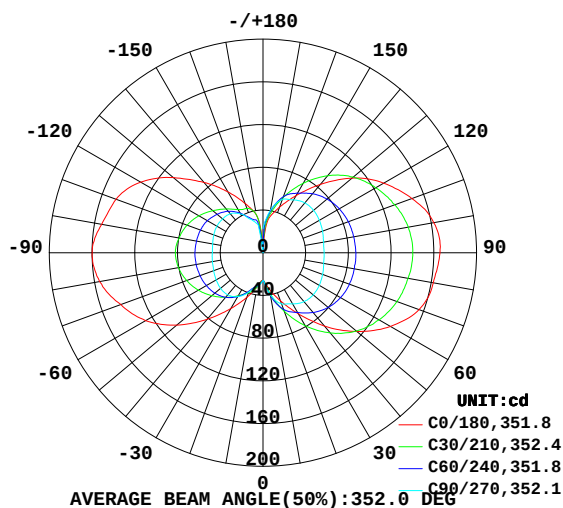


LUMINAIRE PHOTOMETRIC TEST REPORT

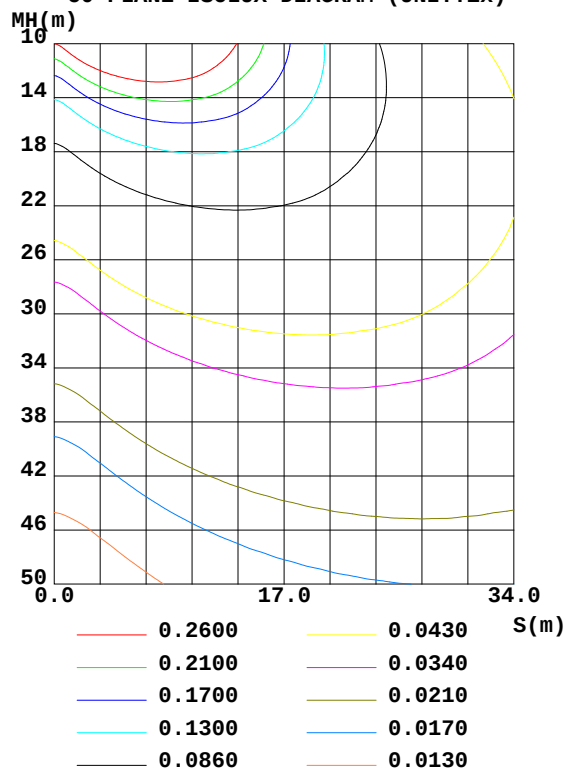
Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
MFR.: ASD Lighting Corp

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.98 lm/W			
MODEL ASD-LWS27A-24D24SM-RGB-BK		BHmax(cd)	202.7	S/MH(C0/180)	3.68
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	2.43
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1034.2	η UP, DN(C0-180)	29.6, 29.6
NOMINAL FLUX(lm)	1034.17	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	20.0, 20.7
LAMPS INSIDE	1	η up(%)	49.7	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	50.3	CIBSE SHR MAX	1.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
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	34.71	40.62	40.07	38.27	32.23	31.69	32.06	34.33	0- 10	3.024	3.024	0.29,0.29
20	47.88	58.73	50.90	55.62	44.53	36.81	39.25	40.21	10- 20	11.92	14.94	1.45,1.45
30	65.86	71.87	55.32	68.99	60.32	44.60	47.50	48.31	20- 30	24.72	39.66	3.83,3.83
40	89.72	81.11	59.81	78.14	81.22	52.46	51.39	56.89	30- 40	40.73	80.39	7.77,7.77
50	114.8	91.62	61.44	88.67	105.5	59.01	51.91	64.46	40- 50	58.80	139.2	13.5,13.5
60	137.9	101.0	60.94	98.23	127.1	64.25	50.72	70.91	50- 60	76.77	216.0	20.9,20.9
70	155.5	107.9	59.45	106.2	141.6	68.00	49.20	75.38	60- 70	92.21	308.2	29.8,29.8
80	162.0	111.6	57.80	111.4	155.4	70.76	48.16	77.30	70- 80	103.3	411.5	39.8,39.8
90	165.7	112.9	57.26	113.7	159.9	71.45	47.45	77.10	80- 90	109.1	520.6	50.3,50.3
100	162.4	111.1	57.67	113.1	153.5	70.06	47.94	74.85	90-100	109.0	629.6	60.9,60.9
110	148.4	106.3	59.37	108.2	146.5	67.50	49.05	69.99	100-110	102.6	732.1	70.8,70.8
120	130.4	98.80	60.97	101.6	132.3	62.72	49.89	62.89	110-120	91.07	823.2	79.6,79.6
130	108.9	89.84	61.88	92.46	109.6	56.59	49.30	55.42	120-130	75.47	898.7	86.9,86.9
140	83.55	79.88	61.03	83.18	86.00	49.75	47.78	47.42	130-140	57.51	956.2	92.5,92.5
150	61.65	70.60	57.22	74.81	66.03	42.33	42.02	39.30	140-150	39.84	996.0	96.3,96.3
160	45.46	56.82	53.12	60.00	49.26	37.35	33.24	34.51	150-160	24.20	1020	98.6,98.6
170	33.26	38.11	40.55	40.26	36.00	33.65	26.71	29.15	160-170	11.73	1032	99.8,99.8
180	0	0	22.64	0	0.0720	0.0875	0.0638	0.0663	170-180	2.238	1034	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 107.48 lm

%lum = 10.4%

%lamp = 10.4%

Conical surface Flux(120deg): 215.95 lm

%lum = 20.9%

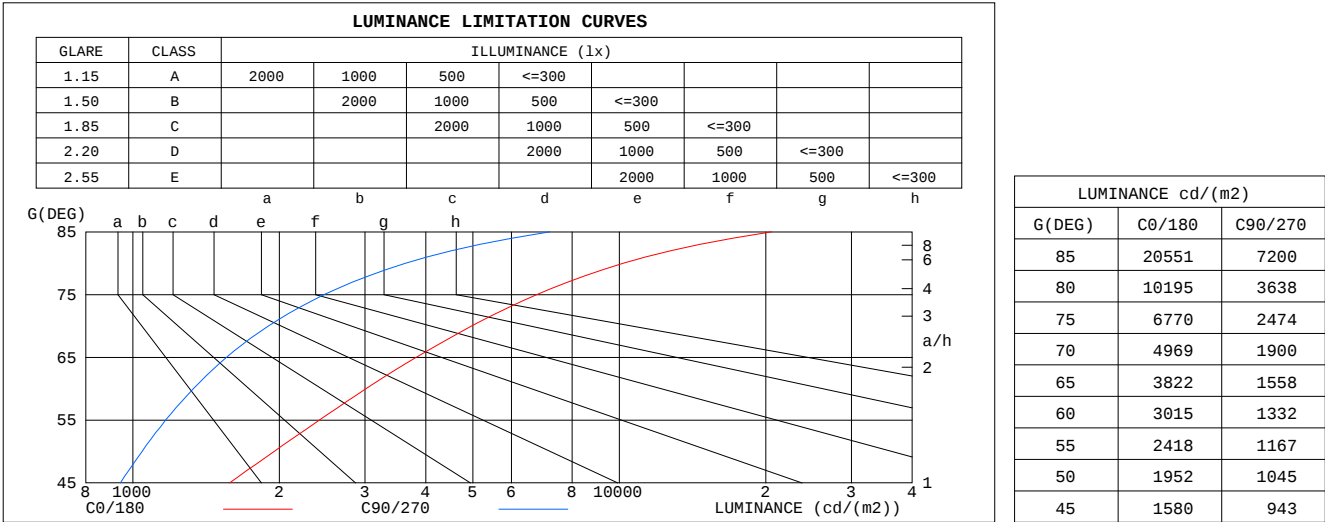
%lamp = 20.9%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
MFR.: ASD Lighting Corp



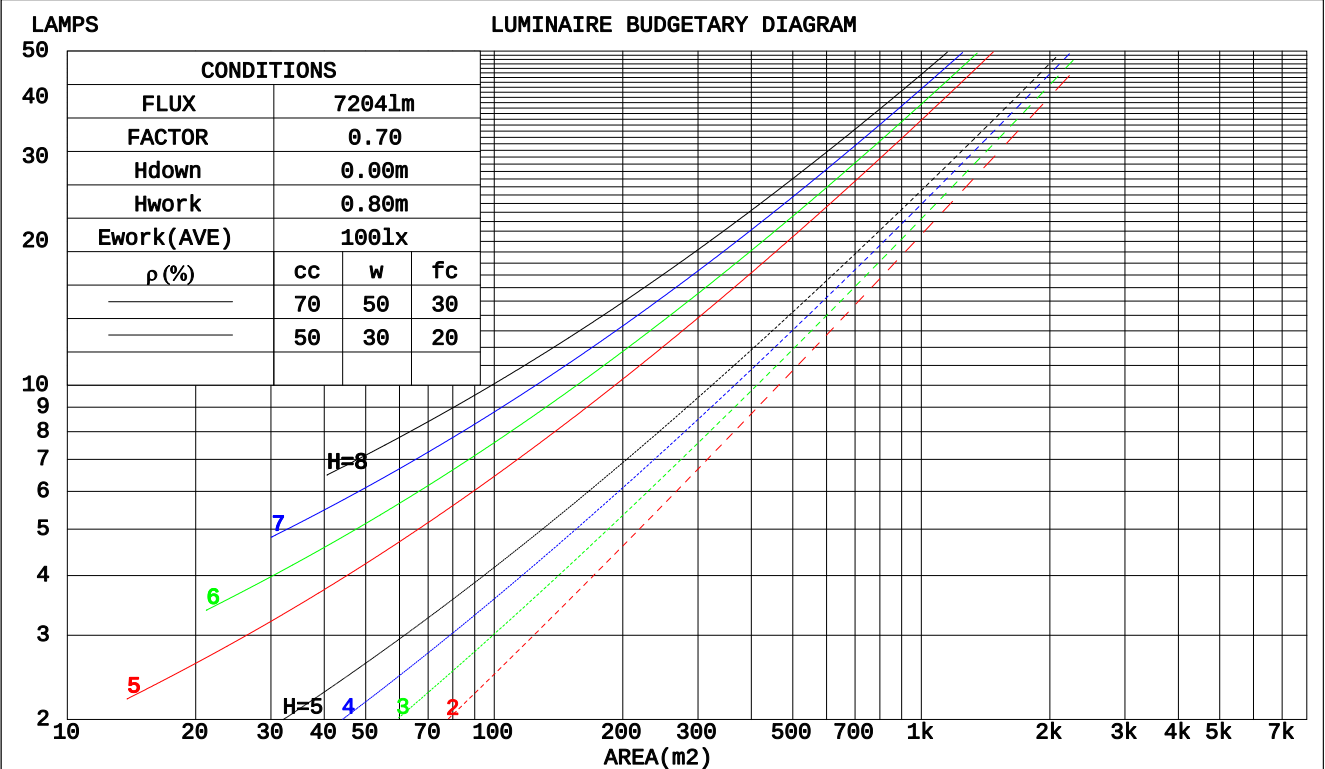
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
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						Coefficients of Utilization(CU)									
0.0	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.69	.69	.69	.56	.56	.56	.50
1.0	.86	.80	.75	.79	.73	.69	.65	.61	.57	.53	.50	.47	.41	.39	.37	.31
2.0	.72	.64	.57	.66	.58	.52	.54	.48	.43	.43	.39	.35	.33	.30	.27	.22
3.0	.62	.52	.45	.56	.48	.41	.46	.40	.34	.37	.32	.27	.28	.24	.21	.16
4.0	.53	.44	.36	.49	.40	.34	.40	.33	.28	.32	.26	.22	.24	.20	.17	.13
5.0	.47	.37	.30	.43	.34	.28	.35	.28	.23	.28	.22	.18	.21	.17	.14	.10
6.0	.42	.32	.26	.38	.30	.23	.31	.24	.19	.25	.19	.15	.19	.15	.11	.08
7.0	.37	.28	.22	.34	.26	.20	.28	.21	.17	.22	.17	.13	.17	.13	.10	.07
8.0	.33	.25	.19	.31	.23	.17	.25	.19	.14	.20	.15	.11	.15	.11	.08	.06
9.0	.30	.22	.16	.28	.20	.15	.23	.17	.12	.18	.13	.10	.14	.10	.07	.05
10.0	.28	.20	.14	.25	.18	.13	.21	.15	.11	.17	.12	.09	.13	.09	.06	.04



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
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 Coeffcients(WEC)										
0.0																	
1.0	.426	.242	.077	.404	.230	.073	.362	.208	.066	.324	.187	.060	.288	.167	.054		
2.0	.353	.193	.059	.333	.183	.056	.294	.164	.051	.259	.145	.045	.226	.128	.040		
3.0	.306	.163	.049	.288	.154	.046	.253	.137	.042	.220	.121	.037	.190	.105	.033		
4.0	.272	.141	.041	.255	.133	.039	.222	.118	.035	.192	.103	.031	.165	.089	.027		
5.0	.244	.125	.036	.229	.117	.034	.199	.104	.031	.172	.091	.027	.146	.078	.023		
6.0	.222	.111	.032	.208	.105	.030	.180	.093	.027	.155	.081	.024	.131	.069	.020		
7.0	.204	.101	.029	.190	.095	.027	.165	.084	.024	.141	.073	.021	.119	.062	.018		
8.0	.188	.092	.026	.176	.087	.024	.152	.076	.022	.130	.066	.019	.109	.056	.016		
9.0	.175	.084	.024	.163	.080	.022	.141	.070	.020	.121	.060	.017	.101	.051	.015		
10.0	.163	.078	.022	.152	.074	.021	.132	.065	.018	.112	.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	.569	.569	.569	.486	.486	.486	.332	.332	.332	.191	.191	.191	.061	.061	.061	
1.0	.570	.537	.507	.488	.461	.436	.334	.317	.302	.192	.183	.175	.061	.059	.057	
2.0	.564	.516	.475	.483	.444	.410	.331	.307	.286	.191	.179	.168	.061	.058	.055	
3.0	.558	.501	.455	.478	.432	.395	.328	.300	.277	.190	.175	.163	.061	.057	.053	
4.0	.550	.489	.443	.472	.423	.385	.325	.295	.271	.188	.173	.160	.060	.056	.053	
5.0	.543	.480	.434	.466	.416	.378	.321	.290	.267	.186	.170	.158	.060	.056	.052	
6.0	.536	.473	.428	.460	.410	.373	.318	.287	.264	.184	.169	.157	.059	.055	.052	
7.0	.529	.467	.424	.455	.405	.369	.314	.284	.262	.183	.167	.156	.059	.055	.052	
8.0	.522	.462	.420	.449	.401	.367	.311	.281	.260	.181	.166	.155	.059	.054	.051	
9.0	.516	.457	.418	.444	.397	.365	.308	.279	.259	.179	.165	.154	.058	.054	.051	
10.0	.510	.454	.416	.440	.394	.363	.305	.277	.258	.178	.164	.154	.058	.054	.051	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm										
NAME:ASD-LWS27A-24D18SM-RGB-BK										
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	14.9	16.0	15.7	16.9	18.0	10.3	11.4	11.2	12.3	13.5
3H	18.9	19.9	19.8	20.9	22.0	13.1	14.1	14.0	15.0	16.2
4H	21.0	22.0	21.9	22.9	24.1	14.7	15.6	15.6	16.5	17.8
6H	23.2	24.1	24.1	25.0	26.3	16.4	17.3	17.3	18.3	19.5
8H	24.3	25.2	25.3	26.2	27.4	17.4	18.3	18.3	19.2	20.5
12H	25.6	26.5	26.6	27.4	28.7	18.6	19.4	19.5	20.4	21.6
4H 2H	15.3	16.2	16.2	17.2	18.4	12.4	13.3	13.3	14.2	15.5
3H	19.6	20.4	20.5	21.3	22.6	15.1	15.9	16.0	16.9	18.1
4H	22.0	22.7	22.9	23.7	25.0	16.7	17.4	17.6	18.4	19.7
6H	24.5	25.2	25.5	26.2	27.5	18.4	19.1	19.4	20.1	21.4
8H	25.9	26.5	26.9	27.5	28.8	19.4	20.0	20.4	21.0	22.3
12H	27.3	27.9	28.3	28.9	30.3	20.5	21.1	21.5	22.1	23.5
8H 4H	22.2	22.8	23.2	23.8	25.1	18.3	18.9	19.3	19.9	21.2
6H	25.1	25.6	26.1	26.6	28.0	20.2	20.8	21.2	21.8	23.1
8H	26.7	27.2	27.7	28.2	29.6	21.3	21.8	22.3	22.8	24.2
12H	28.6	29.0	29.6	30.1	31.4	22.5	23.0	23.6	24.0	25.4
12H 4H	22.2	22.8	23.2	23.8	25.1	18.9	19.5	19.9	20.5	21.8
6H	25.2	25.7	26.2	26.7	28.0	21.0	21.5	22.0	22.5	23.9
8H	26.9	27.4	27.9	28.4	29.7	22.2	22.6	23.2	23.7	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.2				
2.0H	+ 0.4 / - 0.6					+ 0.3 / - 0.4				

CIE Pub.117, 1034 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 0.1$)
Area: 0.0915 m²

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
MFR.: ASD Lighting Corp

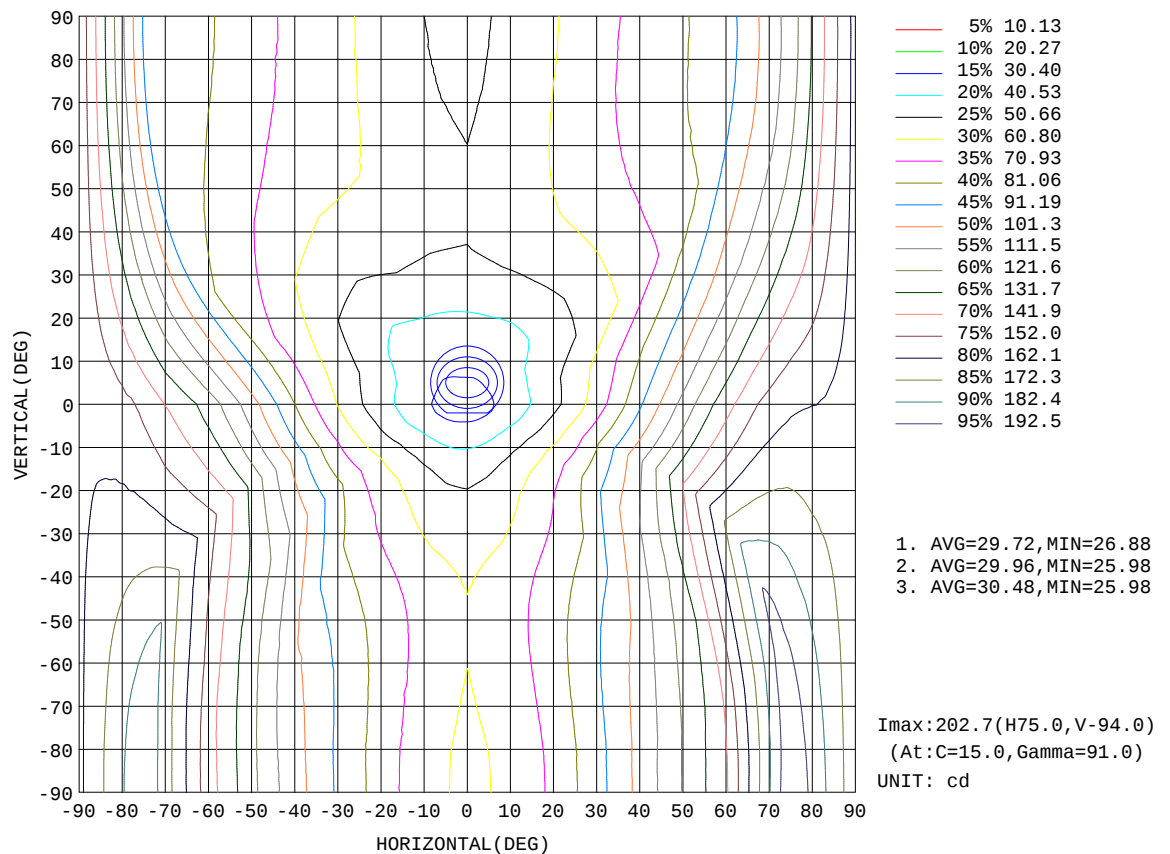
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	35	22	14	33	21	14	29	19	13	5
0.80	43	29	20	40	27	19	35	25	18	8
1.00	50	36	26	47	34	25	41	32	22	11
1.25	57	43	33	53	40	31	46	35	27	14
1.50	62	48	38	58	45	36	49	39	32	16
2.00	70	57	47	65	53	44	55	46	38	20
2.50	76	63	53	70	59	50	59	50	43	23
3.00	80	68	59	73	63	55	62	54	47	26
4.00	85	75	67	78	70	62	66	59	53	29
5.00	89	80	72	82	74	67	69	63	57	32
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: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
MFR.: ASD Lighting Corp



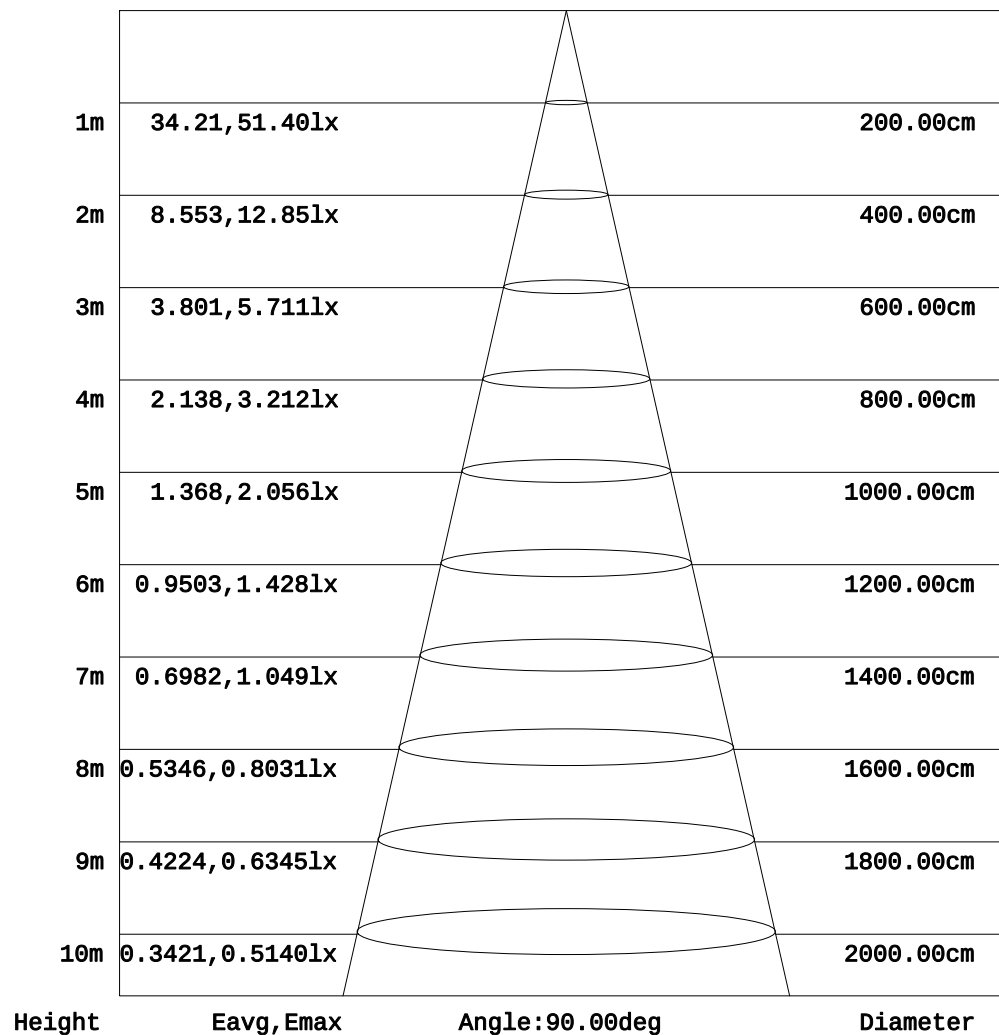
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

AAI Figure

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
MFR.: ASD Lighting Corp

Flux out:107.5 lm



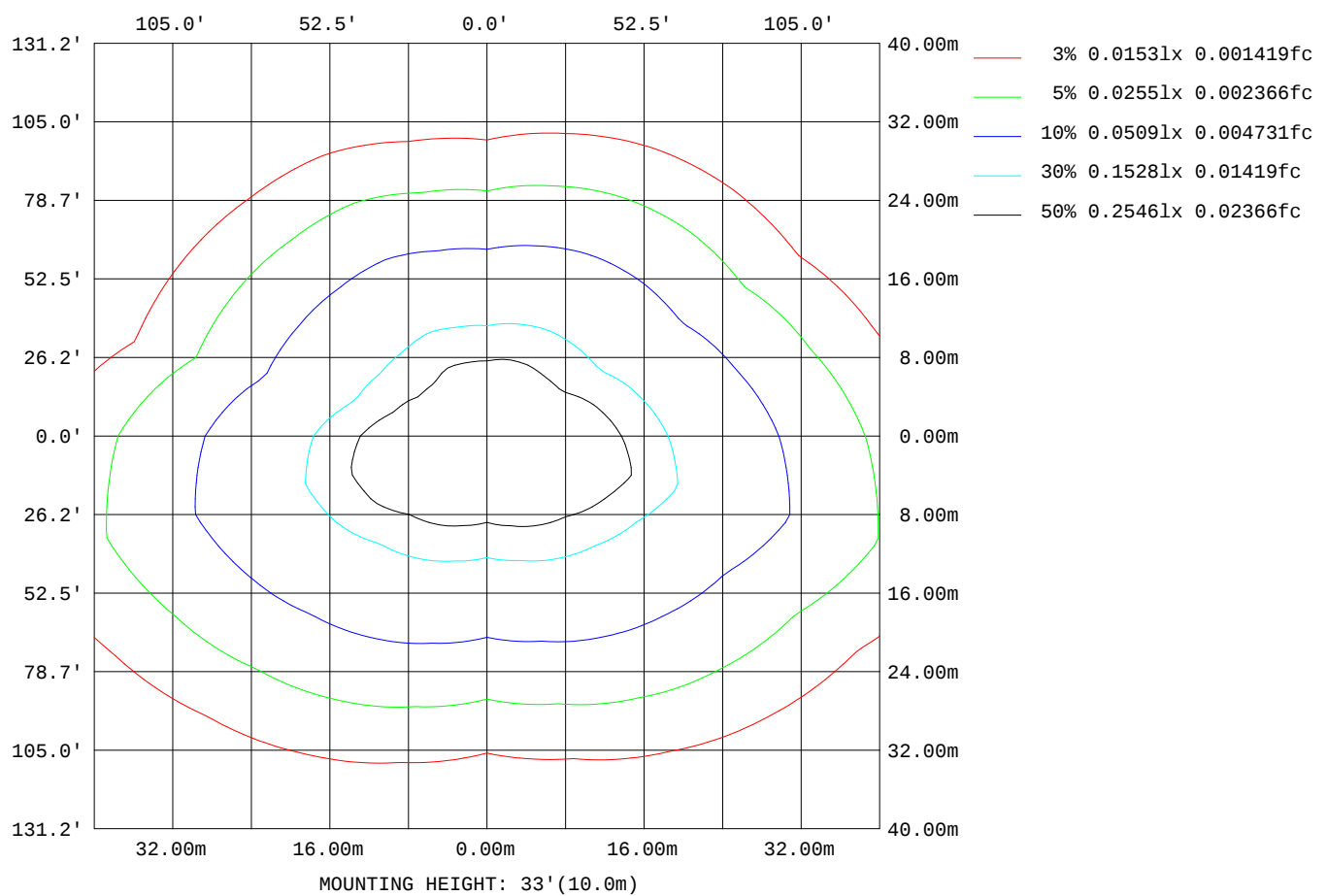
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.1DEG
 Operators: Alan Wang
 Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
 Humidity: 41.3%
 Test Distance: 2.500m [K=1.0423]
 Remarks:

ISOLUX DIAGRAM

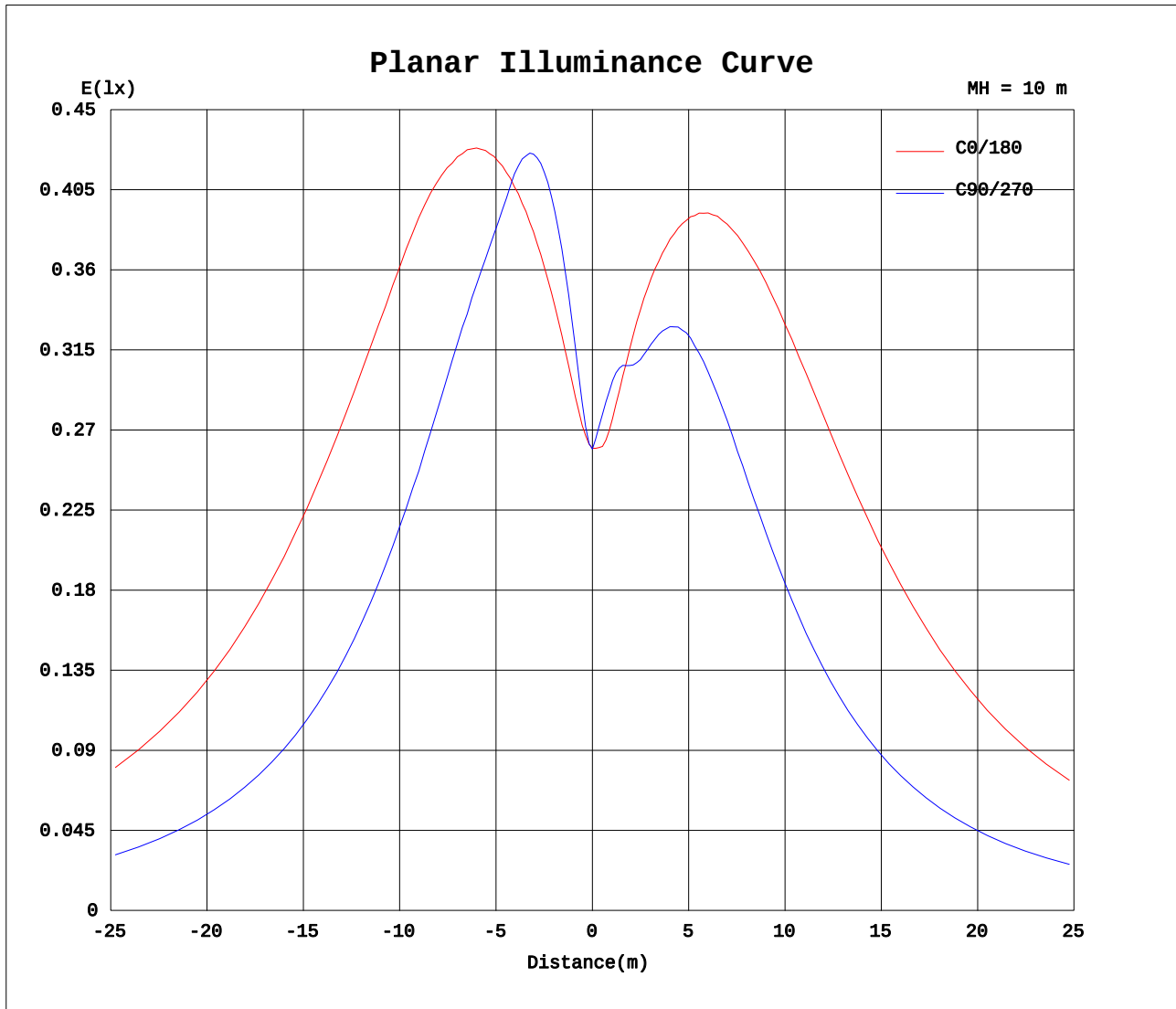
Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
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C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
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	26.0	26.0	26.0	26.0	25.9	25.9	25.9	25.9	25.9	25.9	25.7	25.8	26.0	26.0	26.0	26.0	25.9	25.9	25.9
5	29.2	29.3	30.2	31.2	31.7	31.9	32.0	31.7	30.8	29.8	28.7	27.6	27.3	27.7	28.1	28.5	29.1	29.4	29.5
10	34.7	36.1	39.0	40.6	40.8	40.4	40.1	39.6	39.1	38.3	36.4	33.5	32.2	32.7	32.6	31.7	31.6	32.0	32.1
15	40.9	44.4	48.6	50.1	49.6	47.7	46.6	46.3	47.2	47.2	45.2	40.8	38.2	38.4	37.0	34.1	33.9	34.3	34.7
20	47.9	53.8	58.3	58.7	56.5	52.9	50.9	51.6	54.2	55.6	54.3	48.8	44.5	44.0	40.0	36.8	38.1	38.6	39.2
25	56.2	64.3	68.4	66.2	61.1	55.9	52.9	54.8	59.2	62.6	63.6	58.1	51.8	49.6	43.0	40.6	42.9	43.3	43.8
30	65.9	76.7	78.8	71.9	64.7	58.9	55.3	57.8	62.8	69.0	73.3	68.4	60.3	55.2	46.5	44.6	47.3	47.2	47.5
35	77.1	90.4	88.8	76.3	68.9	62.2	58.0	61.5	66.9	73.7	83.2	80.3	70.2	60.5	50.6	48.7	51.3	50.3	50.1
40	89.7	105	98.0	81.1	73.0	64.9	59.8	64.6	71.4	78.1	93.3	93.5	81.2	65.4	54.6	52.5	54.5	52.2	51.4
45	102	120	107	86.5	76.7	66.9	61.0	66.7	75.4	83.5	103	108	93.2	69.5	58.6	55.9	56.9	53.3	52.0
50	115	135	114	91.6	79.6	68.1	61.4	68.6	78.7	88.7	113	122	106	73.6	62.5	59.0	58.9	53.9	51.9
55	127	150	120	96.6	82.2	68.8	61.3	69.6	81.7	93.7	121	136	117	77.1	66.4	61.7	60.3	54.0	51.4
60	138	164	126	101	84.0	68.9	60.9	70.2	84.0	98.2	127	149	127	80.1	70.1	64.2	61.1	53.8	50.7
65	148	177	130	105	85.4	68.8	60.3	70.5	85.7	102	132	159	135	82.7	73.3	66.4	62.2	53.5	50.0
70	155	187	134	108	86.2	68.4	59.5	70.3	87.2	106	136	169	142	84.8	76.0	68.0	62.8	53.0	49.2
75	160	194	136	110	86.6	67.8	58.6	70.2	88.2	109	140	178	149	86.9	78.5	69.7	63.3	52.9	48.4
80	162	196	138	112	86.7	67.3	57.8	69.8	88.7	111	143	185	155	88.5	80.4	70.8	63.6	52.6	48.2
85	164	200	140	113	87.1	67.0	57.4	69.9	89.3	113	145	190	159	89.5	81.5	71.2	63.7	52.5	47.8
90	166	202	140	113	87.2	66.9	57.3	70.1	89.7	114	147	192	160	90.0	82.1	71.4	63.8	52.2	47.5
95	166	201	140	112	86.6	66.6	57.3	69.9	89.4	112	146	190	158	89.3	81.5	71.0	63.6	52.3	47.5
100	162	198	138	111	86.3	66.8	57.7	70.2	89.3	113	144	184	153	87.7	79.8	70.1	63.1	52.4	47.9
105	157	190	135	109	85.9	67.3	58.4	70.7	89.1	111	143	179	150	86.5	78.2	69.0	62.9	52.9	48.5
110	148	180	132	106	85.1	67.5	59.4	71.1	88.5	108	142	174	146	85.0	75.8	67.5	62.3	53.2	49.1
115	140	166	127	103	83.8	67.9	60.2	71.4	87.5	105	139	166	141	82.7	72.7	65.4	61.5	53.3	49.7
120	130	155	122	98.8	82.5	67.9	61.0	71.3	86.1	102	135	155	132	79.8	69.3	62.7	60.2	53.0	49.9
125	121	142	117	94.5	80.7	67.8	61.6	71.2	84.2	97.3	129	141	122	76.4	65.5	59.8	58.2	52.5	49.9
130	109	128	110	89.8	78.3	67.3	61.9	70.5	81.7	92.5	120	126	110	72.8	61.4	56.6	56.2	51.4	49.3
135	95.9	113	103	84.8	75.6	66.3	61.7	69.2	78.6	87.7	110	111	97.2	69.1	57.4	53.2	53.7	50.3	48.9
140	83.6	97.7	94.2	79.9	72.2	64.6	61.0	67.4	75.1	83.2	100	97.8	86.0	65.3	53.6	49.8	50.8	48.6	47.8
145	72.0	83.5	84.9	75.2	68.2	62.1	59.5	64.7	71.0	79.2	90.0	85.1	75.6	62.1	49.9	46.1	47.0	45.7	45.3
150	61.7	70.9	75.1	70.6	64.5	59.1	57.2	61.5	67.3	74.8	79.3	73.0	66.0	58.7	46.8	42.3	43.0	42.2	42.0
155	52.9	59.6	65.1	64.6	61.1	56.5	55.4	58.9	63.9	68.3	68.6	61.8	57.1	54.6	44.9	39.2	38.1	37.5	37.5
160	45.5	49.5	55.1	56.8	55.8	53.4	53.1	55.3	58.5	60.0	57.9	52.0	49.3	49.0	44.3	37.4	34.4	33.8	33.2
165	39.0	40.8	45.3	47.8	48.2	47.7	48.0	49.1	50.5	50.4	47.9	43.5	42.6	42.7	41.8	36.5	32.1	30.1	30.2
170	33.3	33.5	36.0	38.1	39.3	39.9	40.5	40.7	40.9	40.3	38.3	36.0	36.0	36.1	36.0	33.6	29.2	26.7	26.7
175	17.9	21.8	25.1	28.3	30.2	30.9	31.3	31.4	31.1	28.9	24.8	21.2	18.4	17.8	14.4	9.76	5.94	3.54	1.97
180	0.00	0.00	0.00	0.00	0.00	6.76	22.6	0.00	0.00	0.00	0.00	0.00	0.07	0.05	0.08	0.09	0.09	0.07	0.06

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1436A P:16.96W PF:0.9841 Freq:60.00Hz Lamp Flux:1034.17x1 lm
NAME:ASD-LWS27A-24D18SM-RGB-BK
SPEC.:5000K
MFR.: ASD Lighting Corp

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	25.9	25.9	25.9	25.7	25.8													
5	29.4	29.5	29.7	29.6	29.3													
10	32.4	32.9	34.3	35.1	35.0													
15	34.9	35.2	37.4	40.1	41.1													
20	39.6	39.2	40.2	44.2	47.6													
25	44.6	43.9	44.0	47.4	54.2													
30	48.8	48.7	48.3	51.1	61.5													
35	52.0	52.8	52.7	55.2	69.3													
40	54.5	56.4	56.9	59.5	77.1													
45	55.9	59.4	60.7	63.7	84.6													
50	56.6	61.6	64.5	67.9	91.8													
55	57.0	63.3	67.9	71.6	98.7													
60	57.2	64.8	70.9	75.4	105													
65	57.2	66.0	73.4	78.7	110													
70	56.9	66.8	75.4	81.8	113													
75	56.8	67.3	76.7	84.0	115													
80	56.4	67.4	77.3	85.2	115													
85	56.2	67.6	77.5	85.7	115													
90	56.1	67.3	77.1	86.4	116													
95	55.9	66.9	76.4	85.1	116													
100	55.9	66.6	74.9	83.3	114													
105	56.1	65.8	72.6	80.5	111													
110	56.0	64.7	70.0	77.0	107													
115	55.9	63.4	66.5	73.0	101													
120	55.5	61.3	62.9	69.1	96.4													
125	54.5	58.8	59.3	64.9	91.3													
130	53.2	56.7	55.4	60.7	85.5													
135	51.9	54.2	51.5	56.6	78.6													
140	49.8	51.1	47.4	52.4	71.0													
145	46.6	47.2	43.3	48.3	63.6													
150	42.5	42.6	39.3	44.2	56.1													
155	37.2	37.9	36.0	40.1	49.0													
160	33.2	34.4	34.5	36.1	42.7													
165	30.8	31.5	32.8	32.8	37.0													
170	27.5	28.5	29.1	31.4	31.9													
175	1.61	2.16	3.73	6.53	11.1													
180	0.07	0.06	0.07	0.09	0.08													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.1DEG
Operators: Alan Wang
Test Date: 12 January 2024

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.416
Humidity: 41.3%
Test Distance: 2.500m [K=1.0423]
Remarks: