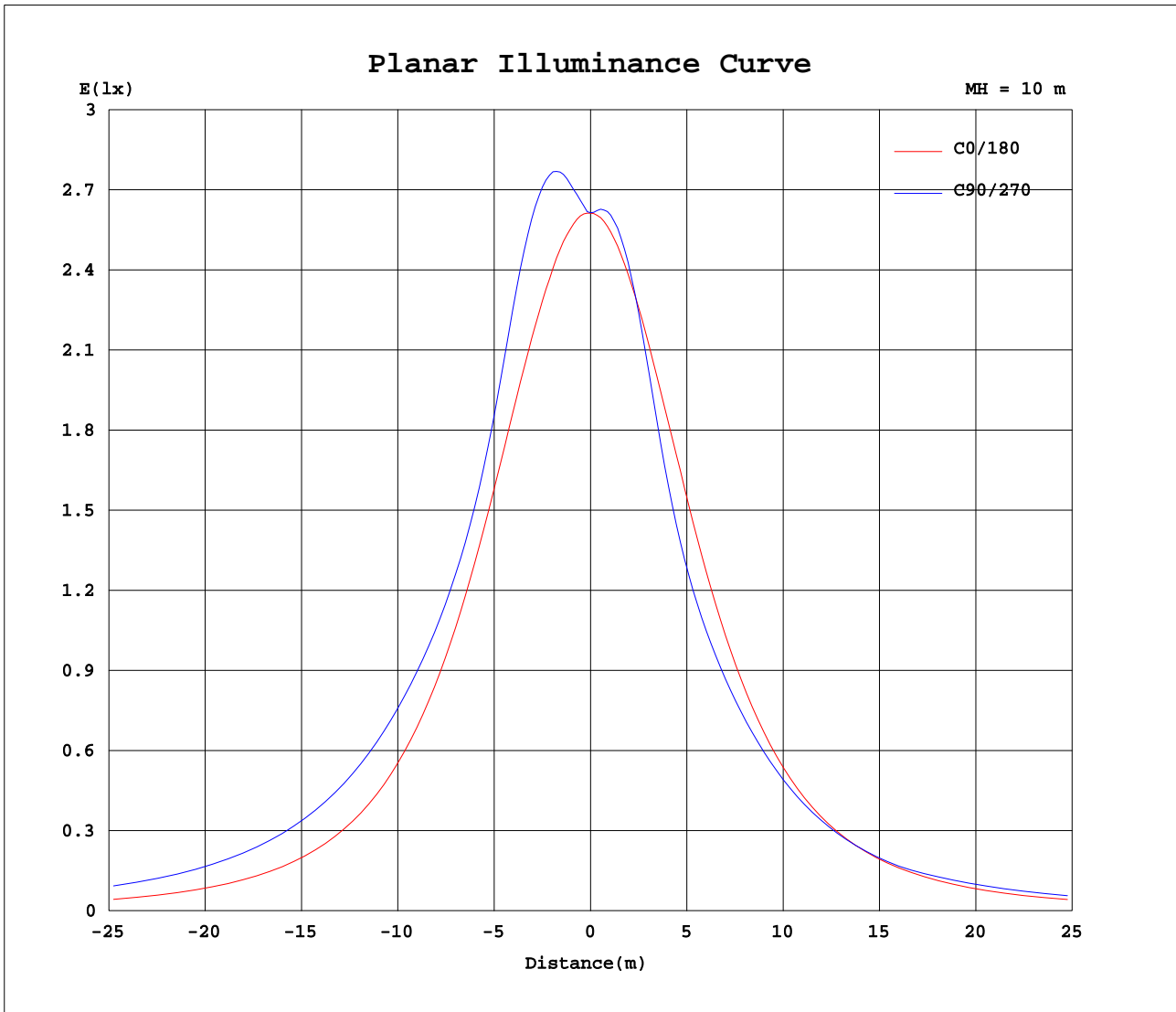
AvgL	cd/m2
L_0~180(65)av	1537
L_0~180(75)av	1817
L_0~180(85)av	3640
L_90~270(65)av	2524
L_90~270(75)av	3791
L_90~270(85)av	10412
L_45(65)av	2308
L_45(75)av	3502
L_45(85)av	9642

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Alan Wang  
Test Date: 17 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
Humidity: 43.6%  
Test Distance: 2.500m [K=1.0393]  
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.: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	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261
5	260	261	264	268	270	273	273	273	271	268	264	261	259	260	262	263	264	265	265
10	256	260	268	277	284	288	290	289	284	277	268	259	254	256	259	260	260	259	259
15	248	256	270	283	292	296	297	296	291	282	270	255	246	249	251	249	245	242	240
20	239	250	269	283	289	291	290	290	288	281	268	248	234	239	239	231	221	213	211
25	225	240	263	274	274	269	267	268	272	272	262	239	221	226	222	207	194	187	185
30	210	228	252	258	251	246	244	244	248	255	250	228	205	210	201	183	173	169	169
35	193	214	237	237	231	229	229	228	228	233	235	214	188	192	179	164	158	157	158
40	175	199	219	218	217	219	221	219	216	215	217	199	170	174	160	149	147	147	149
45	157	182	201	203	208	212	215	212	207	200	198	182	152	156	143	137	137	138	139
50	138	165	184	192	201	206	208	205	200	191	181	166	134	138	129	127	128	128	129
55	121	149	170	183	194	198	200	198	193	182	168	151	118	123	117	118	118	118	119
60	105	134	157	175	186	190	191	190	186	175	157	137	102	109	106	108	109	109	112
65	90.2	121	147	167	178	182	183	182	178	168	148	124	88.1	96.6	96.4	99.2	105	109	110
70	77.1	110	138	160	171	174	175	174	171	161	139	113	75.4	85.8	87.4	96.3	103	106	106
75	65.2	99.3	130	153	164	167	167	166	164	154	132	104	63.9	75.9	81.1	94.9	100	102	102
80	54.0	89.4	122	146	157	160	160	160	158	148	125	94.4	53.3	66.8	79.8	92.3	97.0	98.3	98.5
85	43.7	80.6	115	140	151	154	155	154	152	142	118	86.0	43.4	61.8	77.5	90.0	94.1	94.8	94.6
90	38.8	77.4	113	139	151	153	154	154	152	141	117	83.7	39.1	60.1	76.3	89.3	93.5	94.3	94.2
95	43.0	80.9	117	143	155	158	159	159	157	146	121	87.6	43.4	57.1	73.4	85.9	90.5	91.9	92.1
100	52.5	89.4	125	151	164	168	169	168	166	154	129	95.6	52.6	60.7	73.3	86.1	91.3	93.0	93.0
105	62.8	98.1	132	159	173	178	179	178	175	163	137	104	62.3	68.5	72.9	86.8	92.6	94.8	95.1
110	74.0	107	140	167	182	187	189	188	184	171	145	111	72.9	77.1	78.6	86.4	94.0	97.2	98.1
115	86.3	118	147	174	190	197	199	198	193	178	152	118	84.5	86.2	86.5	88.5	93.8	98.4	100
120	99.9	129	155	180	198	205	208	206	200	185	160	126	97.8	96.1	95.9	96.7	96.9	97.9	99.4
125	115	141	164	186	204	212	215	214	207	191	167	135	112	108	105	105	106	105	105
130	130	154	174	191	208	218	222	219	212	196	176	152	128	114	116	113	114	114	114
135	147	168	188	197	212	221	225	223	215	202	187	169	145	126	129	122	123	123	124
140	164	183	203	206	215	223	227	225	218	209	199	183	162	151	145	133	131	132	132
145	180	196	218	219	221	226	229	227	223	221	209	197	178	168	159	147	141	141	141
150	192	208	232	236	233	232	233	233	233	237	219	210	192	178	172	166	156	152	152
155	190	219	242	251	250	247	247	248	251	251	231	214	189	169	194	179	175	170	168
160	180	228	247	260	265	265	265	265	266	257	230	199	181	184	177	185	190	193	192
165	164	199	248	261	269	273	274	273	268	232	198	179	169	170	160	164	171	204	216
170	147	157	235	247	261	266	267	266	238	188	184	173	154	154	154	157	155	146	192
175	167	164	187	198	231	249	249	224	158	182	179	175	174	174	173	165	167	155	102
180	190	188	178	172	178	114	54.3	64.5	157	173	181	187	189	188	186	179	171	169	145

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2402A P:28.48W PF:0.9881 Freq:60.00Hz Lamp Flux:1855.67x1 lm		
NAME:ASD-LWS27C-36D30BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	261	261	261	261	261														
5	264	264	263	262	261														
10	260	261	262	261	258														
15	242	247	252	254	252														
20	214	224	235	243	243														
25	188	197	211	226	231														
30	170	176	187	205	215														
35	159	161	168	184	198														
40	149	150	153	165	179														
45	140	140	141	147	161														
50	130	130	131	133	143														
55	119	120	121	120	126														
60	111	110	111	109	112														
65	109	106	101	99.0	98.3														
70	106	104	98.4	89.3	86.2														
75	102	100	96.0	83.1	75.1														
80	97.9	96.8	92.7	80.6	64.8														
85	94.0	93.1	89.4	77.5	59.6														
90	93.8	92.8	89.3	77.0	57.4														
95	91.6	90.2	85.9	72.8	53.0														
100	92.1	90.2	85.1	71.6	54.7														
105	94.0	91.4	85.4	71.5	63.1														
110	96.4	93.5	85.9	75.6	71.7														
115	98.2	93.5	86.5	84.2	81.2														
120	97.4	96.2	95.0	93.0	92.0														
125	105	105	104	103	104														
130	114	114	113	113	112														
135	123	123	123	126	127														
140	132	132	134	141	145														
145	142	143	147	157	166														
150	153	156	165	171	181														
155	169	176	182	189	185														
160	193	199	202	210	171														
165	215	218	224	216	150														
170	235	237	208	171	151														
175	94.1	133	149	158	153														
180	95.6	157	150	171	179														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Alan Wang  
 Test Date: 17 October 2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 43.6%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks: