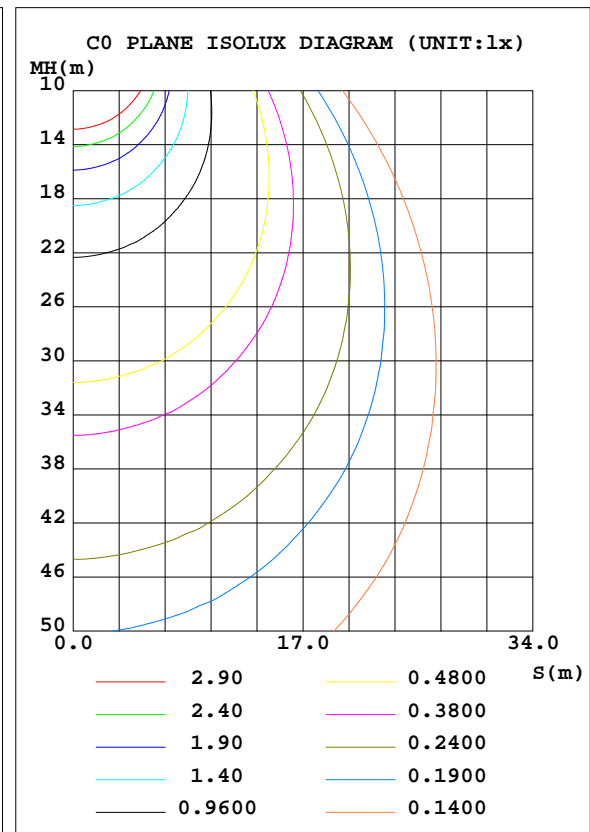
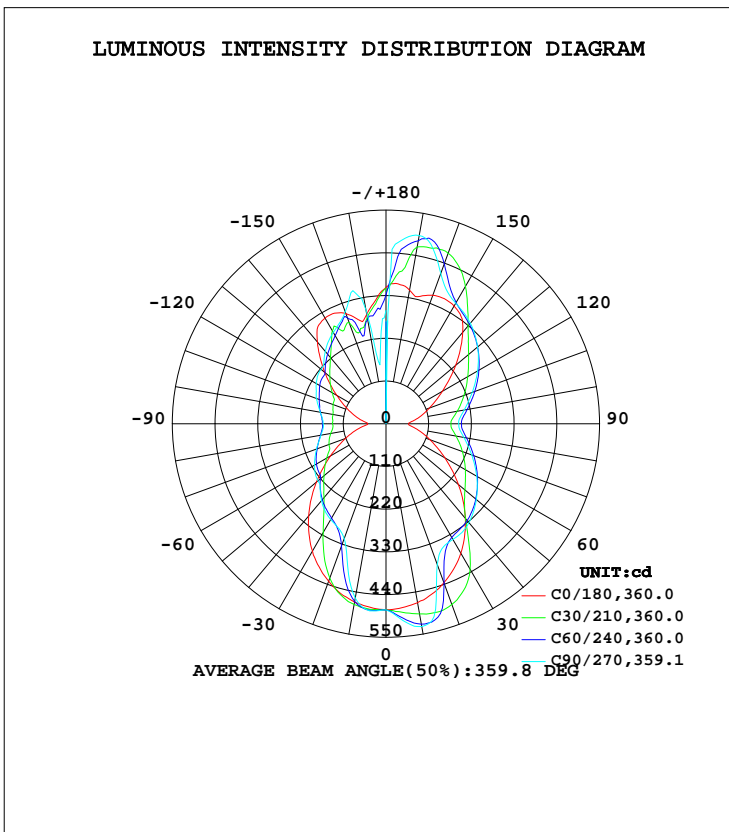


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36BK
SPEC.:5000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.53 lm/W			
MODEL	LWS27A-48D36BK	Imax(cd)	530.1	S/MH(C0/180)	1.18
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	0.82
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	2965.5	η UP, DN(C0-180)	27.6,28.1
NOMINAL FLUX(lm)	2965.49	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	21.2,23.2
LAMPS INSIDE	1	η up(%)	48.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	51.2	CIBSE SHR MAX	1.25



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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	468.0	514.2	530.1	512.4	466.2	470.3	455.9	470.6	0- 10	46.50	46.50	1.57,1.57
20	436.0	492.5	386.6	475.7	431.5	378.2	314.9	375.0	10- 20	128.3	174.8	5.89,5.89
30	385.6	350.3	344.0	332.9	378.9	282.0	284.9	281.1	20- 30	171.4	346.2	11.7,11.7
40	318.0	309.9	332.3	297.9	310.1	248.9	258.5	248.7	30- 40	199.0	545.2	18.4,18.4
50	243.3	289.1	303.8	277.9	234.5	218.4	228.8	219.2	40- 50	211.0	756.2	25.5,25.5
60	174.6	263.1	269.8	252.5	164.8	192.7	212.5	196.8	50- 60	209.7	965.9	32.6,32.6
70	120.8	235.3	235.0	225.6	111.6	181.1	190.5	186.3	60- 70	200.3	1166	39.3,39.3
80	80.35	207.6	203.7	199.4	71.25	165.7	170.0	171.7	70- 80	184.9	1351	45.6,45.6
90	58.40	192.0	187.3	183.7	47.45	159.1	162.0	167.5	80- 90	168.2	1519	51.2,51.2
100	82.98	209.8	204.5	199.7	68.72	164.7	172.1	175.3	90-100	169.0	1688	56.9,56.9
110	119.4	238.8	236.2	226.1	102.2	171.3	190.7	188.0	100-110	184.5	1873	63.2,63.2
120	168.1	268.4	272.4	253.9	146.5	180.7	207.3	197.2	110-120	197.7	2070	69.8,69.8
130	234.2	297.4	307.8	281.7	205.8	198.9	218.5	210.3	120-130	204.7	2275	76.7,76.7
140	307.4	325.2	337.9	310.5	274.8	227.8	243.3	238.4	130-140	203.6	2479	83.6,83.6
150	350.3	372.7	359.0	359.1	314.3	260.1	271.8	275.0	140-150	190.8	2670	90,90
160	352.4	462.6	412.3	412.0	301.9	261.4	307.5	335.4	150-160	158.6	2828	95.4,95.4
170	349.7	473.0	492.3	354.2	286.4	281.7	298.1	382.6	160-170	104.1	2932	98.9,98.9
180	351.7	330.5	115.6	316.9	350.7	341.7	291.8	285.6	170-180	33.23	2965	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 650.29 lm

%lum = 21.9%

%lamp = 21.9%

Conical surface Flux(120deg): 965.92 lm

%lum = 32.6%

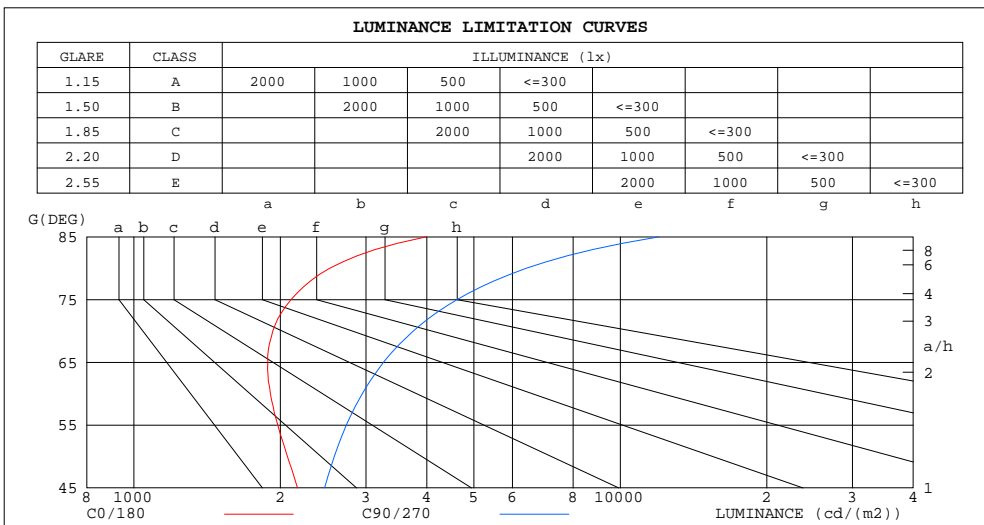
%lamp = 32.6%

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:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3993	12002
80	2528	6411
75	2105	4616
70	1930	3755
65	1885	3258
60	1908	2949
55	1976	2734
50	2069	2583
45	2170	2466

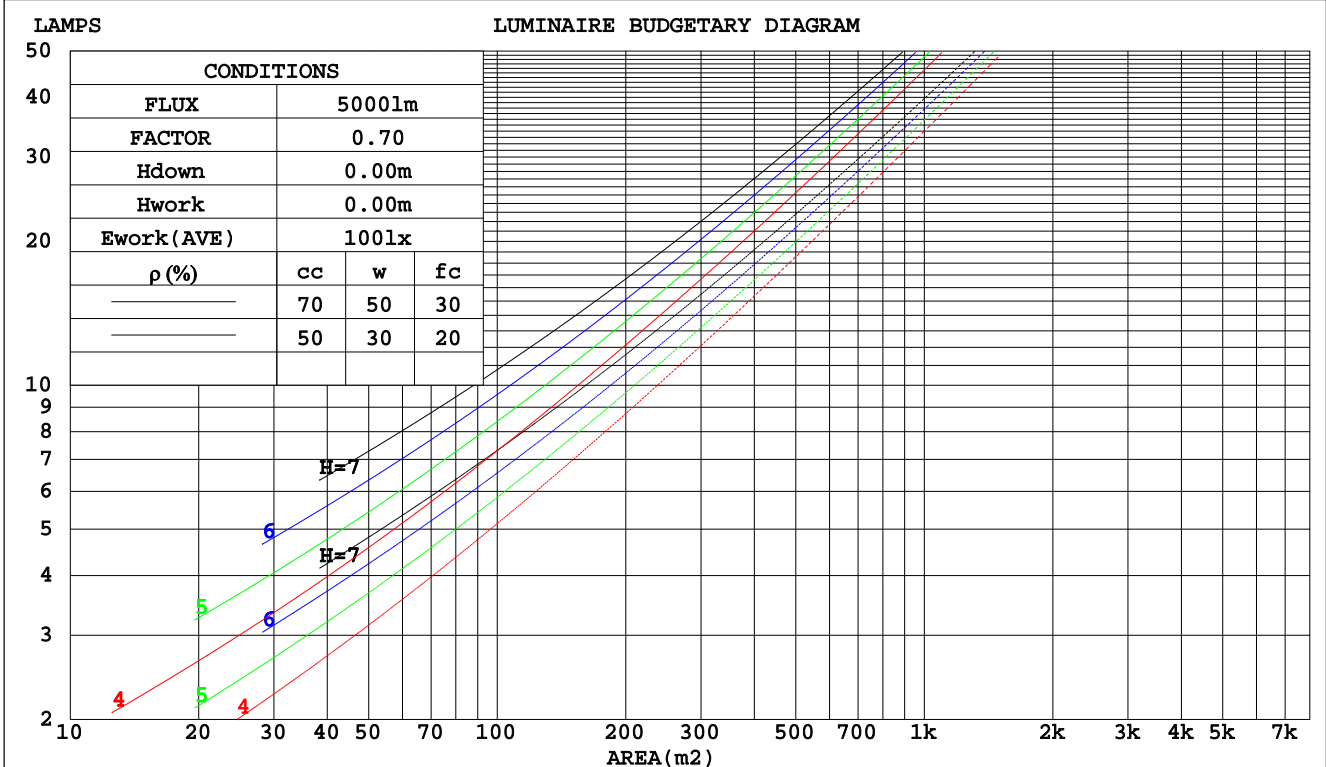
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 17 October 2023

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
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																0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.90	.85	.81	.83	.79	.75	.70	.67	.64	.58	.56	.53	.47	.45	.44	.38
2.0	.78	.71	.65	.72	.65	.60	.60	.56	.51	.50	.46	.43	.40	.37	.35	.30
3.0	.68	.60	.53	.62	.55	.49	.53	.47	.42	.43	.39	.36	.35	.32	.29	.25
4.0	.60	.51	.44	.55	.47	.42	.46	.41	.36	.38	.34	.30	.31	.28	.25	.21
5.0	.53	.44	.38	.49	.41	.35	.41	.35	.31	.34	.30	.26	.28	.24	.21	.18
6.0	.47	.39	.33	.44	.36	.31	.37	.31	.27	.31	.26	.23	.25	.22	.19	.16
7.0	.43	.34	.29	.40	.32	.27	.34	.28	.23	.28	.24	.20	.23	.19	.17	.14
8.0	.39	.31	.25	.36	.29	.24	.31	.25	.21	.26	.21	.18	.21	.18	.15	.12
9.0	.35	.28	.22	.33	.26	.21	.28	.23	.19	.24	.19	.16	.20	.16	.13	.11
10.0	.33	.25	.20	.30	.24	.19	.26	.21	.17	.22	.18	.14	.18	.15	.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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
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	.346	.197	.062	.325	.185	.059	.284	.163	.052	.246	.142	.046	.211	.122	.039	
2.0	.301	.165	.051	.281	.155	.048	.243	.135	.042	.209	.117	.037	.177	.100	.032	
3.0	.268	.143	.043	.250	.134	.040	.216	.117	.036	.184	.101	.031	.155	.086	.027	
4.0	.243	.126	.037	.226	.118	.035	.195	.103	.031	.166	.089	.027	.139	.075	.023	
5.0	.222	.113	.033	.206	.106	.031	.178	.092	.027	.151	.080	.024	.126	.067	.020	
6.0	.204	.102	.029	.190	.096	.028	.163	.084	.024	.138	.072	.021	.115	.061	.018	
7.0	.189	.093	.026	.176	.088	.025	.151	.076	.022	.128	.066	.019	.106	.055	.016	
8.0	.176	.086	.024	.163	.080	.023	.141	.070	.020	.119	.060	.017	.099	.051	.015	
9.0	.164	.079	.022	.153	.074	.021	.131	.065	.018	.111	.056	.016	.092	.047	.014	
10.0	.154	.074	.020	.143	.069	.019	.123	.060	.017	.104	.052	.015	.087	.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	.562	.562	.562	.480	.480	.480	.328	.328	.328	.188	.188	.188	.060	.060	.060	
1.0	.557	.530	.506	.477	.455	.436	.326	.313	.301	.188	.181	.175	.060	.058	.057	
2.0	.551	.509	.474	.472	.438	.410	.323	.303	.286	.186	.176	.168	.060	.057	.055	
3.0	.543	.493	.454	.466	.426	.393	.320	.296	.276	.185	.173	.163	.059	.056	.053	
4.0	.536	.482	.440	.460	.416	.382	.316	.290	.269	.183	.170	.159	.059	.055	.052	
5.0	.529	.472	.431	.454	.409	.375	.313	.286	.265	.181	.168	.157	.058	.055	.052	
6.0	.522	.465	.424	.449	.403	.369	.310	.282	.261	.180	.166	.155	.058	.054	.051	
7.0	.516	.459	.419	.444	.398	.365	.307	.279	.259	.178	.164	.154	.058	.054	.051	
8.0	.510	.454	.415	.439	.393	.362	.304	.276	.257	.177	.163	.153	.057	.053	.051	
9.0	.504	.449	.412	.434	.390	.359	.301	.274	.255	.175	.162	.152	.057	.053	.050	
10.0	.499	.445	.410	.430	.387	.358	.298	.272	.254	.174	.161	.152	.056	.053	.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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm										
NAME: ASD-LWS27A-48D36CCBK										
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	12.5	13.5	13.3	14.3	15.4	13.6	14.6	14.4	15.5	16.6
3H	14.3	15.2	15.1	16.1	17.2	16.1	17.1	17.0	17.9	19.1
4H	15.2	16.0	16.1	16.9	18.1	17.6	18.4	18.5	19.3	20.5
6H	16.1	16.9	17.0	17.8	19.0	19.1	19.9	20.0	20.9	22.0
8H	16.5	17.3	17.4	18.2	19.4	20.0	20.8	20.9	21.7	22.9
12H	17.0	17.7	17.9	18.6	19.8	21.1	21.8	22.0	22.7	23.9
4H 2H	13.5	14.4	14.4	15.3	16.4	14.3	15.2	15.2	16.1	17.2
3H	15.7	16.4	16.6	17.4	18.6	17.1	17.8	18.0	18.8	20.0
4H	16.9	17.5	17.8	18.5	19.7	18.7	19.4	19.6	20.3	21.5
6H	18.0	18.6	19.0	19.6	20.9	20.4	21.0	21.4	22.0	23.3
8H	18.6	19.2	19.6	20.1	21.4	21.4	22.0	22.4	23.0	24.2
12H	19.2	19.7	20.2	20.7	22.0	22.6	23.1	23.6	24.1	25.4
8H 4H	17.9	18.4	18.8	19.4	20.7	19.2	19.8	20.2	20.8	22.0
6H	19.5	20.0	20.5	20.9	22.2	21.3	21.8	22.3	22.8	24.1
8H	20.3	20.8	21.3	21.8	23.1	22.5	22.9	23.5	23.9	25.2
12H	21.2	21.6	22.2	22.6	23.9	23.9	24.2	24.9	25.2	26.6
12H 4H	18.1	18.6	19.1	19.6	20.9	19.3	19.8	20.3	20.8	22.1
6H	20.0	20.4	21.0	21.4	22.7	21.5	21.9	22.5	23.0	24.3
8H	21.0	21.4	22.0	22.4	23.7	22.8	23.2	23.9	24.2	25.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 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, 2965 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.8)
 Area: 0.183 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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

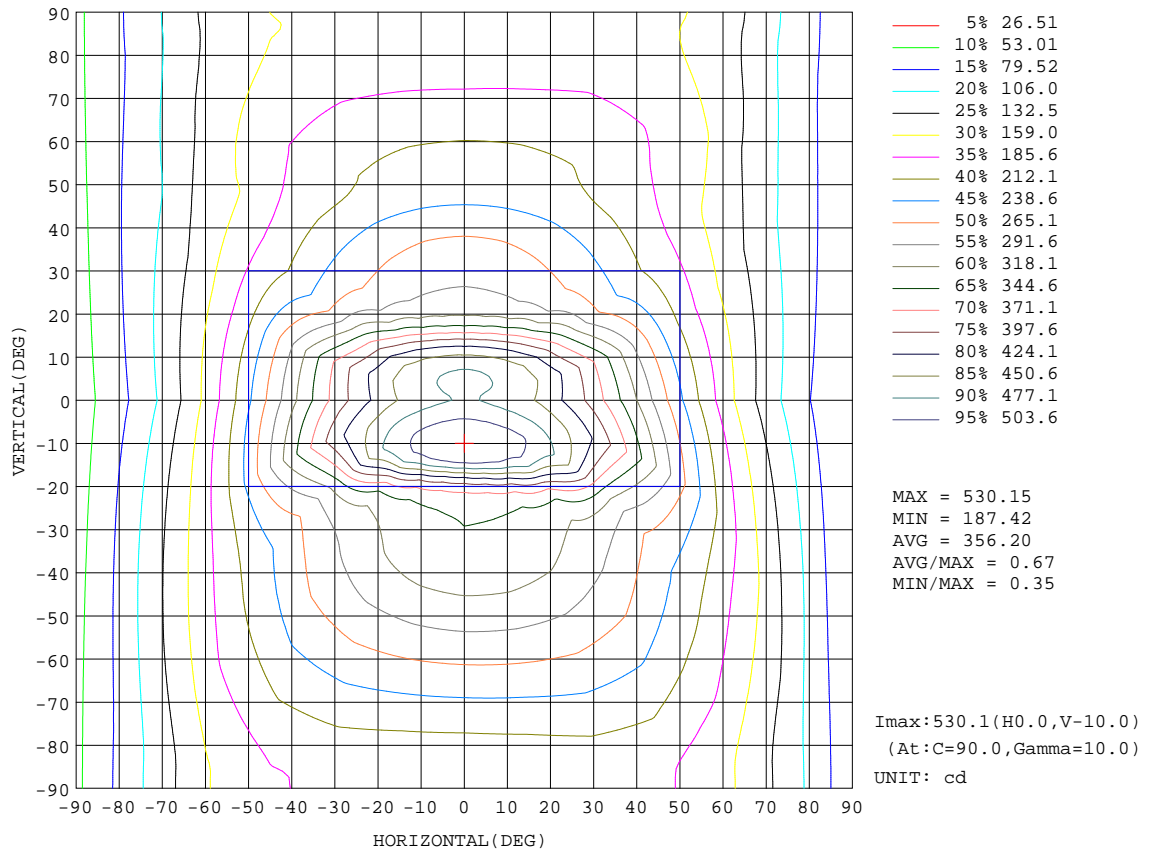
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	41	30	23	39	29	22	35	26	21	13
0.80	50	38	30	47	36	29	42	33	27	17
1.00	57	45	37	54	43	35	47	40	32	21
1.25	64	52	43	60	49	41	52	43	37	24
1.50	69	57	49	65	54	46	56	48	41	26
2.00	77	66	57	71	61	54	61	54	48	30
2.50	81	71	63	75	66	59	64	58	52	32
3.00	85	76	68	79	71	64	67	61	56	34
4.00	90	82	75	83	76	70	71	65	61	37
5.00	93	86	80	86	80	75	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

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:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp



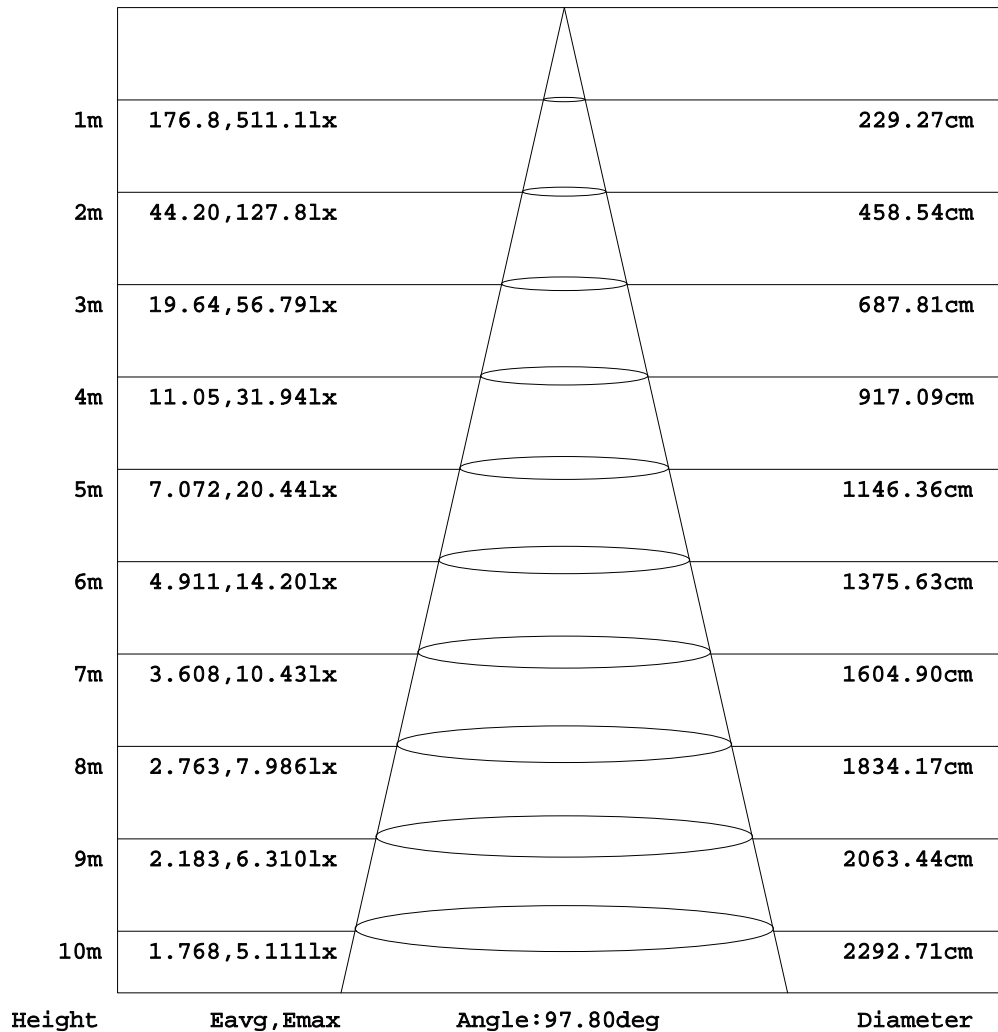
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Alan Wang
 Test Date: 17 October 2023

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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

Flux out:735.0 lm



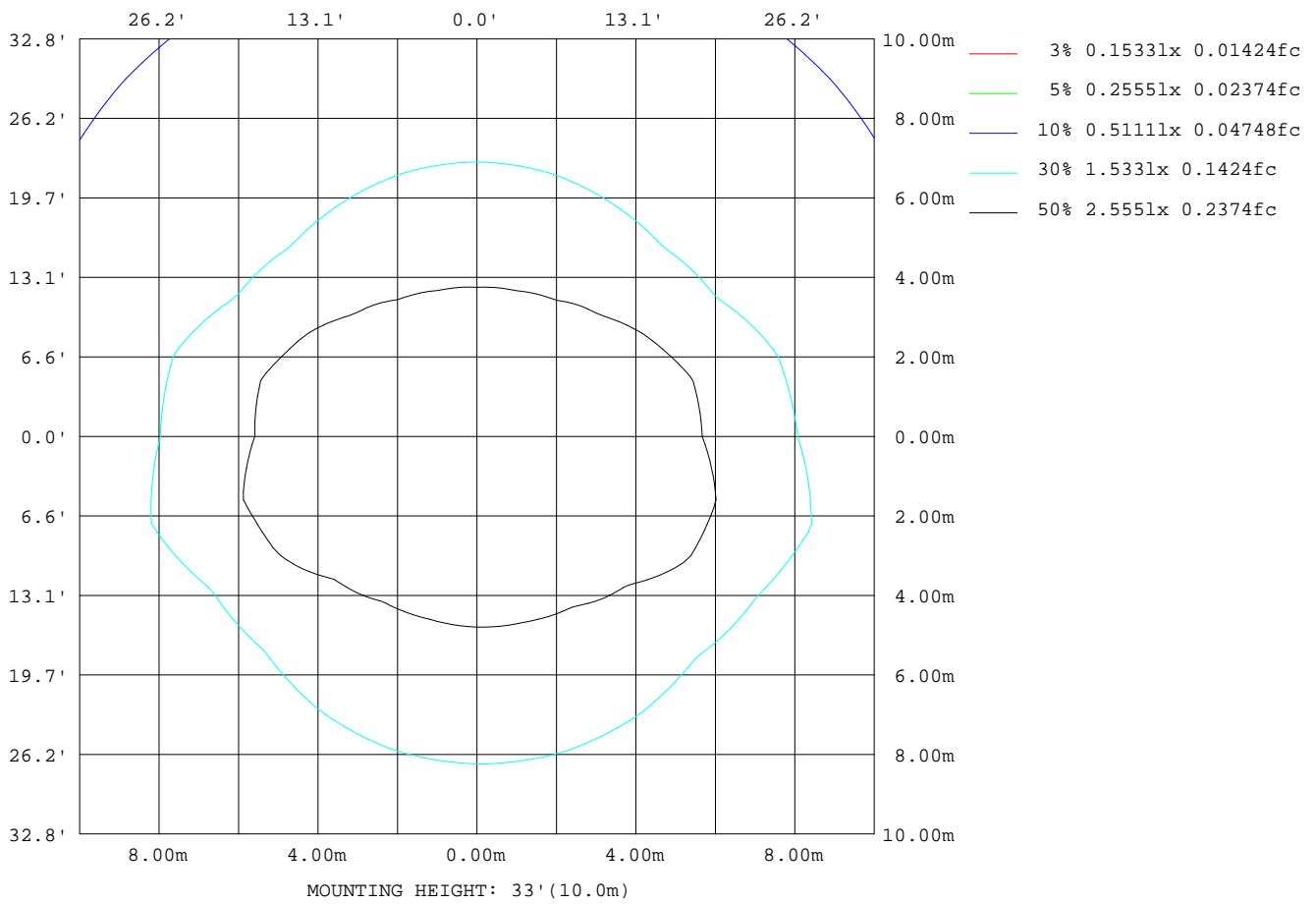
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp



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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

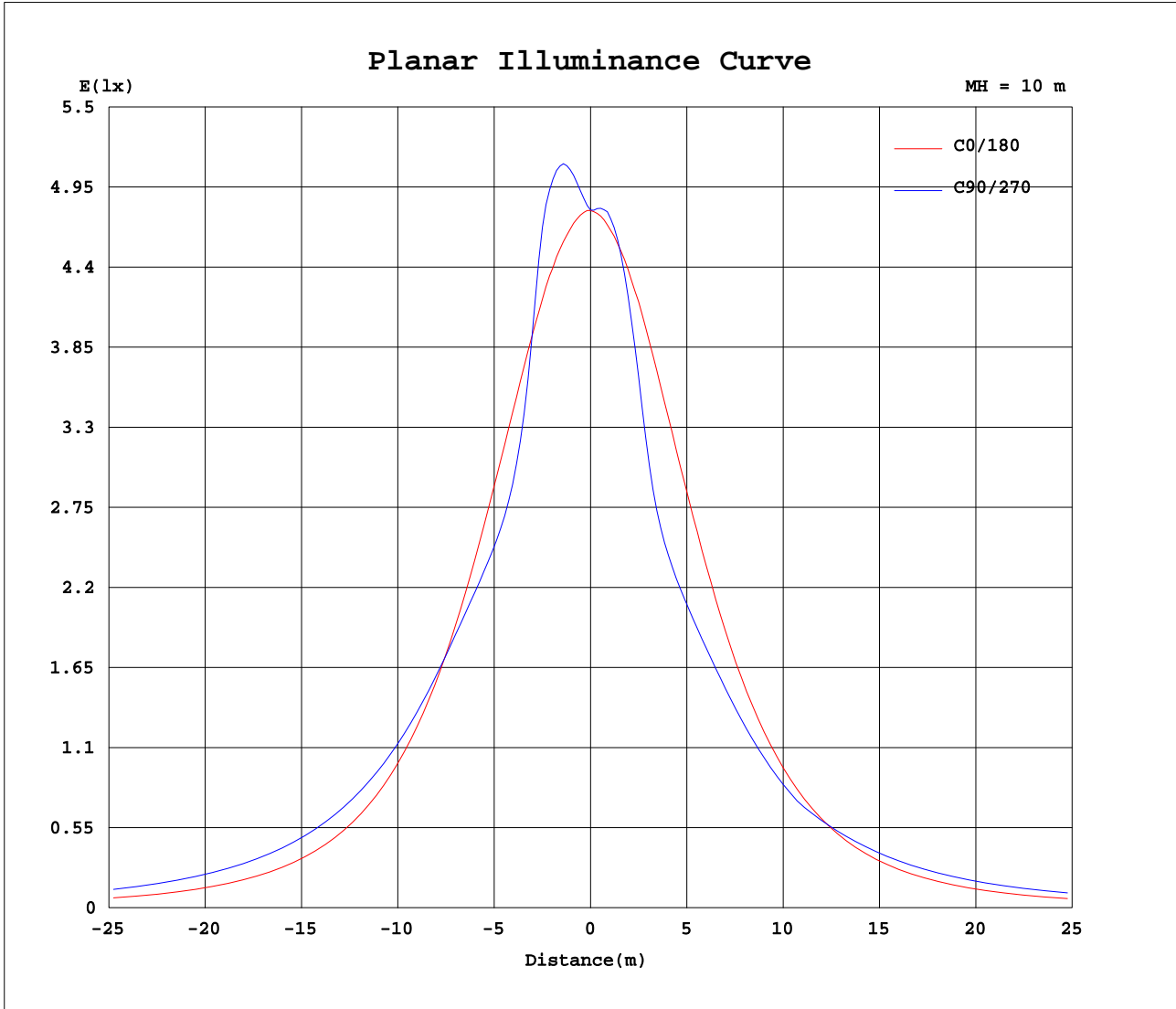
AvgL	cd/m2
L_0~180(65)av	1822
L_0~180(75)av	2006
L_0~180(85)av	3704
L_90~270(65)av	2931
L_90~270(75)av	4200
L_90~270(85)av	11119
L_45(65)av	2810
L_45(75)av	4150
L_45(85)av	11118

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

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:

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

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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
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	479	479	479	479	480	479	479	480	480	479	480	480	479	479	479	479	480	479	479
5	476	479	487	496	502	507	509	507	503	496	488	480	474	476	479	480	482	483	484
10	468	479	497	514	524	529	530	528	522	512	497	479	466	470	473	470	465	459	456
15	455	475	503	516	516	505	495	499	509	510	500	474	452	458	455	437	410	389	382
20	436	465	495	493	437	398	387	391	418	476	486	461	431	439	423	378	335	318	315
25	413	449	473	414	362	352	350	348	352	386	457	443	407	412	377	316	296	294	294
30	386	428	433	350	338	343	344	339	330	333	399	419	379	381	324	282	280	283	285
35	353	400	372	323	331	340	342	336	323	309	333	386	346	344	279	264	268	273	274
40	318	366	319	310	325	332	332	328	317	298	292	348	310	304	249	249	255	258	258
45	281	330	286	300	315	319	319	315	307	289	267	308	272	263	227	234	239	240	240
50	243	293	265	289	302	304	304	301	294	278	249	267	234	226	209	218	221	226	229
55	207	257	250	276	287	288	287	284	279	266	235	228	198	193	192	202	213	221	223
60	175	224	237	263	272	271	270	268	265	253	223	197	165	167	176	193	207	211	213
65	146	197	223	249	256	254	252	251	249	239	210	172	136	146	161	188	198	201	201
70	121	175	209	235	240	237	235	234	234	226	198	153	112	128	156	181	189	190	191
75	99.7	156	196	221	225	221	219	218	219	212	185	137	90.3	111	151	173	180	180	179
80	80.3	141	183	208	211	206	204	204	206	199	173	122	71.2	101	145	166	172	171	170
85	63.7	126	171	196	199	193	191	192	194	188	161	109	54.4	93.0	138	160	165	164	163
90	58.4	122	168	192	194	190	187	188	190	184	157	104	47.5	91.2	138	159	164	163	162
95	66.5	128	173	197	199	194	192	192	194	188	162	110	54.0	90.9	138	160	166	166	165
100	83.0	142	186	210	212	207	204	205	206	200	173	123	68.7	92.5	139	165	171	172	172
105	100	157	200	224	227	222	220	219	220	213	186	138	84.4	100	142	167	177	181	181
110	119	173	214	239	243	239	236	235	235	226	199	148	102	114	145	171	183	188	191
115	142	192	228	254	260	257	254	252	250	240	212	166	122	128	147	177	190	196	198
120	168	215	243	268	276	275	272	270	266	254	227	188	146	143	160	181	197	204	207
125	199	243	259	283	293	293	291	287	281	268	242	218	174	161	174	185	202	212	215
130	234	275	278	297	308	310	308	304	296	282	258	248	206	183	189	199	205	216	219
135	271	309	300	311	322	325	324	319	311	296	274	281	240	208	204	213	220	225	227
140	307	344	329	325	335	339	338	333	323	311	294	315	275	224	223	228	234	241	243
145	337	377	367	344	346	350	349	344	336	330	329	348	306	262	246	242	248	256	259
150	350	406	409	373	361	361	359	355	352	359	373	371	314	286	276	260	262	268	272
155	356	429	446	416	390	379	375	374	381	397	396	362	314	267	264	280	280	281	285
160	352	446	468	463	439	420	412	415	428	412	380	341	302	298	277	261	290	308	308
165	340	417	468	481	484	475	468	469	448	380	351	314	278	278	254	271	233	297	349
170	350	372	462	473	479	494	492	489	395	354	354	325	286	286	278	282	272	225	298
175	362	364	393	415	451	457	475	379	314	348	339	325	318	318	310	296	292	273	173
180	352	350	340	330	332	252	116	148	289	317	329	344	351	350	349	342	332	324	292

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:0.2874A P:33.88W PF:0.9822 Freq:60.00Hz Lamp Flux:2965.49x1 lm
NAME: ASD-LWS27A-48D36CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	480	480	479	480	480														
5	483	482	481	479	476														
10	458	464	471	473	471														
15	389	409	434	455	460														
20	318	334	375	419	441														
25	294	296	314	371	414														
30	283	280	281	320	380														
35	273	268	263	276	341														
40	258	255	249	247	299														
45	240	239	235	227	259														
50	226	221	219	210	223														
55	221	215	203	194	193														
60	212	210	197	179	169														
65	202	201	193	164	148														
70	191	192	186	163	131														
75	181	183	179	159	115														
80	171	174	172	153	108														
85	165	169	166	147	101														
90	164	169	168	149	101														
95	167	171	169	150	102														
100	174	178	175	155	107														
105	183	186	182	159	115														
110	193	194	188	164	130														
115	203	202	194	166	145														
120	209	209	197	178	164														
125	215	210	199	190	186														
130	218	211	210	206	213														
135	225	225	224	224	243														
140	240	238	238	245	267														
145	258	251	254	271	306														
150	273	270	275	302	337														
155	289	291	300	334	348														
160	312	321	335	358	354														
165	353	362	363	384	337														
170	396	396	383	361	353														
175	134	280	316	333	337														
180	154	192	286	321	335														

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: