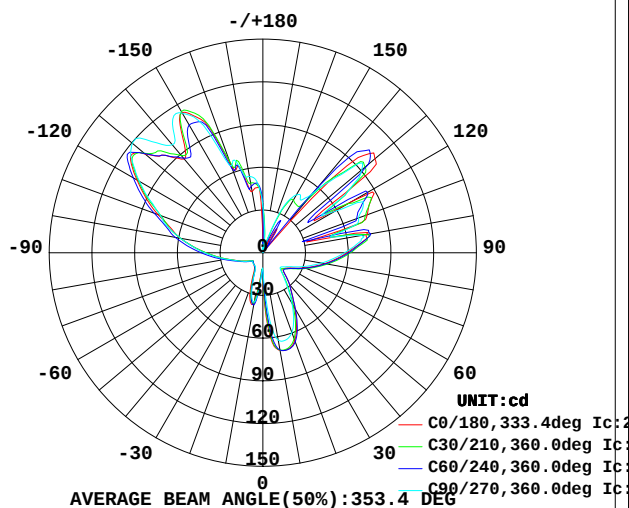


LUMINAIRE PHOTOMETRIC TEST REPORT

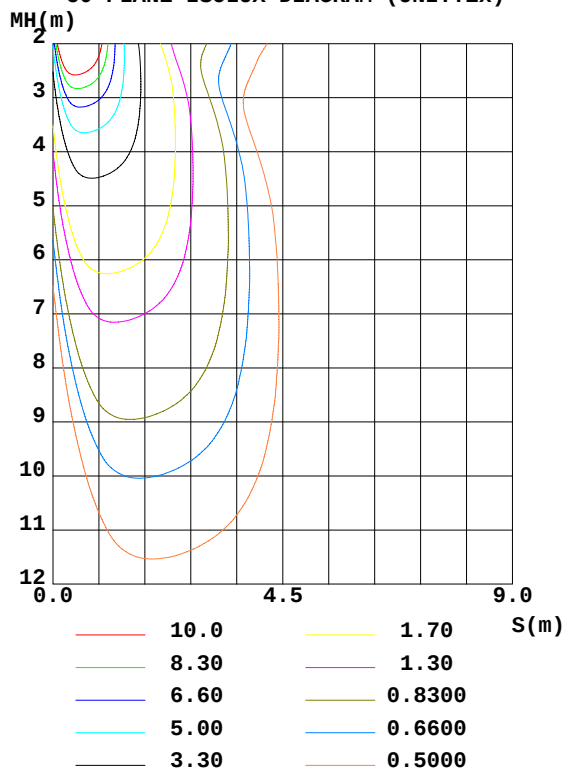
Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.12 lm/W			
MODEL	ASD-LUV-24C-BK	I _{max} (cd)	126.6	S/MH(C0/180)	0.97
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	666.9	η UP, DN(C0-180)	29.6,18.9
NOMINAL FLUX(lm)	666.9	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	41.5,10.0
LAMPS INSIDE	1	η up(%)	71.1	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	28.9	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	69.62	68.19	62.40	28.90	34.69	36.46	35.35	18.23	0- 10	3.084	3.084	0.60,0.60
20	65.64	67.70	59.62	55.38	24.69	23.70	19.83	28.93	10- 20	11.82	14.90	2.9,2.9
30	44.97	49.83	41.01	54.58	11.84	11.47	10.91	22.22	20- 30	15.32	30.22	5.89,5.89
40	29.24	32.96	23.60	43.18	10.19	9.799	10.36	12.14	30- 40	15.31	45.53	8.88,8.88
50	18.42	20.53	16.03	25.01	9.158	8.635	9.385	8.039	40- 50	13.81	59.34	11.6,11.6
60	21.38	19.60	19.72	10.36	11.77	11.07	12.06	7.202	50- 60	13.57	72.90	14.2,14.2
70	31.04	27.34	28.71	8.043	16.96	16.15	17.30	6.313	60- 70	16.95	89.86	17.5,17.5
80	44.15	39.46	41.86	11.54	25.72	24.90	26.12	7.177	70- 80	23.87	113.7	22.2,22.2
90	59.12	54.01	57.44	22.06	40.09	40.04	40.77	12.42	80- 90	34.54	148.3	28.9,28.9
100	73.65	66.26	70.30	31.12	58.81	57.69	58.81	27.04	90-100	49.13	197.4	38.5,38.5
110	77.96	73.90	71.61	47.94	78.38	79.32	76.68	42.81	100-110	55.00	253.2	49.4,49.4
120	72.79	70.63	58.58	53.32	102.1	102.7	100.0	49.13	110-120	67.94	321.1	62.6,62.6
130	102.8	103.1	90.75	53.84	108.0	91.88	119.8	74.31	120-130	65.36	386.5	75.4,75.4
140	10.35	11.46	54.24	31.64	86.01	88.55	99.07	61.58	130-140	58.48	445.0	86.8,86.8
150	19.71	15.80	46.84	5.409	113.7	104.2	113.2	61.06	140-150	34.63	479.6	93.5,93.5
160	3.621	2.206	16.32	1.421	65.45	60.23	64.87	63.70	150-160	22.63	502.2	97.9,97.9
170	1.575	4.539	1.799	8.728	43.85	41.40	54.49	50.62	160-170	8.196	510.4	99.5,99.5
180	8.650	1.706	32.57	27.13	8.076	1.737	32.49	26.83	170-180	2.449	512.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

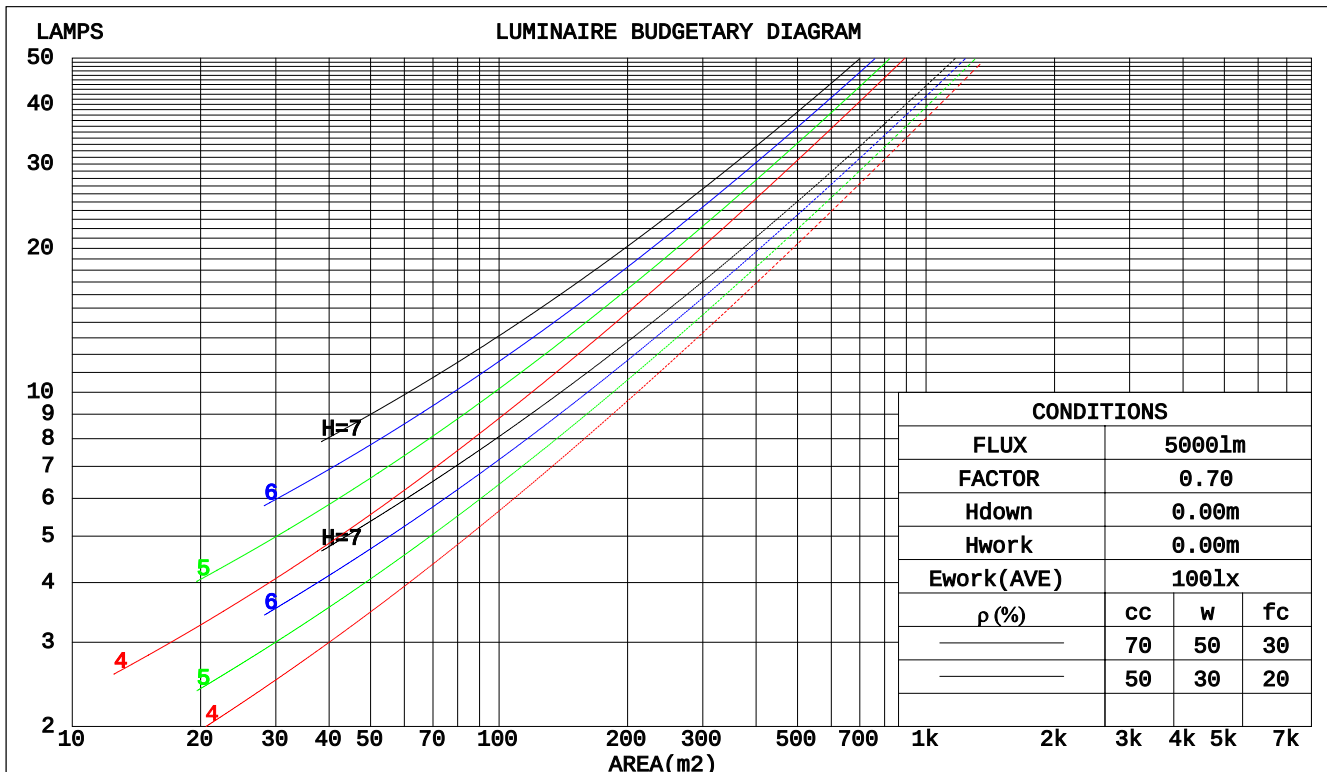
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

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						Coefficients of Utilization(CU)									
0.0	1.02	1.02	1.02	.91	.91	.91	.72	.72	.72	.53	.53	.53	.37	.37	.37	.29
1.0	.85	.80	.76	.76	.72	.68	.58	.55	.53	.43	.41	.39	.28	.27	.25	.19
2.0	.73	.66	.60	.65	.59	.54	.50	.46	.42	.36	.33	.31	.24	.22	.20	.14
3.0	.64	.56	.50	.57	.50	.45	.44	.39	.35	.32	.28	.26	.21	.18	.16	.11
4.0	.56	.48	.42	.50	.43	.37	.39	.34	.29	.28	.25	.22	.18	.16	.14	.10
5.0	.50	.42	.35	.45	.37	.32	.35	.29	.25	.25	.21	.19	.16	.14	.12	.08
6.0	.45	.36	.30	.40	.33	.28	.31	.26	.22	.23	.19	.16	.15	.13	.11	.07
7.0	.40	.32	.26	.36	.29	.24	.28	.23	.19	.21	.17	.14	.14	.11	.09	.06
8.0	.36	.29	.23	.33	.26	.21	.26	.20	.17	.19	.15	.13	.13	.10	.08	.06
9.0	.33	.26	.21	.30	.23	.19	.23	.18	.15	.17	.14	.11	.12	.09	.08	.05
10.0	.30	.23	.18	.27	.21	.17	.21	.17	.13	.16	.13	.10	.11	.09	.07	.05



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm									
NAME: ASD-LUV-24C-BK					TYPE:LED			WEIGHT:	
SPEC.:5000K					DIM.:			SERIAL No.:	
MFR.: ASD Lighting corp					SUR.:			PROTECTION ANGLE:	

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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.348	.198	.063	.319	.182	.058	.265	.152	.049	.216	.125	.040	.170	.099	.032		
2.0	.294	.161	.049	.268	.147	.045	.219	.122	.038	.173	.097	.030	.131	.074	.023		
3.0	.259	.138	.041	.235	.126	.038	.190	.103	.031	.149	.082	.025	.110	.061	.019		
4.0	.234	.121	.036	.212	.111	.033	.170	.090	.027	.132	.071	.021	.096	.052	.016		
5.0	.213	.108	.031	.193	.099	.029	.154	.080	.024	.119	.063	.019	.085	.046	.014		
6.0	.196	.098	.028	.177	.089	.026	.142	.073	.021	.108	.056	.017	.077	.041	.012		
7.0	.181	.090	.025	.164	.082	.023	.131	.066	.019	.100	.051	.015	.071	.037	.011		
8.0	.168	.082	.023	.152	.075	.021	.122	.061	.017	.093	.047	.014	.066	.034	.010		
9.0	.157	.076	.021	.142	.069	.019	.114	.056	.016	.086	.043	.012	.061	.031	.009		
10.0	.148	.071	.020	.133	.064	.018	.107	.052	.015	.081	.040	.011	.057	.029	.008		

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	.732	.732	.732	.626	.626	.626	.427	.427	.427	.245	.245	.245	.078	.078	.078	
1.0	.729	.702	.678	.624	.602	.583	.427	.414	.403	.246	.240	.235	.079	.077	.076	
2.0	.722	.682	.648	.619	.587	.560	.424	.406	.390	.244	.236	.229	.078	.076	.075	
3.0	.715	.667	.629	.613	.575	.545	.421	.400	.382	.243	.233	.225	.078	.076	.074	
4.0	.708	.656	.616	.608	.567	.535	.418	.395	.377	.242	.231	.223	.078	.075	.073	
5.0	.701	.647	.607	.602	.560	.528	.415	.391	.373	.240	.230	.221	.077	.075	.073	
6.0	.695	.640	.601	.597	.554	.523	.412	.388	.370	.239	.228	.220	.077	.075	.073	
7.0	.689	.634	.596	.593	.550	.519	.409	.385	.368	.238	.227	.219	.077	.074	.072	
8.0	.683	.629	.592	.588	.546	.516	.407	.383	.366	.237	.226	.218	.077	.074	.072	
9.0	.678	.625	.589	.584	.542	.514	.404	.381	.365	.236	.225	.218	.076	.074	.072	
10.0	.673	.621	.587	.580	.540	.512	.402	.380	.364	.235	.224	.217	.076	.074	.072	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm											
NAME: ASD-LUV-24C-BK					TYPE:LED			WEIGHT:			
SPEC.:5000K					DIM.:			SERIAL No.:			
MFR.: ASD Lighting corp					SUR.:			PROTECTION 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	4.0	4.8	5.0	5.9	7.3	3.9	4.7	5.0	5.8	7.2	
	3H	8.7	9.4	9.8	10.5	12.0	8.5	9.2	9.6	10.3	
	4H	11.5	12.2	12.5	13.2	14.7	11.2	11.9	12.3	13.0	
	6H	14.5	15.2	15.6	16.3	17.8	14.3	14.9	15.4	16.0	
	8H	16.2	16.8	17.3	17.9	19.4	15.9	16.5	17.0	17.6	
	12H	18.0	18.6	19.1	19.7	21.3	17.8	18.4	18.9	19.5	
4H	2H	5.1	5.8	6.2	6.9	8.4	5.0	5.7	6.1	6.8	
	3H	10.0	10.6	11.1	11.7	13.2	9.8	10.4	10.9	11.5	
	4H	12.9	13.4	14.0	14.5	16.1	12.7	13.2	13.8	14.4	
	6H	16.1	16.5	17.2	17.7	19.2	15.9	16.3	17.0	17.5	
	8H	17.8	18.2	18.9	19.4	20.9	17.6	18.0	18.7	19.2	
	12H	19.7	20.1	20.9	21.3	22.9	19.5	19.9	20.6	21.1	
8H	4H	13.7	14.2	14.9	15.3	16.9	13.6	14.0	14.7	15.2	
	6H	17.2	17.6	18.3	18.7	20.3	17.0	17.4	18.2	18.5	
	8H	19.1	19.5	20.3	20.6	22.2	18.9	19.3	20.1	20.4	
	12H	21.3	21.6	22.4	22.7	24.3	21.1	21.4	22.2	22.5	
12H	4H	14.1	14.5	15.2	15.6	17.2	14.0	14.4	15.1	15.5	
	6H	17.6	17.9	18.7	19.0	20.6	17.4	17.7	18.6	18.9	
	8H	19.6	19.9	20.8	21.1	22.7	19.4	19.7	20.6	20.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.5					

CIE Pub.117 Corrected 512.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

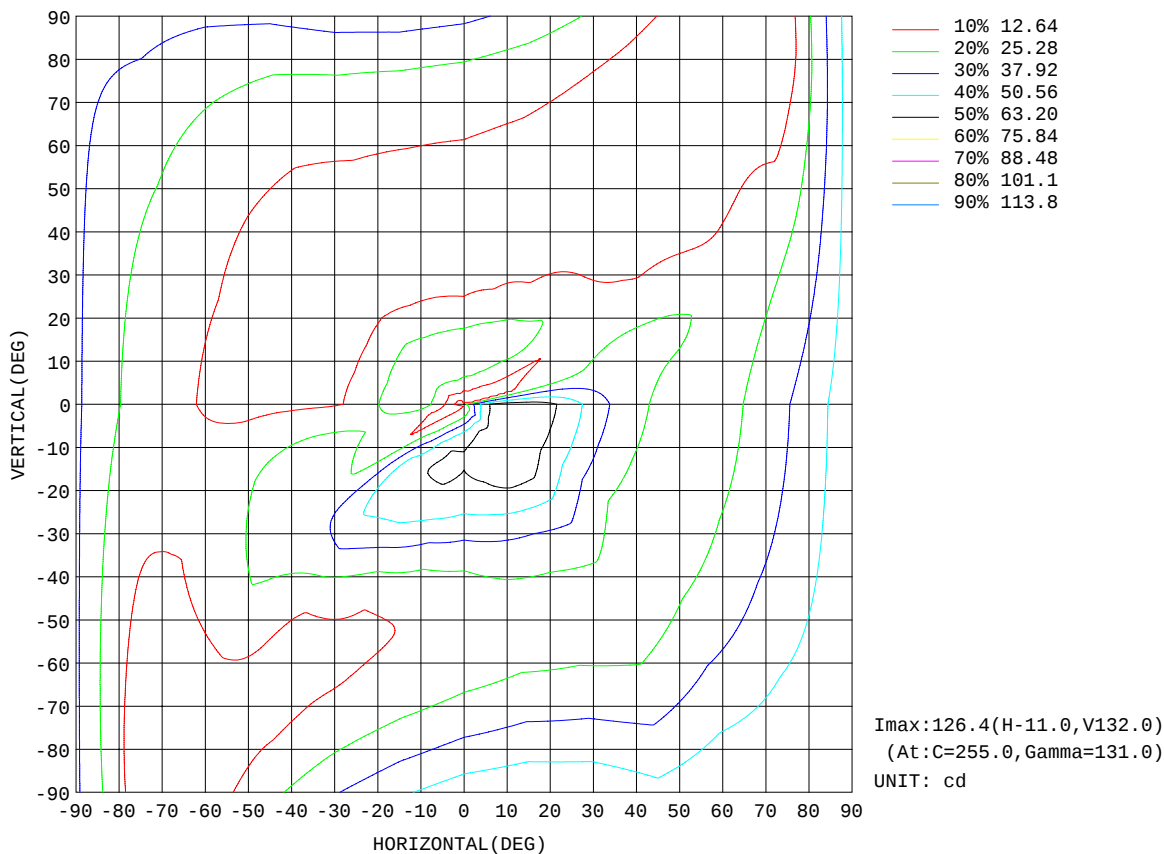
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	35	23	17	32	22	16	27	19	14	7
0.80	43	30	23	40	28	21	33	24	18	8
1.00	50	37	29	46	34	26	37	29	22	10
1.25	57	43	35	51	40	32	42	33	27	11
1.50	62	49	40	56	44	37	45	36	30	12
2.00	69	57	48	62	52	44	49	42	36	14
2.50	74	63	54	66	57	49	52	45	40	15
3.00	78	67	59	70	61	54	55	48	43	16
4.00	83	74	66	74	66	60	58	53	48	18
5.00	86	78	71	77	70	64	60	55	51	19
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:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

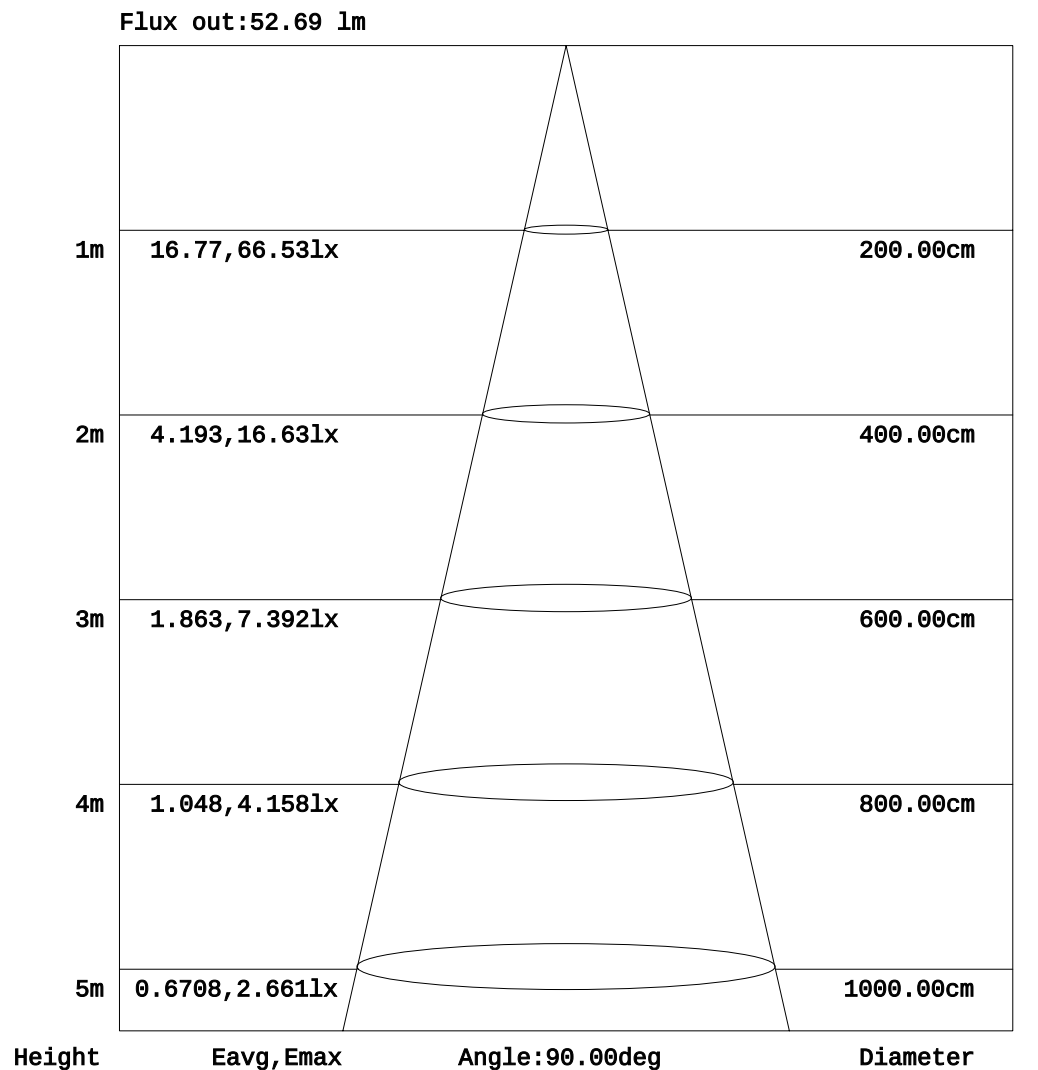


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



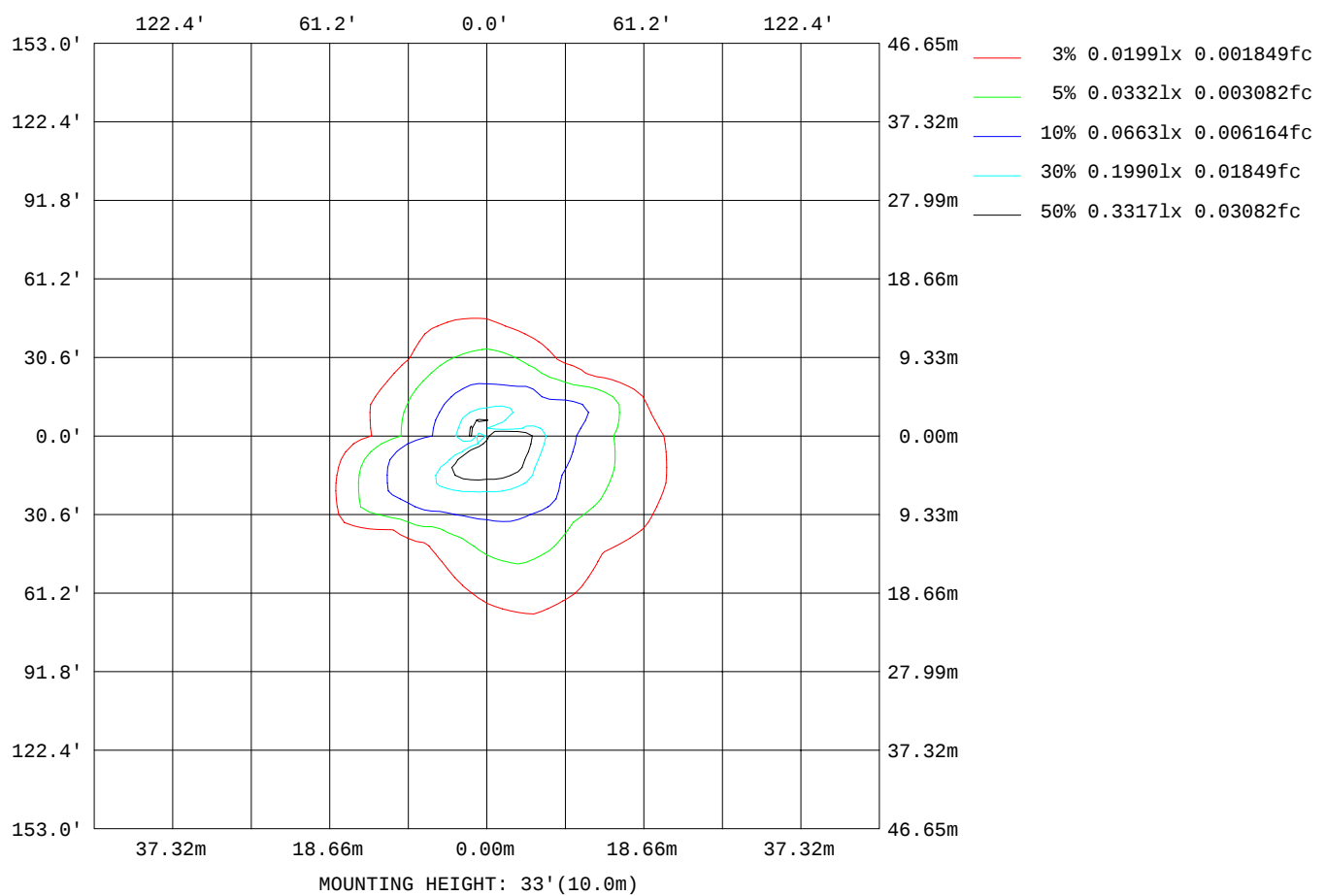
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

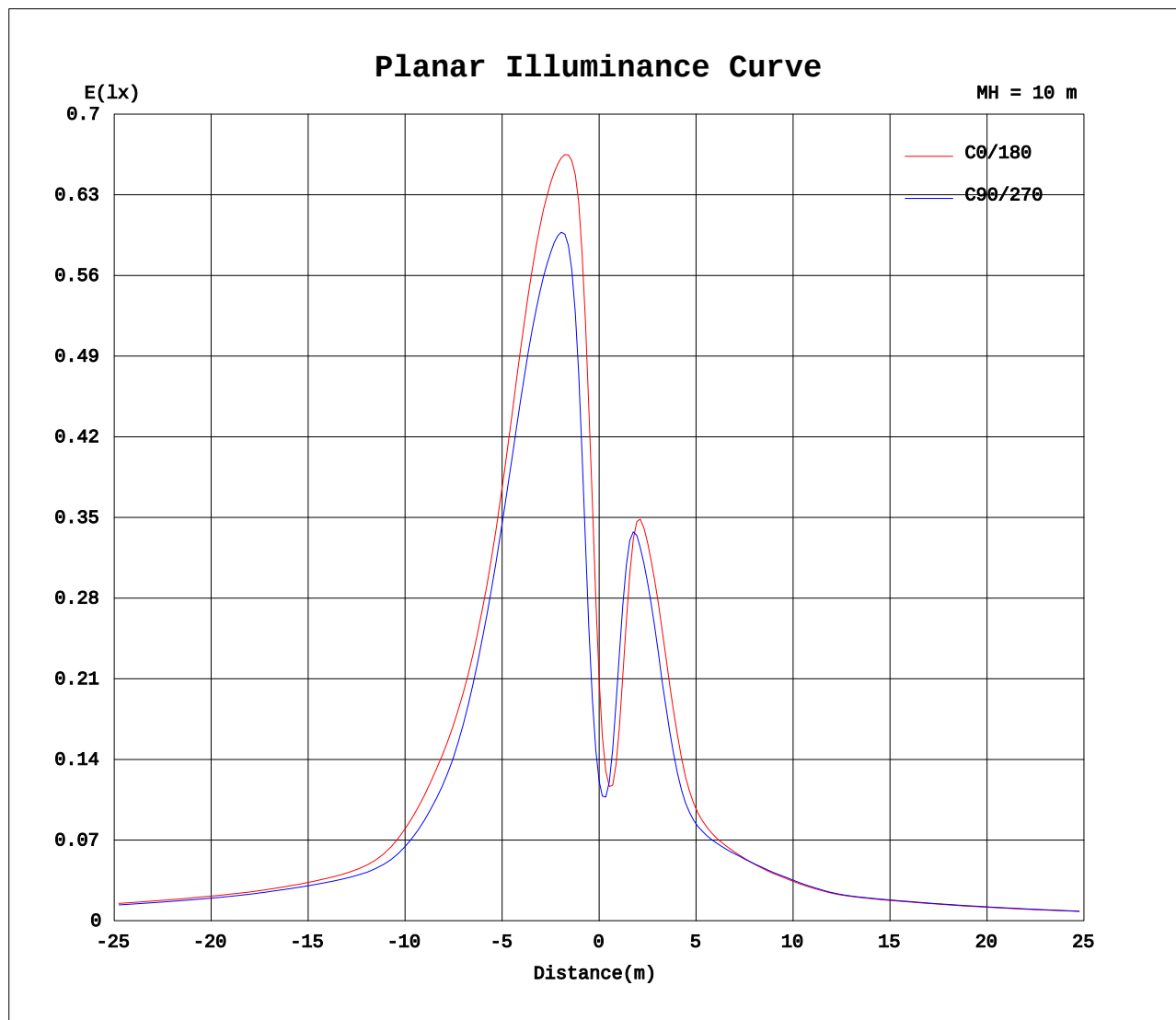
AvgL	cd/m2
L_0~180(65)av	468
L_0~180(75)av	1113
L_0~180(85)av	4814
L_90~270(65)av	448
L_90~270(75)av	1076
L_90~270(85)av	4731
L_45(65)av	300
L_45(75)av	652
L_45(85)av	2959

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.291
Humidity: 65.0%
Test Distance: 7.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	20.9	18.5	17.8	15.0	14.8	13.3	12.1	12.1	11.5	11.0	10.4	10.4	20.9	18.5	17.8	15.0	14.8	13.3	12.1
5	58.6	57.2	55.7	48.6	50.8	45.9	40.9	34.1	25.1	16.3	10.7	11.3	13.8	15.6	15.3	17.6	19.8	21.7	19.2
10	69.6	69.7	69.4	68.2	69.4	65.2	62.4	61.1	50.4	28.9	11.4	13.7	34.7	36.1	35.2	36.5	37.2	37.4	35.4
15	69.9	69.4	69.3	69.9	70.2	65.6	63.3	65.1	62.4	45.0	12.5	17.3	34.8	32.9	32.8	33.9	31.8	31.0	30.6
20	65.6	64.5	64.2	67.7	66.6	61.7	59.6	62.6	62.5	55.4	15.8	22.2	24.7	21.5	21.9	23.7	20.3	19.3	19.8
25	56.0	54.4	54.2	60.5	57.3	53.3	51.3	55.5	59.1	57.4	20.0	26.3	15.1	13.5	13.6	14.6	13.2	12.9	12.6
30	45.0	42.9	42.6	49.8	45.8	43.2	41.0	44.8	52.3	54.6	24.7	29.7	11.8	11.4	11.2	11.5	11.3	11.3	10.9
35	36.0	33.3	32.2	40.3	35.7	33.7	31.0	33.6	42.6	49.8	29.4	31.2	10.8	10.8	10.6	10.4	10.6	10.7	10.6
40	29.2	26.3	24.6	33.0	29.2	27.3	23.6	24.0	31.5	43.2	33.0	30.8	10.2	10.3	10.1	9.80	10.1	10.2	10.4
45	22.6	20.1	18.7	27.1	22.7	21.3	18.2	17.6	21.0	34.6	34.4	28.8	9.72	9.76	9.60	9.29	9.48	9.61	9.98
50	18.4	18.3	17.4	20.5	19.1	18.8	16.0	13.7	14.0	25.0	33.2	25.8	9.16	9.33	8.94	8.64	9.23	9.31	9.39
55	19.1	20.0	19.6	18.1	19.8	20.2	17.3	13.4	11.0	16.3	30.3	22.7	9.99	10.6	9.77	9.31	10.6	10.5	10.2
60	21.4	22.8	22.4	19.6	22.2	22.9	19.7	15.1	10.8	10.4	26.1	19.3	11.8	12.6	11.6	11.1	12.5	12.6	12.1
65	25.5	27.5	26.9	22.4	26.3	27.3	23.4	17.5	11.9	8.05	20.8	16.0	14.1	15.1	14.0	13.4	15.0	15.2	14.4
70	31.0	33.2	32.5	27.3	31.7	32.8	28.7	21.8	13.9	8.04	15.7	12.9	17.0	18.2	17.1	16.2	17.8	18.3	17.3
75	37.2	39.6	38.9	33.0	37.9	39.0	34.9	27.3	17.9	8.94	10.6	9.38	20.4	22.0	20.7	19.4	21.7	22.2	20.8
80	44.1	46.7	46.0	39.5	44.8	45.9	41.9	33.5	23.1	11.5	5.51	5.25	25.7	27.6	25.8	24.9	27.8	28.3	26.1
85	51.5	54.4	53.6	46.6	52.3	53.4	49.4	40.8	29.4	15.8	4.19	3.97	32.4	34.4	32.4	32.0	35.2	35.7	33.1
90	59.1	62.3	61.4	54.0	60.3	61.4	57.4	48.6	37.0	22.1	5.53	4.28	40.1	42.0	39.9	40.0	43.4	43.8	40.8
95	67.8	71.0	69.9	62.0	68.3	69.0	65.9	57.5	44.2	30.8	10.5	7.96	49.1	51.1	48.9	49.1	52.7	52.8	49.4
100	73.7	76.8	74.2	66.3	76.9	75.7	70.3	51.7	43.1	31.1	14.5	9.47	58.8	60.9	58.7	57.7	62.5	62.6	58.8
105	37.9	38.7	53.1	29.5	33.7	43.7	57.2	67.5	51.9	36.7	22.2	15.1	67.0	70.7	68.6	67.7	70.2	72.2	68.5
110	78.0	77.5	76.7	73.9	70.1	78.4	71.6	73.5	60.6	47.9	30.0	8.24	78.4	78.9	76.3	79.3	81.2	80.1	76.7
115	83.0	83.8	83.0	86.3	75.9	86.0	77.8	71.2	57.8	55.0	28.0	2.78	90.4	91.4	88.8	90.9	93.4	92.4	87.4
120	72.8	83.1	69.1	70.6	85.1	90.9	58.6	62.4	68.3	53.3	18.1	1.44	102	103	101	103	105	104	100
125	51.5	43.6	70.6	52.4	39.0	51.9	69.8	88.5	61.8	54.2	8.48	1.50	113	115	112	104	116	116	112
130	103	99.9	93.6	103	96.9	101	90.7	82.2	64.9	53.8	3.60	1.56	108	115	109	91.9	109	125	120
135	94.7	98.2	79.8	101	101	104	77.4	67.6	69.3	46.7	2.01	1.41	96.8	104	101	86.0	96.8	121	111
140	10.4	47.7	48.3	11.5	60.0	68.9	54.2	58.9	65.7	31.6	1.78	1.37	86.0	94.0	89.3	88.5	86.7	102	99.1
145	4.10	16.7	41.2	6.16	3.87	28.9	45.8	62.3	53.0	15.5	1.81	1.37	97.8	91.2	94.9	104	89.2	104	111
150	19.7	32.4	42.8	15.8	19.2	32.3	46.8	53.0	33.0	5.41	2.84	1.30	114	111	115	104	104	112	113
155	4.00	24.0	36.2	4.91	17.1	33.2	37.9	32.7	12.6	2.07	3.04	1.29	104	106	107	88.7	101	105	98.7
160	3.62	11.8	13.8	2.21	8.05	17.2	16.3	10.1	2.92	1.42	1.76	1.29	65.5	71.3	67.9	60.2	62.3	62.4	64.9
165	1.62	2.19	2.16	1.76	2.42	3.42	2.79	1.77	1.48	2.59	2.43	1.38	62.1	67.6	66.3	48.2	59.9	57.7	61.3
170	1.58	1.60	1.53	4.54	1.55	1.59	1.80	3.53	5.99	8.73	10.1	13.0	43.8	48.9	49.8	41.4	47.4	48.7	54.5
175	2.00	1.98	15.8	1.91	1.84	15.1	15.0	14.3	14.9	16.1	15.9	18.9	46.0	49.5	48.0	8.54	49.2	45.8	50.5
180	8.65	39.5	34.0	1.71	34.9	33.3	32.6	30.8	28.6	27.1	21.7	21.0	8.08	39.2	34.3	1.74	35.7	31.5	32.5

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.1V I:0.0633A P:7.442W PF:0.9782 Lamp Flux:666.9x1 lm		
NAME: ASD-LUV-24C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	12.1	11.5	11.0	10.4	10.4													
5	18.3	14.4	11.6	10.5	10.6													
10	34.1	28.0	18.2	10.9	11.9													
15	32.7	33.1	25.7	11.5	14.1													
20	24.1	28.6	28.9	12.4	17.3													
25	15.2	21.2	26.6	13.4	21.4													
30	11.3	14.3	22.2	14.2	26.0													
35	10.2	10.7	16.9	14.5	30.0													
40	9.68	9.46	12.1	14.5	31.3													
45	9.35	8.99	9.26	13.5	30.5													
50	9.01	8.67	8.04	12.2	28.7													
55	8.71	8.29	7.50	10.2	25.7													
60	9.88	7.67	7.20	7.40	21.6													
65	11.7	7.82	6.82	5.38	18.6													
70	14.0	9.18	6.31	5.14	17.5													
75	16.7	11.1	6.18	5.04	16.3													
80	20.7	13.5	7.18	4.24	12.8													
85	26.7	17.6	8.78	3.63	8.49													
90	33.7	23.4	12.4	3.83	6.37													
95	41.8	30.7	18.5	7.63	11.5													
100	50.7	39.4	27.0	11.4	10.8													
105	60.5	48.7	32.6	19.1	8.74													
110	68.3	56.9	42.8	28.5	2.88													
115	80.4	69.5	46.4	36.1	1.46													
120	93.3	80.5	49.1	44.5	1.52													
125	103	72.5	63.3	51.3	1.56													
130	97.9	70.0	74.3	55.1	2.01													
135	87.6	86.1	74.8	56.9	3.25													
140	99.1	89.2	61.6	57.9	5.49													
145	106	88.0	59.2	59.8	8.23													
150	96.5	68.7	61.1	59.9	11.7													
155	70.5	68.5	63.9	56.1	15.3													
160	71.0	60.6	63.7	49.7	18.1													
165	56.6	58.5	58.7	41.9	19.1													
170	55.5	55.4	50.6	34.3	20.6													
175	48.9	45.7	39.5	28.3	21.2													
180	30.5	28.6	26.8	21.8	20.9													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.291
 Humidity:65.0%
 Test Distance:7.500m [K=1.0000]
 Remarks: