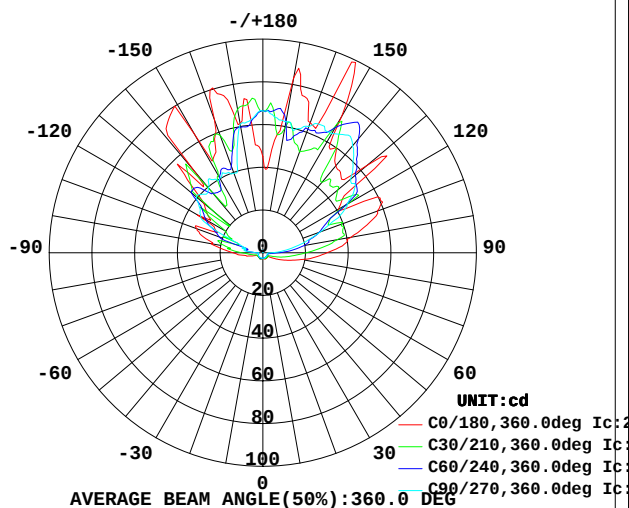


LUMINAIRE PHOTOMETRIC TEST REPORT

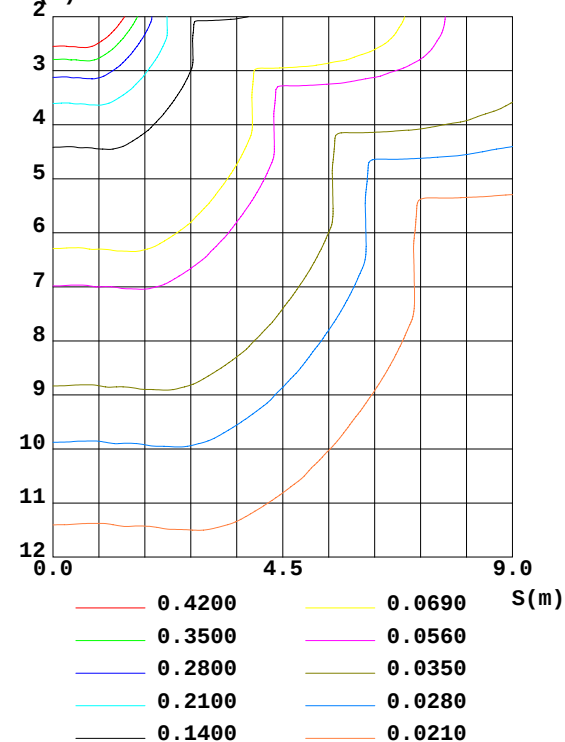
Test:U:120.2V I:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 50.44 lm/W			
MODEL	ASD-LUV-28B-BK	I _{max} (cd)	99.09	S/MH(C0/180)	1.56
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	1.51
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	528.8	η UP, DN(C0-180)	48.9, 5.7
NOMINAL FLUX(lm)	528.8	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	40.1, 5.4
LAMPS INSIDE	1	η up(%)	88.9	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	11.1	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	2.880	2.526	2.549	2.993	2.924	2.773	2.592	2.850	0- 10	0.2646	0.2646	0.10,0.10
20	3.120	2.708	2.573	3.212	3.185	2.996	2.577	3.150	10- 20	0.8240	1.089	0.41,0.41
30	3.085	2.777	2.515	3.042	2.992	3.085	2.577	3.185	20- 30	1.377	2.465	0.92,0.92
40	3.066	2.746	2.457	2.823	2.850	3.008	2.549	3.127	30- 40	1.803	4.268	1.59,1.59
50	2.800	2.738	2.334	3.027	2.877	2.588	2.515	3.139	40- 50	2.162	6.430	2.4,2.4
60	4.687	2.823	2.307	3.050	2.869	2.646	2.476	2.777	50- 60	2.498	8.928	3.33,3.33
70	10.00	2.994	2.134	4.028	3.964	2.919	2.434	5.635	60- 70	3.418	12.35	4.6,4.6
80	18.34	6.336	2.142	8.554	7.983	3.072	2.175	11.69	70- 80	6.107	18.45	6.88,6.88
90	30.03	14.02	4.106	14.80	13.96	6.173	2.747	21.30	80- 90	11.21	29.66	11.1,11.1
100	41.84	29.21	14.67	24.62	24.72	13.29	8.051	35.32	90-100	20.40	50.06	18.7,18.7
110	57.01	31.41	28.56	21.12	32.81	11.37	11.84	38.72	100-110	28.97	79.03	29.5,29.5
120	41.00	34.31	45.72	29.31	35.45	22.46	33.71	30.68	110-120	31.48	110.5	41.2,41.2
130	63.46	41.69	53.77	42.39	36.08	41.99	40.74	41.34	120-130	36.67	147.2	54.9,54.9
140	53.21	71.70	65.31	57.55	49.47	38.08	39.66	44.95	130-140	37.68	184.9	68.9,68.9
150	74.12	62.18	64.52	48.99	64.29	44.45	40.43	76.18	140-150	35.08	220.0	82,82
160	64.83	54.37	62.83	59.01	66.53	43.09	39.55	36.12	150-160	26.00	246.0	91.7,91.7
170	83.34	54.80	62.24	72.97	61.41	61.38	61.24	47.43	160-170	16.45	262.4	97.8,97.8
180	45.16	66.74	66.41	64.74	44.96	66.74	66.37	64.98	170-180	5.788	268.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

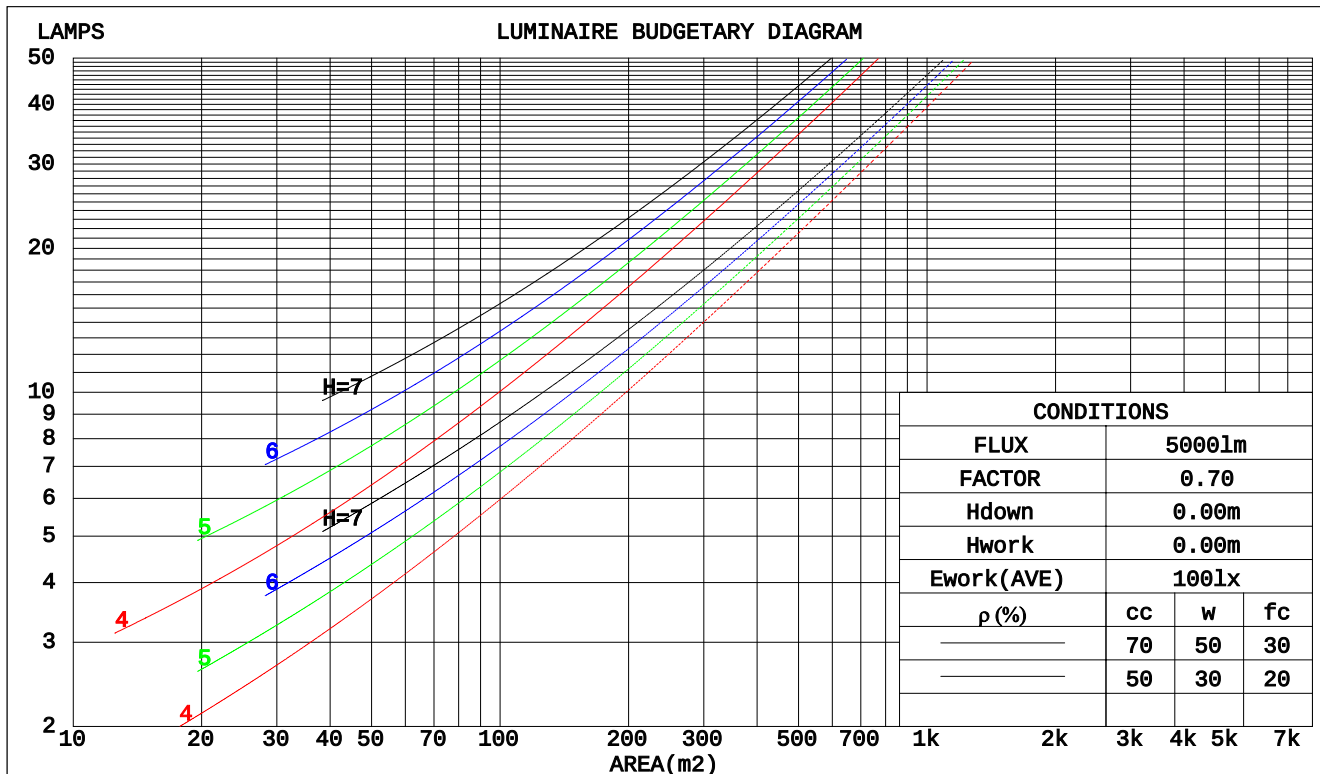
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-20

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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-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	.98	.98	.98	.85	.85	.85	.62	.62	.62	.40	.40	.40	.20	.20	.20	.11
1.0	.82	.78	.74	.72	.68	.65	.51	.49	.47	.32	.31	.30	.15	.14	.13	.06
2.0	.71	.65	.60	.62	.57	.52	.44	.41	.38	.28	.26	.24	.13	.11	.10	.04
3.0	.62	.55	.49	.54	.48	.43	.38	.34	.31	.24	.22	.20	.11	.10	.08	.03
4.0	.55	.47	.41	.47	.41	.36	.34	.29	.26	.21	.19	.16	.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	.37	.31	.26	.27	.22	.19	.17	.14	.12	.08	.06	.05	.01
7.0	.39	.31	.26	.34	.27	.22	.24	.20	.16	.15	.12	.10	.07	.06	.04	.01
8.0	.35	.27	.22	.30	.24	.20	.22	.17	.14	.14	.11	.09	.06	.05	.04	.01
9.0	.31	.24	.19	.27	.21	.17	.20	.16	.13	.13	.10	.08	.06	.04	.03	.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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm					
NAME: ASD-LUV-28B-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	.312	.177	.056	.278	.158	.050	.214	.123	.039	.156	.090	.029	.102	.059	.019		
2.0	.270	.148	.045	.239	.132	.041	.181	.100	.031	.127	.071	.022	.077	.044	.014		
3.0	.242	.129	.039	.213	.114	.034	.160	.087	.026	.110	.060	.019	.064	.036	.011		
4.0	.220	.114	.034	.194	.101	.030	.144	.076	.023	.098	.053	.016	.056	.030	.009		
5.0	.202	.103	.030	.178	.091	.027	.132	.069	.020	.089	.047	.014	.050	.026	.008		
6.0	.186	.093	.027	.164	.083	.024	.122	.062	.018	.082	.043	.013	.045	.024	.007		
7.0	.173	.086	.024	.152	.076	.022	.113	.057	.016	.076	.039	.011	.041	.021	.006		
8.0	.161	.079	.022	.142	.070	.020	.105	.053	.015	.070	.036	.010	.038	.019	.006		
9.0	.151	.073	.020	.133	.065	.018	.098	.049	.014	.066	.033	.009	.035	.018	.005		
10.0	.142	.068	.019	.125	.060	.017	.093	.045	.013	.062	.031	.009	.033	.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	.868	.868	.868	.742	.742	.742	.506	.506	.506	.291	.291	.291	.093	.093	.093	
1.0	.864	.839	.817	.739	.720	.704	.505	.496	.487	.291	.287	.283	.093	.092	.092	
2.0	.857	.820	.788	.734	.706	.682	.503	.488	.475	.290	.284	.279	.093	.092	.091	
3.0	.851	.806	.770	.729	.695	.667	.501	.483	.468	.289	.282	.276	.093	.092	.090	
4.0	.844	.795	.757	.724	.687	.658	.498	.479	.463	.288	.280	.274	.093	.091	.090	
5.0	.838	.786	.748	.720	.680	.651	.496	.475	.460	.287	.279	.273	.093	.091	.090	
6.0	.832	.780	.742	.715	.675	.646	.493	.473	.457	.286	.278	.272	.092	.091	.090	
7.0	.826	.774	.738	.711	.671	.643	.491	.470	.455	.285	.277	.271	.092	.091	.090	
8.0	.821	.769	.734	.707	.667	.640	.489	.469	.454	.285	.276	.271	.092	.091	.090	
9.0	.816	.765	.731	.703	.664	.638	.487	.467	.453	.284	.276	.270	.092	.091	.089	
10.0	.811	.762	.729	.699	.662	.636	.485	.466	.452	.283	.275	.270	.092	.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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm											
NAME: ASD-LUV-28B-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		-6.4	-5.7	-5.2	-4.5	-2.8	-10.4	-9.7	-9.2	-8.5	-6.8
3H		0.9	1.5	2.1	2.7	4.4	-7.9	-7.2	-6.7	-6.1	-4.3
4H		4.9	5.5	6.2	6.7	8.4	-6.2	-5.6	-5.0	-4.5	-2.7
6H		9.1	9.6	10.3	10.8	12.6	-4.3	-3.7	-3.0	-2.5	-0.8
8H		11.4	11.9	12.7	13.2	14.9	-3.2	-2.6	-1.9	-1.4	0.3
12H		13.9	14.4	15.1	15.6	17.3	-1.7	-1.2	-0.4	0.1	1.8
4H 2H		-6.1	-5.5	-4.8	-4.3	-2.5	-8.7	-8.1	-7.5	-6.9	-5.2
3H		1.3	1.8	2.5	3.0	4.7	-6.0	-5.5	-4.8	-4.3	-2.6
4H		5.6	6.1	6.9	7.3	9.1	-4.5	-4.1	-3.3	-2.9	-1.1
6H		10.2	10.5	11.4	11.8	13.5	-2.8	-2.4	-1.6	-1.2	0.5
8H		12.6	13.0	13.9	14.2	16.0	-1.9	-1.5	-0.6	-0.3	1.5
12H		15.2	15.6	16.5	16.8	18.6	-0.4	-0.1	0.8	1.1	2.9
8H 4H		5.8	6.1	7.0	7.3	9.1	-1.1	-0.7	0.2	0.5	2.3
6H		10.6	10.9	11.9	12.1	13.9	0.5	0.8	1.7	2.0	3.8
8H		13.3	13.6	14.6	14.9	16.6	1.3	1.5	2.5	2.8	4.6
12H		16.3	16.6	17.6	17.8	19.6	2.2	2.4	3.5	3.7	5.5
12H 4H		5.7	6.0	7.0	7.3	9.0	1.3	1.6	2.5	2.8	4.6
6H		10.6	10.9	11.9	12.1	13.9	3.1	3.3	4.3	4.6	6.4
8H		13.5	13.7	14.7	15.0	16.8	4.0	4.2	5.2	5.4	7.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.3 / - 0.4					+ 0.1 / - 0.1				
2.0H		+ 0.4 / - 0.5					+ 0.4 / - 0.3				

CIE Pub.117 Corrected 268.2 lm Total Lamp Luminous Flux.(8log(F/F0) = -4.6)

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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

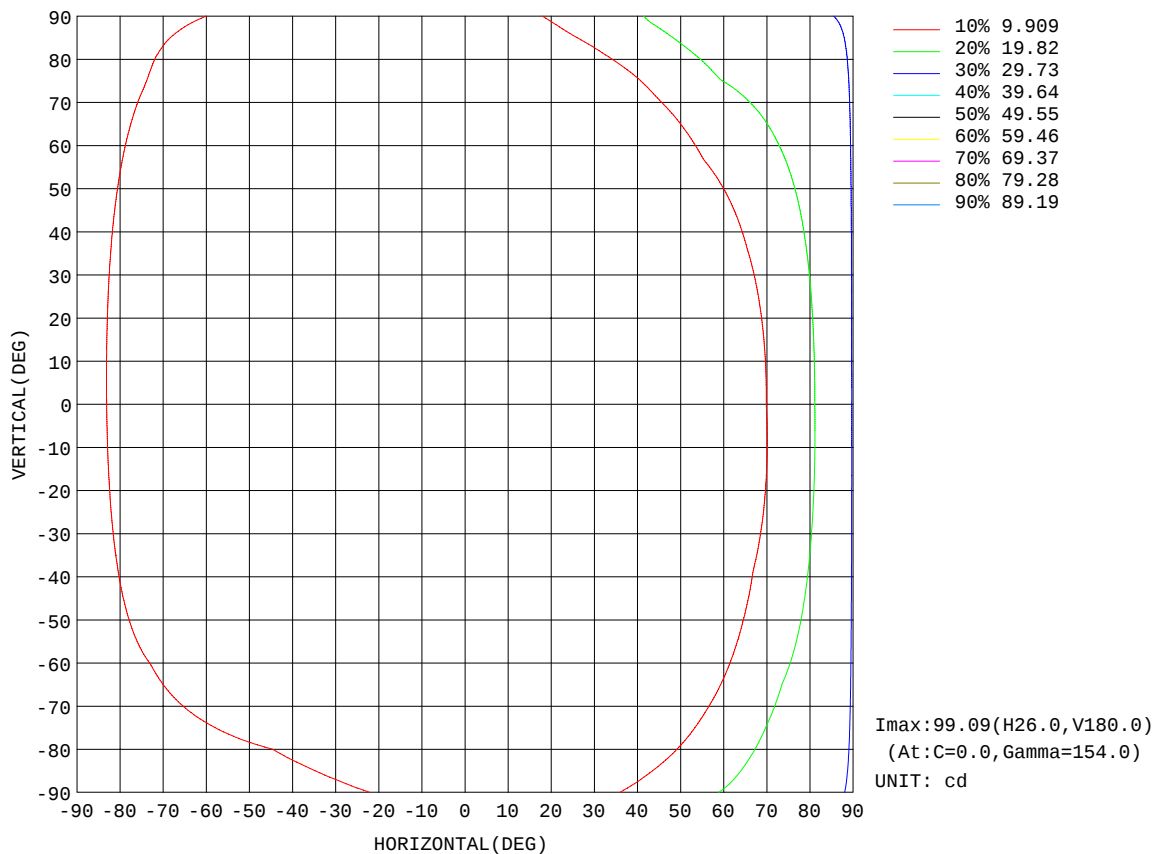
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	31	19	13	27	17	12	21	13	9	1
0.80	39	27	20	34	24	17	26	18	13	2
1.00	46	33	25	40	29	22	30	23	17	2
1.25	53	40	32	46	35	28	34	26	21	2
1.50	58	46	37	51	40	33	37	30	24	3
2.00	66	54	45	57	47	40	41	35	29	3
2.50	70	60	51	61	52	45	45	38	33	4
3.00	74	64	57	65	56	50	47	41	36	4
4.00	79	71	64	69	62	56	50	45	41	5
5.00	82	75	69	71	65	60	52	47	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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

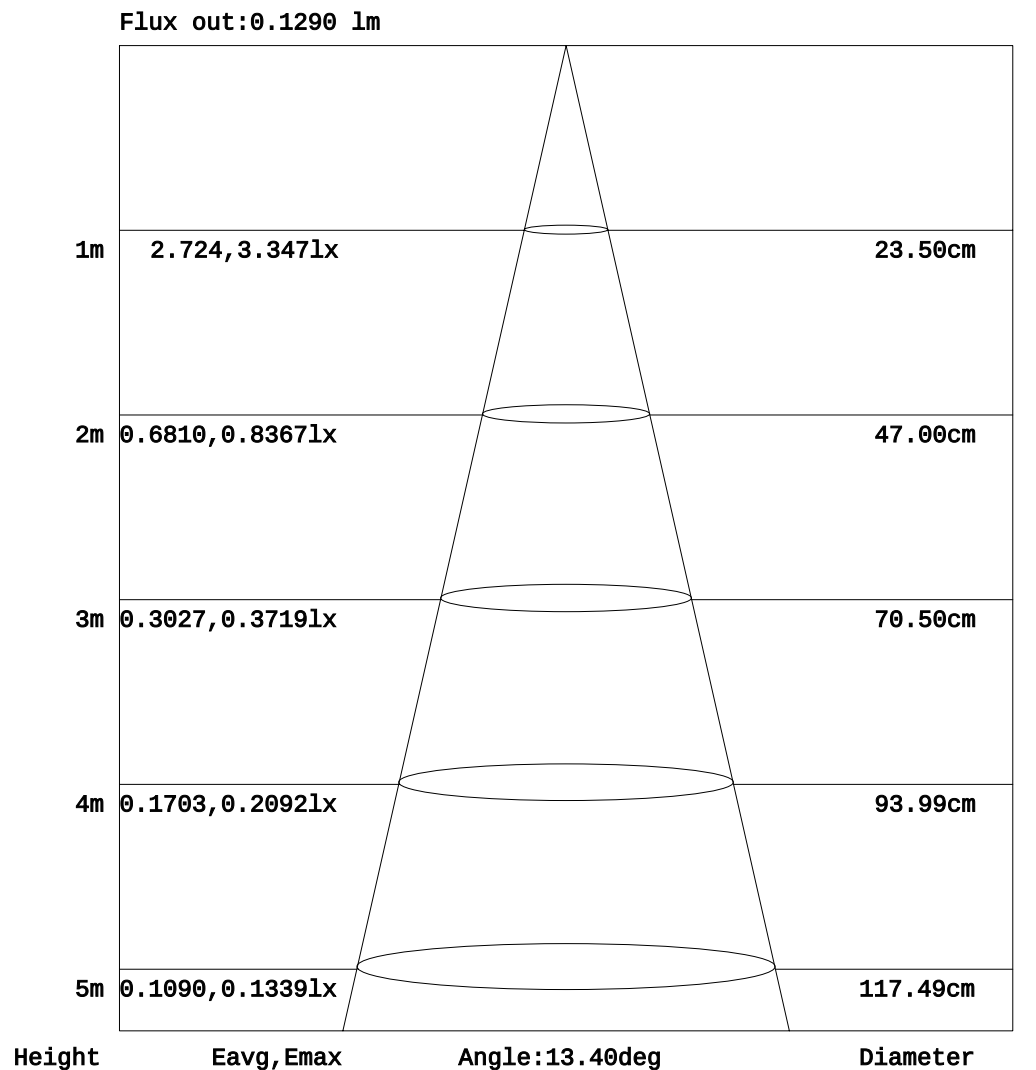


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-20

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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



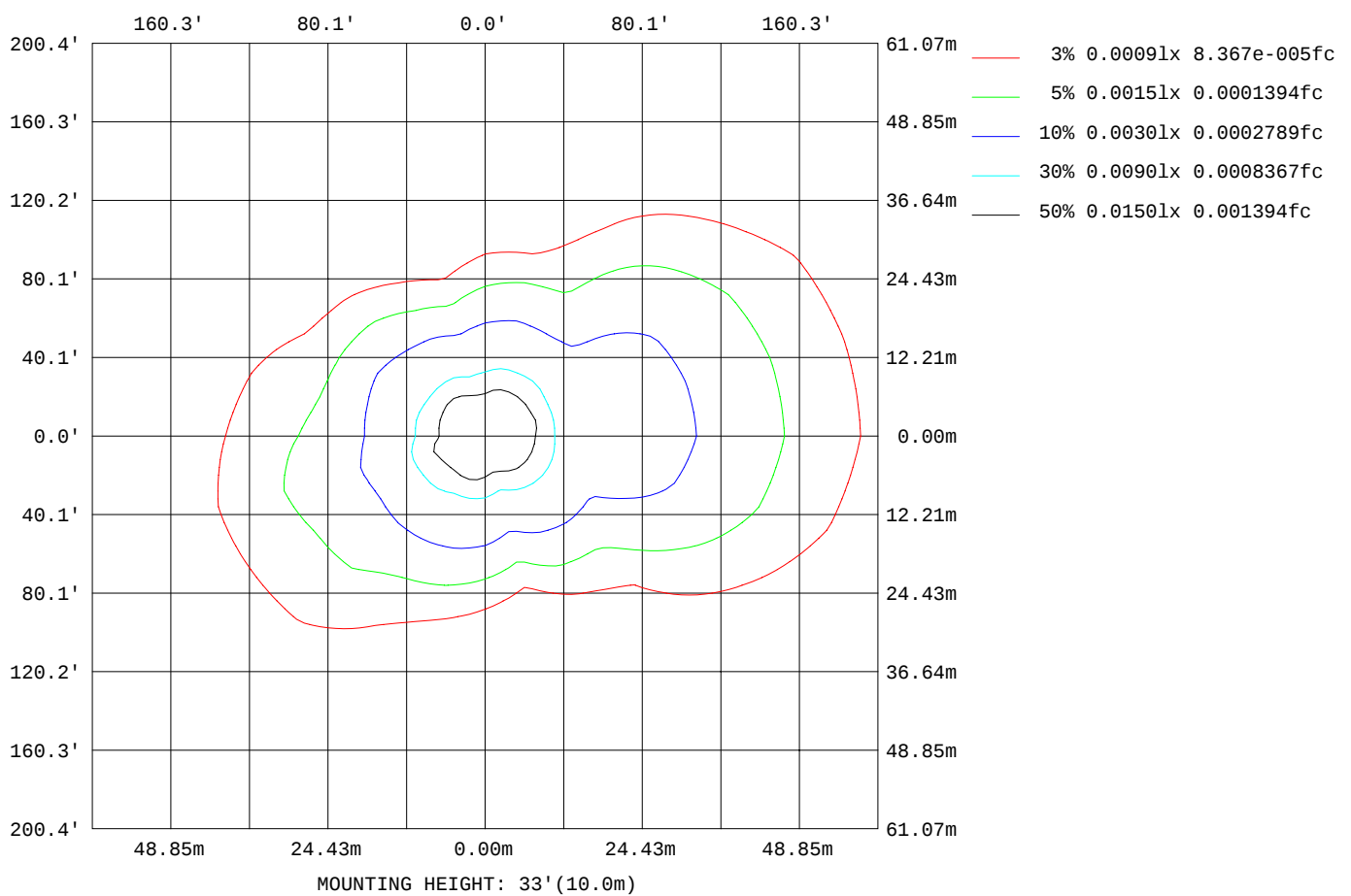
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

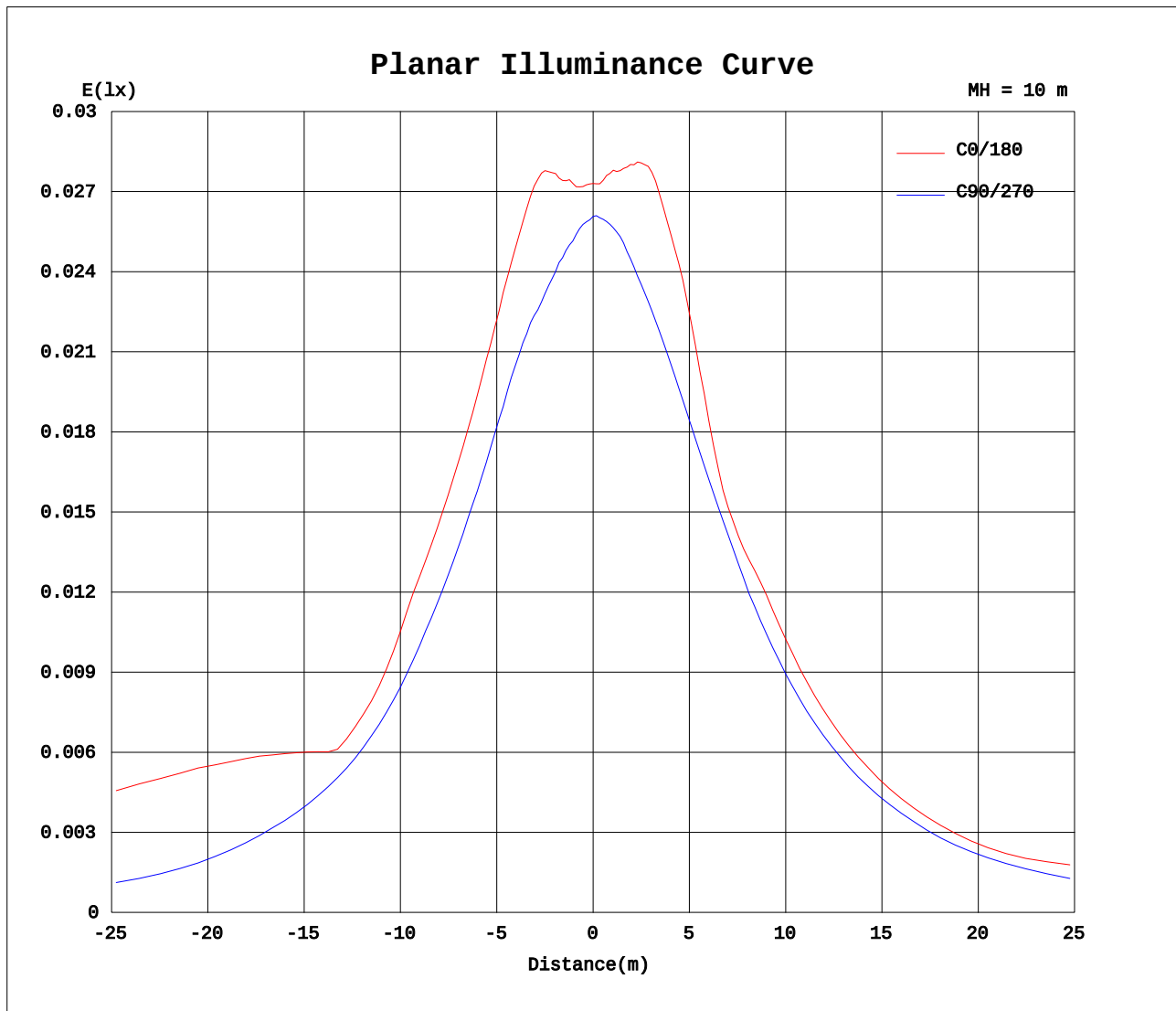
AvgL	cd/m2
L_0~180(65)av	116
L_0~180(75)av	380
L_0~180(85)av	2055
L_90~270(65)av	55
L_90~270(75)av	89
L_90~270(85)av	242
L_45(65)av	73
L_45(75)av	211
L_45(85)av	1184

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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm																		
NAME: ASD-LUV-28B-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	2.73	2.71	2.66	2.57	2.59	2.56	2.61	2.63	2.67	2.82	2.97	3.29	2.73	2.71	2.66	2.57	2.59	2.56	2.61
5	2.75	2.73	2.62	2.52	2.52	2.49	2.57	2.64	2.69	2.89	3.00	3.39	2.80	2.75	2.79	2.69	2.68	2.61	2.61
10	2.88	2.81	2.62	2.53	2.47	2.45	2.55	2.66	2.76	2.99	3.08	3.46	2.92	2.88	2.92	2.77	2.72	2.63	2.59
15	3.07	2.98	2.69	2.59	2.46	2.45	2.54	2.70	2.87	3.14	3.26	3.60	3.11	3.09	3.06	2.86	2.74	2.63	2.58
20	3.12	3.06	2.83	2.71	2.47	2.41	2.57	2.82	3.00	3.21	3.34	3.61	3.19	3.21	3.19	3.00	2.80	2.61	2.58
25	3.12	3.06	2.93	2.78	2.47	2.33	2.55	2.82	3.07	3.20	3.37	3.57	3.18	3.22	3.24	3.08	2.80	2.57	2.58
30	3.08	3.01	2.94	2.78	2.47	2.25	2.51	2.81	3.04	3.04	3.18	3.38	2.99	3.13	3.19	3.08	2.82	2.54	2.58
35	3.07	3.01	2.93	2.77	2.47	2.17	2.49	2.77	2.85	2.80	2.98	3.24	2.77	2.90	3.00	3.08	2.81	2.47	2.58
40	3.07	3.03	2.92	2.75	2.45	2.09	2.46	2.70	2.63	2.82	3.03	3.37	2.85	2.82	2.78	3.01	2.75	2.40	2.55
45	2.98	3.03	2.92	2.73	2.40	1.96	2.39	2.56	2.60	2.98	3.15	3.43	2.90	2.92	2.76	2.80	2.70	2.31	2.53
50	2.80	2.88	2.97	2.74	2.37	1.87	2.33	2.36	2.79	3.03	3.14	3.33	2.88	2.94	2.82	2.59	2.63	2.23	2.51
55	3.19	2.92	2.97	2.76	2.36	1.83	2.32	2.40	2.85	3.05	3.14	3.24	2.88	2.90	2.88	2.54	2.56	2.14	2.50
60	4.69	3.95	2.88	2.82	2.38	1.74	2.31	2.62	2.85	3.05	3.04	3.26	2.87	2.89	3.00	2.65	2.40	2.00	2.48
65	6.92	5.80	3.46	2.78	2.43	1.66	2.19	2.65	2.92	3.03	2.96	3.54	2.93	3.01	3.18	2.80	2.22	1.84	2.44
70	10.0	8.55	5.07	2.99	2.46	1.58	2.13	2.68	3.19	4.03	4.26	4.79	3.96	3.49	3.14	2.92	2.24	1.71	2.43
75	13.7	12.0	7.81	4.20	2.40	1.54	2.21	2.92	4.46	6.13	6.31	6.79	6.01	5.28	3.95	2.80	2.27	1.56	2.38
80	18.3	16.2	11.0	6.34	2.72	1.45	2.14	3.63	6.35	8.55	9.25	9.02	7.98	6.85	5.20	3.07	2.19	1.43	2.18
85	24.4	22.3	14.8	9.37	4.04	1.34	2.37	5.21	8.55	11.2	12.0	12.4	11.4	9.59	7.01	4.00	1.84	1.28	1.85
90	30.0	27.7	20.3	14.0	7.22	1.59	4.11	8.07	11.9	14.8	15.5	15.5	14.0	12.2	9.91	6.17	2.64	1.05	2.75
95	37.4	34.2	27.7	21.3	13.8	6.51	8.97	13.5	17.6	20.3	20.0	20.2	18.6	16.8	14.7	10.5	6.00	1.84	6.76
100	41.8	38.5	35.2	29.2	19.7	14.4	14.7	16.0	24.2	24.6	23.9	25.7	24.7	21.0	17.8	13.3	8.26	3.87	8.05
105	50.5	47.8	38.7	29.5	22.2	22.4	21.1	18.6	20.0	28.4	30.6	32.2	28.8	26.3	21.9	10.7	7.69	13.2	8.27
110	57.0	50.1	39.1	31.4	28.1	29.7	28.6	24.0	20.8	21.1	31.8	36.1	32.8	29.6	12.3	11.4	21.7	23.2	11.8
115	60.7	46.7	34.2	34.4	32.8	38.7	39.1	36.3	24.7	24.4	23.4	24.9	24.1	20.0	17.0	15.3	25.2	26.7	23.4
120	41.0	39.6	46.1	34.3	45.1	47.5	45.7	43.8	31.5	29.3	26.3	33.1	35.5	23.4	20.4	22.5	30.6	33.7	33.7
125	46.5	61.4	42.1	39.7	53.7	54.0	52.4	50.5	42.3	38.9	30.6	33.0	31.8	27.5	32.3	37.0	34.4	36.6	35.9
130	63.5	45.8	45.9	41.7	56.5	55.0	53.8	53.2	57.8	42.4	38.9	37.9	36.1	36.8	28.6	42.0	43.9	43.2	40.7
135	51.7	48.6	44.4	57.5	62.0	62.2	59.6	59.2	61.6	54.9	48.7	55.2	52.0	32.6	48.4	32.1	43.4	40.8	38.8
140	53.2	47.4	43.1	71.7	69.6	66.7	65.3	69.5	58.1	57.5	60.9	58.3	49.5	66.3	38.9	38.1	36.5	36.9	39.7
145	60.2	50.4	60.2	64.4	74.6	69.7	67.4	63.5	58.1	49.1	65.0	80.2	76.8	73.5	29.8	41.9	35.2	36.6	41.8
150	74.1	73.1	70.0	62.2	67.6	65.9	64.5	61.5	57.4	49.0	45.4	63.8	64.3	39.8	41.7	44.5	40.5	34.9	40.4
155	98.5	56.1	53.4	58.8	61.9	62.8	65.8	58.3	60.7	50.5	54.6	56.3	52.0	48.6	57.5	40.2	43.8	32.8	41.0
160	64.8	59.4	50.2	54.4	61.6	58.1	62.8	61.3	51.7	59.0	68.6	72.9	66.5	72.8	58.5	43.1	43.3	29.0	39.5
165	75.7	57.9	55.4	55.8	56.8	52.6	60.0	63.3	61.3	56.9	66.5	72.8	76.9	72.3	52.2	60.1	54.2	41.2	46.6
170	83.3	60.5	59.2	54.8	62.4	57.4	62.2	69.3	72.5	73.0	62.3	62.7	61.4	60.9	68.3	61.4	59.6	54.4	61.2
175	48.7	50.8	64.3	73.2	67.2	63.6	63.7	69.9	74.5	70.7	64.2	23.1	60.9	74.1	71.1	66.9	62.0	61.6	62.7
180	45.2	65.6	66.7	66.7	66.7	66.6	66.4	66.2	66.1	64.7	35.1	23.6	45.0	64.6	66.7	66.7	66.7	66.6	66.4

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:0.8882A P:10.48W PF:0.9852 Lamp Flux:528.8x1 lm		
NAME: ASD-LUV-28B-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	2.63	2.67	2.82	2.97	3.29													
5	2.63	2.71	2.80	3.00	3.27													
10	2.65	2.75	2.85	3.08	3.35													
15	2.65	2.84	3.00	3.24	3.48													
20	2.73	2.99	3.15	3.30	3.49													
25	2.83	3.13	3.19	3.24	3.41													
30	2.88	3.14	3.19	3.17	3.34													
35	2.93	3.10	3.19	3.12	3.29													
40	2.94	3.01	3.13	3.12	3.26													
45	2.91	2.98	3.12	3.06	3.07													
50	2.84	2.98	3.14	2.78	2.77													
55	2.80	2.93	2.90	2.76	3.06													
60	2.78	2.83	2.78	3.87	4.49													
65	2.82	2.73	3.66	5.82	6.70													
70	2.73	3.40	5.63	8.66	9.67													
75	2.60	5.19	8.67	12.0	13.2													
80	3.67	7.43	11.7	16.6	17.9													
85	5.44	10.9	16.8	22.7	23.6													
90	8.64	15.2	21.3	27.3	29.0													
95	14.3	21.2	27.3	34.2	36.2													
100	17.8	24.7	35.3	40.6	43.4													
105	20.2	29.3	39.4	46.9	51.3													
110	13.6	34.6	38.7	50.4	59.2													
115	23.7	20.7	40.9	48.3	55.4													
120	23.5	39.3	30.7	36.1	38.2													
125	26.5	31.1	49.5	42.7	42.9													
130	22.3	34.4	41.3	62.0	69.0													
135	43.6	36.6	43.2	50.5	50.8													
140	46.4	34.3	44.9	52.0	54.0													
145	32.8	64.6	47.0	59.3	60.7													
150	33.0	53.4	76.2	73.5	67.0													
155	38.5	28.7	64.5	97.4	97.8													
160	42.2	32.3	36.1	61.5	62.6													
165	42.5	39.3	33.6	65.3	74.8													
170	60.2	47.5	47.4	51.1	85.7													
175	67.6	62.2	41.4	26.7	70.8													
180	66.2	66.1	65.0	35.7	23.6													

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: