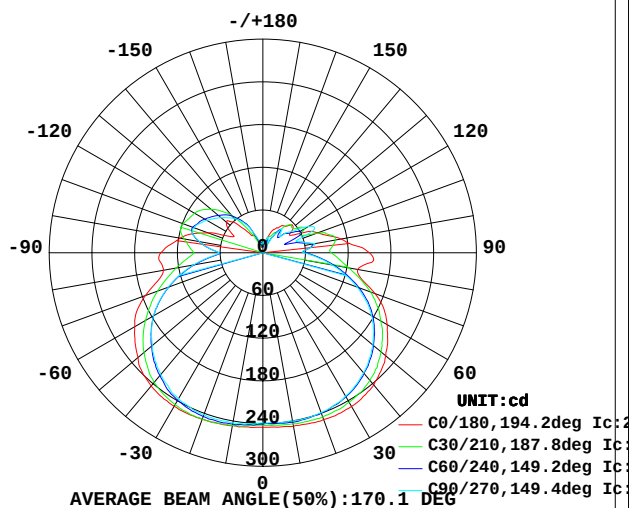


LUMINAIRE PHOTOMETRIC TEST REPORT

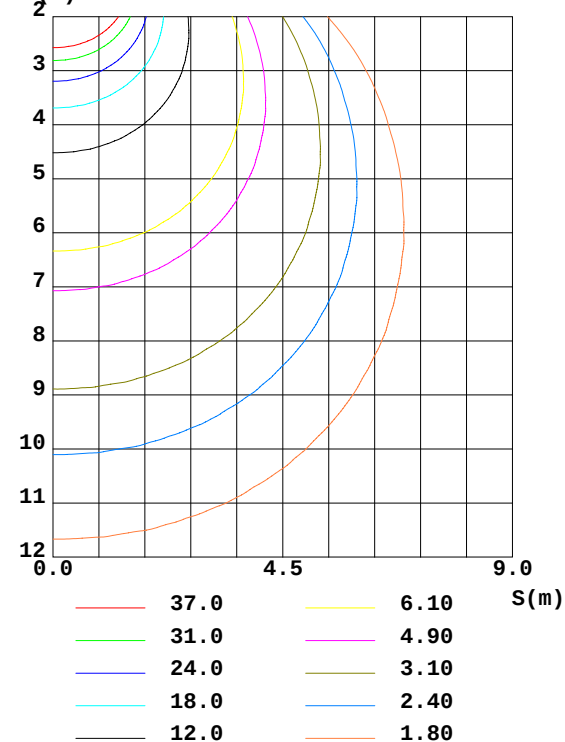
Test:U:120.2V I:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 65.65 lm/W
MODEL	ASD-LWS12-14D24AC-BK	I _{max} (cd)	250.6	S/MH(C0/180)	1.54	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.47	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1572.3	η UP, DN(C0-180)	12.3, 36.1	
NOMINAL FLUX(lm)	1572.31	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	15.2, 36.5	
LAMPS INSIDE	1	η up(%)	27.5	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	η down(%)	72.5	CIBSE SHR MAX	1.55	

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:2025-05-26

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	247.4	242.1	240.2	238.8	246.4	245.1	242.7	241.6	0- 10	23.06	23.06	1.47,1.47
20	249.4	242.3	239.3	240.1	249.1	247.3	242.1	243.8	10- 20	68.96	92.03	5.85,5.85
30	249.3	238.3	232.7	239.3	249.0	242.3	237.2	243.6	20- 30	112.2	204.2	13,13
40	242.5	226.2	220.4	230.9	244.2	230.9	223.2	237.0	30- 40	148.4	352.7	22.4,22.4
50	225.5	209.1	202.0	214.6	229.0	211.0	203.2	222.0	40- 50	172.4	525.1	33.4,33.4
60	201.8	184.5	176.1	191.4	208.1	182.7	177.4	197.0	50- 60	180.8	705.9	44.9,44.9
70	167.9	152.1	141.2	162.6	175.3	148.3	141.2	166.8	60- 70	172.2	878.1	55.8,55.8
80	135.4	112.4	98.97	127.2	142.0	108.0	98.89	133.8	70- 80	143.9	1022	65,65
90	149.9	75.96	58.08	107.1	143.5	77.55	61.29	124.9	80- 90	118.3	1140	72.5,72.5
100	111.7	84.80	74.27	107.4	118.1	103.0	90.63	116.2	90-100	106.4	1247	79.3,79.3
110	82.27	41.63	49.76	76.22	82.00	118.9	103.3	107.0	100-110	96.23	1343	85.4,85.4
120	50.66	57.09	74.04	65.45	46.70	104.9	91.36	66.42	110-120	75.76	1419	90.2,90.2
130	55.56	46.53	44.69	82.46	66.99	89.46	76.72	56.15	120-130	60.59	1479	94.1,94.1
140	48.72	47.28	41.72	56.63	46.59	66.05	62.73	46.23	130-140	46.17	1525	97,97
150	40.48	21.33	19.10	47.60	28.58	40.72	44.44	34.89	140-150	27.99	1553	98.8,98.8
160	27.36	20.14	22.81	13.93	15.53	13.81	20.88	24.08	150-160	12.69	1566	99.6,99.6
170	15.62	12.63	16.25	22.25	8.028	12.56	13.22	17.65	160-170	4.770	1571	99.9,99.9
180	10.44	7.830	10.45	16.63	10.52	7.864	10.48	16.68	170-180	1.382	1572	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

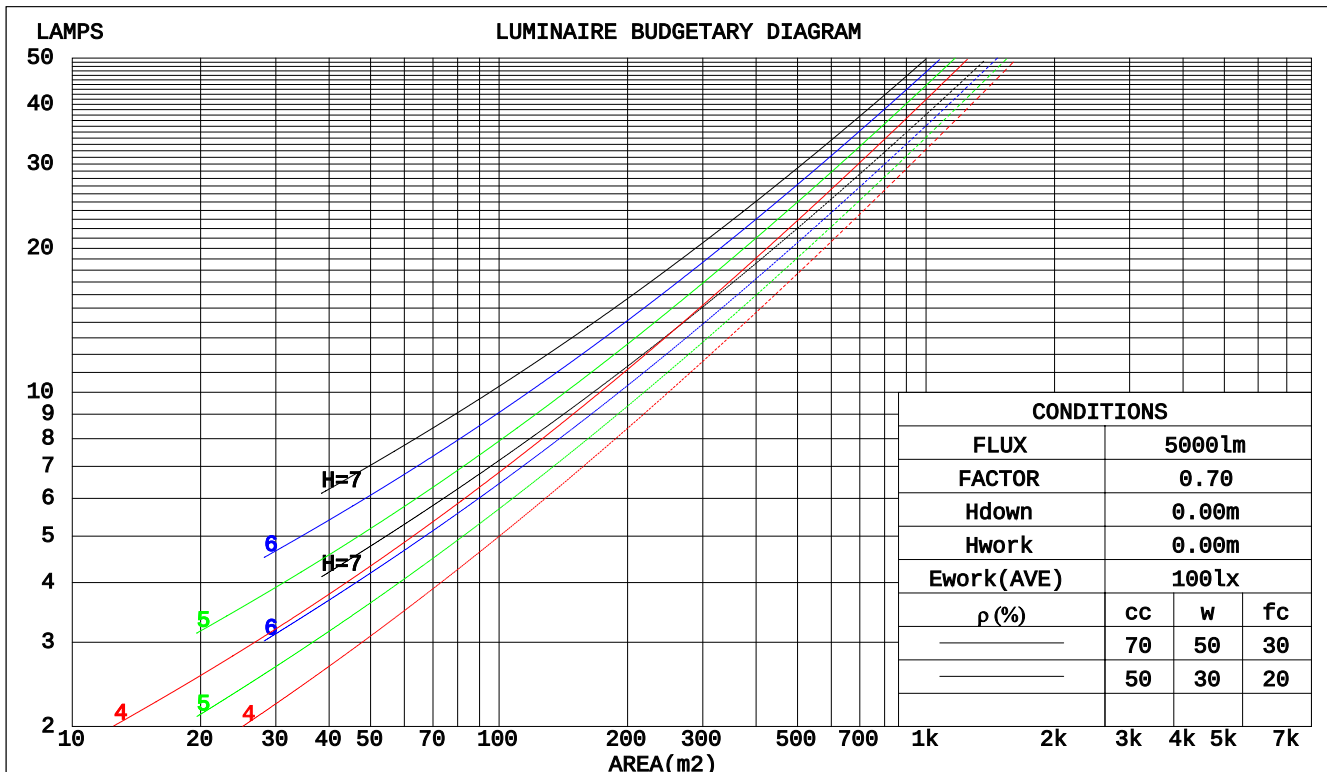
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-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	1.13	1.13	1.13	1.07	1.07	1.07	.96	.96	.96	.86	.86	.86	.77	.77	.77	.73
1.0	.93	.88	.83	.88	.83	.79	.79	.75	.71	.70	.67	.64	.62	.60	.58	.54
2.0	.79	.71	.65	.75	.68	.62	.67	.61	.56	.60	.55	.51	.53	.49	.46	.42
3.0	.69	.60	.52	.65	.57	.50	.58	.51	.46	.51	.46	.41	.45	.41	.37	.34
4.0	.60	.50	.43	.57	.48	.41	.51	.44	.38	.45	.39	.35	.40	.35	.31	.28
5.0	.53	.43	.36	.50	.42	.35	.45	.38	.32	.40	.34	.29	.35	.30	.26	.24
6.0	.47	.38	.31	.45	.36	.30	.40	.33	.28	.36	.30	.25	.32	.27	.23	.20
7.0	.42	.33	.27	.40	.32	.26	.36	.29	.24	.32	.26	.22	.29	.24	.20	.17
8.0	.38	.30	.24	.37	.28	.23	.33	.26	.21	.30	.24	.19	.26	.21	.18	.15
9.0	.35	.27	.21	.33	.26	.20	.30	.23	.19	.27	.21	.17	.24	.19	.16	.14
10.0	.32	.24	.19	.31	.23	.18	.28	.21	.17	.25	.19	.15	.22	.18	.14	.12



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm					
NAME: ASD-LWS12-14D24AC-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	.388	.220	.070	.372	.212	.067	.343	.197	.063	.316	.182	.059	.291	.169	.054		
2.0	.334	.183	.056	.320	.176	.054	.294	.163	.051	.269	.151	.047	.247	.140	.044		
3.0	.296	.158	.047	.284	.152	.046	.260	.141	.043	.237	.130	.040	.217	.120	.037		
4.0	.267	.139	.041	.255	.133	.039	.233	.124	.037	.212	.114	.034	.194	.105	.032		
5.0	.242	.123	.036	.231	.119	.035	.211	.110	.032	.193	.102	.030	.175	.094	.028		
6.0	.222	.111	.032	.212	.107	.031	.193	.099	.029	.176	.092	.027	.160	.084	.025		
7.0	.204	.101	.029	.195	.097	.028	.178	.090	.026	.162	.083	.024	.148	.077	.023		
8.0	.189	.092	.026	.181	.089	.025	.165	.083	.024	.151	.076	.022	.137	.070	.020		
9.0	.176	.085	.024	.169	.082	.023	.154	.076	.022	.141	.070	.020	.128	.065	.019		
10.0	.165	.079	.022	.158	.076	.021	.144	.071	.020	.132	.065	.019	.120	.060	.017		

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	.400	.400	.400	.342	.342	.342	.233	.233	.233	.134	.134	.134	.043	.043	.043	
1.0	.397	.367	.339	.339	.315	.292	.232	.216	.202	.134	.125	.117	.043	.040	.038	
2.0	.390	.344	.305	.334	.296	.264	.229	.205	.184	.132	.119	.108	.042	.039	.035	
3.0	.383	.328	.284	.329	.283	.246	.226	.197	.173	.130	.115	.102	.042	.037	.033	
4.0	.376	.316	.270	.322	.273	.235	.222	.190	.165	.128	.111	.098	.041	.036	.032	
5.0	.368	.306	.261	.316	.265	.227	.218	.185	.160	.126	.109	.095	.041	.035	.031	
6.0	.361	.299	.254	.310	.259	.221	.214	.181	.156	.124	.106	.093	.040	.035	.031	
7.0	.354	.292	.249	.304	.253	.217	.210	.178	.154	.122	.105	.092	.039	.034	.030	
8.0	.347	.287	.245	.299	.249	.214	.207	.175	.152	.120	.103	.090	.039	.034	.030	
9.0	.341	.282	.242	.294	.245	.211	.204	.172	.150	.119	.102	.089	.038	.033	.030	
10.0	.335	.278	.240	.289	.241	.209	.201	.170	.149	.117	.100	.089	.038	.033	.029	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm										
NAME:ASD-LWS12-14D24AC-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	16.0	17.3	16.6	17.9	18.6	15.3	16.6	15.9	17.2	18.0
3H	18.5	19.7	19.1	20.3	21.1	17.5	18.7	18.2	19.4	20.2
4H	19.8	20.9	20.4	21.6	22.4	18.7	19.8	19.4	20.5	21.3
6H	21.2	22.2	21.9	22.9	23.7	19.8	20.9	20.5	21.6	22.4
8H	22.1	23.1	22.8	23.8	24.6	20.4	21.4	21.1	22.1	23.0
12H	23.3	24.3	24.0	25.0	25.9	21.1	22.0	21.8	22.7	23.6
4H 2H	16.7	17.8	17.3	18.5	19.3	16.2	17.3	16.8	18.0	18.8
3H	19.4	20.3	20.1	21.1	21.9	18.6	19.5	19.3	20.3	21.1
4H	20.8	21.7	21.5	22.4	23.3	19.8	20.7	20.6	21.5	22.3
6H	22.4	23.2	23.2	24.0	24.9	21.1	21.9	21.9	22.7	23.6
8H	23.4	24.2	24.2	24.9	25.9	21.8	22.5	22.5	23.3	24.2
12H	24.8	25.5	25.6	26.3	27.2	22.5	23.2	23.3	24.0	24.9
8H 4H	21.2	22.0	22.0	22.7	23.7	20.4	21.2	21.2	21.9	22.9
6H	23.1	23.7	23.9	24.5	25.5	21.9	22.6	22.7	23.4	24.3
8H	24.3	24.9	25.1	25.7	26.7	22.7	23.3	23.6	24.1	25.1
12H	25.9	26.4	26.7	27.2	28.2	23.6	24.1	24.4	24.9	26.0
12H 4H	21.3	22.0	22.1	22.8	23.7	20.6	21.3	21.3	22.0	23.0
6H	23.3	23.8	24.1	24.6	25.6	22.2	22.8	23.0	23.6	24.6
8H	24.5	25.0	25.4	25.9	26.9	23.1	23.6	23.9	24.4	25.4
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 / - 0.2				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1572 lm Total Lamp Luminous Flux.(8log(F/F₀) = 1.6)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

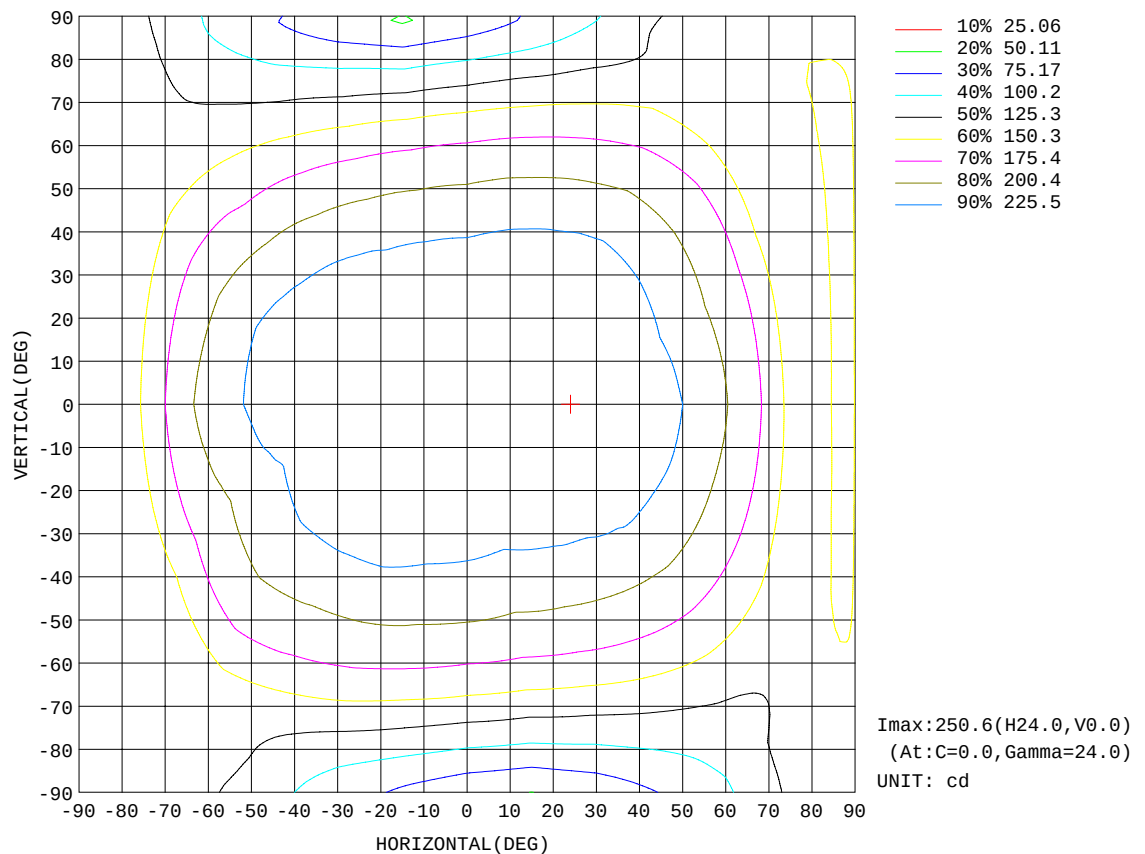
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	44	31	24	42	31	24	40	29	23	16
0.80	53	40	31	51	39	31	47	37	30	21
1.00	61	47	39	58	46	38	54	46	36	27
1.25	68	54	46	65	53	44	59	49	42	31
1.50	73	60	51	70	58	50	64	54	47	35
2.00	80	69	60	77	66	58	70	61	54	41
2.50	85	74	66	81	71	64	73	65	59	44
3.00	89	79	71	84	76	69	76	69	64	48
4.00	94	85	78	89	82	75	80	74	69	52
5.00	97	90	83	92	85	80	83	78	73	55
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:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME:ASD-LWS12-14D24AC-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

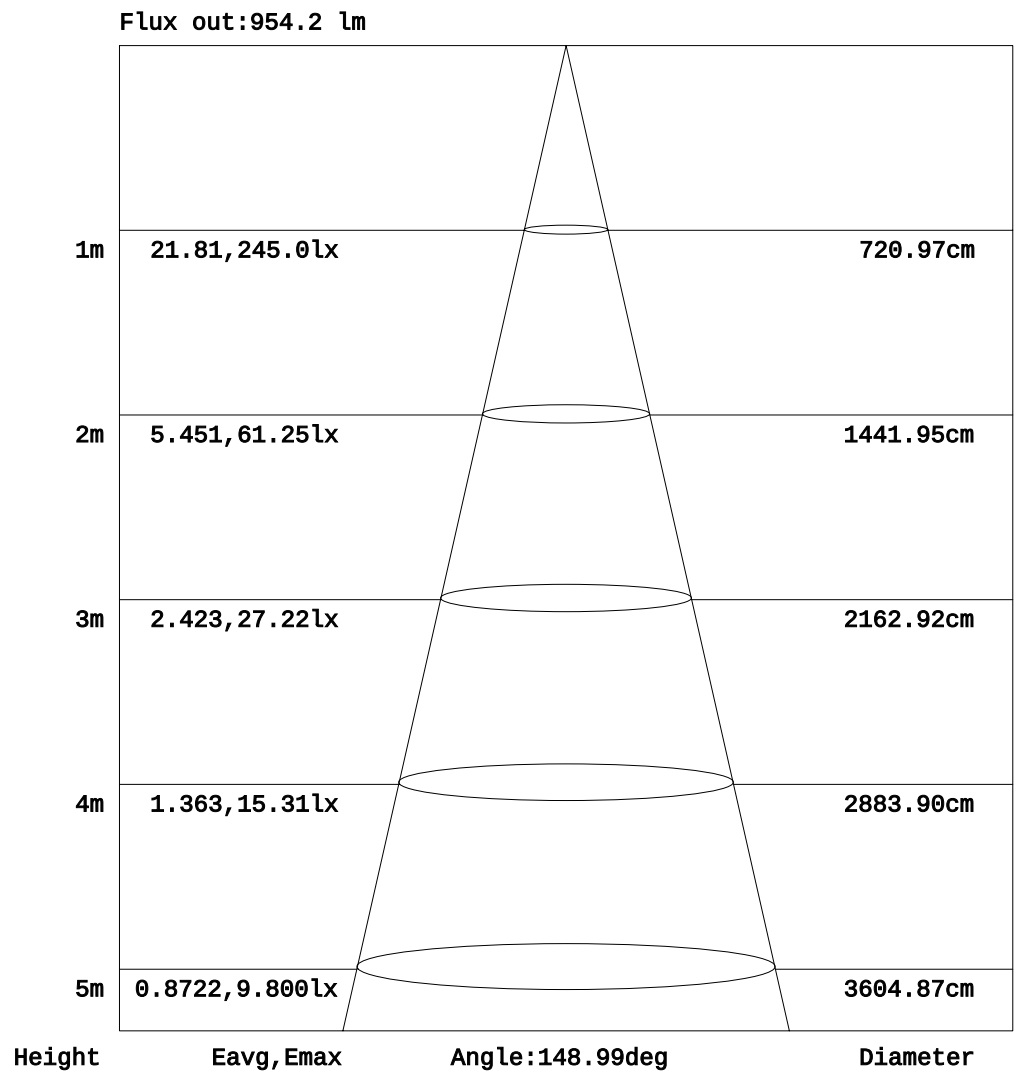


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



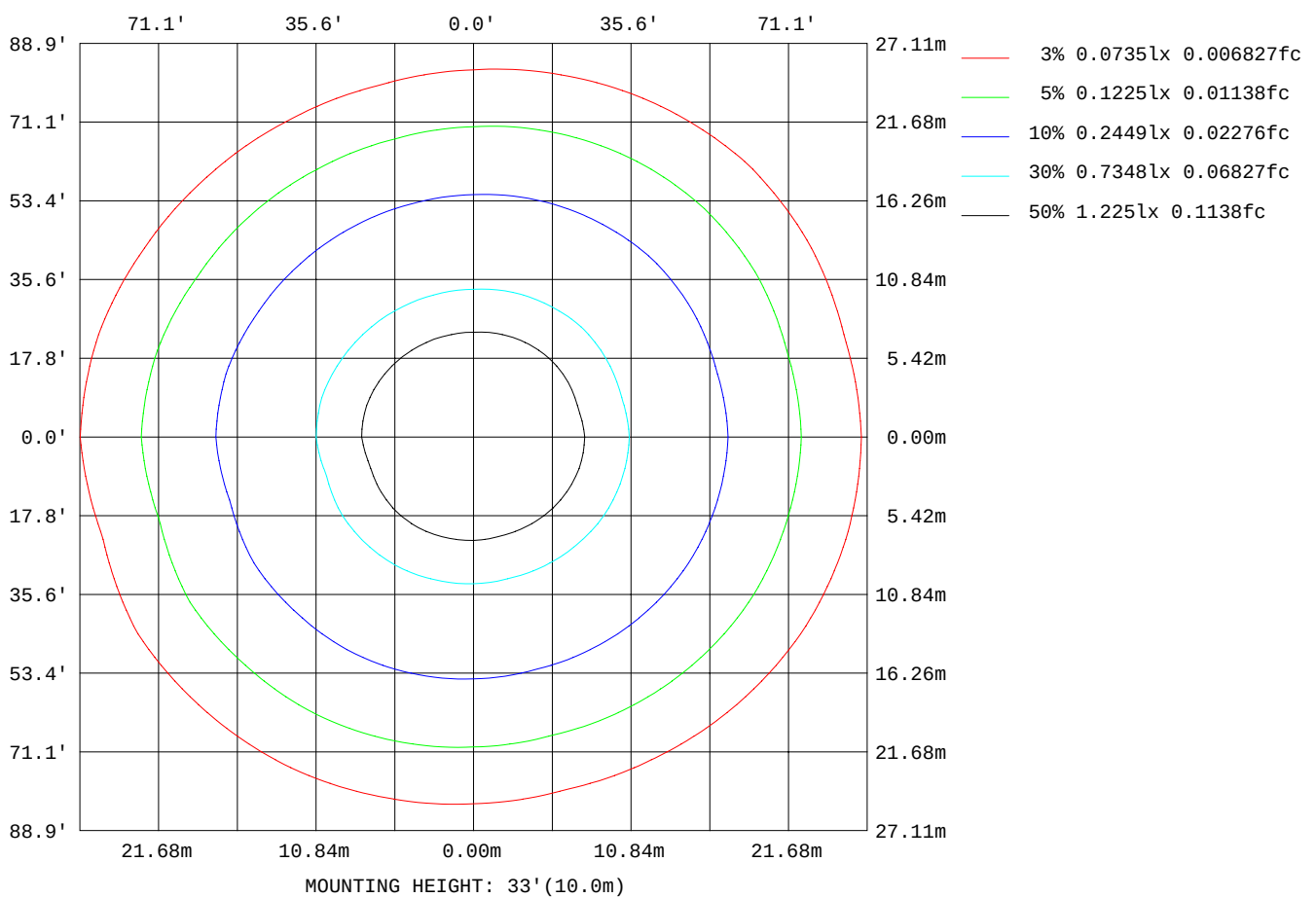
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-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: 2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

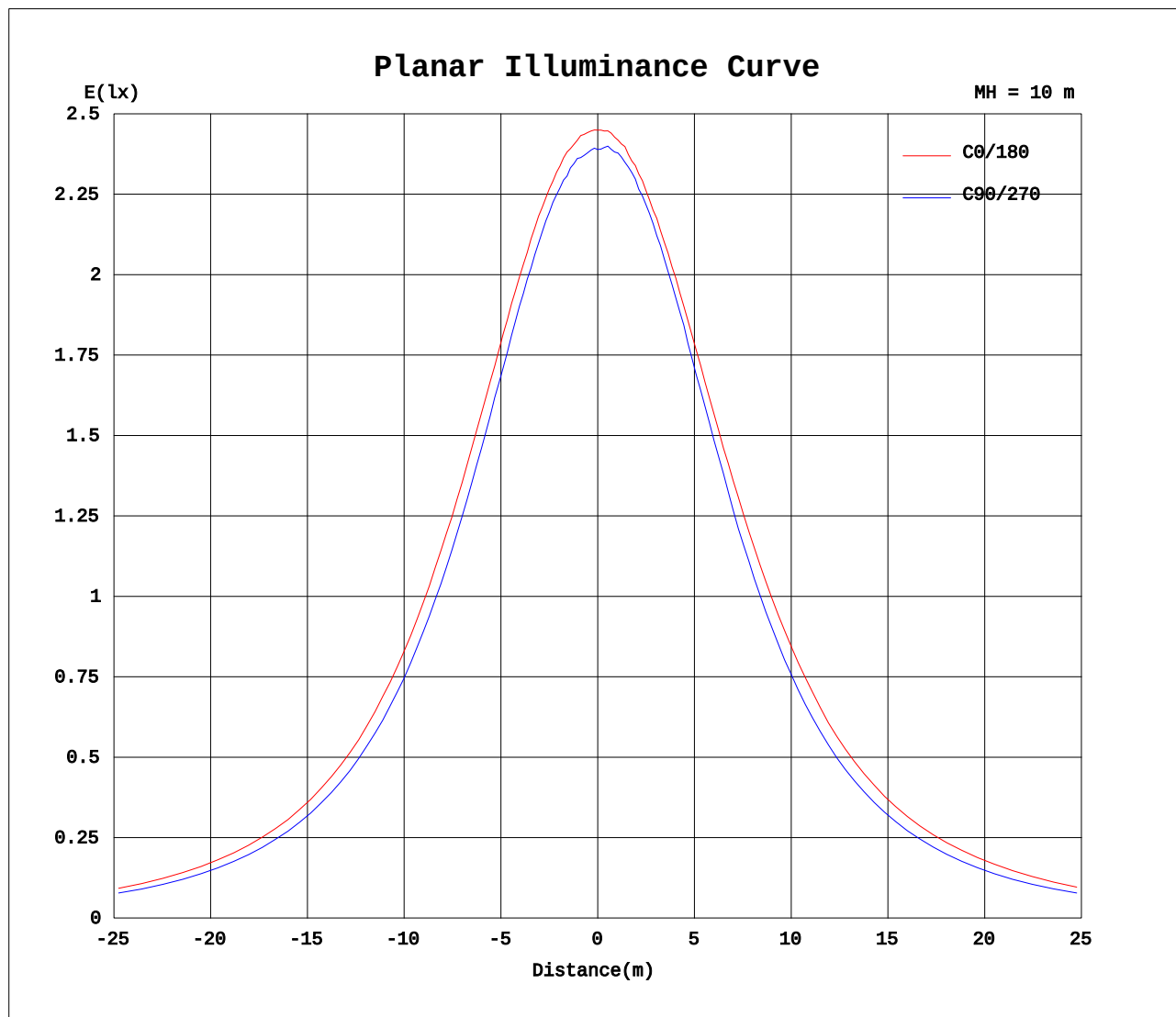
AvgL	cd/m2
L_0~180(65)av	4540
L_0~180(75)av	5729
L_0~180(85)av	17149
L_90~270(65)av	3788
L_90~270(75)av	4647
L_90~270(85)av	8823
L_45(65)av	4129
L_45(75)av	5331
L_45(85)av	12254

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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: 2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-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	245	244	242	241	241	240	239	239	239	238	238	238	245	244	242	241	241	240	239
5	246	245	243	242	240	240	239	239	238	238	238	238	246	244	244	243	242	242	241
10	247	246	244	242	242	241	240	240	239	239	239	240	246	246	246	245	244	243	243
15	249	247	245	243	241	240	241	240	241	240	239	240	248	248	248	246	245	244	243
20	249	248	245	242	240	239	239	240	241	240	240	240	249	249	249	247	245	243	242
25	250	248	244	241	237	236	236	238	240	240	239	240	249	250	248	246	243	241	240
30	249	246	242	238	234	231	233	236	237	239	239	240	249	249	247	242	240	237	237
35	246	244	240	234	228	225	227	229	234	236	237	237	247	248	243	238	234	231	231
40	243	240	234	226	221	218	220	223	228	231	233	233	244	243	238	231	225	223	223
45	235	232	227	218	213	209	211	214	220	223	227	225	239	237	229	221	216	213	214
50	226	222	217	209	203	199	202	205	210	215	219	216	229	228	218	211	204	202	203
55	214	210	205	197	192	187	190	194	199	203	209	206	219	217	205	197	191	189	191
60	202	197	191	185	178	174	176	182	188	191	199	196	208	203	191	183	177	175	177
65	188	182	177	170	163	158	160	166	173	179	189	183	196	188	174	166	160	157	160
70	168	166	161	152	144	138	141	147	156	163	170	163	175	170	157	148	140	137	141
75	144	146	141	132	123	118	120	127	136	143	149	142	153	150	140	129	120	115	121
80	135	132	122	112	102	95.7	99.0	108	117	127	139	138	142	138	123	108	97.6	90.9	98.9
85	154	132	108	92.9	80.2	72.3	77.6	88.6	100.0	117	138	144	145	134	108	88.2	74.2	65.1	76.2
90	150	130	96.1	76.0	60.3	49.8	58.1	71.6	86.3	107	129	132	144	128	97.0	77.6	61.1	49.5	61.3
95	127	121	97.8	78.2	63.6	54.5	63.5	76.2	91.3	107	119	115	131	123	104	90.3	76.4	67.5	76.2
100	112	117	104	84.8	71.2	69.1	74.3	77.3	95.9	107	108	84.7	118	121	112	103	90.9	82.7	90.6
105	94.2	116	97.3	67.4	54.0	53.2	58.7	52.4	87.3	101	86.4	67.8	103	119	120	115	102	93.5	102
110	82.3	105	80.1	41.6	34.9	41.1	49.8	54.2	58.3	76.2	73.9	62.0	82.0	105	119	119	105	96.5	103
115	70.7	74.5	57.8	59.1	55.7	65.9	80.6	71.5	66.2	50.3	52.2	47.8	56.4	85.4	114	114	99.9	92.9	97.8
120	50.7	52.7	67.9	57.1	60.0	70.7	74.0	68.4	81.4	65.5	47.3	41.3	46.7	76.3	111	105	94.8	89.6	91.4
125	45.9	59.2	62.3	52.3	49.8	55.2	54.4	59.3	80.8	78.8	67.0	62.2	60.2	78.0	105	97.4	88.2	84.0	83.9
130	55.6	59.5	54.4	46.5	42.6	44.0	44.7	37.8	81.3	82.5	77.1	74.5	67.0	78.3	95.0	89.5	81.7	78.3	76.7
135	55.2	53.5	55.8	39.7	30.3	30.2	33.8	42.3	61.6	76.2	78.6	77.3	61.7	68.5	82.7	79.8	75.4	72.2	69.7
140	48.7	48.5	49.0	47.3	33.9	33.6	41.7	46.4	47.4	56.6	73.6	68.2	46.6	51.8	68.5	66.1	67.6	65.6	62.7
145	46.7	45.9	35.0	36.0	38.5	39.1	35.2	33.5	37.3	44.6	51.0	49.4	34.0	36.0	48.3	53.1	57.4	57.6	54.5
150	40.5	38.6	32.9	21.3	24.0	25.6	19.1	13.2	25.7	47.6	46.3	41.6	28.6	27.6	30.7	40.7	47.7	48.0	44.4
155	36.0	37.0	25.7	22.1	14.0	10.2	14.4	17.8	17.0	29.2	39.9	42.1	27.0	18.4	18.7	24.0	29.9	31.8	31.0
160	27.4	26.0	22.6	20.1	18.7	20.7	22.8	19.3	13.5	13.9	18.2	21.8	15.5	10.8	13.4	13.8	17.8	20.1	20.9
165	19.4	19.2	18.0	15.1	15.5	20.0	19.9	13.0	14.8	14.9	16.3	11.8	8.81	7.78	9.06	11.8	11.8	13.0	14.7
170	15.6	16.3	15.1	12.6	14.0	15.3	16.2	17.8	20.2	22.2	22.2	15.6	8.03	9.22	10.8	12.6	14.7	14.0	13.2
175	12.2	14.3	16.9	15.7	12.6	14.4	16.9	19.1	19.0	19.2	19.3	16.6	7.65	8.77	9.43	9.41	10.0	11.0	11.1
180	10.4	10.8	9.71	7.83	8.74	9.07	10.4	13.9	15.8	16.6	17.5	17.8	10.5	10.8	9.82	7.86	8.78	9.10	10.5

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-26

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:0.2030A P:23.95W PF:0.9814 Lamp Flux:1572.31x1 lm		
NAME: ASD-LWS12-14D24AC-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	239	239	238	238	238													
5	241	240	239	239	238													
10	242	242	242	240	240													
15	243	243	243	242	241													
20	243	244	244	243	242													
25	241	243	245	244	242													
30	239	241	244	244	241													
35	235	238	241	241	239													
40	228	234	237	238	235													
45	220	224	230	230	228													
50	209	215	222	221	219													
55	196	203	210	211	208													
60	183	190	197	198	197													
65	168	175	182	185	183													
70	149	158	167	167	162													
75	130	141	149	146	138													
80	111	124	134	136	130													
85	91.5	110	129	142	140													
90	78.0	98.4	125	144	144													
95	89.4	102	118	126	121													
100	102	109	116	110	84.9													
105	112	116	116	91.0	64.0													
110	114	110	107	84.0	63.3													
115	105	95.7	88.2	74.6	59.8													
120	93.3	81.5	66.4	55.1	46.9													
125	82.1	71.4	55.8	42.7	40.1													
130	72.5	64.7	56.2	49.2	49.3													
135	65.2	58.5	51.7	52.2	53.1													
140	57.6	51.5	46.2	47.7	47.3													
145	49.0	42.0	41.3	45.2	46.5													
150	37.3	34.0	34.9	41.4	43.3													
155	27.5	27.5	30.7	35.0	38.5													
160	21.5	21.7	24.1	29.3	32.2													
165	16.9	18.0	20.1	22.7	25.0													
170	13.3	15.9	17.7	19.6	21.9													
175	11.4	12.1	13.6	15.1	16.7													
180	13.9	15.9	16.7	17.4	17.8													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-26

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: