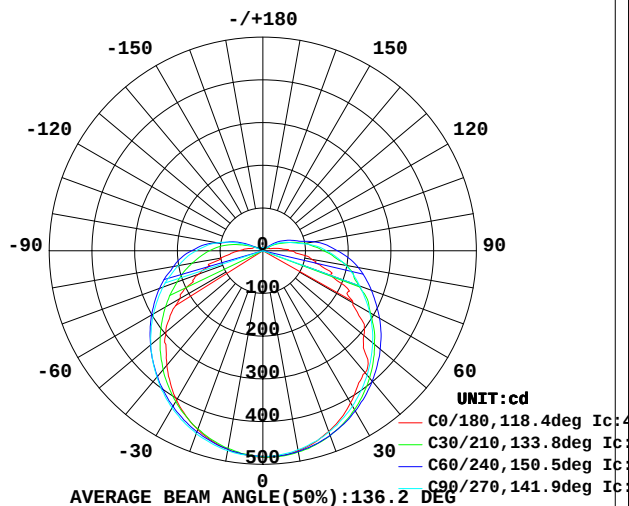


LUMINAIRE PHOTOMETRIC TEST REPORT

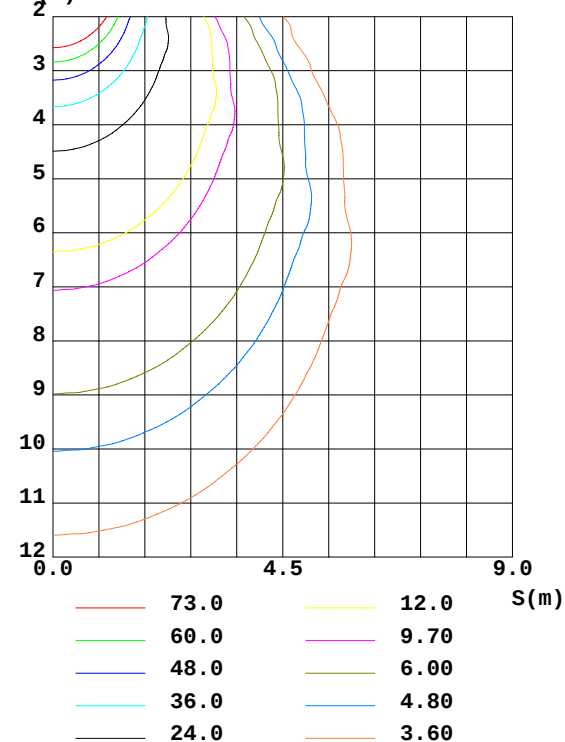
Test:U:120.1V I:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.77 lm/W			
MODEL	ASD-LWS-11-14D20CC-NK	I _{max} (cd)	484.6	S/MH(C0/180)	1.24
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2097.2	η UP, DN(C0-180)	6.3, 43.9
NOMINAL FLUX(lm)	2097.2	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.1, 43.7
LAMPS INSIDE	1	η up(%)	12.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	87.6	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:2025-06-07

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	475.3	478.0	472.9	473.8	471.7	470.6	474.7	478.5	0- 10	45.69	45.69	2.18,2.18
20	450.4	461.9	451.5	451.2	445.3	447.4	455.7	460.3	10- 20	131.5	177.1	8.45,8.45
30	410.7	433.8	419.6	420.3	403.9	414.4	424.9	431.5	20- 30	202.1	379.2	18.1,18.1
40	372.8	397.1	380.3	381.7	349.7	374.7	386.0	394.8	30- 40	251.0	630.2	30,30
50	308.6	354.9	335.8	338.5	296.0	331.2	342.4	352.6	40- 50	275.8	906.0	43.2,43.2
60	243.9	309.6	288.8	292.8	224.3	286.1	295.6	308.3	50- 60	276.8	1183	56.4,56.4
70	170.1	261.7	241.4	247.6	159.3	240.8	248.8	261.4	60- 70	256.5	1439	68.6,68.6
80	116.5	215.1	197.4	201.9	102.6	197.1	201.0	217.3	70- 80	221.4	1661	79.2,79.2
90	62.28	165.9	149.4	155.9	56.79	152.4	156.0	168.5	80- 90	176.8	1838	87.6,87.6
100	32.72	116.0	95.51	96.37	31.68	94.70	108.3	117.0	90-100	126.5	1964	93.6,93.6
110	16.57	67.27	58.54	48.45	23.33	46.98	43.56	69.75	100-110	70.32	2034	97,97
120	10.78	38.68	31.34	14.73	13.99	15.65	7.175	41.73	110-120	31.46	2066	98.5,98.5
130	8.420	7.412	10.42	12.10	11.05	13.32	11.86	10.57	120-130	13.62	2079	99.2,99.2
140	8.516	6.648	7.085	7.874	9.022	8.406	7.684	7.154	130-140	7.350	2087	99.5,99.5
150	7.482	6.767	6.821	6.674	7.667	7.102	7.133	7.213	140-150	4.632	2091	99.7,99.7
160	6.684	6.778	6.863	6.802	6.936	7.075	6.852	7.129	150-160	3.198	2095	99.9,99.9
170	6.701	6.940	6.959	7.017	6.890	7.110	6.994	7.129	160-170	1.966	2097	100,100
180	6.901	7.094	7.044	7.144	6.909	7.098	7.044	7.144	170-180	0.6681	2097	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

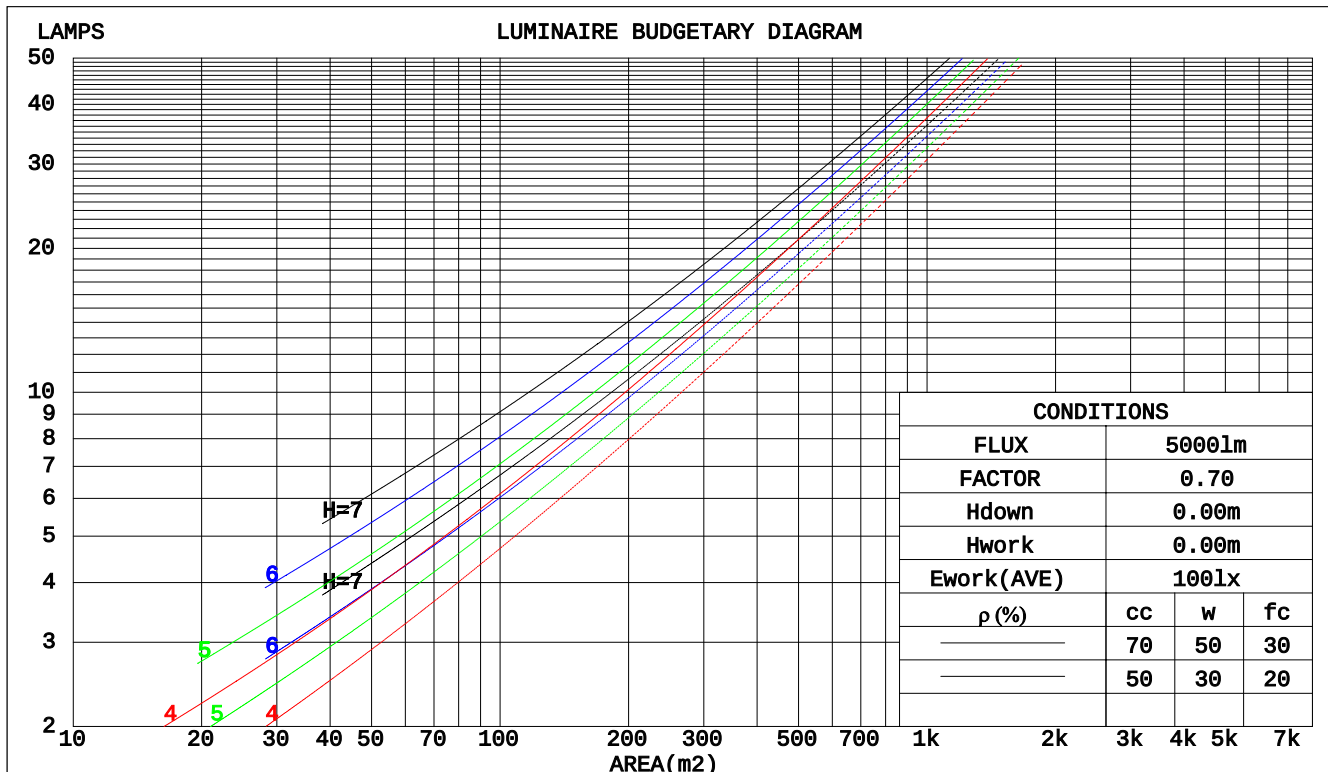
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	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	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.91	.91	.91	.88
1.0	.96	.91	.86	.93	.88	.83	.86	.82	.78	.80	.76	.73	.74	.72	.69	.66
2.0	.82	.74	.67	.79	.72	.65	.73	.67	.62	.68	.63	.59	.63	.59	.55	.52
3.0	.71	.62	.54	.68	.60	.53	.64	.56	.50	.59	.53	.48	.55	.50	.46	.43
4.0	.62	.53	.45	.60	.51	.44	.56	.48	.42	.52	.46	.40	.48	.43	.38	.36
5.0	.55	.46	.38	.53	.44	.38	.50	.42	.36	.46	.40	.34	.43	.38	.33	.30
6.0	.49	.40	.33	.48	.39	.32	.45	.37	.31	.42	.35	.30	.39	.33	.29	.26
7.0	.45	.35	.29	.43	.35	.28	.41	.33	.27	.38	.31	.26	.36	.30	.25	.23
8.0	.41	.32	.26	.39	.31	.25	.37	.30	.24	.35	.28	.23	.33	.27	.22	.20
9.0	.37	.29	.23	.36	.28	.22	.34	.27	.22	.32	.26	.21	.30	.24	.20	.18
10.0	.34	.26	.21	.33	.25	.20	.31	.24	.20	.30	.23	.19	.28	.22	.18	.16



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm									
NAME:ASD-LWS-11-14D20CC-NK					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 Coeffcients(WEC)										
0.0																	
1.0	.401	.228	.072	.390	.222	.071	.369	.212	.068	.350	.202	.065	.332	.193	.062		
2.0	.344	.189	.058	.334	.184	.057	.316	.176	.055	.298	.167	.052	.282	.160	.050		
3.0	.304	.162	.049	.295	.158	.048	.279	.151	.046	.263	.144	.044	.249	.138	.043		
4.0	.273	.142	.042	.265	.139	.041	.250	.132	.040	.236	.127	.038	.223	.121	.037		
5.0	.248	.126	.037	.240	.123	.036	.227	.118	.035	.214	.113	.034	.202	.108	.032		
6.0	.226	.113	.032	.220	.111	.032	.207	.106	.031	.196	.102	.030	.185	.097	.029		
7.0	.208	.103	.029	.202	.101	.029	.191	.097	.028	.181	.093	.027	.171	.089	.026		
8.0	.193	.094	.027	.188	.092	.026	.177	.089	.025	.168	.085	.024	.158	.081	.024		
9.0	.180	.087	.024	.175	.085	.024	.165	.082	.023	.156	.078	.022	.148	.075	.022		
10.0	.168	.081	.022	.164	.079	.022	.155	.076	.021	.147	.073	.021	.139	.070	.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	.285	.285	.285	.243	.243	.243	.166	.166	.166	.095	.095	.095	.031	.031	.031		
1.0	.282	.250	.222	.241	.215	.191	.165	.148	.132	.095	.086	.077	.030	.028	.025		
2.0	.275	.227	.187	.236	.196	.162	.161	.135	.113	.093	.079	.066	.030	.025	.022		
3.0	.267	.211	.166	.229	.182	.144	.157	.126	.101	.091	.074	.059	.029	.024	.019		
4.0	.259	.198	.151	.223	.171	.132	.153	.119	.093	.089	.070	.055	.028	.023	.018		
5.0	.252	.188	.142	.216	.163	.123	.149	.114	.087	.086	.067	.052	.028	.022	.017		
6.0	.244	.180	.135	.210	.156	.117	.145	.109	.083	.084	.064	.049	.027	.021	.016		
7.0	.237	.174	.129	.204	.150	.113	.141	.106	.080	.082	.062	.048	.026	.020	.016		
8.0	.230	.168	.126	.198	.146	.109	.137	.102	.078	.080	.060	.046	.026	.020	.015		
9.0	.223	.163	.122	.192	.142	.107	.133	.100	.076	.078	.059	.045	.025	.019	.015		
10.0	.217	.159	.120	.187	.138	.105	.130	.097	.074	.076	.057	.044	.025	.019	.015		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm											
NAME:ASD-LWS-11-14D20CC-NK					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	17.7	19.2	18.1	19.6	20.0	18.4	19.9	18.9	20.3	20.8	
	3H	19.6	21.0	20.1	21.5	22.0	20.9	22.2	21.3	22.7	
	4H	20.6	21.9	21.1	22.4	22.9	22.2	23.5	22.7	24.0	
	6H	21.6	22.8	22.1	23.3	23.8	23.6	24.8	24.1	25.3	
	8H	22.1	23.3	22.6	23.8	24.3	24.4	25.6	24.9	26.1	
	12H	22.6	23.7	23.1	24.3	24.8	25.3	26.4	25.8	26.9	
4H	2H	18.8	20.1	19.2	20.5	21.0	19.3	20.6	19.8	21.0	
	3H	21.0	22.1	21.5	22.7	23.2	22.0	23.1	22.5	23.6	
	4H	22.2	23.3	22.8	23.8	24.4	23.5	24.6	24.1	25.1	
	6H	23.3	24.3	23.9	24.8	25.5	25.1	26.1	25.7	26.7	
	8H	23.9	24.8	24.5	25.4	26.1	26.0	26.9	26.6	27.5	
	12H	24.5	25.4	25.2	26.0	26.6	27.0	27.8	27.6	28.4	
8H	4H	23.1	24.0	23.7	24.6	25.2	24.1	25.0	24.7	25.6	
	6H	24.7	25.4	25.3	26.0	26.7	26.1	26.8	26.7	27.5	
	8H	25.5	26.2	26.1	26.8	27.5	27.2	27.9	27.8	28.5	
	12H	26.3	26.9	27.0	27.6	28.3	28.4	29.0	29.1	29.7	
12H	4H	23.3	24.2	24.0	24.8	25.4	24.2	25.0	24.8	25.6	
	6H	25.1	25.8	25.7	26.4	27.1	26.3	27.0	27.0	27.6	
	8H	26.1	26.7	26.7	27.3	28.1	27.6	28.2	28.2	28.8	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.5					

CIE Pub.117 Corrected 2097 lm Total Lamp Luminous Flux.(8log(F/F₀) = 2.6)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

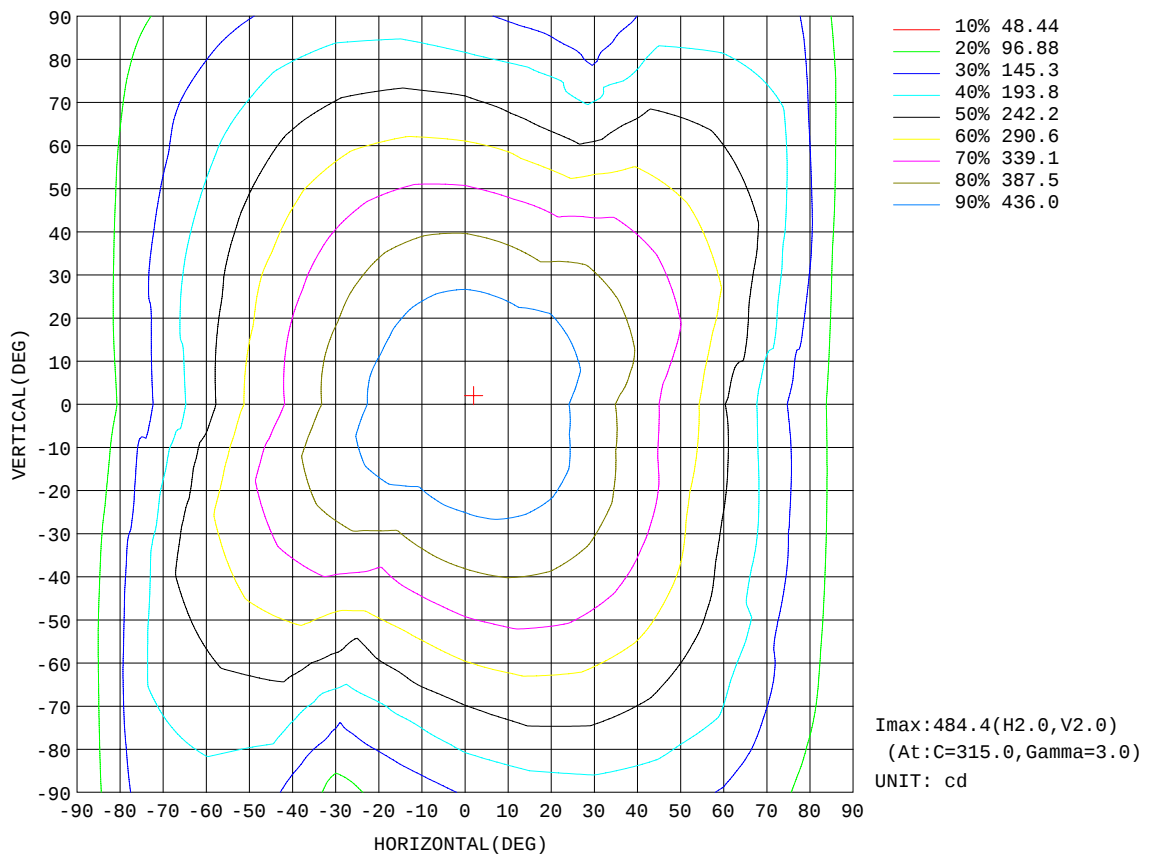
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	36	29	48	36	29	46	35	28	22
0.80	58	45	37	57	44	36	54	43	36	28
1.00	66	53	44	64	52	44	61	53	43	34
1.25	72	60	51	70	59	50	67	57	49	40
1.50	78	65	56	75	64	56	71	61	54	45
2.00	85	74	65	82	72	64	77	69	62	51
2.50	89	79	71	86	77	69	81	73	67	55
3.00	93	84	76	90	81	74	84	77	71	59
4.00	98	90	83	94	87	81	88	82	77	64
5.00	101	94	88	97	91	85	91	86	81	68
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:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

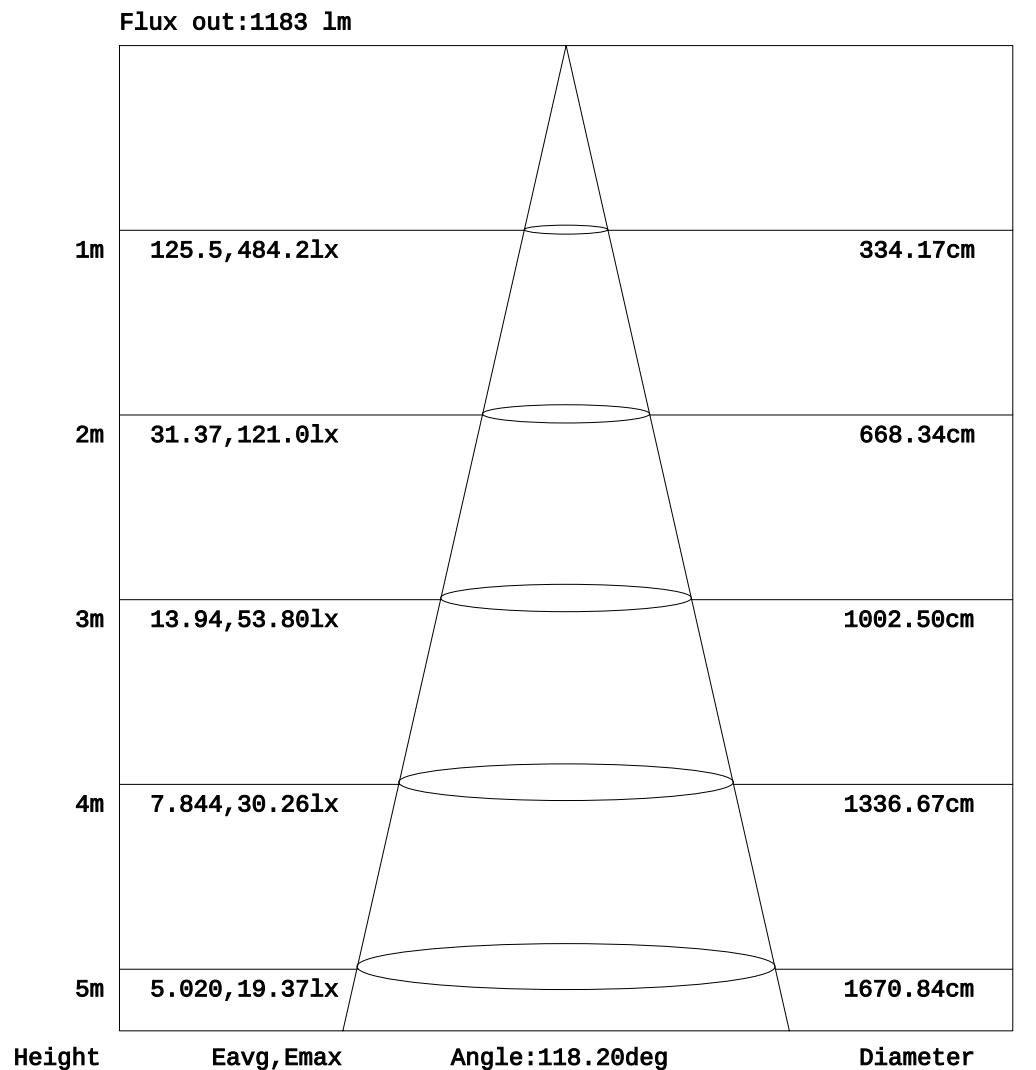


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



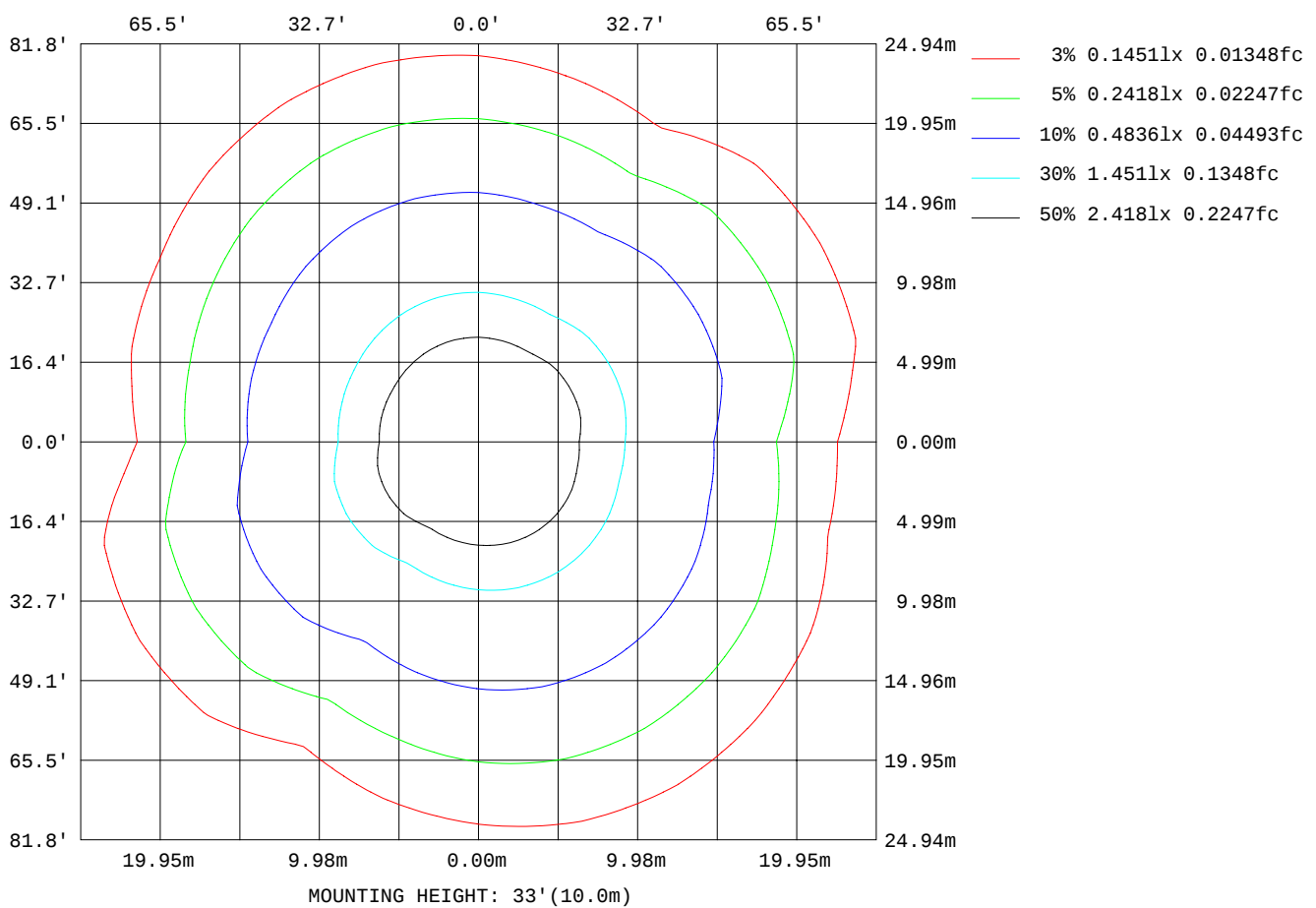
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	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: 2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

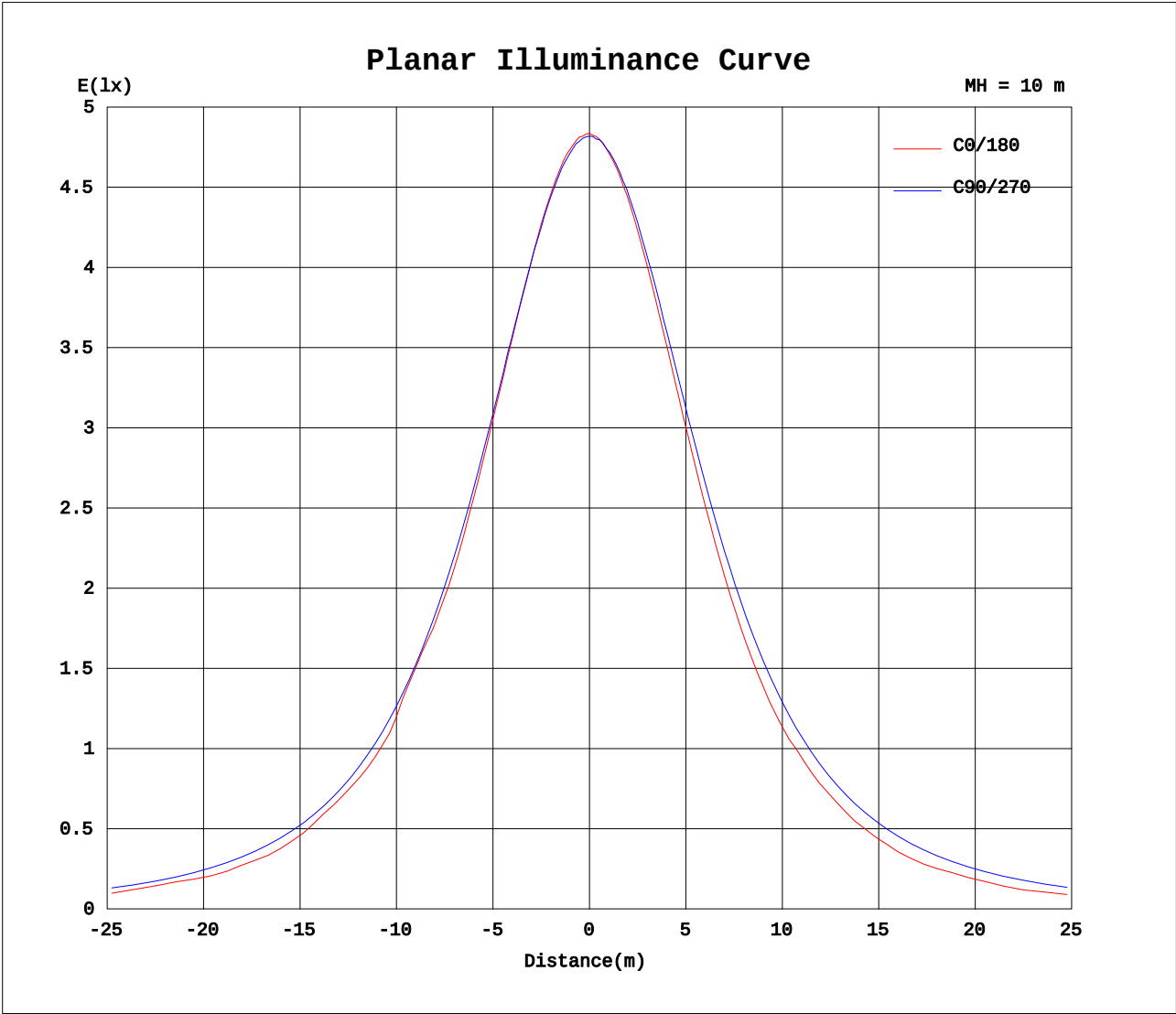
AvgL	cd/m2
L_0~180(65)av	4901
L_0~180(75)av	5322
L_0~180(85)av	9197
L_90~270(65)av	6344
L_90~270(75)av	8580
L_90~270(85)av	20243
L_45(65)av	6532
L_45(75)av	8892
L_45(85)av	21257

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-07

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:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm																		
NAME:ASD-LWS-11-14D20CC-NK									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	484	483	483	482	482	482	482	482	482	484	484	484	484	483	483	482	482	482	482
5	481	482	483	482	481	480	479	479	478	481	482	482	480	479	478	478	479	479	480
10	475	477	478	478	477	475	473	472	471	474	475	475	472	472	470	471	472	474	475
15	465	466	471	472	470	467	464	461	458	464	466	466	461	461	459	460	463	465	467
20	450	453	461	462	460	457	451	447	442	451	456	455	445	446	444	447	451	453	456
25	433	436	446	449	448	443	436	430	424	437	442	440	427	428	427	432	437	440	441
30	411	417	429	434	433	427	420	411	402	420	427	424	404	407	408	414	421	425	425
35	387	394	410	416	417	411	401	389	377	401	409	405	378	383	386	395	403	407	406
40	373	370	389	397	398	392	380	366	350	382	391	385	350	357	363	375	384	388	386
45	339	344	366	377	379	372	358	340	325	361	371	365	321	329	339	353	364	368	365
50	309	325	342	355	359	352	336	314	298	338	349	343	296	300	314	331	343	347	342
55	283	289	318	333	338	331	312	288	260	316	328	321	265	280	288	309	322	326	319
60	244	269	291	310	315	308	289	261	234	293	306	298	224	240	263	286	301	304	296
65	224	226	271	285	292	285	264	240	210	271	285	276	190	221	238	263	279	281	272
70	170	209	239	262	271	264	241	211	177	248	263	254	159	190	213	241	257	259	249
75	143	186	220	239	249	243	220	184	148	223	241	231	132	160	192	219	236	237	224
80	117	143	200	215	227	219	197	162	129	202	218	207	103	136	168	197	212	215	201
85	84.7	128	168	192	202	195	173	140	103	180	198	186	75.6	116	146	175	192	193	180
90	62.3	98.4	142	166	175	169	149	118	81.4	156	173	163	56.8	92.0	125	152	167	169	156
95	47.2	82.5	119	142	151	145	126	98.6	64.8	132	148	141	44.6	74.7	105	128	143	145	133
100	32.7	63.0	101	116	122	114	95.5	77.0	48.6	96.4	116	110	31.7	58.5	81.0	94.7	108	111	108
105	20.0	44.8	76.7	84.3	87.4	84.5	72.6	57.0	33.8	72.4	84.4	79.7	24.2	39.2	54.8	70.7	81.1	80.9	77.4
110	16.6	29.4	54.1	67.3	72.3	69.6	58.5	42.1	22.6	48.5	61.0	53.6	23.3	25.8	33.5	47.0	56.8	55.1	43.6
115	14.3	14.5	39.2	52.6	57.4	55.2	45.1	29.8	17.8	22.8	29.8	20.6	17.7	19.3	21.8	22.8	26.1	21.0	11.1
120	10.8	8.44	24.4	38.7	43.8	41.7	31.3	18.5	15.2	14.7	10.6	6.89	14.0	17.5	16.3	15.6	12.4	7.56	7.18
125	8.72	8.08	9.13	22.2	27.6	25.9	17.6	12.9	12.1	11.8	9.50	6.97	12.4	13.9	14.4	12.8	10.9	7.67	8.12
130	8.42	8.38	7.08	7.41	11.4	11.3	10.4	10.2	10.3	12.1	9.93	8.68	11.0	10.4	12.6	13.3	11.8	10.3	11.9
135	8.47	7.92	7.47	6.65	7.74	8.47	8.40	8.19	9.02	11.2	12.3	11.7	9.94	9.29	9.50	11.8	13.1	12.6	11.1
140	8.52	7.88	7.07	6.65	6.99	7.28	7.09	7.43	8.16	7.87	9.25	8.72	9.02	8.51	7.56	8.41	9.37	8.85	7.68
145	8.45	7.42	6.55	6.79	6.73	6.79	6.88	7.11	7.60	6.61	6.71	6.71	8.29	7.91	7.29	7.12	7.04	6.91	6.79
150	7.48	6.50	6.60	6.77	6.75	6.79	6.82	6.89	7.18	6.67	6.74	6.83	7.67	7.45	7.12	7.10	7.06	7.02	7.13
155	6.37	6.42	6.98	6.75	6.78	6.82	6.82	6.82	6.83	6.72	6.81	6.83	7.21	7.14	7.04	7.06	7.05	6.95	6.86
160	6.68	6.98	6.66	6.78	6.86	6.88	6.86	6.84	6.74	6.80	6.88	6.89	6.94	6.97	7.03	7.07	7.07	6.98	6.85
165	6.71	6.64	6.71	6.83	6.91	6.96	6.91	6.85	6.78	6.91	6.96	6.97	6.85	6.95	7.04	7.11	7.09	7.02	6.92
170	6.70	6.76	6.84	6.94	6.97	7.00	6.96	6.89	6.82	7.02	7.05	7.05	6.89	6.98	7.06	7.11	7.12	7.07	6.99
175	6.82	6.89	6.94	7.01	7.03	7.04	6.99	6.95	6.88	7.09	7.11	7.09	6.92	6.99	7.06	7.12	7.11	7.08	7.02
180	6.90	6.97	7.04	7.09	7.11	7.09	7.04	6.99	6.90	7.14	7.15	7.12	6.91	6.97	7.06	7.10	7.11	7.09	7.04

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-07

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:0.1795A P:21.23W PF:0.9847 Lamp Flux:2097.2x1 lm		
NAME:ASD-LWS-11-14D20CC-NK	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	482	482	484	484	484													
5	481	482	483	483	482													
10	476	477	478	478	477													
15	467	467	471	469	469													
20	454	454	460	459	458													
25	439	437	447	446	444													
30	422	419	431	431	429													
35	402	396	414	414	411													
40	379	376	395	396	392													
45	355	345	375	376	372													
50	331	326	353	356	350													
55	304	297	331	335	329													
60	284	267	308	312	305													
65	252	231	285	289	282													
70	228	209	261	268	259													
75	213	180	240	247	237													
80	185	146	217	223	215													
85	159	125	194	197	190													
90	131	100	169	171	164													
95	110	81.6	145	148	140													
100	90.5	60.0	117	117	107													
105	58.0	28.6	85.3	85.9	80.1													
110	23.3	14.0	69.8	70.7	65.2													
115	9.21	13.2	55.1	56.0	50.9													
120	9.13	15.0	41.7	42.8	37.7													
125	12.4	11.8	25.9	27.0	22.3													
130	13.0	11.0	10.6	12.0	10.6													
135	10.9	10.4	7.76	8.58	8.73													
140	9.21	9.82	7.15	7.59	7.44													
145	7.43	9.26	7.24	7.12	7.06													
150	6.60	7.76	7.21	7.07	7.00													
155	6.82	6.54	7.12	7.07	6.99													
160	7.22	6.81	7.13	7.09	7.00													
165	6.79	6.96	7.12	7.11	7.04													
170	6.87	6.76	7.13	7.15	7.09													
175	6.94	6.86	7.14	7.14	7.12													
180	7.00	6.90	7.14	7.17	7.13													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-07

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: