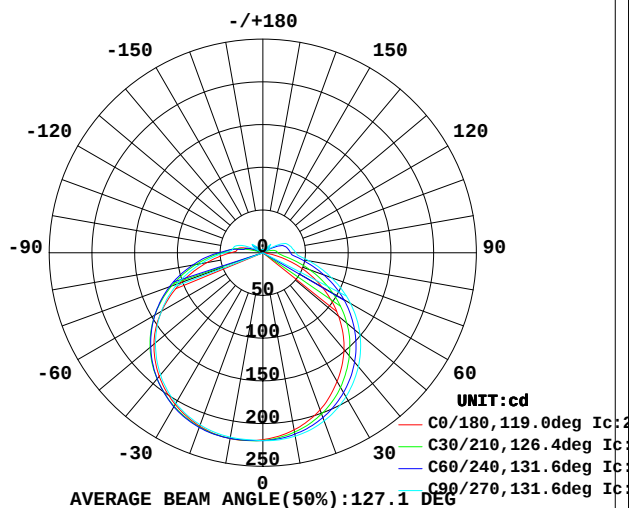


LUMINAIRE PHOTOMETRIC TEST REPORT

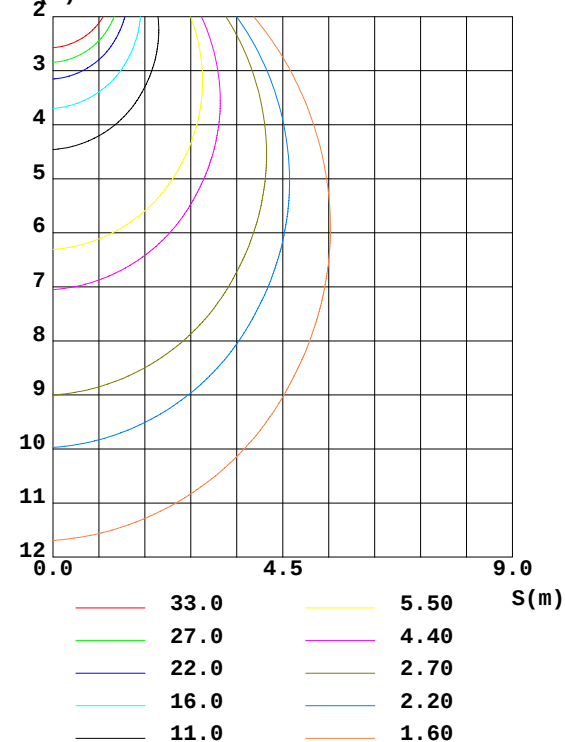
Test:U:120.2V I:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.21 lm/W			
MODEL	ASD-0LWS23-8D12SM-RGBW-BK	I _{max} (cd)	221.7	S/MH(C0/180)	1.40
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	839.32	η UP, DN(C0-180)	4.4, 43.5
NOMINAL FLUX(lm)	839.32	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.3, 47.8
LAMPS INSIDE	1	η up(%)	8.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	91.3	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:2025-04-29

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	210.5	214.6	218.0	221.0	220.8	220.8	219.1	215.3	0- 10	20.88	20.88	2.49, 2.49
20	195.8	203.5	209.5	215.0	216.1	217.6	214.4	205.5	10- 20	60.60	81.48	9.71, 9.71
30	173.8	186.4	194.6	202.8	205.0	208.2	203.5	189.9	20- 30	93.85	175.3	20.9, 20.9
40	147.8	163.0	174.0	185.1	188.8	193.1	186.4	168.1	30- 40	116.7	292.1	34.8, 34.8
50	115.9	135.7	148.5	162.5	166.4	172.9	164.1	142.1	40- 50	126.7	418.8	49.9, 49.9
60	79.95	103.7	118.4	135.3	137.0	147.4	137.3	110.9	50- 60	122.4	541.1	64.5, 64.5
70	42.11	69.11	85.61	101.9	101.4	116.6	106.4	76.01	60- 70	103.8	644.9	76.8, 76.8
80	7.940	38.91	54.80	67.29	66.55	82.39	73.60	41.55	70- 80	74.76	719.7	85.7, 85.7
90	2.511	26.29	38.63	43.70	37.50	50.79	44.66	21.19	80- 90	46.29	766.0	91.3, 91.3
100	2.530	23.49	34.51	28.62	29.27	24.59	34.93	15.64	90-100	31.33	797.3	95, 95
110	2.703	16.09	30.19	6.860	10.05	4.734	24.45	6.760	100-110	18.87	816.2	97.2, 97.2
120	2.904	3.419	14.58	3.939	8.992	11.19	4.109	5.021	110-120	8.857	825.0	98.3, 98.3
130	3.058	7.754	3.876	6.237	3.420	5.002	14.56	3.313	120-130	5.201	830.2	98.9, 98.9
140	3.073	3.111	10.13	3.137	3.371	3.127	3.730	3.166	130-140	4.117	834.3	99.4, 99.4
150	3.190	2.989	3.112	3.104	3.030	3.823	3.333	3.423	140-150	2.169	836.5	99.7, 99.7
160	3.050	3.361	3.685	3.181	3.027	3.143	3.796	3.547	150-160	1.548	838.1	99.9, 99.9
170	3.201	3.502	3.350	3.339	3.097	3.143	3.258	3.540	160-170	0.9350	839.0	100, 100
180	3.212	3.378	3.262	3.408	3.189	3.374	3.258	3.389	170-180	0.3180	839.3	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

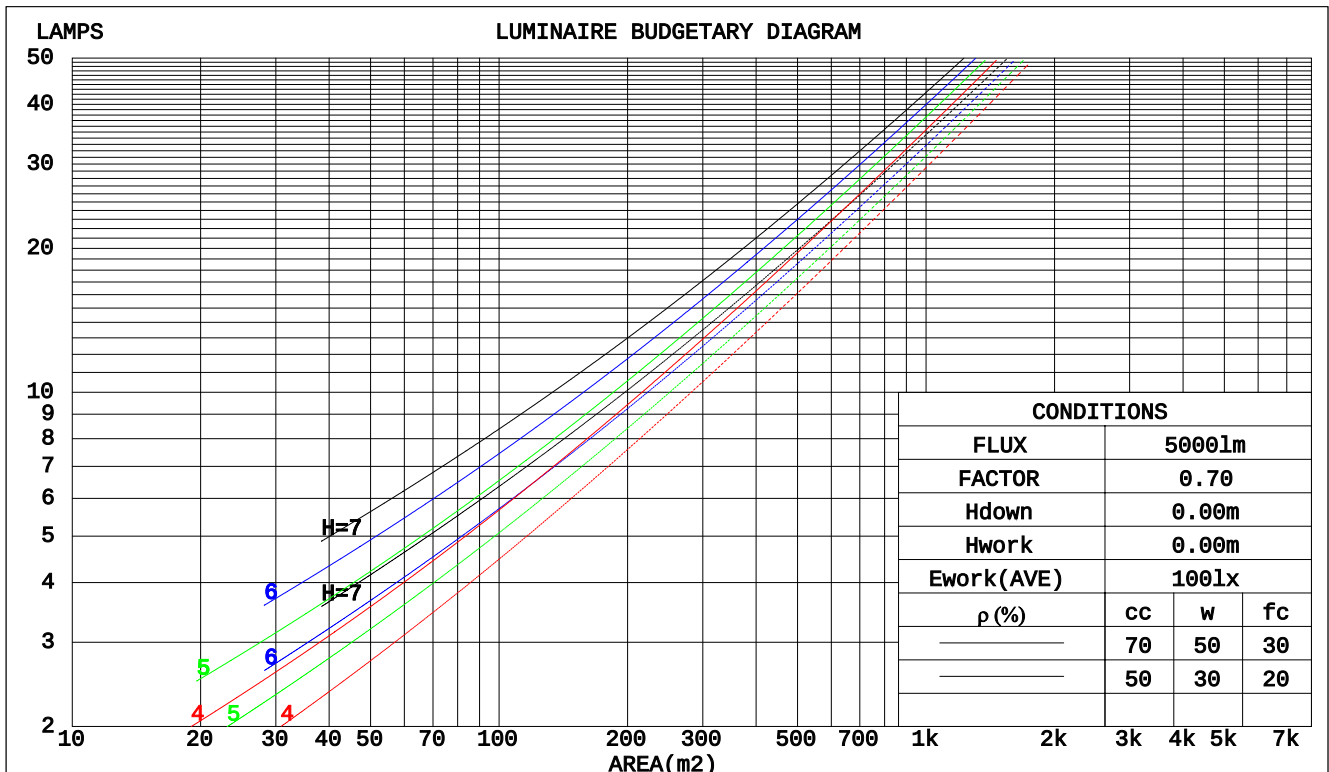
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.99	.94	.90	.96	.91	.87	.90	.86	.83	.85	.82	.79	.79	.77	.75	.72
2.0	.85	.78	.71	.82	.76	.70	.77	.72	.67	.73	.68	.64	.68	.65	.61	.58
3.0	.74	.65	.58	.72	.64	.57	.68	.61	.55	.64	.58	.53	.60	.55	.51	.48
4.0	.65	.56	.49	.63	.55	.48	.60	.52	.46	.56	.50	.45	.53	.48	.43	.41
5.0	.58	.48	.41	.56	.47	.41	.53	.45	.40	.50	.44	.38	.47	.42	.37	.35
6.0	.52	.43	.36	.50	.42	.35	.48	.40	.34	.45	.38	.33	.43	.37	.32	.30
7.0	.47	.38	.31	.46	.37	.31	.43	.36	.30	.41	.34	.29	.39	.33	.29	.26
8.0	.43	.34	.28	.42	.33	.28	.39	.32	.27	.38	.31	.26	.36	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.35	.28	.23	.33	.27	.23	.21
10.0	.36	.28	.22	.35	.27	.22	.33	.27	.22	.32	.26	.21	.31	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm								
NAME:ASD-0LWS23-8D12SM-RGBW-BK				TYPE:LED			WEIGHT:	
SPEC.:6500K				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 Coeffcients(WEC)										
0.0																	
1.0	.362	.206	.065	.352	.201	.064	.333	.191	.061	.316	.182	.059	.301	.174	.056		
2.0	.322	.176	.054	.313	.173	.053	.297	.165	.051	.281	.158	.049	.267	.151	.048		
3.0	.290	.154	.046	.282	.151	.045	.267	.145	.044	.254	.139	.043	.241	.133	.041		
4.0	.263	.137	.040	.256	.134	.040	.243	.129	.038	.230	.124	.037	.219	.119	.036		
5.0	.241	.123	.036	.234	.120	.035	.222	.116	.034	.211	.111	.033	.201	.107	.032		
6.0	.221	.111	.032	.216	.109	.031	.205	.105	.031	.195	.101	.030	.185	.097	.029		
7.0	.205	.101	.029	.200	.099	.028	.190	.096	.028	.180	.092	.027	.172	.089	.026		
8.0	.190	.093	.026	.186	.091	.026	.177	.088	.025	.168	.085	.025	.160	.082	.024		
9.0	.178	.086	.024	.173	.084	.024	.165	.082	.023	.157	.079	.023	.150	.076	.022		
10.0	.166	.080	.022	.163	.078	.022	.155	.076	.021	.148	.073	.021	.141	.071	.020		

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	.257	.257	.257	.220	.220	.220	.150	.150	.150	.086	.086	.086	.028	.028	.028	
1.0	.251	.223	.197	.215	.191	.170	.147	.132	.117	.085	.076	.068	.027	.025	.022	
2.0	.244	.199	.162	.209	.172	.140	.143	.119	.098	.083	.069	.057	.026	.022	.019	
3.0	.236	.182	.139	.203	.157	.121	.139	.109	.085	.080	.064	.050	.026	.021	.016	
4.0	.229	.170	.124	.196	.146	.108	.135	.102	.076	.078	.060	.045	.025	.019	.015	
5.0	.221	.159	.114	.190	.138	.099	.131	.096	.070	.076	.057	.042	.024	.018	.014	
6.0	.214	.151	.107	.184	.131	.093	.127	.092	.066	.073	.054	.039	.024	.018	.013	
7.0	.206	.145	.101	.178	.125	.088	.123	.088	.063	.071	.052	.037	.023	.017	.012	
8.0	.200	.139	.097	.172	.121	.085	.119	.085	.060	.069	.050	.036	.022	.016	.012	
9.0	.194	.134	.094	.167	.116	.082	.116	.082	.058	.067	.048	.035	.022	.016	.011	
10.0	.188	.130	.091	.162	.113	.080	.112	.079	.057	.065	.047	.034	.021	.015	.011	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm											
NAME:ASD-0LWS23-8D12SM-RGBW-BK					TYPE:LED			WEIGHT:			
SPEC.:6500K					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		13.6	15.0	13.9	15.4	15.8	15.0	16.5	15.4	16.8	17.2
	3H	14.7	16.0	15.1	16.4	16.9	17.0	18.3	17.4	18.7	19.1
	4H	15.0	16.3	15.4	16.7	17.1	17.9	19.2	18.4	19.6	20.1
	6H	15.0	16.3	15.5	16.7	17.2	18.9	20.1	19.3	20.5	21.0
	8H	15.0	16.2	15.5	16.6	17.1	19.4	20.5	19.8	21.0	21.5
	12H	15.0	16.1	15.4	16.5	17.0	19.9	21.1	20.4	21.5	22.0
4H	2H	14.4	15.7	14.8	16.1	16.5	15.5	16.8	15.9	17.2	17.6
	3H	15.7	16.9	16.2	17.3	17.8	17.6	18.8	18.1	19.2	19.7
	4H	16.2	17.2	16.7	17.7	18.2	18.8	19.8	19.3	20.3	20.8
	6H	16.3	17.3	16.9	17.8	18.3	19.9	20.8	20.4	21.4	21.9
	8H	16.3	17.2	16.9	17.7	18.3	20.5	21.4	21.1	21.9	22.5
	12H	16.3	17.1	16.9	17.7	18.3	21.2	22.0	21.8	22.5	23.1
8H	4H	16.8	17.6	17.3	18.2	18.7	19.0	19.8	19.5	20.4	20.9
	6H	17.2	17.9	17.7	18.5	19.1	20.4	21.1	20.9	21.7	22.3
	8H	17.3	17.9	17.9	18.5	19.2	21.1	21.8	21.7	22.4	23.0
	12H	17.4	17.9	18.0	18.5	19.2	22.1	22.6	22.7	23.2	23.9
12H	4H	16.9	17.7	17.5	18.2	18.8	19.0	19.8	19.5	20.3	20.9
	6H	17.5	18.1	18.1	18.7	19.3	20.4	21.1	21.0	21.7	22.3
	8H	17.7	18.3	18.3	18.9	19.5	21.3	21.9	21.9	22.5	23.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 839.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.6)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

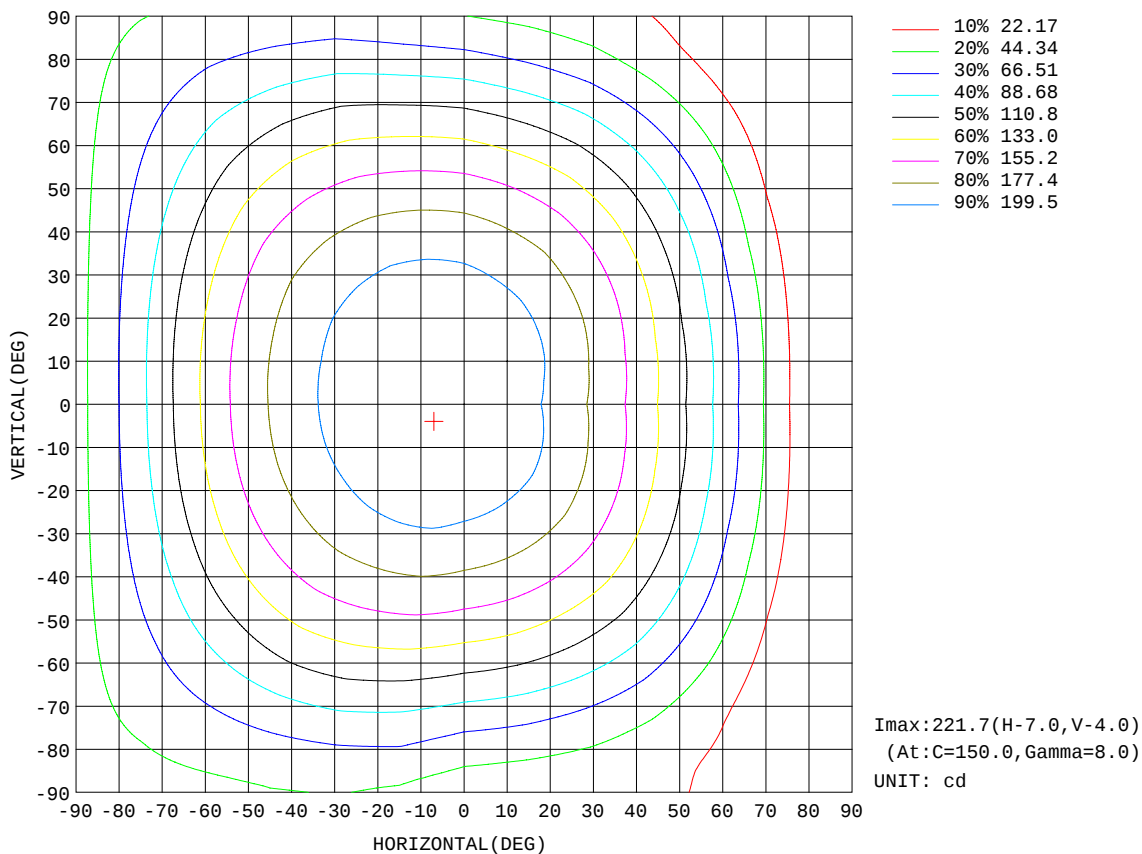
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	39	32	51	39	32	49	38	32	25
0.80	61	49	41	60	48	40	58	47	40	32
1.00	69	57	49	68	56	48	65	57	48	40
1.25	76	64	56	74	63	56	71	61	54	46
1.50	81	70	62	79	69	61	75	66	60	51
2.00	88	78	71	86	77	70	82	74	68	58
2.50	93	83	76	90	82	75	85	78	72	62
3.00	96	88	81	94	86	80	88	82	77	66
4.00	101	94	88	98	91	86	92	87	82	71
5.00	104	97	92	100	95	90	94	90	86	74
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:2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

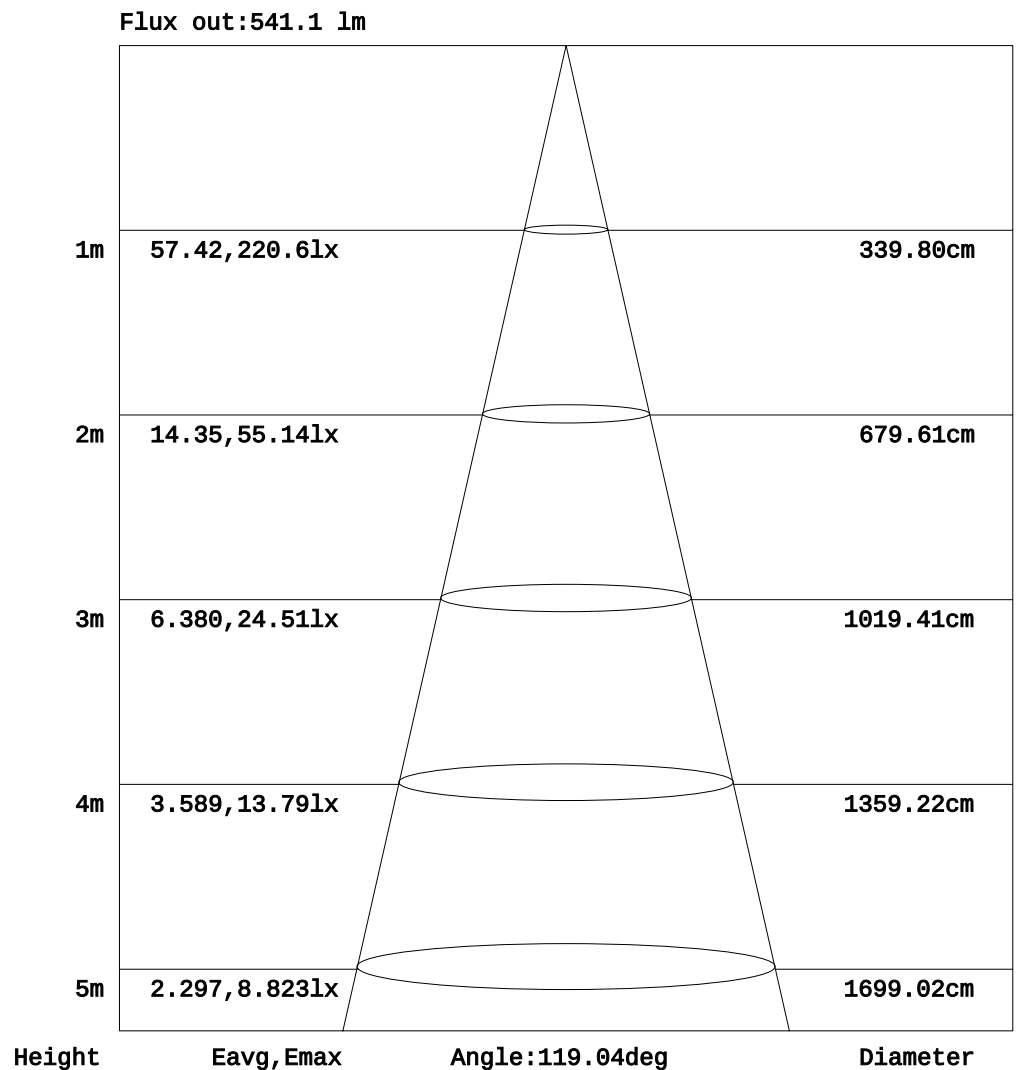


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



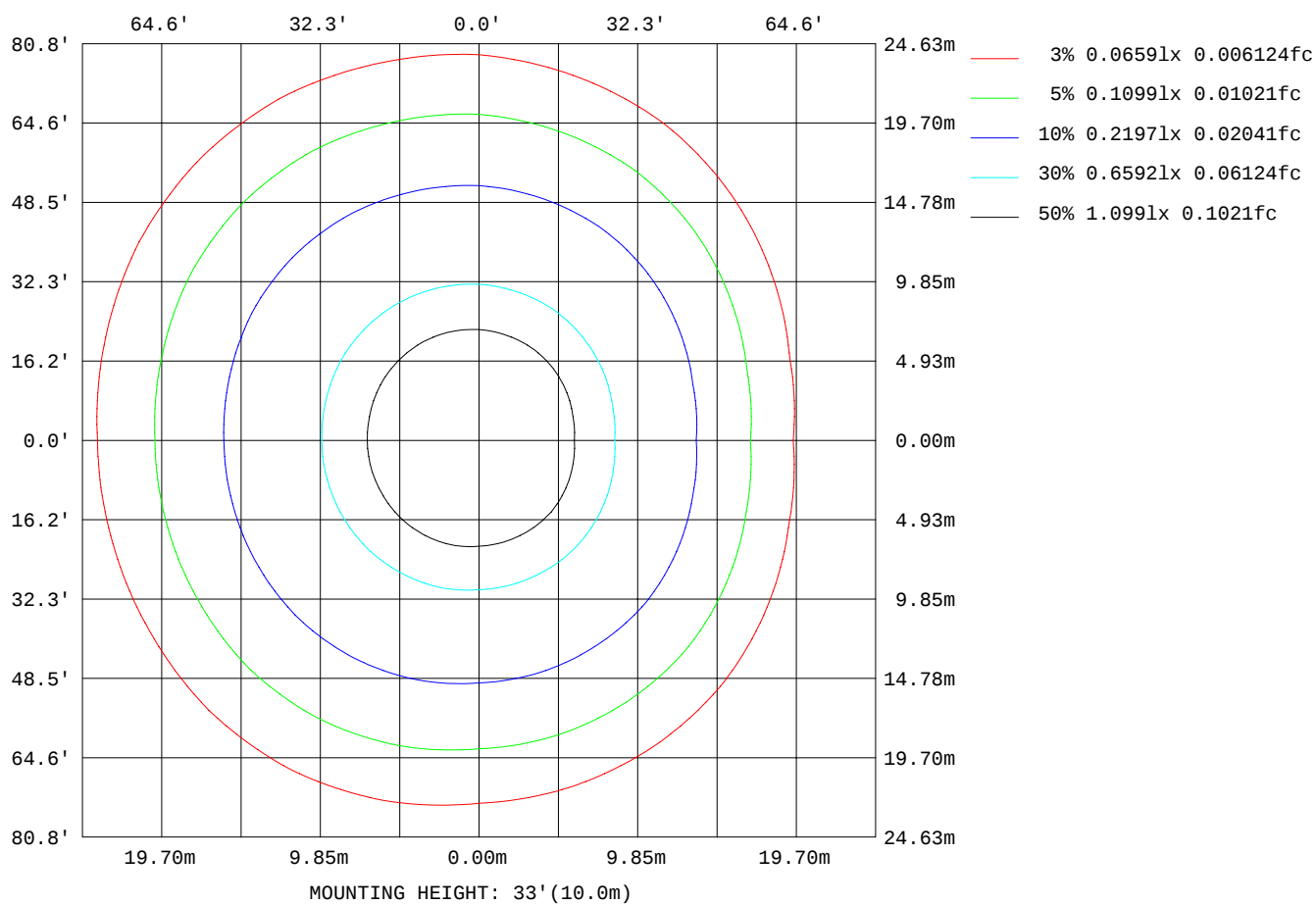
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	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: 2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-0LWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

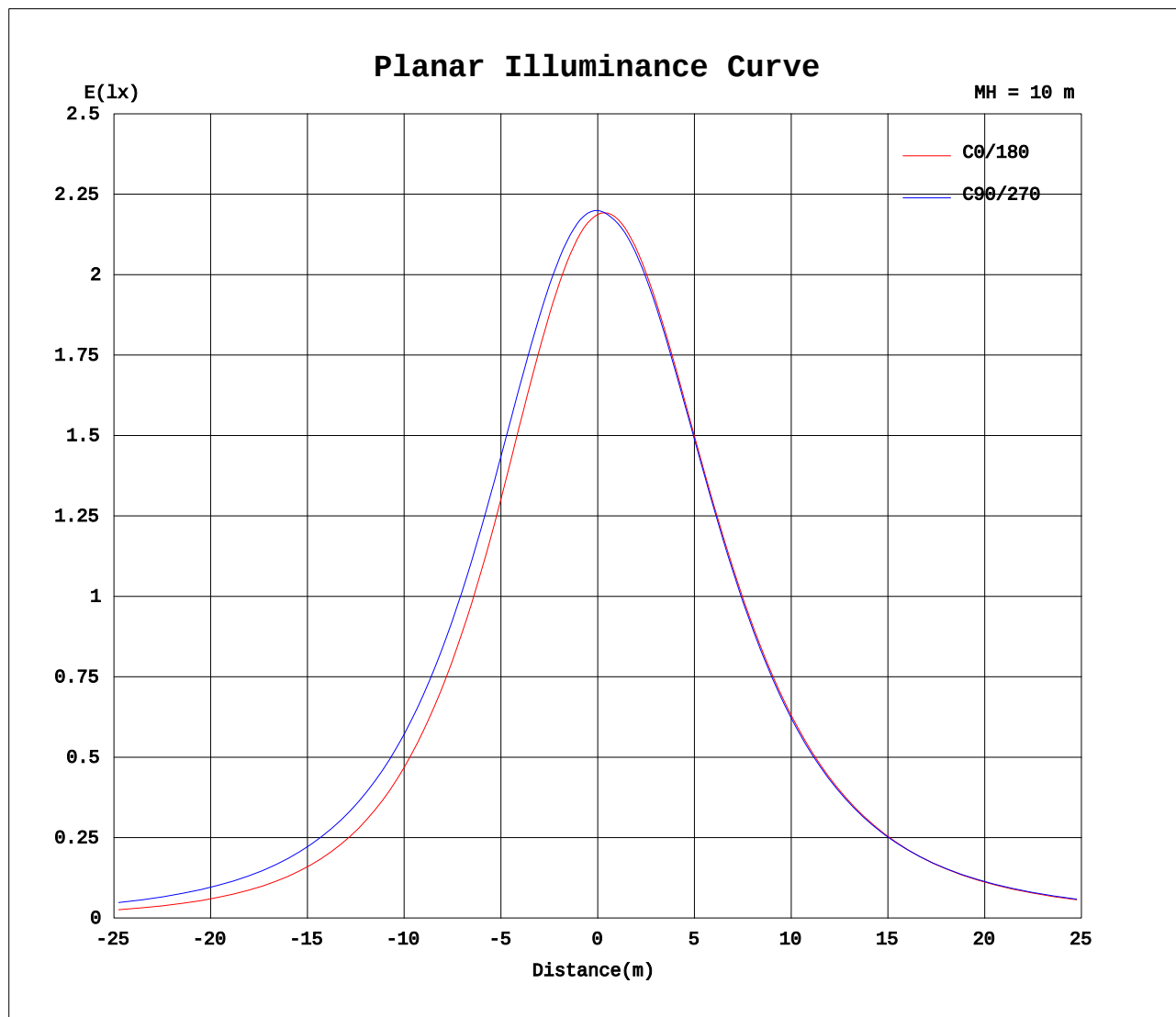
AvgL	cd/m2
L_0~180(65)av	2138
L_0~180(75)av	2075
L_0~180(85)av	3060
L_90~270(65)av	2657
L_90~270(75)av	3081
L_90~270(85)av	5770
L_45(65)av	2557
L_45(75)av	2844
L_45(85)av	5047

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
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γ Range: 0 - 180DEG
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 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: 2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm																		
NAME:ASD-OLWS23-8D12SM-RGBW-BK									TYPE:LED					WEIGHT:				
SPEC.:6500K									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	219	219	220	220	220	220	220	220	220	220	220	220	219	219	220	220	220	220	220
5	215	216	217	218	219	219	220	220	221	221	222	221	221	221	221	220	220	220	219
10	210	212	213	215	216	217	218	219	220	221	221	221	221	221	221	221	221	220	219
15	204	206	208	210	211	213	215	217	218	219	219	220	219	219	220	220	220	219	218
20	196	198	201	204	205	207	210	213	214	215	216	216	216	216	217	218	218	216	214
25	186	189	192	196	198	200	203	206	208	210	210	211	211	211	213	214	214	212	210
30	174	177	182	186	189	192	195	199	201	203	203	204	205	206	208	208	208	206	203
35	162	165	170	176	179	182	185	190	192	194	195	197	198	199	201	201	201	199	196
40	148	152	158	163	167	171	174	179	182	185	186	188	189	190	193	193	192	190	186
45	132	137	144	150	154	158	162	168	171	174	176	177	178	180	183	184	183	179	176
50	116	121	129	136	140	145	148	155	159	163	164	165	166	169	172	173	171	168	164
55	98.2	104	112	120	125	130	134	141	146	149	151	152	153	156	160	161	159	155	151
60	79.9	85.4	94.5	104	110	115	118	126	132	135	135	136	137	141	146	147	146	141	137
65	61.2	66.8	76.8	86.4	93.1	98.3	102	111	117	120	119	118	120	125	130	133	132	127	122
70	42.1	47.9	58.7	69.1	76.0	81.7	85.6	94.6	100	102	101	100	101	107	114	117	116	111	106
75	23.8	29.9	41.5	52.6	60.0	65.8	69.5	79.6	83.9	84.0	82.9	82.3	83.6	89.9	96.6	99.5	100	94.5	90.0
80	7.94	14.3	27.3	38.9	46.3	51.4	54.8	65.8	68.1	67.3	65.9	65.3	66.5	73.0	79.5	82.4	83.5	78.1	73.6
85	2.55	8.64	20.1	29.4	35.3	39.4	42.4	50.8	51.9	52.2	50.9	49.8	50.8	57.4	63.1	66.2	68.0	62.9	58.2
90	2.51	7.49	17.7	26.3	32.6	36.5	38.6	43.1	44.8	43.7	40.2	37.3	37.5	43.7	48.4	50.8	51.7	48.7	44.7
95	2.48	6.59	16.5	25.0	31.2	34.9	36.6	39.8	41.2	40.5	37.0	32.3	30.9	35.9	39.1	40.4	39.4	37.7	36.4
100	2.53	5.58	14.8	23.5	29.6	33.3	34.5	23.1	26.4	28.6	29.4	29.6	29.3	30.7	27.7	24.6	22.9	27.1	34.9
105	2.60	4.08	10.9	21.1	27.6	31.2	32.6	23.1	20.2	12.5	13.0	19.2	22.4	18.5	9.98	10.7	20.1	29.6	32.0
110	2.70	2.76	6.68	16.1	24.8	29.1	30.2	24.9	15.8	6.86	3.72	6.33	10.0	6.44	5.37	4.73	14.1	22.8	24.5
115	2.76	2.76	4.67	8.06	17.5	24.2	25.2	21.1	10.6	3.05	8.41	6.90	6.62	7.77	9.55	5.25	3.91	9.14	10.7
120	2.90	2.79	4.96	3.42	6.92	13.6	14.6	11.1	3.06	3.94	4.08	6.10	8.99	6.99	5.65	11.2	7.40	4.90	4.11
125	3.03	2.80	3.97	5.16	2.91	2.98	3.24	3.13	3.32	8.80	2.99	3.01	3.77	3.73	3.53	9.28	14.8	12.9	11.7
130	3.06	2.82	3.04	7.75	7.09	4.23	3.88	5.00	10.2	6.24	3.01	2.96	3.42	3.59	3.38	5.00	11.0	14.3	14.6
135	3.13	2.97	3.07	4.57	10.2	11.8	11.9	13.2	9.88	3.38	3.03	2.91	3.29	3.27	3.62	3.56	5.26	7.84	8.31
140	3.07	3.15	3.29	3.11	4.95	8.78	10.1	9.02	4.75	3.14	3.20	3.19	3.37	3.55	3.45	3.13	3.58	3.71	3.73
145	3.30	3.33	3.31	2.98	2.95	3.03	3.88	3.24	3.02	2.95	3.15	3.19	3.22	3.36	3.07	3.12	3.19	3.21	3.20
150	3.19	3.16	3.01	2.99	3.06	3.10	3.11	3.14	3.37	3.10	2.92	3.00	3.03	3.29	3.05	3.82	3.62	3.73	3.33
155	3.18	3.12	3.02	3.27	3.53	3.13	3.65	3.29	3.59	3.42	2.98	3.29	3.01	3.39	3.25	3.57	3.64	3.85	3.96
160	3.05	3.19	3.13	3.36	3.55	3.17	3.69	3.55	3.40	3.18	3.07	3.42	3.03	3.45	3.28	3.14	3.18	3.20	3.80
165	3.26	3.50	3.47	3.14	3.15	3.19	3.22	3.28	3.25	3.22	3.30	3.27	3.25	3.18	3.14	3.14	3.23	3.24	3.23
170	3.20	3.52	3.49	3.50	3.49	3.57	3.35	3.37	3.38	3.34	3.12	3.12	3.10	3.10	3.15	3.14	3.21	3.25	3.26
175	3.42	3.50	3.59	3.65	3.48	3.46	3.55	3.55	3.38	3.28	3.14	3.17	3.24	3.19	3.17	3.17	3.23	3.25	3.31
180	3.21	3.21	3.35	3.38	3.40	3.34	3.26	3.31	3.38	3.41	3.38	3.38	3.19	3.22	3.32	3.37	3.39	3.37	3.26

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-29

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:0.2167A P:13.71W PF:0.5267 Lamp Flux:839.32x1 lm		
NAME:ASD-OLWS23-8D12SM-RGBW-BK	TYPE:LED	WEIGHT:
SPEC.:6500K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	220	220	220	220	220													
5	219	218	218	217	217													
10	218	217	215	214	212													
15	215	213	211	209	206													
20	211	209	206	202	198													
25	206	203	198	194	189													
30	199	195	190	184	177													
35	191	186	179	172	165													
40	181	176	168	160	152													
45	170	164	156	147	137													
50	158	151	142	132	121													
55	144	137	127	115	104													
60	130	122	111	98.1	86.0													
65	114	106	93.7	80.2	67.3													
70	98.1	88.9	76.0	61.9	48.1													
75	81.4	72.0	58.3	43.8	29.3													
80	65.2	55.6	41.6	26.8	12.3													
85	51.0	41.8	28.2	13.8	3.28													
90	38.8	31.5	21.2	11.0	3.17													
95	32.9	26.8	18.7	9.86	2.94													
100	31.4	24.8	15.6	8.45	2.91													
105	26.9	19.1	10.1	5.89	2.86													
110	17.4	9.59	6.76	3.50	2.89													
115	4.61	4.30	5.96	3.02	2.93													
120	5.81	7.51	5.02	3.24	3.03													
125	13.0	7.92	3.21	3.49	3.16													
130	9.56	4.15	3.31	3.49	3.26													
135	4.28	3.25	3.17	3.35	3.34													
140	3.87	3.13	3.17	3.32	3.21													
145	3.14	3.55	3.44	3.38	3.37													
150	3.29	3.28	3.42	3.16	3.31													
155	4.14	3.27	3.26	3.44	3.21													
160	3.15	3.19	3.55	3.40	3.14													
165	3.62	3.75	3.85	3.24	3.25													
170	3.25	3.73	3.54	3.17	3.50													
175	3.37	3.25	3.19	3.37	3.53													
180	3.31	3.38	3.39	3.39	3.41													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-29

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: