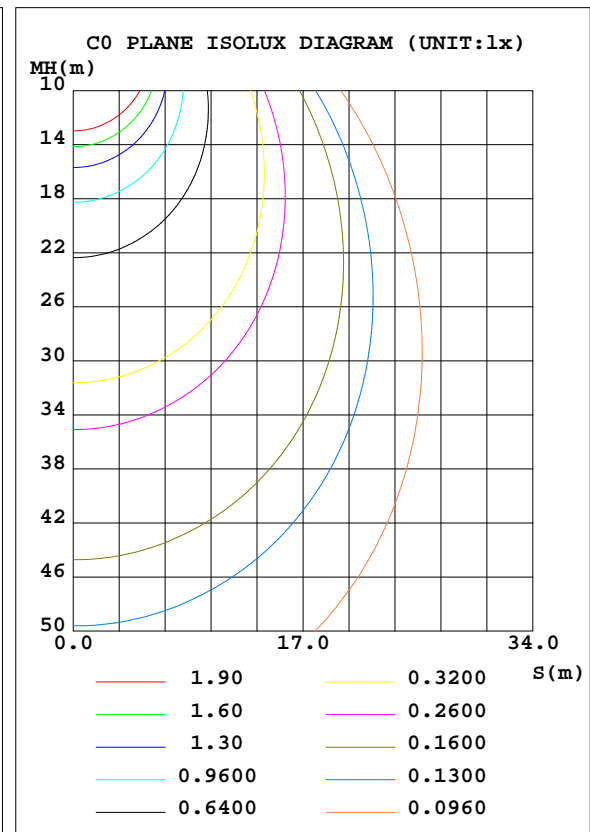
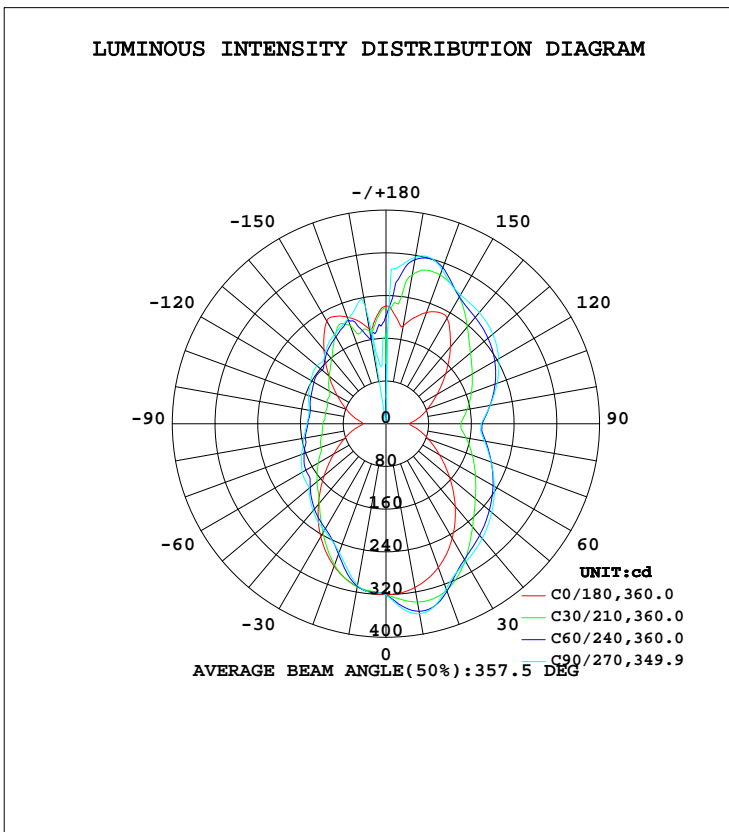


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30BK
SPEC.:5000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LWS27A-36D30BK	Imax(cd)	361.4	S/MH(C0/180)	1.15
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.07
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2325.7	η UP, DN(C0-180)	27.8,28.9
NOMINAL FLUX(lm)	2325.68	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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	311.3	349.9	361.2	350.4	310.0	310.4	307.4	311.4	0- 10	31.15	31.15	1.34,1.34
20	286.6	337.0	329.0	337.4	283.9	270.1	256.5	272.9	10- 20	88.92	120.1	5.16,5.16
30	248.0	292.9	298.6	292.2	244.4	226.2	231.2	231.6	20- 30	129.0	249.1	10.7,10.7
40	201.6	261.9	280.3	259.7	196.9	202.0	212.6	202.7	30- 40	154.4	403.5	17.4,17.4
50	155.1	239.6	258.5	236.0	151.2	180.1	188.0	178.8	40- 50	167.0	570.5	24.5,24.5
60	115.4	219.1	234.3	214.7	113.0	157.8	181.2	157.7	50- 60	169.6	740.1	31.8,31.8
70	84.62	199.3	209.3	194.6	83.64	152.9	168.6	154.6	60- 70	167.1	907.2	39,39
80	60.72	179.9	187.2	175.6	60.38	143.9	156.8	145.2	70- 80	159.2	1066	45.9,45.9
90	45.12	169.6	178.5	165.2	43.70	139.7	147.8	141.7	80- 90	149.0	1215	52.3,52.3
100	61.74	185.2	198.0	181.0	57.89	136.5	146.3	139.8	90-100	148.8	1364	58.7,58.7
110	83.48	201.9	221.3	198.8	79.05	138.4	154.5	141.7	100-110	156.2	1520	65.4,65.4
120	110.5	217.3	243.8	214.8	105.2	143.8	162.6	145.7	110-120	160.3	1681	72.3,72.3
130	146.0	231.2	261.3	229.2	139.5	149.6	168.7	152.6	120-130	158.7	1839	79.1,79.1
140	187.8	246.6	272.0	244.6	180.9	166.5	176.5	171.7	130-140	150.6	1990	85.6,85.6
150	228.9	275.5	278.9	272.4	222.0	185.4	193.5	189.7	140-150	136.3	2126	91.4,91.4
160	221.7	309.3	307.2	304.1	212.8	199.1	208.8	210.2	150-160	110.4	2237	96.2,96.2
170	186.5	297.9	316.8	225.9	180.4	169.6	223.5	222.2	160-170	68.92	2305	99.1,99.1
180	221.3	205.0	46.97	201.5	219.8	208.8	157.7	176.0	170-180	20.23	2326	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 486.22 lm

%lum = 20.9%

%lamp = 20.9%

Conical surface Flux(120deg): 740.09 lm

%lum = 31.8%

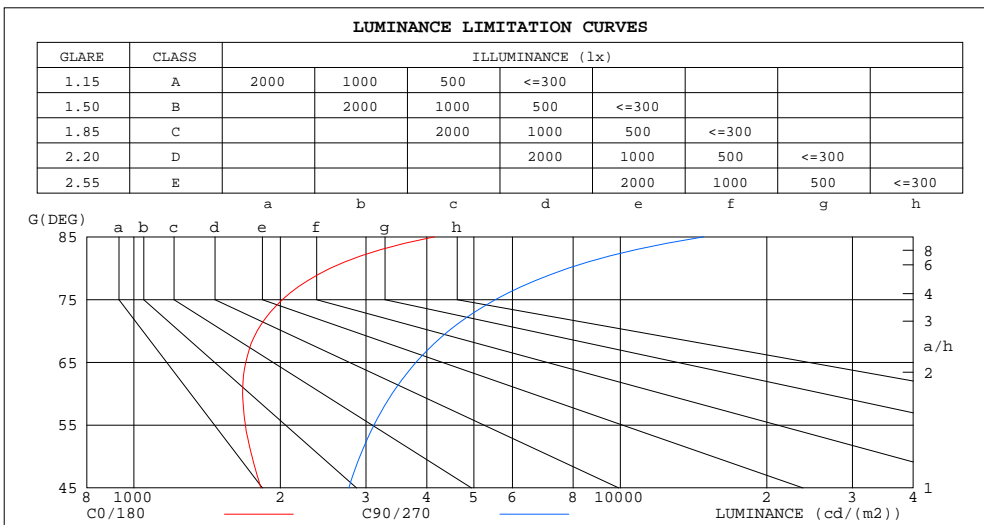
%lamp = 31.8%

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4148	14842
80	2534	7813
75	2019	5536
70	1793	4434
65	1699	3801
60	1672	3395
55	1696	3116
50	1749	2915
45	1824	2765

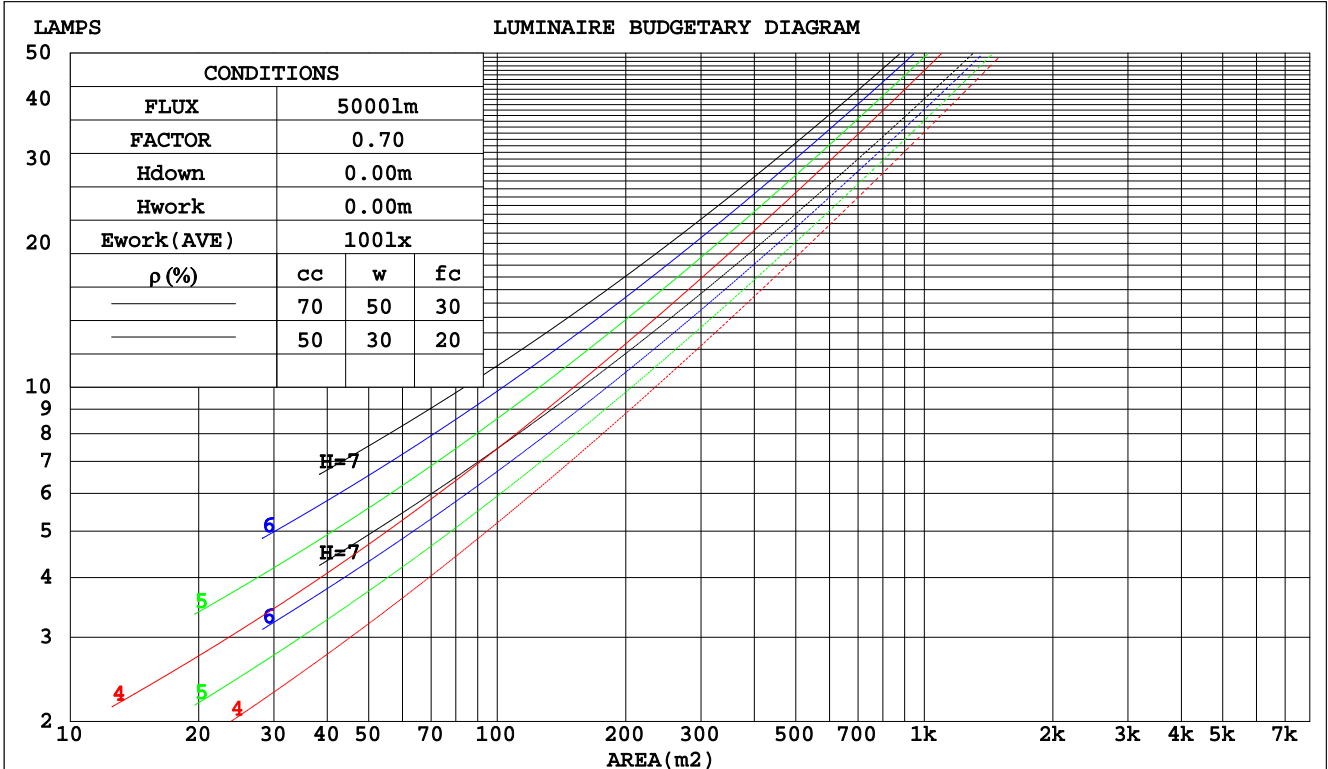
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 27.8DEG  
 Operators: Alan Wang  
 Test Date: 14 October 2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

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	.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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm		
NAME:ASD-LWS27A-36D30CCBK		
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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm										
NAME:ASD-LWS27A-36D30CCBK										
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	12.3	13.3	13.1	14.2	15.2	14.3	15.4	15.2	16.2	17.3
3H	14.1	15.1	15.0	15.9	17.1	17.0	18.0	17.9	18.9	20.0
4H	15.1	16.0	16.0	16.8	18.0	18.5	19.4	19.4	20.3	21.5
6H	16.0	16.8	16.9	17.7	18.9	20.2	21.0	21.1	21.9	23.1
8H	16.5	17.3	17.4	18.2	19.4	21.2	22.0	22.1	22.9	24.0
12H	17.0	17.8	17.9	18.7	19.9	22.3	23.0	23.2	23.9	25.1
4H 2H	13.6	14.5	14.5	15.4	16.6	15.0	15.9	15.9	16.8	17.9
3H	15.9	16.6	16.8	17.6	18.7	18.0	18.7	18.9	19.6	20.8
4H	17.1	17.8	18.0	18.7	19.9	19.6	20.3	20.6	21.3	22.5
6H	18.3	18.9	19.2	19.8	21.1	21.5	22.1	22.5	23.1	24.3
8H	18.8	19.4	19.8	20.4	21.6	22.6	23.1	23.5	24.1	25.4
12H	19.4	20.0	20.4	20.9	22.2	23.8	24.3	24.7	25.3	26.5
8H 4H	18.2	18.8	19.2	19.8	21.0	20.2	20.7	21.1	21.7	22.9
6H	19.9	20.4	20.9	21.4	22.6	22.3	22.8	23.3	23.8	25.1
8H	20.8	21.2	21.7	22.2	23.5	23.6	24.0	24.6	25.0	26.3
12H	21.6	22.0	22.6	23.0	24.3	25.0	25.4	26.1	26.4	27.7
12H 4H	18.6	19.1	19.5	20.1	21.3	20.2	20.8	21.2	21.7	23.0
6H	20.5	20.9	21.4	21.9	23.2	22.6	23.0	23.6	24.0	25.3
8H	21.5	21.9	22.5	22.9	24.2	23.9	24.3	25.0	25.3	26.6
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, 2326 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.9)  
 Area: 0.138 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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

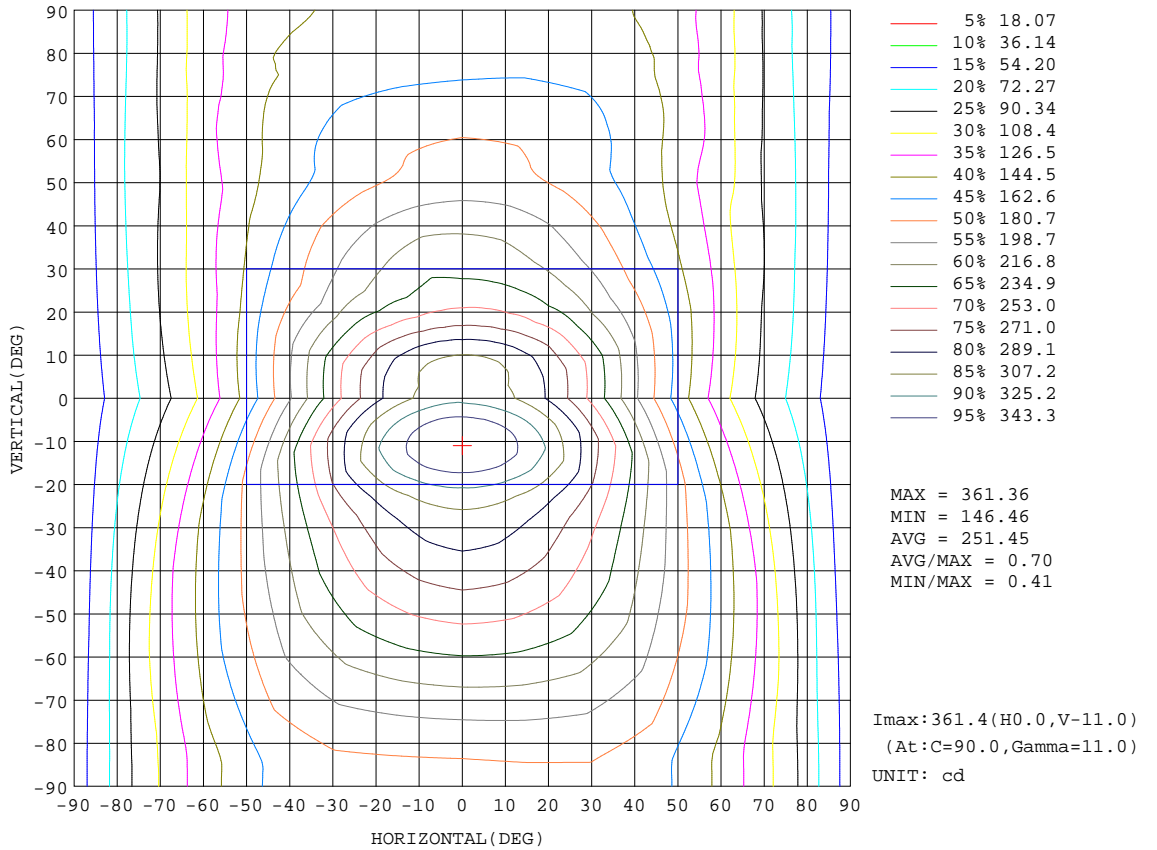
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	41	29	22	39	28	21	35	26	20	13
0.80	50	37	29	47	35	28	41	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
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

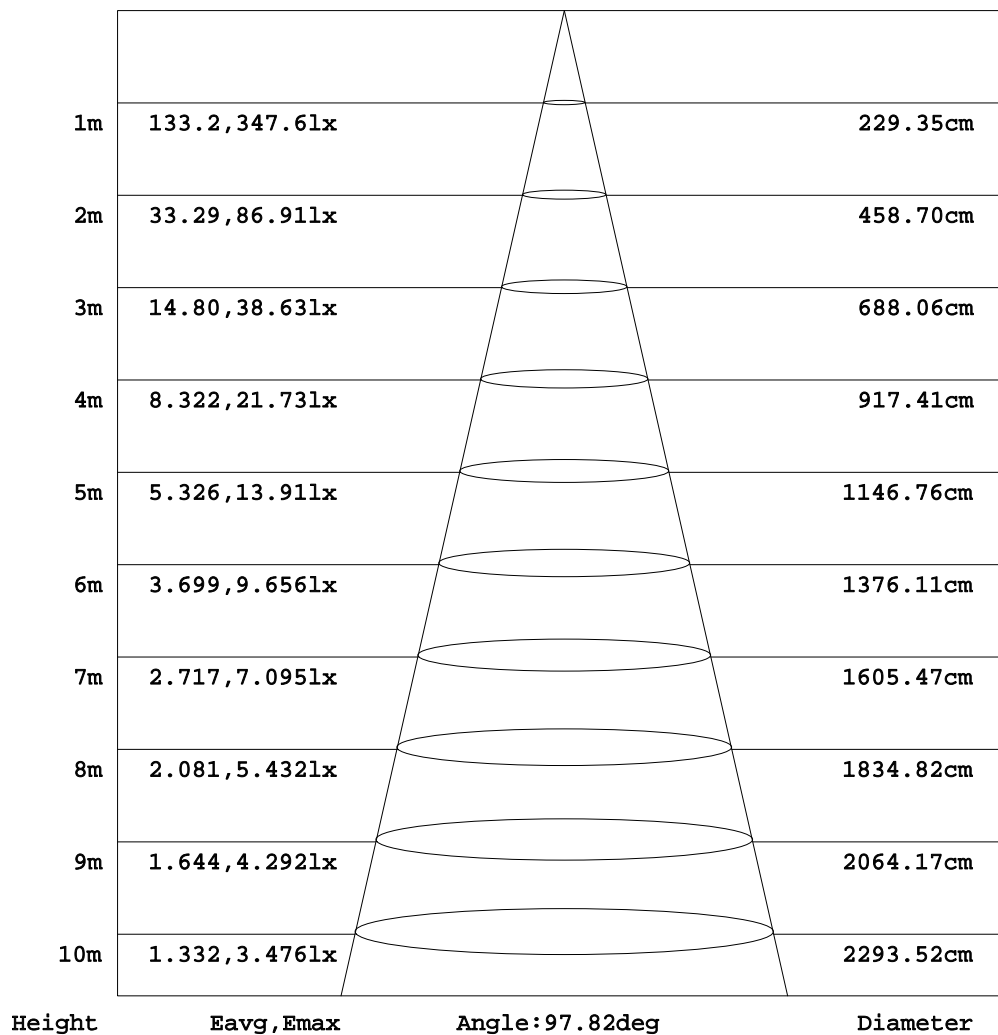
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.416  
 Humidity: 47.5%  
 Test Distance: 2.500m [K=1.0393]  
 Remarks:



AAI Figure

Test:U:120.0V I:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

Flux out:553.6 lm



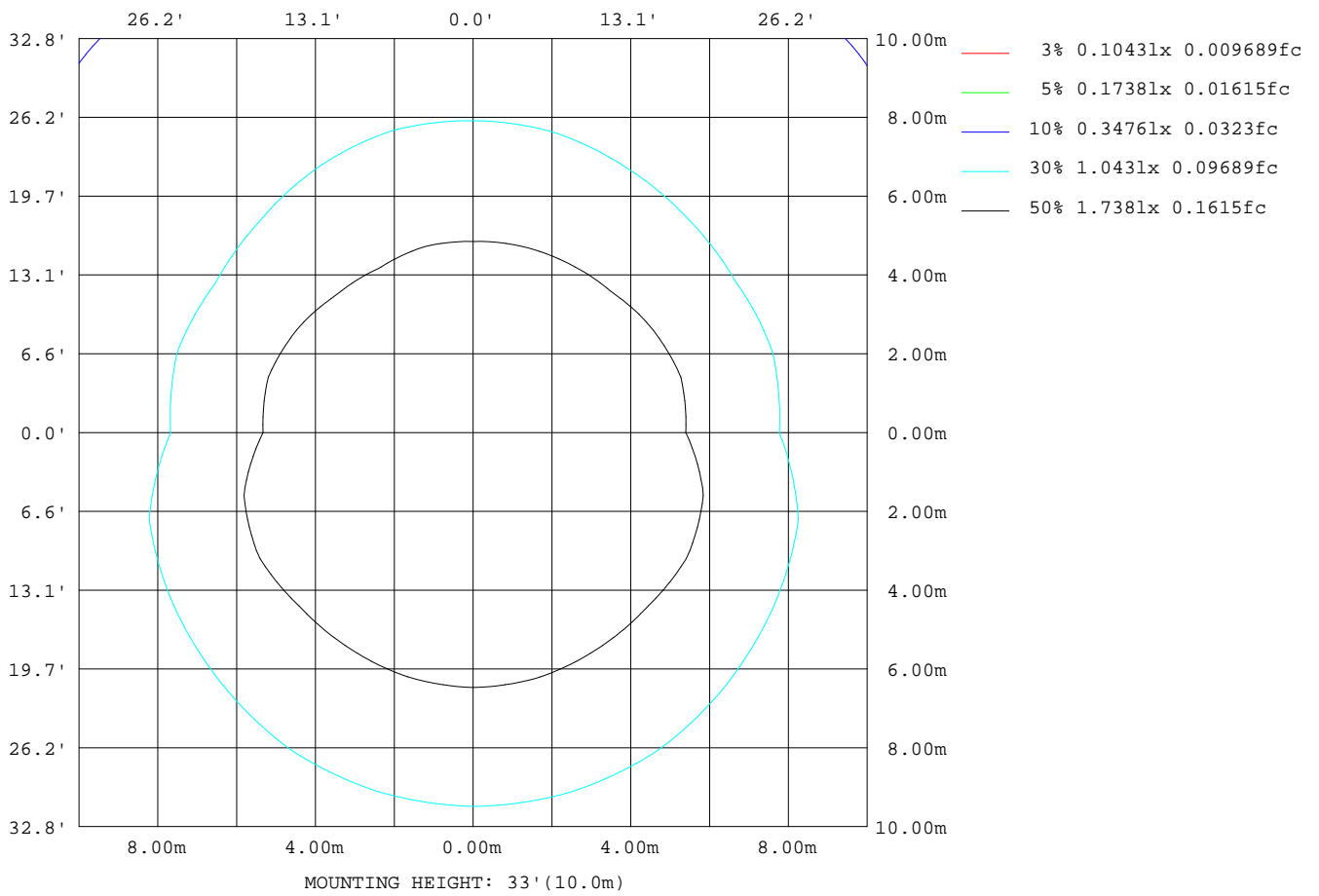
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

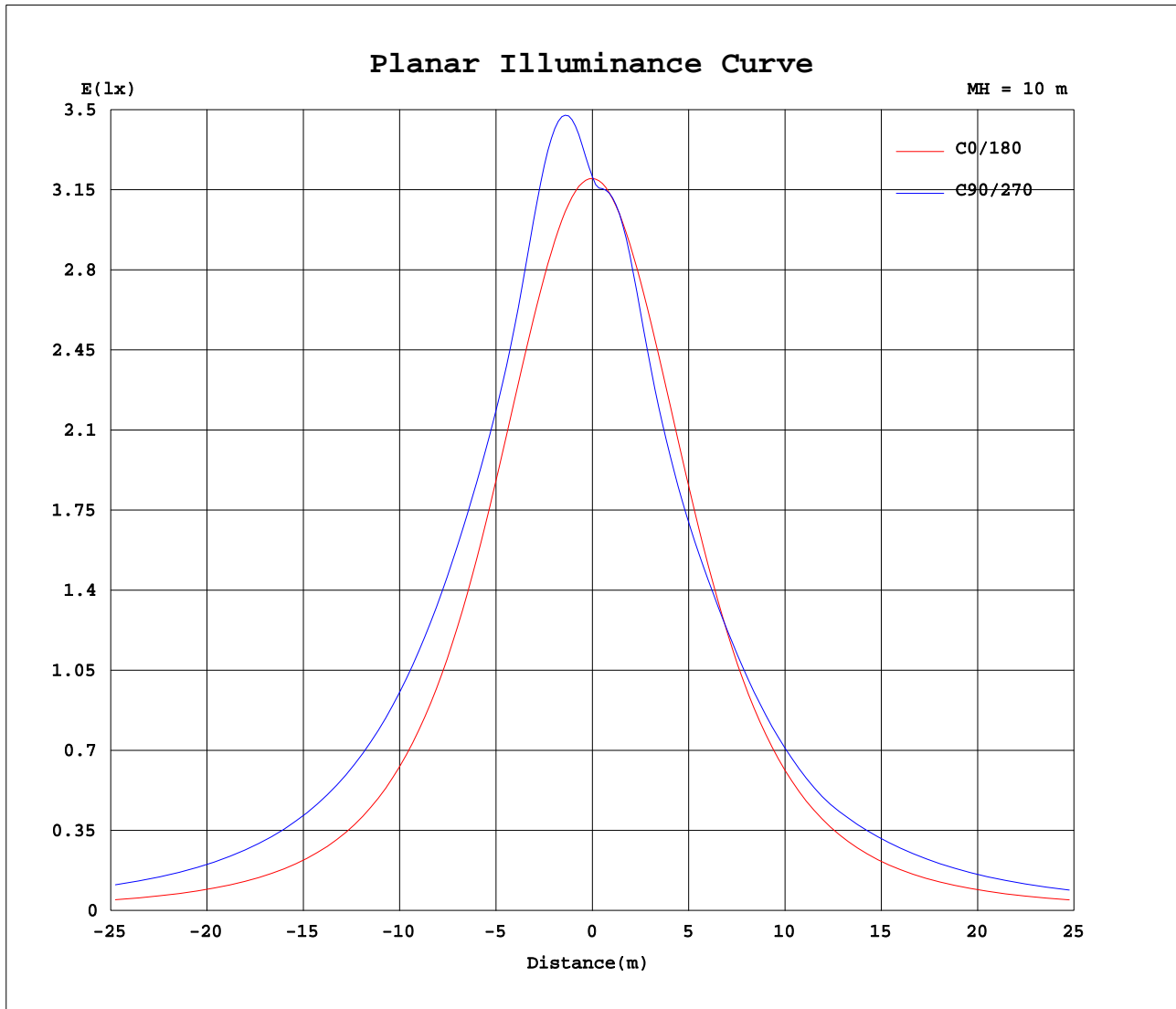
AvgL	cd/m2
L_0~180(65)av	1683
L_0~180(75)av	2011
L_0~180(85)av	4147
L_90~270(65)av	3397
L_90~270(75)av	5025
L_90~270(85)av	13729
L_45(65)av	3115
L_45(75)av	4714
L_45(85)av	12970

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm
NAME:ASD-LWS27A-36D30CCBK
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	320	320	320	320	321	321	321	321	321	321	321	321	320	320	320	320	321	321	321
5	318	323	331	337	342	346	347	346	343	338	332	324	317	314	315	316	317	317	317
10	311	324	339	350	357	360	361	360	357	350	339	324	310	308	310	310	309	308	307
15	301	321	340	350	353	353	353	354	354	350	340	320	299	298	299	294	287	282	281
20	287	313	332	337	334	330	329	330	334	337	332	312	284	285	282	270	260	256	256
25	269	300	317	315	310	309	309	309	310	316	317	298	266	268	259	246	239	241	241
30	248	282	296	293	294	297	299	297	293	292	296	281	244	248	236	226	227	233	231
35	225	262	274	275	283	288	290	287	281	274	273	260	221	226	214	212	218	224	223
40	202	240	252	262	273	279	280	277	271	260	251	238	197	203	194	202	209	213	213
45	178	218	234	250	263	269	270	267	260	247	231	216	173	181	180	191	197	200	201
50	155	197	218	240	253	258	259	256	250	236	215	194	151	161	169	180	185	187	188
55	134	178	205	229	242	246	247	244	239	225	202	175	131	142	157	169	175	182	185
60	115	162	193	219	232	234	234	232	228	215	189	159	113	127	146	158	173	179	181
65	99.1	148	182	209	221	222	222	220	217	205	178	144	97.3	116	136	156	169	173	175
70	84.6	136	172	199	210	210	209	208	206	195	168	132	83.6	105	130	153	163	167	169
75	72.1	124	162	189	199	199	198	197	195	185	158	121	71.5	94.2	127	148	156	159	161
80	60.7	114	152	180	190	189	187	187	186	176	149	110	60.4	85.7	122	144	154	156	157
85	49.9	104	143	171	181	180	179	178	177	167	140	101	49.9	81.1	120	143	150	151	152
90	45.1	101	140	170	180	180	179	178	176	165	137	95.9	43.7	78.8	118	140	146	147	148
95	51.3	106	146	177	188	189	187	186	184	172	142	100	47.9	75.9	115	137	144	145	146
100	61.7	114	154	185	198	199	198	197	194	181	150	108	57.9	77.1	115	137	144	146	146
105	72.4	123	162	194	208	210	210	208	204	190	159	116	68.1	80.2	115	138	147	149	150
110	83.5	131	170	202	217	221	221	219	215	199	167	125	79.0	88.8	117	138	150	153	155
115	96.0	141	178	210	227	232	233	231	224	207	175	135	91.1	96.6	118	141	152	157	158
120	110	152	187	217	235	242	244	241	233	215	183	146	105	106	123	144	156	161	163
125	127	166	196	224	243	251	253	250	241	222	193	159	121	119	131	142	159	165	167
130	146	181	207	231	249	258	261	258	248	229	204	174	139	132	139	150	157	165	169
135	166	199	220	238	255	264	267	264	254	236	217	190	160	144	148	159	163	165	166
140	188	216	237	247	260	269	272	268	259	245	233	208	181	158	158	167	173	175	177
145	209	234	256	258	266	273	275	272	264	256	251	227	202	176	173	175	181	185	186
150	229	249	274	275	275	278	279	277	273	272	269	231	222	196	190	185	188	192	193
155	231	262	289	295	291	289	288	288	289	290	281	244	222	190	206	194	197	199	200
160	222	273	297	309	311	309	307	308	308	304	285	228	213	210	196	199	207	209	209
165	206	275	298	312	320	322	322	321	315	284	234	207	199	200	179	180	184	217	223
170	186	202	283	298	312	316	317	315	284	226	214	196	180	180	176	170	162	156	223
175	203	201	226	253	272	296	296	262	185	212	210	202	202	202	196	183	181	166	108
180	221	218	206	205	200	130	47.0	74.3	185	202	211	227	220	220	217	209	203	200	158

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:0.2478A P:29.41W PF:0.9891 Freq:60.00Hz Lamp Flux:2325.68x1 lm		
NAME:ASD-LWS27A-36D30CCBK		
SPEC.:5000K		
MFR.: ASD Lighting Corp		

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	321	321	321	321	321														
5	317	317	316	315	315														
10	308	310	311	311	309														
15	283	289	296	301	300														
20	259	263	273	285	287														
25	242	245	249	263	271														
30	230	231	232	240	251														
35	222	217	216	219	230														
40	212	208	203	201	207														
45	200	197	189	184	185														
50	188	186	179	169	165														
55	183	175	168	153	147														
60	180	174	158	144	131														
65	175	171	157	134	115														
70	169	167	155	127	99.3														
75	162	161	151	126	91.9														
80	157	156	145	121	82.7														
85	153	152	143	118	77.6														
90	149	149	142	117	75.0														
95	147	147	139	114	73.3														
100	148	148	140	115	75.7														
105	151	151	141	116	78.9														
110	155	153	142	119	87.2														
115	158	155	144	118	96.3														
120	162	159	146	124	106														
125	167	161	143	134	115														
130	167	158	153	143	126														
135	166	166	162	153	139														
140	177	176	172	163	156														
145	186	185	181	173	174														
150	194	193	190	185	193														
155	201	200	199	198	200														
160	209	209	210	216	185														
165	223	224	229	225	174														
170	250	251	222	189	175														
175	105	148	170	179	183														
180	96.4	98.9	176	200	209														

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: