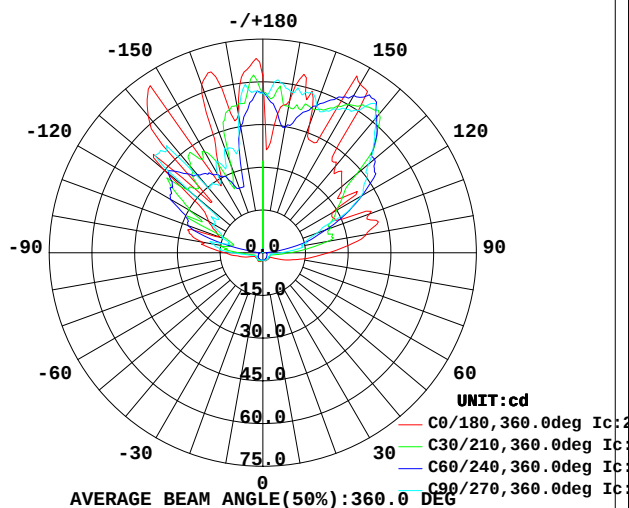


LUMINAIRE PHOTOMETRIC TEST REPORT

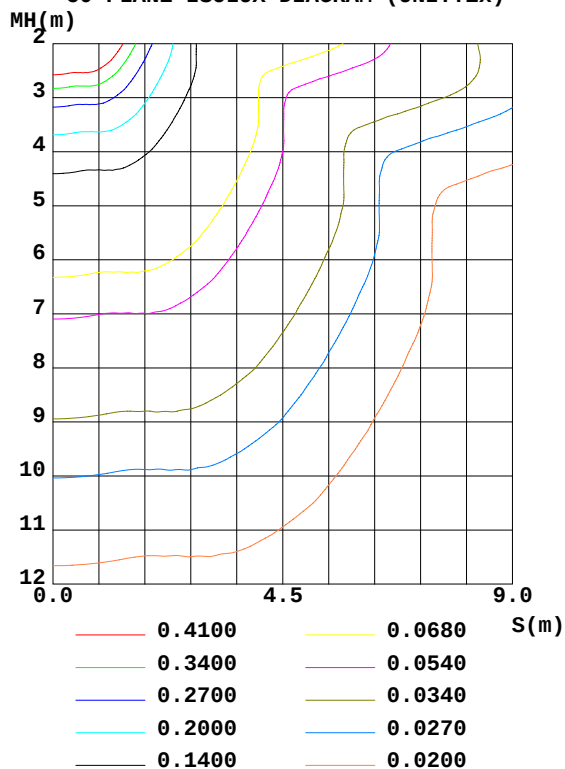
Test:U:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.90 lm/W			
MODEL	ASD-LUV-24B-BK	I _{max} (cd)	89.59	S/MH(C0/180)	1.61
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.64
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	416.3	η UP, DN(C0-180)	46.7, 5.5
NOMINAL FLUX(lm)	416.3	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	41.6, 6.2
LAMPS INSIDE	1	η up(%)	88.4	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	11.6	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: 25.3DEG
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	2.757	2.495	2.661	3.058	2.966	2.742	2.684	2.877	0- 10	0.2621	0.2621	0.11,0.11
20	3.019	2.453	2.819	3.258	3.324	2.823	2.777	3.169	10- 20	0.8185	1.081	0.45,0.45
30	2.977	2.392	2.869	3.115	3.312	2.838	2.892	3.070	20- 30	1.365	2.446	1.01,1.01
40	2.912	2.322	2.800	2.758	2.823	2.815	2.850	2.919	30- 40	1.777	4.222	1.75,1.75
50	2.927	2.284	2.577	3.023	2.958	2.688	2.707	2.843	40- 50	2.103	6.326	2.62,2.62
60	3.364	2.369	2.511	3.039	3.004	2.511	2.681	3.338	50- 60	2.431	8.756	3.63,3.63
70	7.077	2.388	2.804	4.583	3.947	2.188	2.901	6.998	60- 70	3.253	12.01	4.98,4.98
80	13.16	2.080	2.848	9.247	7.987	2.130	4.802	13.33	70- 80	5.714	17.72	7.35,7.35
90	23.06	3.729	6.302	15.81	13.42	4.116	10.52	24.03	80- 90	10.33	28.05	11.6,11.6
100	36.92	14.48	14.34	23.83	21.58	7.319	18.16	28.84	90-100	18.60	46.65	19.4,19.4
110	39.80	23.52	20.17	15.54	16.20	26.51	15.26	48.52	100-110	26.22	72.87	30.2,30.2
120	28.03	42.53	39.77	20.82	21.98	35.43	20.22	31.17	110-120	26.93	99.80	41.4,41.4
130	36.18	52.18	48.50	42.82	45.52	44.97	32.49	38.74	120-130	31.51	131.3	54.5,54.5
140	39.70	63.16	61.21	54.24	62.59	34.71	29.25	42.53	130-140	34.95	166.3	69,69
150	68.35	65.37	58.13	36.69	29.03	40.35	31.52	79.48	140-150	33.00	199.3	82.7,82.7
160	48.04	59.61	55.24	57.86	62.86	36.19	39.17	51.23	150-160	22.93	222.2	92.2,92.2
170	54.14	48.63	57.40	56.39	49.30	51.34	49.06	47.70	160-170	14.07	236.3	98,98
180	62.73	56.16	56.17	16.55	62.03	56.19	56.17	16.53	170-180	4.756	241.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

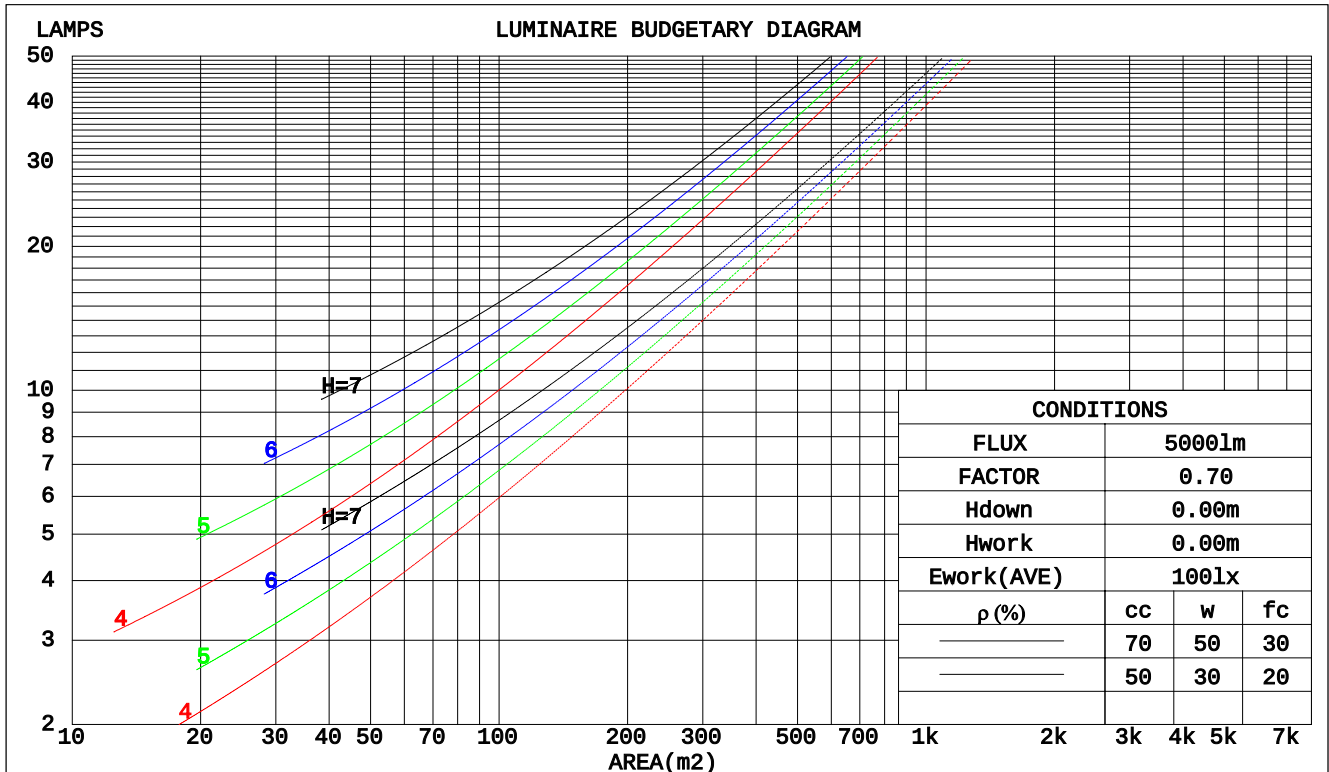
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	.98	.98	.98	.85	.85	.85	.62	.62	.62	.41	.41	.41	.21	.21	.21	.12
1.0	.82	.78	.74	.72	.68	.65	.51	.49	.47	.33	.31	.30	.15	.15	.14	.06
2.0	.71	.65	.60	.62	.57	.52	.44	.41	.38	.28	.26	.24	.13	.12	.11	.04
3.0	.62	.55	.49	.54	.48	.43	.39	.34	.31	.24	.22	.20	.11	.10	.09	.03
4.0	.55	.47	.41	.48	.41	.36	.34	.30	.26	.21	.19	.17	.10	.08	.07	.02
5.0	.48	.40	.35	.42	.35	.30	.30	.26	.22	.19	.16	.14	.09	.07	.06	.02
6.0	.43	.35	.30	.38	.31	.26	.27	.22	.19	.17	.14	.12	.08	.06	.05	.02
7.0	.39	.31	.26	.34	.27	.22	.24	.20	.16	.15	.13	.10	.07	.06	.05	.01
8.0	.35	.27	.22	.30	.24	.20	.22	.17	.14	.14	.11	.09	.06	.05	.04	.01
9.0	.31	.24	.19	.28	.21	.17	.20	.16	.13	.13	.10	.08	.06	.05	.04	.01
10.0	.29	.22	.17	.25	.19	.15	.18	.14	.11	.12	.09	.07	.05	.04	.03	.01



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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm									
NAME: ASD-LUV-24B-BK					TYPE:LED			WEIGHT:	
SPEC.:5000K					DIM.:			SERIAL No.:	
MFR.: ASD Lighting corp					SUR.:			PROTECTION ANGLE:	

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	.313	.178	.056	.279	.159	.051	.216	.124	.040	.158	.091	.029	.104	.061	.020		
2.0	.271	.148	.046	.240	.132	.041	.182	.101	.031	.129	.072	.023	.079	.045	.014		
3.0	.242	.129	.039	.214	.115	.035	.161	.087	.027	.112	.061	.019	.066	.036	.011		
4.0	.220	.115	.034	.194	.102	.030	.145	.077	.023	.100	.053	.016	.057	.031	.009		
5.0	.202	.103	.030	.178	.091	.027	.133	.069	.020	.090	.048	.014	.051	.027	.008		
6.0	.187	.094	.027	.165	.083	.024	.122	.063	.018	.083	.043	.013	.046	.024	.007		
7.0	.173	.086	.024	.153	.076	.022	.113	.057	.017	.077	.039	.011	.042	.022	.006		
8.0	.162	.079	.022	.142	.070	.020	.106	.053	.015	.071	.036	.010	.039	.020	.006		
9.0	.151	.073	.020	.133	.065	.018	.099	.049	.014	.067	.033	.010	.036	.018	.005		
10.0	.142	.068	.019	.125	.061	.017	.093	.046	.013	.063	.031	.009	.034	.017	.005		

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	.864	.864	.864	.738	.738	.738	.504	.504	.504	.289	.289	.289	.093	.093	.093	
1.0	.859	.835	.813	.735	.717	.700	.503	.493	.484	.289	.285	.281	.093	.092	.091	
2.0	.853	.815	.784	.730	.702	.678	.501	.486	.473	.289	.282	.277	.093	.091	.090	
3.0	.846	.801	.765	.725	.691	.663	.498	.480	.465	.288	.280	.274	.092	.091	.090	
4.0	.840	.790	.753	.721	.683	.654	.496	.476	.460	.287	.279	.272	.092	.091	.090	
5.0	.834	.782	.744	.716	.677	.647	.493	.473	.457	.286	.277	.271	.092	.091	.089	
6.0	.828	.775	.738	.711	.671	.642	.491	.470	.454	.285	.276	.270	.092	.090	.089	
7.0	.822	.770	.733	.707	.667	.639	.489	.468	.453	.284	.276	.269	.092	.090	.089	
8.0	.817	.765	.729	.703	.664	.636	.486	.466	.451	.283	.275	.269	.092	.090	.089	
9.0	.812	.761	.727	.699	.660	.634	.484	.464	.450	.282	.274	.268	.091	.090	.089	
10.0	.807	.757	.725	.696	.658	.632	.483	.463	.449	.281	.274	.268	.091	.090	.089	

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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm											
NAME: ASD-LUV-24B-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		-7.8	-7.1	-6.6	-5.9	-4.2	-9.6	-8.9	-8.4	-7.8	-6.1
	3H	-1.7	-1.1	-0.5	0.1	1.8	-6.2	-5.6	-5.0	-4.4	-2.7
	4H	2.4	3.0	3.6	4.2	5.9	-4.3	-3.7	-3.1	-2.5	-0.8
	6H	6.7	7.3	7.9	8.5	10.2	-2.2	-1.6	-0.9	-0.4	1.3
	8H	9.1	9.6	10.3	10.8	12.5	-0.7	-0.2	0.5	1.1	2.8
	12H	11.6	12.1	12.8	13.3	15.1	1.4	1.9	2.6	3.1	4.8
4H	2H	-7.3	-6.7	-6.1	-5.5	-3.8	-8.7	-8.1	-7.5	-6.9	-5.2
	3H	-1.5	-1.0	-0.3	0.2	1.9	-5.6	-5.1	-4.4	-3.9	-2.2
	4H	2.7	3.2	4.0	4.4	6.1	-3.7	-3.2	-2.4	-2.0	-0.3
	6H	7.4	7.8	8.6	9.0	10.8	-1.4	-1.0	-0.1	0.2	2.0
	8H	9.9	10.3	11.2	11.5	13.3	0.1	0.5	1.4	1.7	3.5
	12H	12.7	13.1	14.0	14.3	16.1	2.3	2.6	3.5	3.8	5.6
8H	4H	2.6	3.0	3.9	4.2	6.0	-2.9	-2.5	-1.6	-1.3	0.5
	6H	7.4	7.7	8.7	9.0	10.8	-0.7	-0.4	0.5	0.8	2.6
	8H	10.2	10.5	11.5	11.8	13.5	0.7	1.0	2.0	2.2	4.0
	12H	13.5	13.7	14.7	14.9	16.7	2.8	3.0	4.1	4.3	6.1
12H	4H	2.5	2.9	3.8	4.1	5.9	-2.0	-1.6	-0.7	-0.4	1.4
	6H	7.4	7.6	8.6	8.9	10.7	-0.0	0.2	1.2	1.5	3.3
	8H	10.2	10.5	11.5	11.7	13.5	1.3	1.5	2.5	2.7	4.5
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.4 / - 0.4					+ 0.2 / - 0.1				
2.0H		+ 0.5 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 241.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.9)

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:

UTILIZATION FACTORS TABLE

Test:U:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

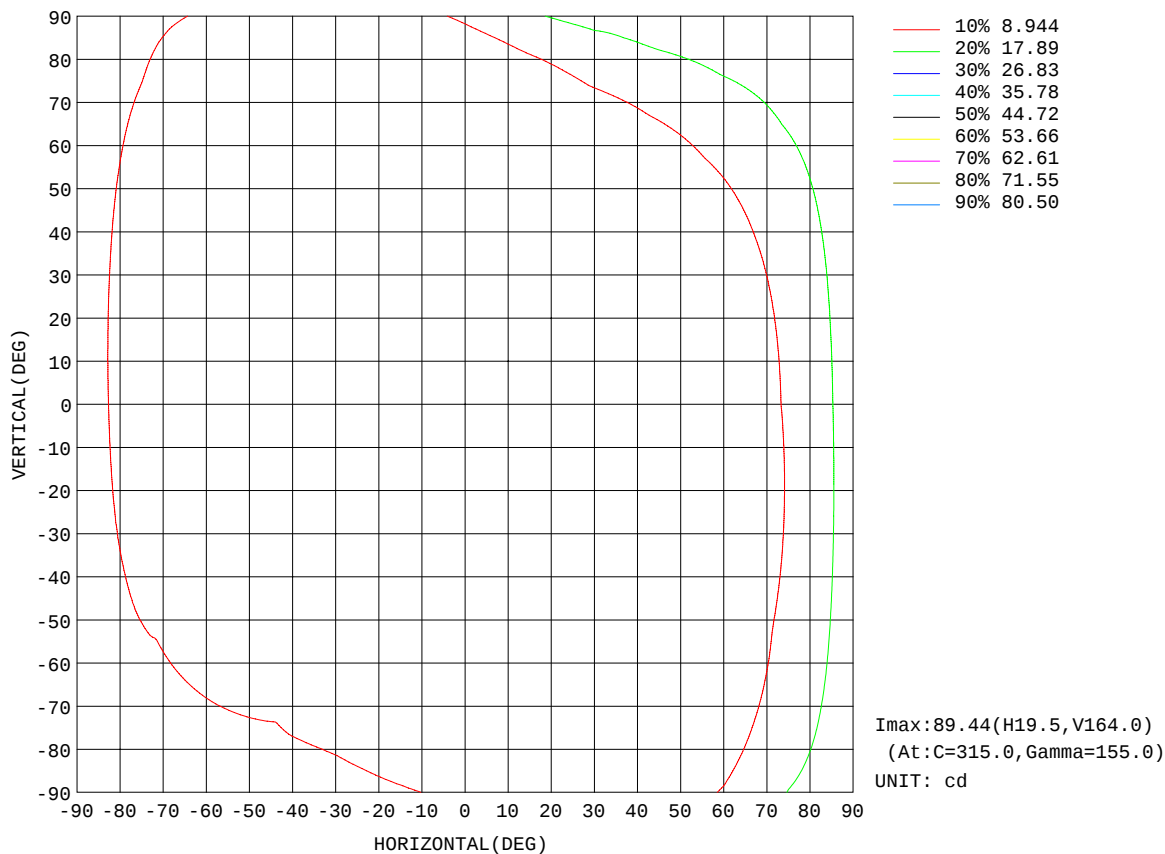
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	31	20	14	27	17	12	21	14	9	1
0.80	39	27	20	35	24	17	26	18	13	2
1.00	46	33	25	41	30	23	30	23	17	2
1.25	53	40	32	46	35	28	34	26	21	3
1.50	58	46	37	51	40	33	37	30	24	3
2.00	66	54	45	57	47	40	42	35	30	4
2.50	71	60	52	61	52	45	45	38	33	4
3.00	74	64	57	65	56	50	47	41	36	5
4.00	79	71	64	69	62	56	50	45	41	5
5.00	82	75	69	72	66	60	52	48	44	6
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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

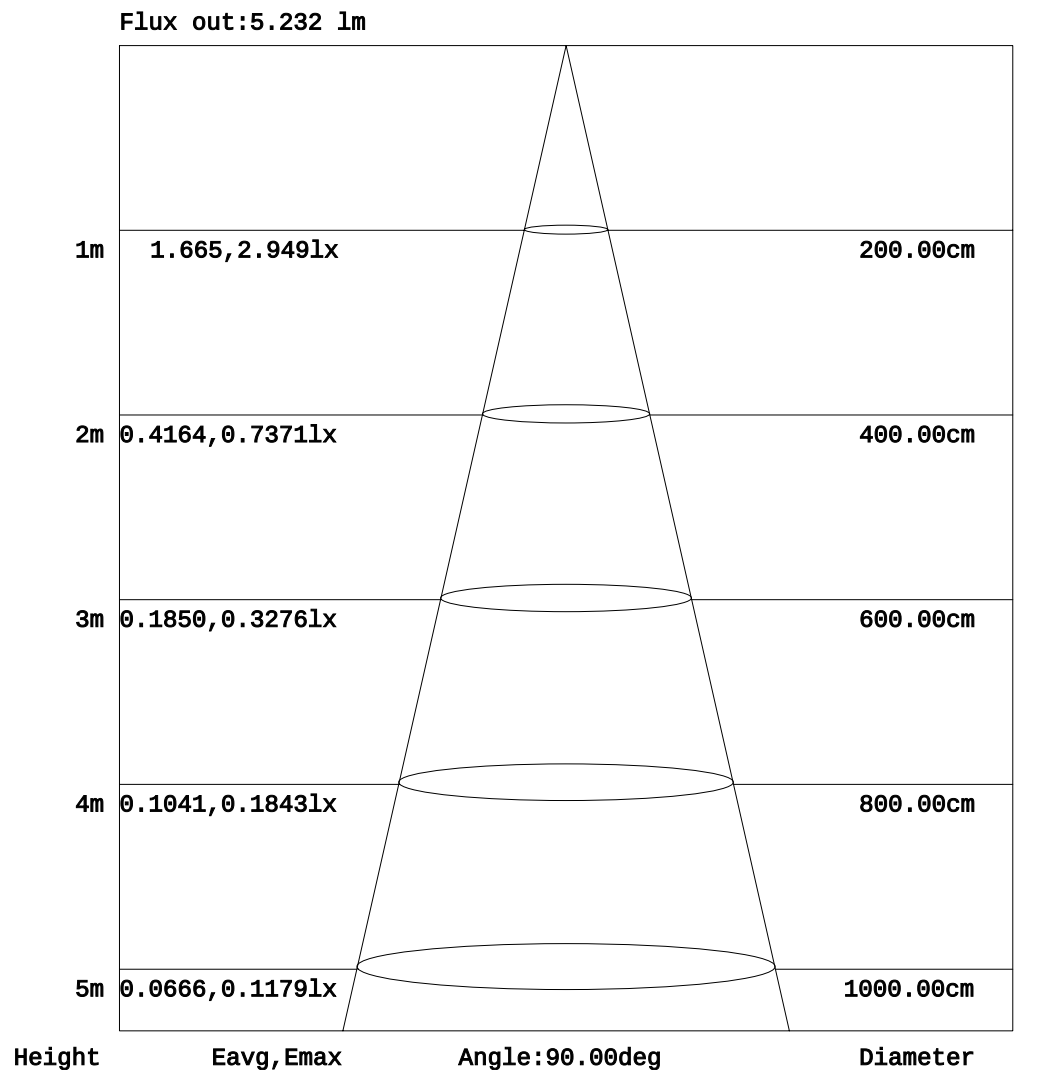


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-20

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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



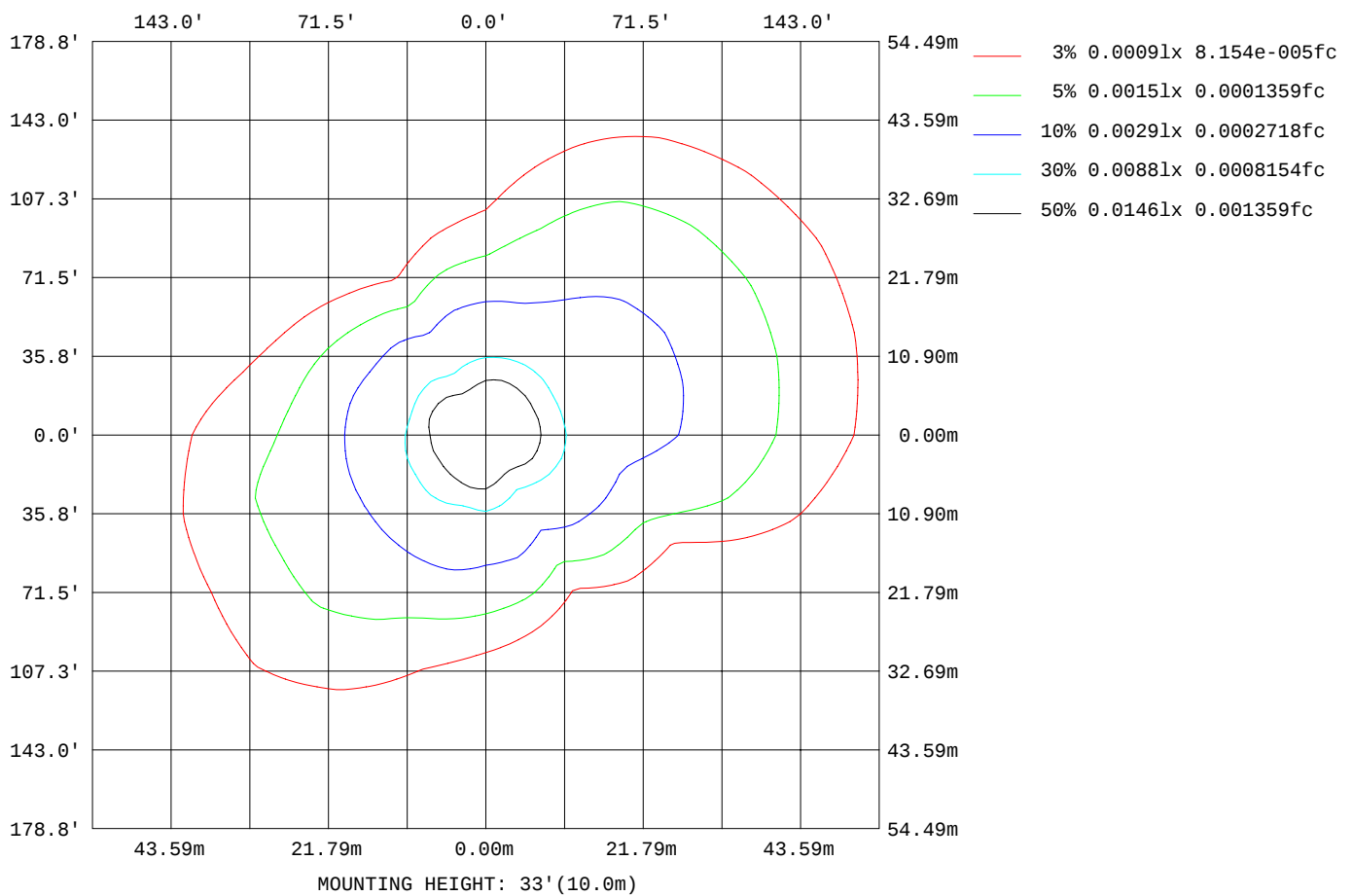
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

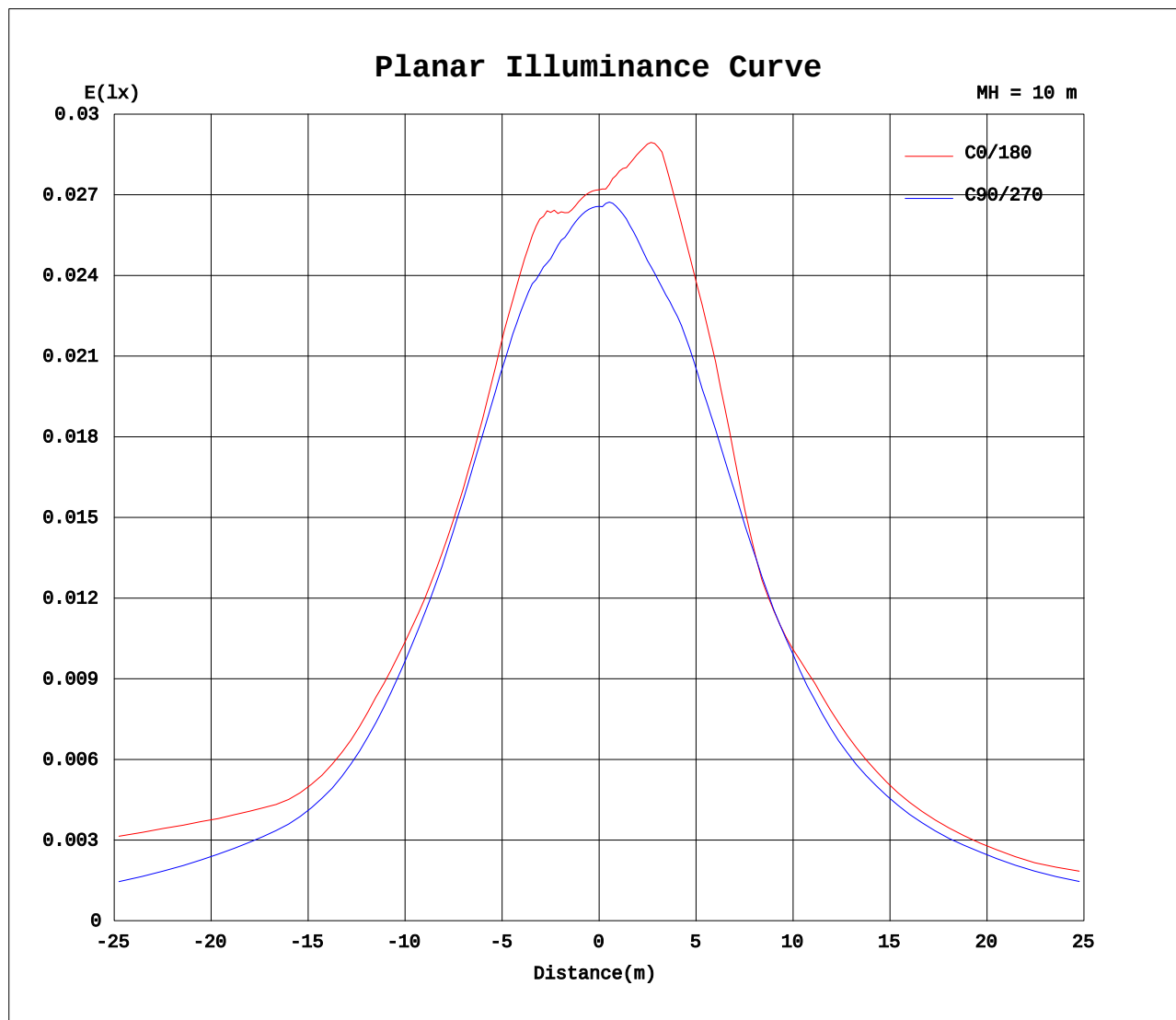
AvgL	cd/m2
L_0~180(65)av	93
L_0~180(75)av	305
L_0~180(85)av	1622
L_90~270(65)av	65
L_90~270(75)av	122
L_90~270(85)av	616
L_45(65)av	75
L_45(75)av	209
L_45(85)av	1048

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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm																		
NAME: ASD-LUV-24B-BK									TYPE:LED					WEIGHT:				
SPEC.:5000K									DIM.:					SERIAL No.:				
MFR.: ASD Lighting corp									SUR.:					PROTECTION ANGLE:				

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	2.72	2.66	2.67	2.60	2.64	2.62	2.66	2.69	2.75	2.83	2.81	2.78	2.72	2.66	2.67	2.60	2.64	2.62	2.66
5	2.72	2.66	2.62	2.54	2.58	2.59	2.66	2.75	2.81	2.93	2.90	2.85	2.80	2.75	2.80	2.70	2.68	2.66	2.69
10	2.76	2.70	2.57	2.50	2.52	2.58	2.66	2.82	2.93	3.06	3.05	3.00	2.97	2.89	2.89	2.74	2.65	2.66	2.68
15	2.93	2.78	2.57	2.45	2.49	2.58	2.71	2.95	3.09	3.25	3.24	3.24	3.21	3.07	2.98	2.77	2.63	2.65	2.70
20	3.02	2.92	2.64	2.45	2.45	2.58	2.82	3.07	3.19	3.26	3.30	3.32	3.32	3.23	3.12	2.82	2.59	2.61	2.78
25	3.03	2.91	2.69	2.41	2.35	2.54	2.86	3.07	3.20	3.25	3.30	3.31	3.32	3.31	3.17	2.83	2.55	2.58	2.86
30	2.98	2.88	2.71	2.39	2.26	2.50	2.87	3.04	3.15	3.12	3.15	3.27	3.31	3.34	3.15	2.84	2.52	2.57	2.89
35	2.92	2.84	2.72	2.36	2.16	2.47	2.85	2.95	2.89	2.79	2.81	3.00	3.12	3.30	3.13	2.85	2.45	2.58	2.90
40	2.91	2.84	2.69	2.32	2.05	2.44	2.80	2.75	2.65	2.76	2.73	2.83	2.82	3.07	3.06	2.82	2.38	2.58	2.85
45	2.93	2.87	2.66	2.28	1.93	2.39	2.73	2.55	2.71	2.95	2.91	2.97	2.85	2.79	2.90	2.75	2.24	2.55	2.80
50	2.93	2.91	2.64	2.28	1.81	2.36	2.58	2.65	2.95	3.02	2.96	3.04	2.96	2.72	2.63	2.69	2.15	2.53	2.71
55	2.87	2.87	2.64	2.31	1.76	2.38	2.42	2.90	3.02	3.03	2.96	3.04	2.95	2.81	2.49	2.63	2.06	2.53	2.67
60	3.36	2.88	2.73	2.37	1.72	2.40	2.51	2.97	3.06	3.04	2.98	3.07	3.00	2.88	2.59	2.51	1.90	2.49	2.68
65	4.72	3.36	2.81	2.39	1.66	2.38	2.73	3.08	3.07	3.31	3.41	3.28	3.17	3.13	2.68	2.23	1.73	2.41	2.75
70	7.08	5.01	2.73	2.39	1.58	2.25	2.80	3.28	3.98	4.58	4.75	4.50	3.95	3.37	2.88	2.19	1.60	2.41	2.90
75	9.86	7.30	3.05	2.37	1.51	2.25	2.70	4.08	5.98	7.12	6.88	6.82	5.95	4.37	3.08	2.13	1.46	2.32	3.60
80	13.2	9.58	4.16	2.08	1.46	2.13	2.85	5.29	8.02	9.25	9.33	9.02	7.99	6.13	4.00	2.13	1.32	2.32	4.80
85	17.6	13.1	6.19	2.29	1.31	1.80	4.10	7.18	10.2	13.2	12.9	12.4	10.7	8.21	5.47	2.54	1.10	2.84	6.64
90	23.1	18.1	9.52	3.73	1.15	2.49	6.30	10.2	13.5	15.8	16.2	15.2	13.4	10.9	8.16	4.12	1.18	4.73	10.5
95	30.1	25.1	15.4	8.12	2.66	5.76	10.8	15.3	18.9	21.1	21.4	20.2	18.2	15.8	13.6	8.81	2.63	8.65	14.7
100	36.9	33.2	23.1	14.5	9.12	9.98	14.3	21.6	25.4	23.8	27.1	23.9	21.6	19.3	12.6	7.32	7.94	7.26	18.2
105	42.0	36.0	25.5	18.1	17.1	16.5	15.6	16.9	26.7	28.5	33.0	29.1	26.8	21.2	10.5	19.6	19.0	9.83	12.1
110	39.8	27.7	25.5	23.5	23.5	22.9	20.2	18.2	17.4	15.5	22.8	20.8	16.2	12.7	12.9	26.5	28.1	19.8	15.3
115	28.0	28.0	26.8	31.5	31.9	31.3	30.8	21.4	19.6	17.1	21.9	22.7	18.5	17.4	29.1	28.7	29.8	31.2	16.5
120	28.0	33.1	29.9	42.5	40.2	39.4	39.8	26.3	22.5	20.8	25.2	25.0	22.0	21.1	30.3	35.4	37.5	36.6	20.2
125	33.4	32.1	34.2	49.4	48.4	46.1	44.1	40.9	30.7	24.6	29.3	28.2	24.9	41.7	37.8	37.2	39.8	37.8	22.2
130	36.2	34.9	43.1	52.2	51.2	49.5	48.5	48.4	43.2	42.8	40.1	37.5	45.5	22.5	34.3	45.0	43.3	41.5	32.5
135	39.2	45.8	56.3	57.8	56.0	55.3	55.3	55.6	54.1	31.5	52.9	51.1	25.3	47.4	31.9	43.6	39.5	37.7	50.8
140	39.7	46.6	63.7	63.2	62.2	61.1	61.2	55.0	53.5	54.2	71.5	68.7	62.6	56.8	39.9	34.7	35.9	39.6	29.3
145	46.2	63.5	62.7	71.3	66.5	65.2	62.9	54.2	45.5	59.1	77.4	72.9	70.2	24.8	41.7	35.0	33.6	41.2	29.3
150	68.4	52.2	60.2	65.4	63.8	62.0	58.1	53.8	44.6	36.7	45.5	41.1	29.0	32.9	40.9	40.3	31.9	36.9	31.5
155	42.6	49.5	56.2	59.4	59.3	63.2	54.9	58.2	46.2	46.0	52.4	45.9	38.7	46.3	26.4	37.9	28.1	37.6	34.1
160	48.0	48.1	53.6	59.6	54.9	60.8	55.2	50.4	51.2	57.9	69.1	66.1	62.9	54.1	33.2	36.2	24.2	35.9	39.2
165	57.9	58.5	52.0	54.2	50.0	59.2	58.4	47.6	42.9	54.5	63.7	39.2	64.0	40.3	50.7	43.8	28.2	33.7	36.0
170	54.1	54.4	52.2	48.6	44.8	54.3	57.4	58.9	59.2	56.4	16.0	20.7	49.3	55.6	52.6	51.3	45.1	51.5	49.1
175	44.6	44.5	57.4	51.6	50.8	53.9	61.0	64.1	59.1	50.8	15.9	18.1	64.5	62.6	58.3	55.5	52.9	53.5	57.4
180	62.7	63.1	56.1	56.2	56.3	56.3	56.2	55.9	54.2	16.6	15.7	53.6	62.0	62.8	56.1	56.2	56.3	56.3	56.2

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:120.2V I:0.0639A P:7.534W PF:0.9812 Lamp Flux:416.3x1 lm		
NAME: ASD-LUV-24B-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	2.69	2.75	2.83	2.81	2.78													
5	2.68	2.77	2.82	2.83	2.77													
10	2.72	2.84	2.88	2.90	2.83													
15	2.81	3.00	3.04	3.08	3.00													
20	2.95	3.17	3.17	3.07	3.04													
25	3.08	3.17	3.16	2.98	3.00													
30	3.11	3.12	3.07	2.92	2.94													
35	3.07	3.04	2.97	2.87	2.90													
40	2.97	2.95	2.92	2.83	2.88													
45	2.88	2.92	2.91	2.82	2.88													
50	2.83	2.92	2.84	2.72	2.75													
55	2.83	2.87	2.78	2.83	2.83													
60	2.80	3.01	3.34	3.69	3.65													
65	3.04	3.90	4.75	5.33	5.27													
70	4.11	5.68	7.00	7.71	7.60													
75	5.83	8.46	10.00	10.7	10.5													
80	8.06	11.2	13.3	14.6	14.4													
85	11.6	15.6	18.5	20.0	20.1													
90	16.8	21.4	24.0	25.6	24.3													
95	21.8	26.6	29.4	29.0	28.2													
100	23.2	28.0	28.8	34.1	32.8													
105	29.1	38.4	41.7	43.6	40.4													
110	15.0	42.4	48.5	49.4	44.6													
115	17.1	23.7	46.2	50.1	30.1													
120	22.9	25.5	31.2	31.2	27.3													
125	25.1	32.4	42.8	37.4	41.7													
130	29.4	33.2	38.7	38.5	34.8													
135	34.7	34.1	41.7	42.1	37.1													
140	33.3	44.2	42.5	44.4	36.6													
145	68.5	37.4	55.3	53.8	40.9													
150	23.7	82.1	79.5	77.9	72.5													
155	23.5	38.8	89.6	89.3	42.9													
160	27.9	31.2	51.2	51.6	44.9													
165	37.3	29.4	61.3	64.1	61.3													
170	34.6	43.0	47.7	75.2	64.1													
175	52.1	25.8	21.3	64.6	56.2													
180	55.9	54.5	16.5	15.7	53.5													

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: