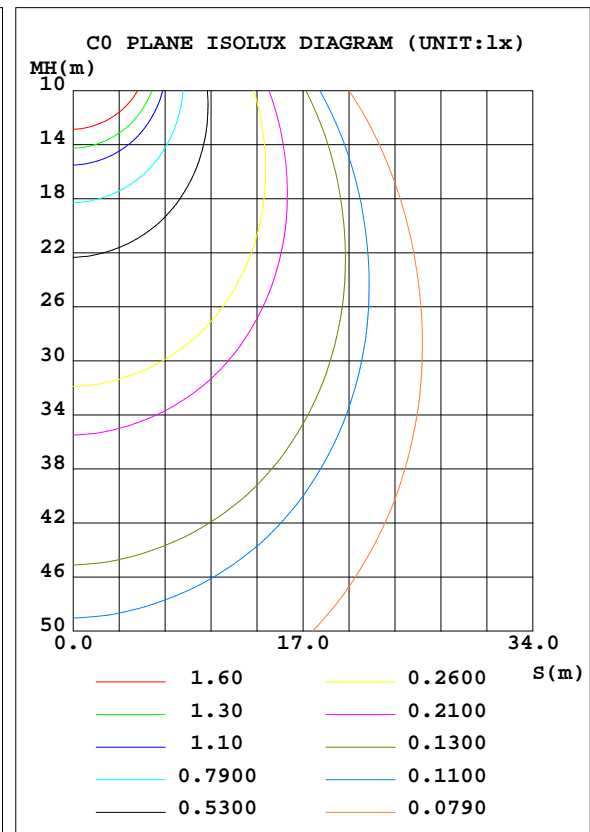
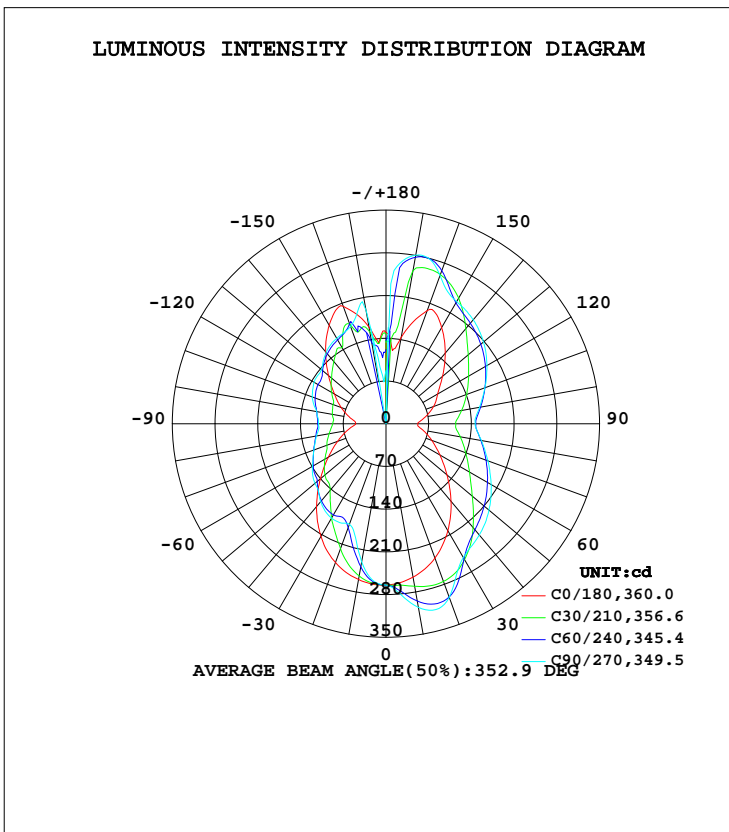


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24BK
SPEC.:5000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	LWS27A-24D24BK	Imax(cd)	315.3	S/MH(C0/180)	1.20
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.95
RATED VOLTAGE(V)	120-277	TOTAL FLUX(lm)	1932.9	η UP, DN(C0-180)	28.1,30.0
NOMINAL FLUX(lm)	1932.87	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	20.0,22.0
LAMPS INSIDE	1	η up(%)	48.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	51.9	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	255.2	283.9	305.5	292.1	259.2	246.2	229.8	242.5	0- 10	25.35	25.35	1.31,1.31
20	234.5	294.2	302.8	303.0	242.0	199.1	175.3	186.7	10- 20	71.94	97.29	5.03,5.03
30	202.7	264.5	253.3	266.2	212.9	160.6	178.6	165.2	20- 30	105.5	202.8	10.5,10.5
40	165.8	220.6	237.9	225.6	177.1	156.5	166.5	155.1	30- 40	126.8	329.5	17,17
50	130.7	196.0	220.3	205.6	140.4	142.7	151.7	139.5	40- 50	138.0	467.5	24.2,24.2
60	102.0	178.2	199.1	188.3	109.0	128.2	139.3	130.0	50- 60	141.5	609.0	31.5,31.5
70	79.99	161.9	177.7	171.8	84.47	119.4	126.0	120.3	60- 70	139.0	748.0	38.7,38.7
80	61.61	147.1	158.7	156.2	64.69	110.9	116.1	111.6	70- 80	132.3	880.3	45.5,45.5
90	52.21	137.5	146.1	143.8	49.94	105.1	110.7	105.5	80- 90	122.9	1003	51.9,51.9
100	65.52	148.1	155.7	151.5	60.23	108.3	115.4	110.0	90-100	121.8	1125	58.2,58.2
110	83.00	162.4	172.4	165.1	78.06	113.6	128.6	116.6	100-110	129.5	1255	64.9,64.9
120	97.91	176.6	191.2	178.9	97.72	115.5	136.1	117.9	110-120	133.8	1388	71.8,71.8
130	121.0	190.8	208.6	192.4	123.0	128.7	138.3	130.3	120-130	132.6	1521	78.7,78.7
140	151.1	205.9	222.4	205.8	154.1	141.9	152.7	142.0	130-140	127.2	1648	85.3,85.3
150	182.4	234.2	231.3	227.1	186.3	154.2	161.6	153.9	140-150	114.4	1763	91.2,91.2
160	197.4	269.0	258.7	265.8	204.8	172.4	170.0	175.5	150-160	93.73	1856	96,96
170	143.3	270.4	280.6	251.1	160.9	140.2	189.2	183.4	160-170	60.61	1917	99.2,99.2
180	149.9	119.1	0	122.9	149.9	136.2	87.36	49.02	170-180	15.99	1933	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 397.7 lm

%lum = 20.6%

%lamp = 20.6%

Conical surface Flux(120deg): 609 lm

%lum = 31.5%

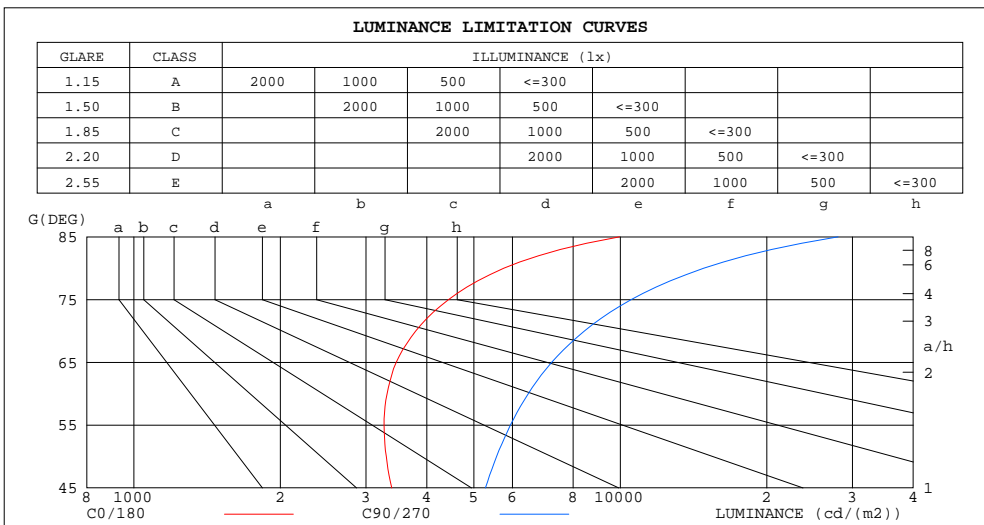
%lamp = 31.5%

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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp



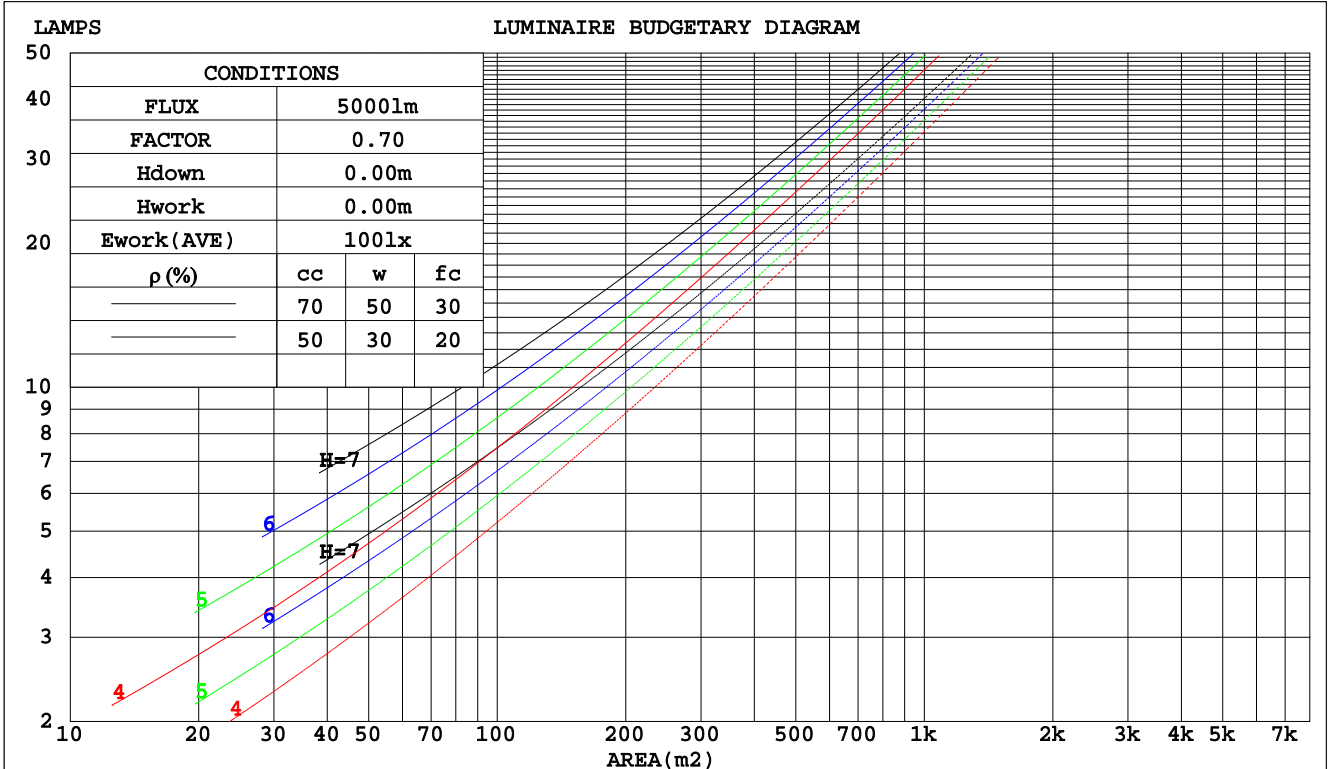
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 27.8DEG
 Operators: Alan Wang
 Test Date: 14 October 2023

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm		
NAME:ASD-LWS27A-24D24CCBK		
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	.84	.84	.84	.71	.71	.71	.58	.58	.58	.52
1.0	.90	.85	.80	.83	.78	.74	.70	.66	.63	.58	.55	.53	.47	.45	.43	.38
2.0	.77	.70	.64	.71	.65	.59	.60	.55	.51	.49	.46	.42	.40	.37	.34	.30
3.0	.67	.59	.52	.62	.54	.48	.52	.46	.41	.43	.38	.35	.34	.31	.28	.24
4.0	.59	.50	.43	.54	.46	.40	.46	.40	.35	.38	.33	.29	.30	.27	.24	.20
5.0	.52	.43	.37	.48	.40	.34	.41	.34	.30	.34	.29	.25	.27	.23	.20	.17
6.0	.47	.38	.32	.43	.35	.30	.37	.30	.26	.30	.25	.22	.25	.21	.18	.15
7.0	.42	.33	.28	.39	.31	.26	.33	.27	.22	.28	.23	.19	.22	.19	.16	.13
8.0	.38	.30	.24	.35	.28	.23	.30	.24	.20	.25	.20	.17	.21	.17	.14	.12
9.0	.35	.27	.21	.32	.25	.20	.28	.22	.18	.23	.18	.15	.19	.15	.13	.10
10.0	.32	.24	.19	.30	.23	.18	.25	.20	.16	.21	.17	.14	.18	.14	.11	.09



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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm															
NAME:ASD-LWS27A-24D24CCBK															
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	.296	.170	.054	.259	.149	.048	.224	.130	.042	
2.0	.309	.169	.052	.289	.159	.049	.252	.140	.044	.218	.122	.038	.186	.105	.033	
3.0	.275	.146	.044	.257	.137	.041	.223	.121	.037	.191	.105	.032	.162	.090	.028	
4.0	.248	.129	.038	.231	.121	.036	.200	.106	.032	.171	.092	.028	.144	.078	.024	
5.0	.226	.115	.033	.211	.108	.031	.182	.095	.028	.155	.082	.024	.130	.070	.021	
6.0	.207	.104	.030	.193	.098	.028	.167	.086	.025	.142	.074	.022	.119	.063	.019	
7.0	.192	.095	.027	.179	.089	.025	.154	.078	.022	.131	.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	.125	.061	.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	.557	.557	.557	.476	.476	.476	.325	.325	.325	.187	.187	.187	.060	.060	.060	
1.0	.553	.525	.500	.473	.451	.430	.324	.310	.298	.186	.179	.173	.060	.058	.056	
2.0	.547	.504	.468	.468	.434	.404	.321	.300	.282	.185	.175	.165	.059	.056	.054	
3.0	.539	.488	.448	.462	.421	.388	.317	.293	.272	.183	.171	.160	.059	.055	.053	
4.0	.532	.477	.434	.457	.412	.377	.314	.287	.266	.182	.168	.157	.058	.055	.052	
5.0	.525	.467	.425	.451	.404	.370	.311	.282	.261	.180	.166	.155	.058	.054	.051	
6.0	.518	.460	.418	.445	.398	.364	.307	.279	.258	.178	.164	.153	.058	.054	.051	
7.0	.512	.454	.413	.440	.393	.360	.304	.276	.255	.177	.162	.152	.057	.053	.050	
8.0	.505	.449	.409	.435	.389	.357	.301	.273	.253	.175	.161	.151	.057	.053	.050	
9.0	.500	.444	.407	.430	.385	.355	.298	.271	.252	.174	.160	.150	.056	.053	.050	
10.0	.494	.440	.404	.426	.382	.353	.296	.269	.251	.172	.159	.150	.056	.052	.050	

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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm										
NAME:ASD-LWS27A-24D24CCBK										
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	14.4	15.4	15.3	16.3	17.4	16.6	17.6	17.4	18.5	19.6
3H	16.3	17.3	17.2	18.2	19.3	19.3	20.2	20.1	21.1	22.2
4H	17.4	18.2	18.2	19.1	20.3	20.8	21.7	21.7	22.6	23.7
6H	18.4	19.3	19.3	20.2	21.3	22.5	23.3	23.4	24.2	25.4
8H	19.0	19.8	19.9	20.7	21.9	23.4	24.2	24.3	25.1	26.3
12H	19.7	20.4	20.6	21.3	22.5	24.5	25.3	25.4	26.2	27.4
4H 2H	15.7	16.6	16.6	17.5	18.7	17.2	18.1	18.1	19.0	20.1
3H	18.0	18.7	18.9	19.7	20.9	20.2	20.9	21.1	21.9	23.0
4H	19.2	19.9	20.2	20.9	22.1	21.9	22.6	22.8	23.5	24.7
6H	20.5	21.1	21.4	22.1	23.3	23.8	24.4	24.7	25.3	26.6
8H	21.1	21.7	22.1	22.7	23.9	24.8	25.4	25.8	26.3	27.6
12H	21.9	22.4	22.8	23.4	24.6	26.0	26.5	27.0	27.5	28.8
8H 4H	20.4	20.9	21.3	21.9	23.2	22.3	22.9	23.3	23.9	25.1
6H	22.0	22.5	23.0	23.5	24.8	24.6	25.0	25.5	26.0	27.3
8H	22.9	23.4	23.9	24.4	25.7	25.8	26.2	26.8	27.3	28.6
12H	23.9	24.2	24.9	25.3	26.6	27.3	27.7	28.3	28.7	30.0
12H 4H	20.7	21.2	21.7	22.2	23.5	22.4	22.9	23.4	23.9	25.2
6H	22.6	23.0	23.6	24.0	25.3	24.8	25.2	25.8	26.2	27.5
8H	23.7	24.0	24.7	25.0	26.4	26.2	26.5	27.2	27.5	28.9
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, 1933 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.3)
 Area: 0.06157 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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

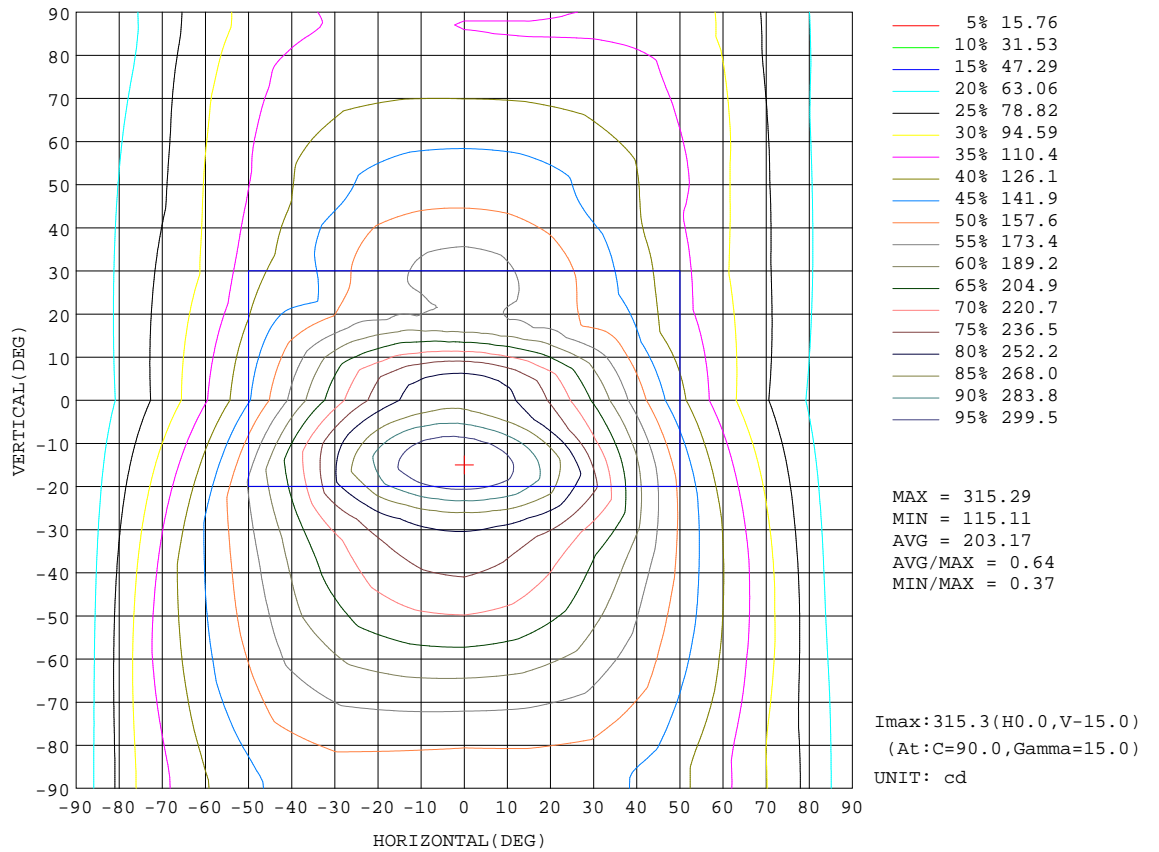
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	40	29	22	38	27	21	35	25	20	12
0.80	49	37	29	46	35	28	41	32	25	16
1.00	57	44	35	53	41	34	47	39	31	19
1.25	63	51	42	59	48	40	52	43	36	23
1.50	69	56	48	64	53	45	55	47	40	25
2.00	76	65	56	71	60	53	61	53	47	29
2.50	81	70	62	75	66	58	64	57	51	31
3.00	84	75	67	78	70	63	67	60	55	34
4.00	89	81	74	83	75	69	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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp



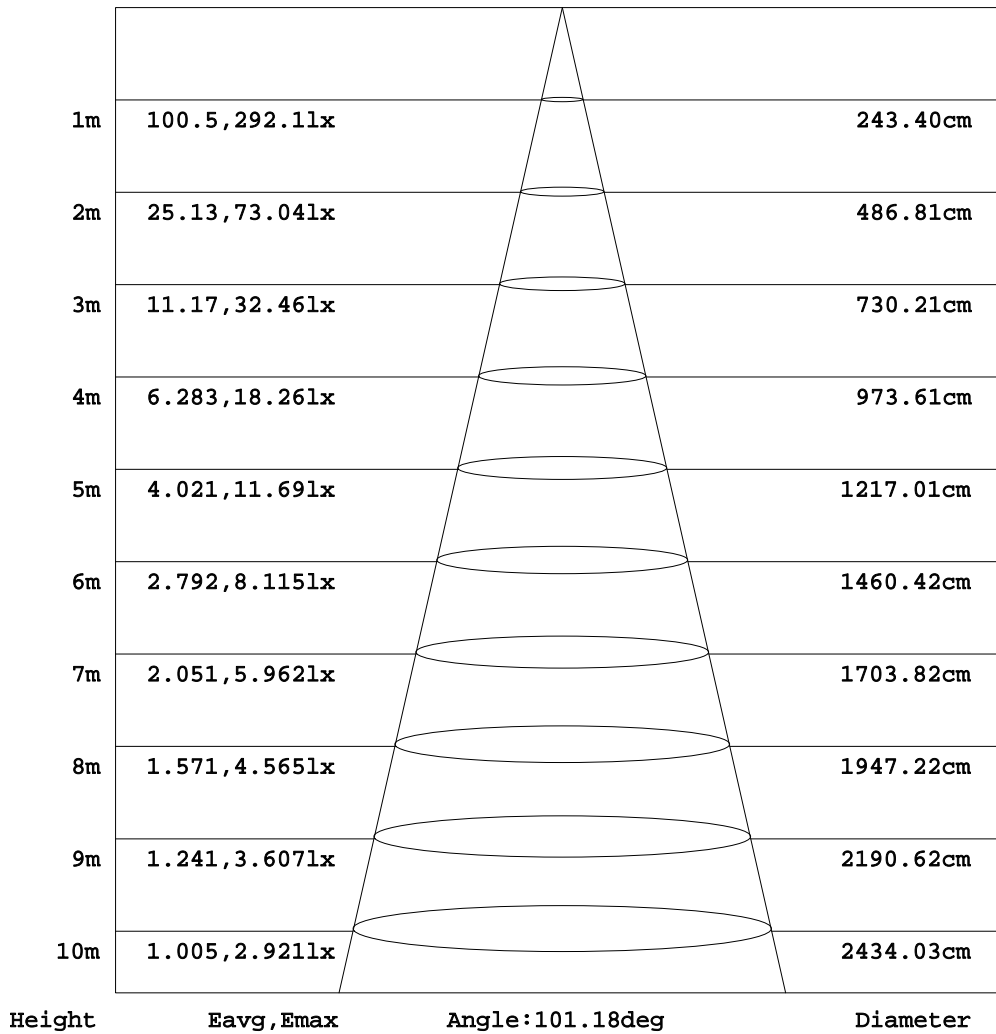
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 27.8DEG
 Operators: Alan Wang
 Test Date: 14 October 2023

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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

Flux out:481.6 lm



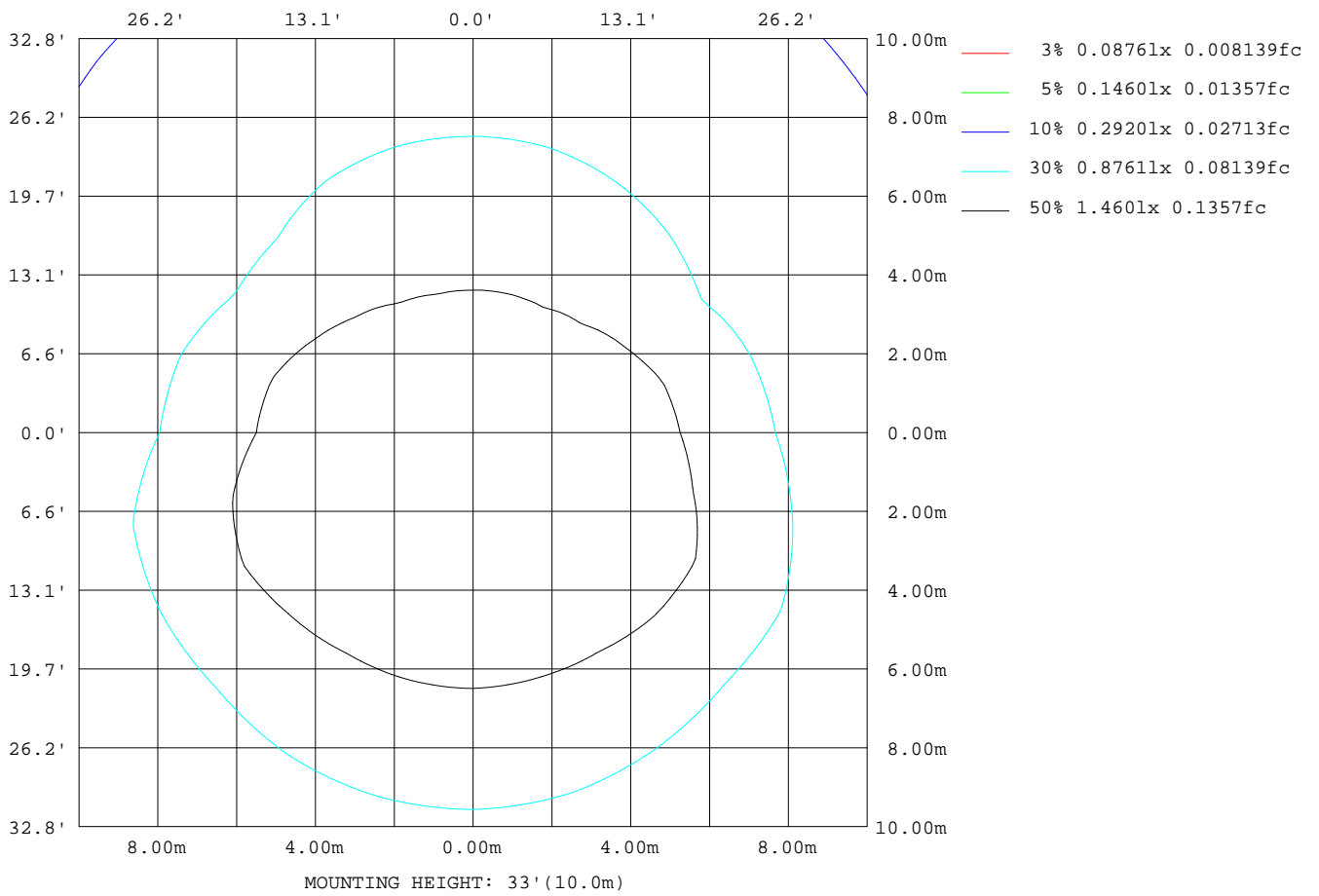
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

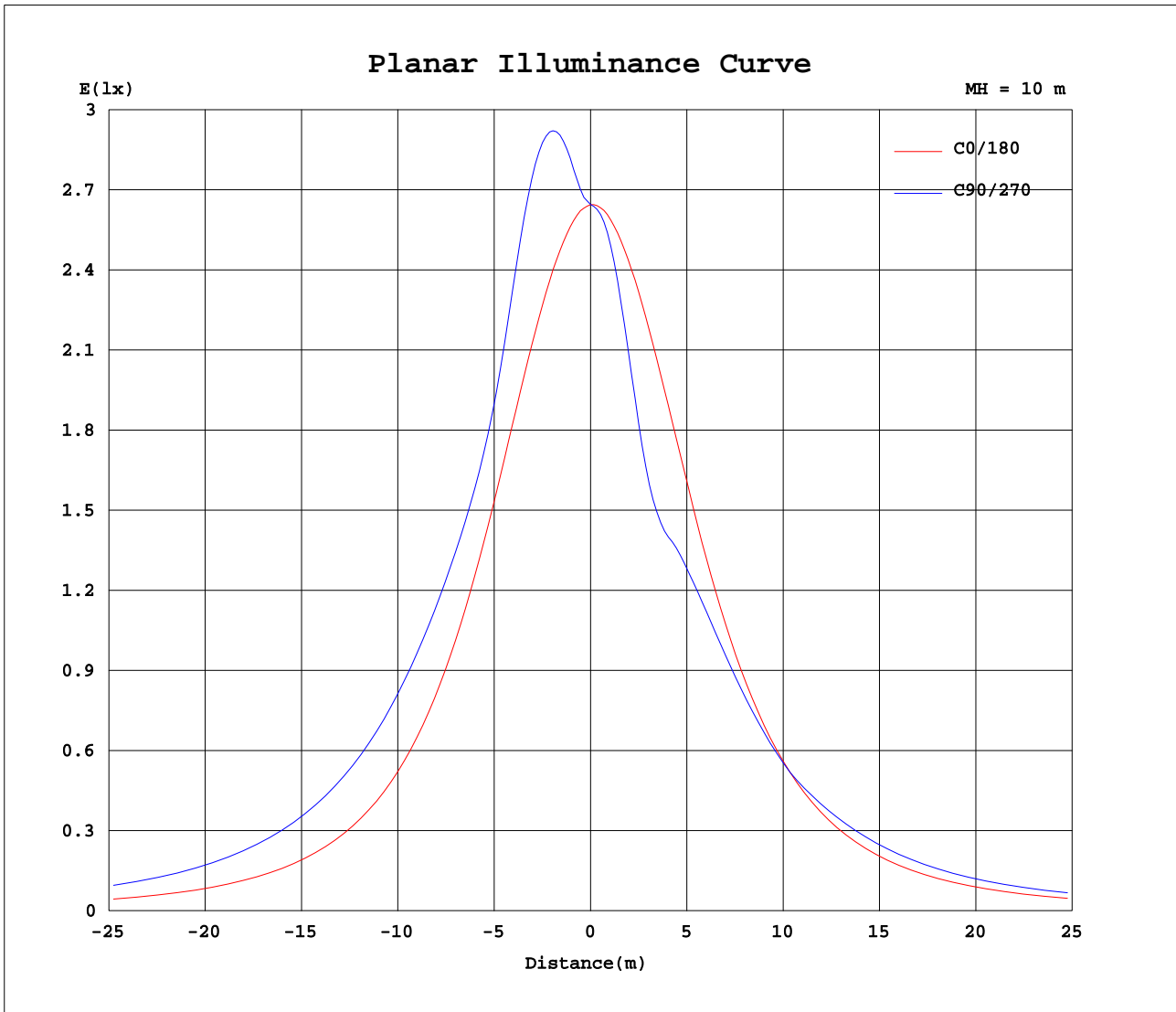
AvgL	cd/m2
L_0~180(65)av	3575
L_0~180(75)av	4545
L_0~180(85)av	10178
L_90~270(65)av	6148
L_90~270(75)av	9040
L_90~270(85)av	24346
L_45(65)av	5766
L_45(75)av	8604
L_45(85)av	23484

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:27.8DEG
 Operators:Alan Wang
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γ Range: 0 - 180DEG
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 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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
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	264	264	264	264	265	265	265	265	265	265	265	265	264	264	264	264	265	265	265
5	261	263	265	271	275	279	281	281	278	275	270	266	264	263	262	260	259	257	257
10	255	259	270	284	295	302	305	305	301	292	279	266	259	258	253	246	238	232	230
15	246	254	275	294	306	313	315	315	312	303	288	266	252	249	238	222	209	197	193
20	234	247	275	294	302	303	303	304	306	303	289	264	242	237	218	199	181	175	175
25	219	237	269	284	283	276	273	276	282	290	283	257	229	222	197	176	169	176	179
30	203	225	257	265	256	253	253	254	256	266	270	247	213	203	179	161	172	177	179
35	184	211	241	241	237	241	245	244	241	242	251	234	196	184	159	159	170	174	174
40	166	195	222	221	227	234	238	237	233	226	229	217	177	166	142	157	165	167	167
45	148	178	203	206	218	227	230	229	225	215	208	200	158	150	135	150	157	157	157
50	131	162	185	196	210	217	220	220	216	206	192	183	140	134	131	143	147	151	152
55	115	147	170	187	201	208	210	210	207	197	180	167	124	119	123	134	143	146	147
60	102	134	158	178	192	197	199	200	198	188	170	152	109	104	116	128	138	139	139
65	90.1	122	148	170	183	187	188	189	188	180	161	140	96.0	94.9	108	125	132	132	132
70	80.0	112	139	162	174	177	178	179	179	172	153	129	84.5	87.3	103	119	126	127	126
75	70.7	103	131	154	166	168	168	169	170	164	145	120	74.2	79.4	99.2	115	121	121	120
80	61.6	94.6	124	147	158	159	159	160	162	156	137	112	64.7	71.8	94.7	111	117	117	116
85	53.5	86.9	116	140	150	151	150	152	154	149	130	104	55.8	66.9	90.7	107	113	113	111
90	52.2	85.3	114	138	147	147	146	147	149	144	125	98.0	49.9	63.7	87.4	105	112	113	111
95	57.2	90.1	119	141	150	150	148	149	151	145	126	99.2	52.0	63.2	86.4	106	113	113	112
100	65.5	98.0	126	148	157	157	156	156	158	152	133	106	60.2	66.3	89.4	108	115	116	115
105	74.1	106	133	155	165	165	164	164	165	158	139	114	68.9	71.4	90.9	111	120	123	123
110	83.0	114	141	162	173	174	172	173	172	165	146	121	78.1	78.0	92.2	114	124	128	129
115	90.7	123	148	170	180	182	182	181	180	172	153	130	87.8	84.7	95.8	115	127	133	133
120	97.9	133	157	177	188	191	191	190	188	179	160	139	97.7	91.8	103	115	128	136	136
125	108	145	165	184	196	200	200	199	196	186	168	149	109	99.7	110	122	129	136	137
130	121	159	176	191	203	208	209	207	203	192	176	162	123	109	116	129	136	139	138
135	136	173	188	198	209	215	216	214	209	199	185	177	138	118	125	136	143	147	146
140	151	188	204	206	215	221	222	220	215	206	198	192	154	127	133	142	150	153	153
145	167	204	221	217	221	225	227	225	220	214	214	208	171	139	143	148	155	158	158
150	182	218	238	234	229	230	231	230	227	227	233	224	186	156	144	154	159	161	162
155	197	230	251	254	246	241	239	239	241	247	250	219	201	178	167	165	163	164	164
160	197	238	260	269	267	262	259	259	263	266	262	230	205	200	174	172	174	171	170
165	173	211	263	275	280	280	279	279	278	275	257	216	186	182	161	165	165	187	186
170	143	169	255	270	277	280	281	280	278	251	191	178	161	160	152	140	135	137	189
175	121	128	149	177	257	263	264	263	190	165	147	139	133	133	132	126	119	102	84.2
180	150	147	135	119	137	26.7	0.00	40.3	84.0	123	143	149	150	150	147	136	122	119	87.4

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:0.2054A P:24.33W PF:0.9870 Freq:60.00Hz Lamp Flux:1932.87x1 lm
NAME:ASD-LWS27A-24D24CCBK
SPEC.:5000K
MFR.: ASD Lighting Corp

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	265	265	265	265	265														
5	257	258	260	260	261														
10	231	236	242	250	254														
15	196	202	216	231	243														
20	176	176	187	208	228														
25	178	172	168	184	209														
30	177	172	165	163	190														
35	173	168	161	151	171														
40	166	162	155	145	152														
45	156	153	148	138	134														
50	151	145	139	130	120														
55	146	142	132	122	112														
60	139	137	130	114	103														
65	132	131	125	110	95.1														
70	126	125	120	107	87.4														
75	121	121	116	103	81.3														
80	116	117	112	98.9	76.4														
85	110	110	108	94.8	71.0														
90	111	110	106	93.1	68.6														
95	112	112	107	93.6	68.7														
100	116	116	110	95.8	69.9														
105	123	122	114	97.9	74.2														
110	128	127	117	98.2	81.3														
115	133	130	118	100	88.5														
120	136	132	118	106	95.6														
125	136	132	123	113	103														
130	139	138	130	120	112														
135	147	144	136	128	120														
140	154	150	142	135	129														
145	160	154	148	144	138														
150	164	158	154	154	149														
155	167	163	162	166	161														
160	171	172	175	180	169														
165	186	189	193	190	134														
170	211	211	183	131	129														
175	72.6	100	93.4	107	113														
180	0.00	48.5	49.0	121	136														

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: