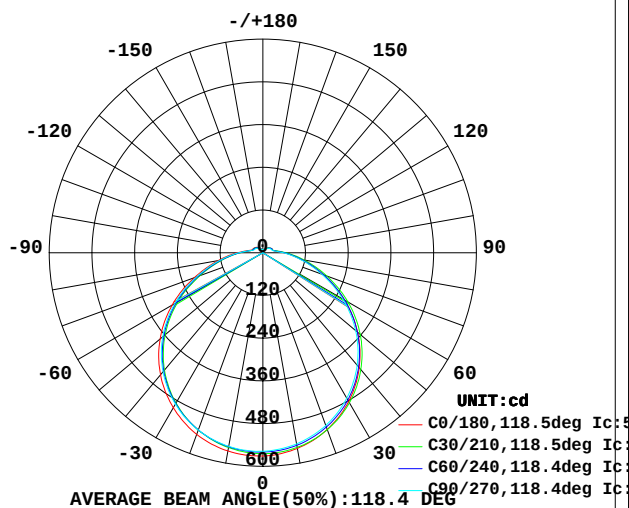


LUMINAIRE PHOTOMETRIC TEST REPORT

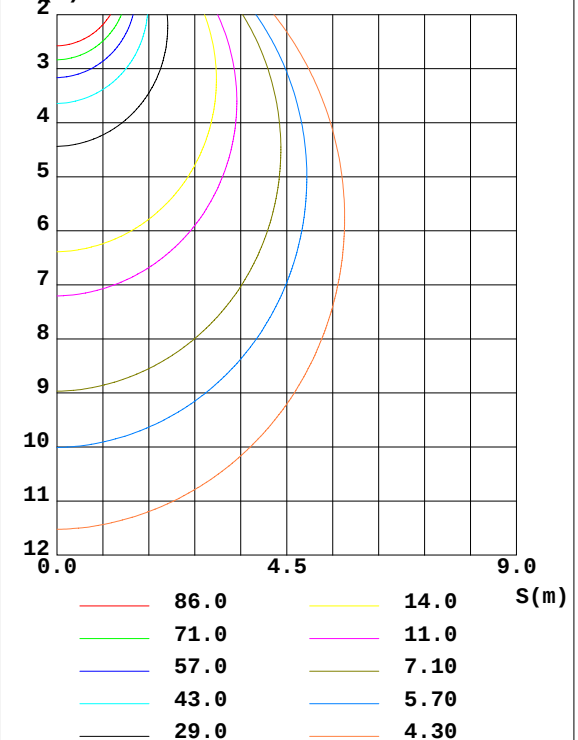
Test:U:120.2V I:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.13 lm/W			
MODEL	ASD-LFMDR-18D28DH-NK	I _{max} (cd)	571.1	S/MH(C0/180)	1.31
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1952.7	η UP, DN(C0-180)	4.0, 44.8
NOMINAL FLUX(lm)	1952.66	CIE CLASS	DIRECT	η UP, DN(C180-360)	4.3, 47.0
LAMPS INSIDE	1	η up(%)	8.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	91.8	CIBSE SHR MAX	1.35

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:2025-06-20

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	558.2	552.0	545.6	543.6	565.4	554.3	552.1	550.5	0- 10	53.03	53.03	2.72, 2.72
20	528.4	525.5	516.6	514.8	543.0	529.2	529.8	528.1	10- 20	152.6	205.6	10.5, 10.5
30	482.2	482.3	471.6	470.3	503.1	488.3	491.3	489.1	20- 30	233.6	439.2	22.5, 22.5
40	421.3	424.3	412.4	411.6	447.4	431.0	436.2	435.0	30- 40	285.7	724.9	37.1, 37.1
50	347.6	353.1	340.5	339.6	376.9	359.5	367.2	366.0	40- 50	302.6	1027	52.6, 52.6
60	263.8	271.7	258.8	258.0	294.5	277.2	286.1	285.8	50- 60	282.1	1310	67.1, 67.1
70	179.5	186.3	176.2	173.7	204.8	190.6	197.8	199.9	60- 70	228.3	1538	78.8, 78.8
80	108.7	114.7	106.1	104.9	128.0	116.3	122.3	125.0	70- 80	158.6	1696	86.9, 86.9
90	59.81	63.70	57.90	56.90	72.14	64.15	67.41	68.84	80- 90	95.34	1792	91.8, 91.8
100	32.98	34.41	32.16	31.51	38.99	35.20	36.26	36.39	90-100	51.30	1843	94.4, 94.4
110	28.55	28.01	26.55	23.86	30.19	28.77	26.14	26.49	100-110	31.28	1874	96, 96
120	25.47	25.83	23.67	21.46	27.58	25.99	23.62	23.55	110-120	25.97	1900	97.3, 97.3
130	21.41	21.29	18.93	18.66	24.18	22.92	19.93	20.08	120-130	20.48	1921	98.4, 98.4
140	16.03	15.41	15.12	14.65	19.81	18.88	16.47	16.49	130-140	14.50	1935	99.1, 99.1
150	12.35	12.36	10.37	10.52	14.85	13.19	13.12	12.83	140-150	9.128	1944	99.6, 99.6
160	9.098	9.137	9.244	9.070	10.45	10.29	9.626	9.568	150-160	4.940	1949	99.8, 99.8
170	8.100	7.900	7.822	7.849	8.618	8.297	8.759	8.319	160-170	2.524	1952	100, 100
180	7.795	7.683	7.614	7.599	7.849	7.656	7.618	7.595	170-180	0.7601	1953	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

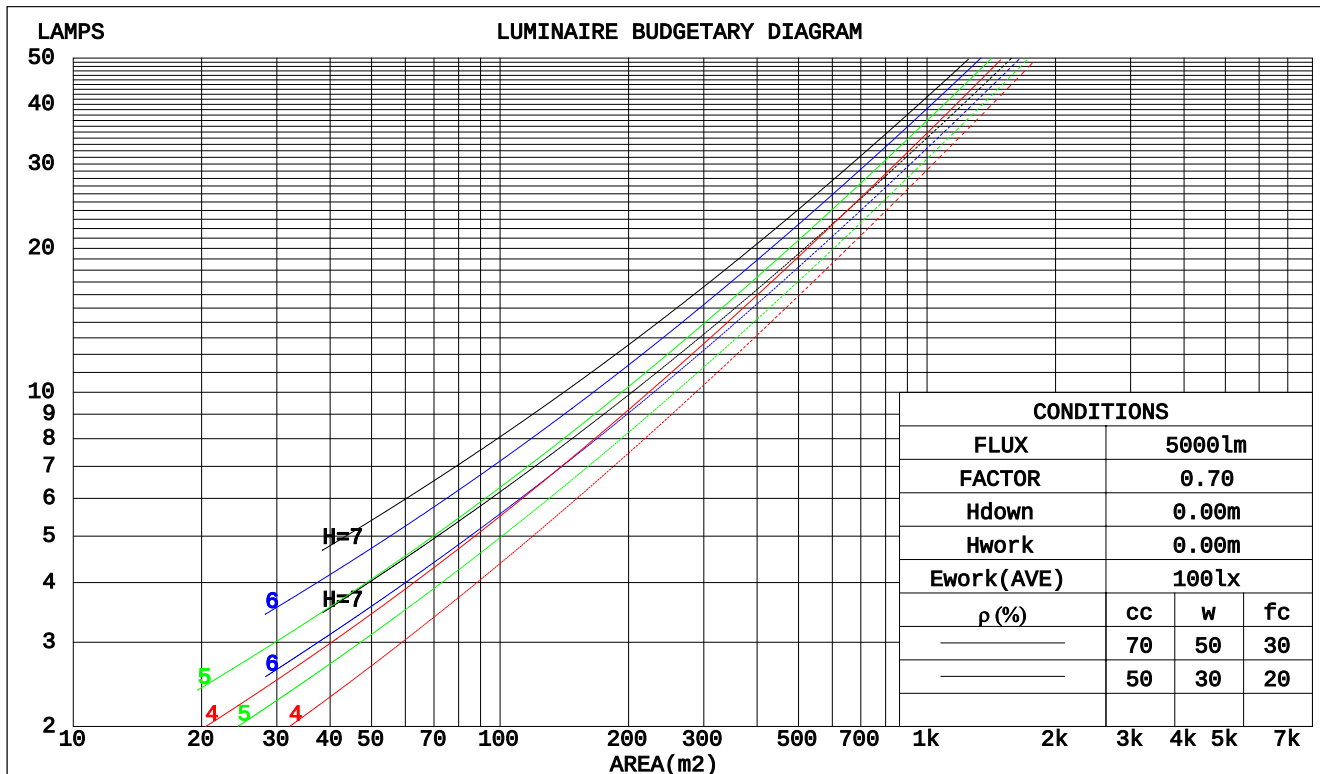
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-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						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.07	1.07	1.07	1.00	1.00	1.00	.94	.94	.94	.92
1.0	.00	.95	.91	.97	.92	.88	.91	.87	.84	.86	.83	.80	.81	.78	.76	.73
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.68	.74	.70	.65	.70	.66	.63	.60
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.65	.59	.55	.61	.57	.53	.50
4.0	.66	.57	.50	.65	.56	.49	.61	.54	.48	.58	.51	.46	.55	.49	.45	.42
5.0	.59	.50	.43	.58	.49	.42	.54	.47	.41	.52	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.42	.36	.47	.40	.35	.44	.38	.34	.32
7.0	.48	.39	.33	.47	.38	.32	.45	.37	.32	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.24	.36	.28	.23	.35	.28	.23	.33	.27	.22	.32	.26	.22	.20



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm					
NAME: ASD-LFMDR-18D28DH-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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.348	.198	.063	.339	.193	.061	.321	.184	.059	.304	.175	.056	.289	.167	.054		
2.0	.313	.171	.053	.304	.167	.052	.288	.160	.050	.273	.153	.048	.259	.147	.046		
3.0	.283	.151	.045	.275	.147	.044	.261	.141	.043	.247	.136	.042	.235	.130	.040		
4.0	.258	.134	.039	.251	.131	.039	.238	.126	.038	.226	.121	.037	.214	.117	.035		
5.0	.236	.120	.035	.230	.118	.034	.218	.114	.033	.207	.109	.033	.197	.105	.032		
6.0	.218	.109	.031	.212	.107	.031	.202	.103	.030	.192	.100	.029	.182	.096	.029		
7.0	.202	.100	.028	.197	.098	.028	.187	.095	.027	.178	.091	.027	.170	.088	.026		
8.0	.188	.092	.026	.183	.090	.026	.175	.087	.025	.166	.084	.024	.159	.081	.024		
9.0	.176	.085	.024	.171	.084	.023	.163	.081	.023	.156	.078	.022	.149	.076	.022		
10.0	.165	.079	.022	.161	.078	.022	.154	.075	.021	.147	.073	.021	.140	.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	.253	.253	.253	.216	.216	.216	.148	.148	.148	.085	.085	.085	.027	.027	.027	
1.0	.246	.219	.195	.211	.188	.167	.144	.129	.116	.083	.075	.067	.027	.024	.022	
2.0	.239	.196	.159	.204	.168	.138	.140	.116	.096	.081	.068	.056	.026	.022	.018	
3.0	.231	.178	.137	.198	.154	.118	.136	.107	.083	.079	.062	.049	.025	.020	.016	
4.0	.223	.166	.121	.192	.143	.105	.132	.100	.074	.076	.058	.044	.025	.019	.014	
5.0	.216	.155	.111	.185	.134	.096	.128	.094	.068	.074	.055	.040	.024	.018	.013	
6.0	.208	.147	.103	.179	.128	.090	.124	.089	.064	.072	.052	.038	.023	.017	.012	
7.0	.201	.140	.098	.173	.122	.085	.120	.085	.060	.070	.050	.036	.022	.016	.012	
8.0	.195	.135	.093	.168	.117	.081	.116	.082	.058	.068	.048	.034	.022	.016	.011	
9.0	.189	.130	.090	.163	.113	.079	.113	.079	.056	.066	.047	.033	.021	.015	.011	
10.0	.183	.126	.088	.158	.109	.076	.109	.077	.054	.064	.045	.032	.021	.015	.011	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm											
NAME: ASD-LFMDR-18D28DH-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	18.1	19.6	18.5	19.9	20.3	18.0	19.5	18.4	19.9	20.2	
	3H	19.8	21.1	20.2	21.5	21.9	19.7	21.1	20.2	21.5	21.9
	4H	20.6	21.9	21.0	22.3	22.7	20.6	21.8	21.0	22.2	22.7
	6H	21.4	22.6	21.9	23.0	23.5	21.3	22.6	21.8	23.0	23.4
	8H	21.8	23.0	22.3	23.4	23.9	21.7	22.9	22.2	23.3	23.8
	12H	22.3	23.4	22.7	23.8	24.3	22.2	23.3	22.7	23.8	24.2
4H	2H	18.8	20.1	19.2	20.5	20.9	18.7	20.0	19.2	20.4	20.8
	3H	20.7	21.8	21.2	22.3	22.8	20.6	21.8	21.1	22.2	22.7
	4H	21.7	22.7	22.2	23.2	23.7	21.6	22.6	22.1	23.1	23.6
	6H	22.6	23.5	23.2	24.0	24.6	22.6	23.5	23.1	24.0	24.5
	8H	23.1	24.0	23.7	24.5	25.1	23.1	23.9	23.6	24.4	25.0
	12H	23.7	24.5	24.2	25.0	25.6	23.6	24.4	24.2	24.9	25.5
8H	4H	22.1	22.9	22.6	23.4	24.0	22.0	22.9	22.5	23.4	23.9
	6H	23.3	24.0	23.9	24.6	25.2	23.2	23.9	23.8	24.5	25.1
	8H	24.0	24.6	24.6	25.2	25.8	23.9	24.5	24.5	25.1	25.7
	12H	24.7	25.3	25.3	25.9	26.5	24.6	25.2	25.2	25.8	26.4
12H	4H	22.1	22.9	22.7	23.5	24.0	22.1	22.9	22.6	23.4	24.0
	6H	23.5	24.1	24.0	24.7	25.3	23.4	24.0	24.0	24.6	25.2
	8H	24.2	24.8	24.8	25.4	26.0	24.1	24.7	24.7	25.3	25.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 1953 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

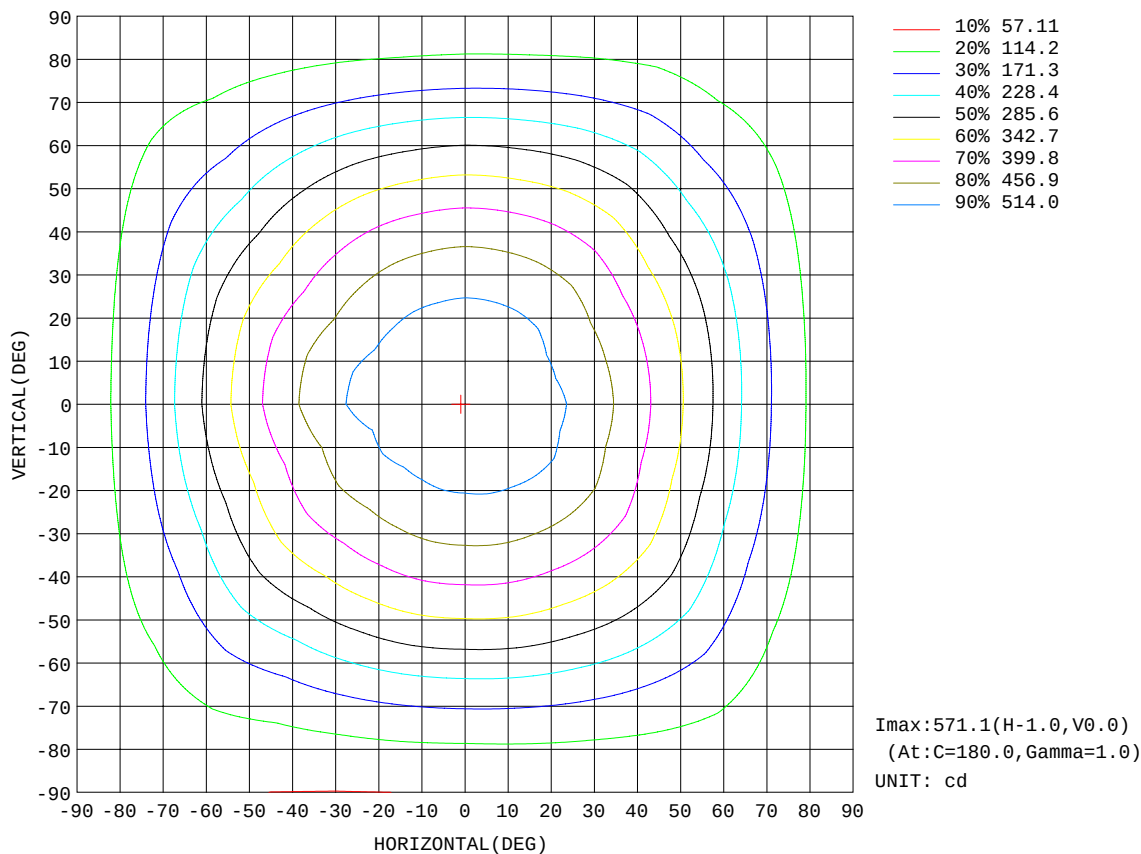
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	50	40	33	27
0.80	63	50	43	61	50	42	59	49	42	34
1.00	71	59	51	69	58	50	66	59	50	42
1.25	78	66	58	76	65	58	72	63	57	48
1.50	83	72	64	81	71	63	77	68	62	53
2.00	90	80	73	87	78	72	83	75	69	60
2.50	94	85	78	91	83	77	86	80	74	64
3.00	97	89	83	95	87	81	89	83	78	68
4.00	102	95	89	99	93	88	93	88	84	72
5.00	104	99	94	101	96	92	95	91	87	76
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:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

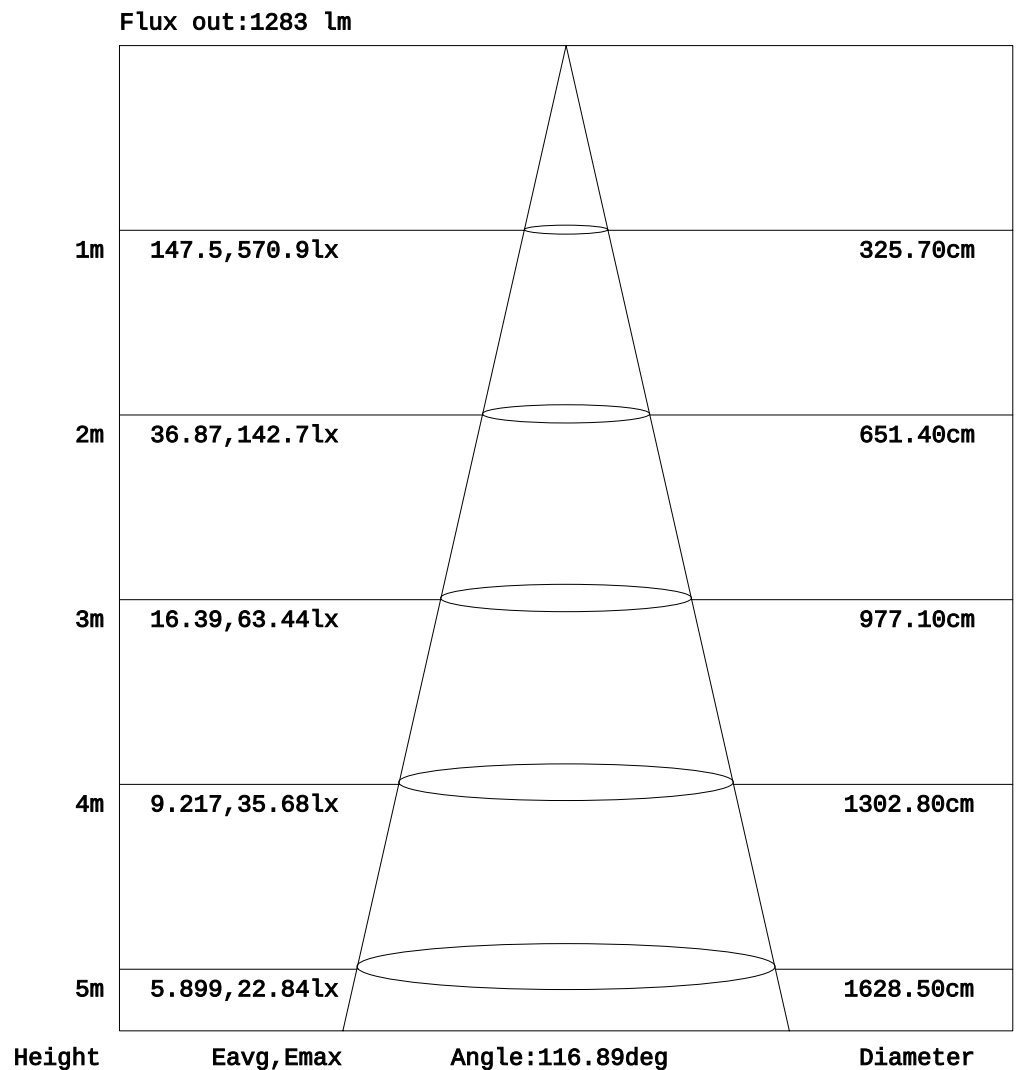


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



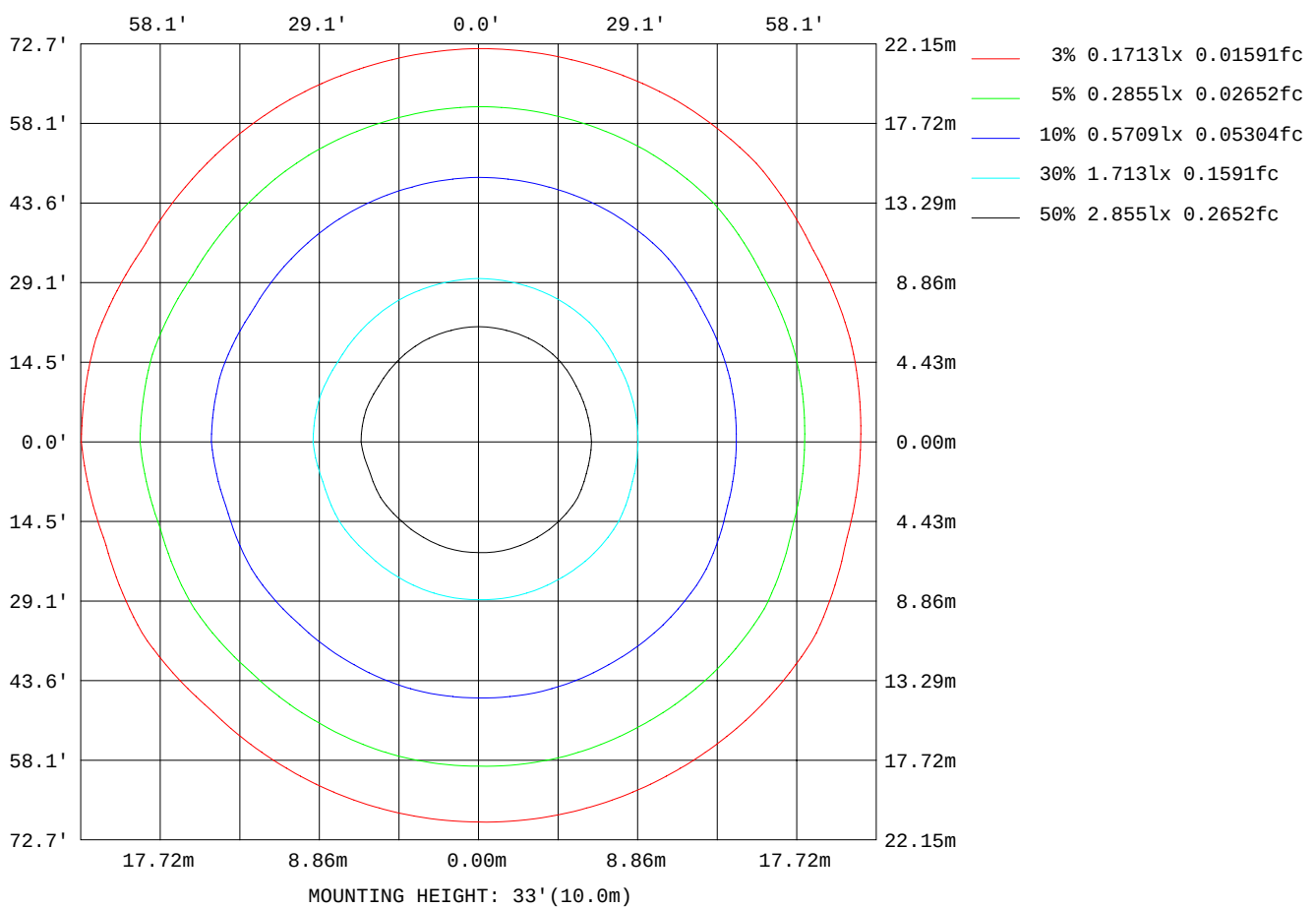
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-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: 2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

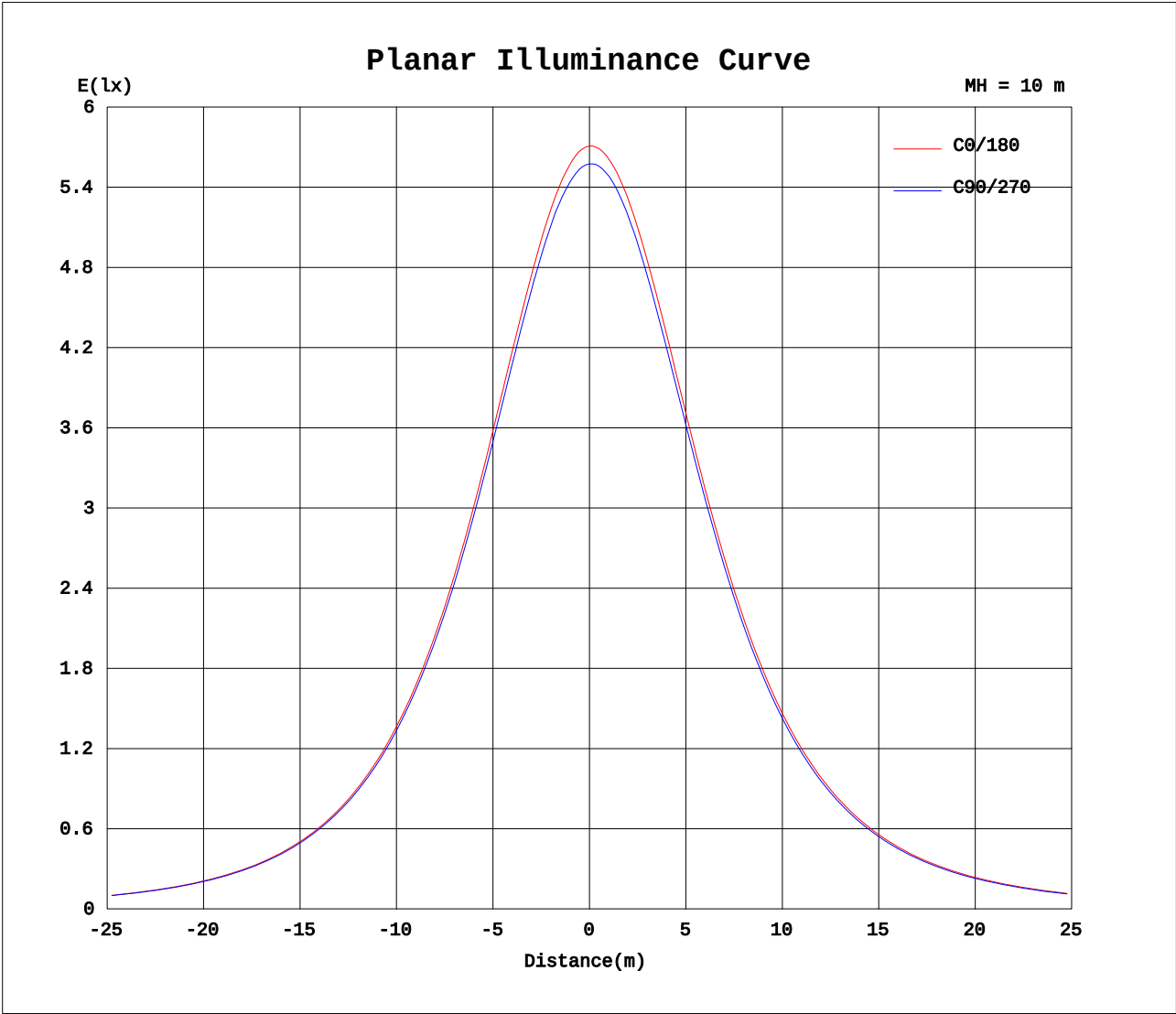
AvgL	cd/m2
L_0~180(65)av	5575
L_0~180(75)av	5913
L_0~180(85)av	10264
L_90~270(65)av	5435
L_90~270(75)av	5736
L_90~270(85)av	9809
L_45(65)av	5439
L_45(75)av	5759
L_45(85)av	9921

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-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	571	567	564	562	560	559	558	557	556	556	556	556	571	567	564	562	560	559	558
5	567	563	562	559	557	555	553	553	552	551	554	553	570	567	562	560	559	558	557
10	558	555	555	552	549	547	546	544	543	544	547	547	565	562	556	554	553	553	552
15	545	542	544	541	537	535	532	532	531	531	536	537	556	553	545	544	544	543	543
20	528	525	529	525	521	519	517	516	514	515	522	522	543	540	530	529	530	529	530
25	508	504	510	506	501	499	496	495	494	495	503	503	525	522	511	510	512	511	513
30	482	479	487	482	477	475	472	471	469	470	480	480	503	500	488	488	490	490	491
35	454	450	459	455	450	447	443	443	441	443	454	454	477	475	461	461	464	464	466
40	421	418	428	424	419	416	412	412	410	412	423	424	447	445	430	431	433	434	436
45	386	383	394	390	384	382	378	378	375	377	390	390	414	412	396	397	400	401	403
50	348	345	357	353	347	345	341	340	338	340	354	354	377	375	358	360	363	364	367
55	307	304	318	313	307	305	301	301	298	300	314	315	337	335	318	320	323	324	328
60	264	262	276	272	265	263	259	259	256	258	272	273	294	293	275	277	281	282	286
65	221	218	233	228	223	220	217	215	214	214	230	229	250	249	231	234	238	239	243
70	180	177	191	186	182	179	176	175	174	174	188	187	205	205	188	191	193	196	198
75	142	140	152	148	144	141	139	138	137	137	149	148	164	164	149	151	153	155	158
80	109	107	118	115	111	109	106	106	104	105	115	115	128	127	115	116	118	120	122
85	81.7	80.5	88.9	86.5	83.3	81.9	79.3	78.7	77.3	78.1	86.3	86.2	97.3	95.6	86.8	87.3	88.7	89.4	91.6
90	59.8	59.0	65.5	63.7	61.2	60.0	57.9	57.3	56.2	56.9	63.3	63.3	72.1	70.7	63.8	64.1	65.3	65.8	67.4
95	43.3	42.8	47.3	46.1	44.2	43.4	41.9	41.5	40.7	41.1	45.4	45.5	52.4	51.3	46.3	46.6	47.5	47.7	48.8
100	33.0	32.6	35.1	34.4	33.2	32.8	32.2	31.8	31.3	31.5	33.7	33.9	39.0	38.1	35.3	35.2	35.8	35.9	36.3
105	29.0	28.5	29.2	28.8	28.2	28.0	27.4	25.9	26.3	25.8	27.7	28.3	31.8	31.0	30.0	29.6	29.8	29.8	28.7
110	28.5	28.3	28.3	28.0	27.8	27.6	26.5	24.8	24.0	23.9	25.8	27.3	30.2	29.2	29.5	28.8	28.5	28.1	26.1
115	27.4	27.4	27.6	27.5	27.4	26.7	25.2	23.8	22.9	22.9	24.5	26.3	29.3	28.3	28.2	27.5	27.6	26.7	25.0
120	25.5	25.6	25.8	25.8	25.6	25.3	23.7	21.9	21.2	21.5	23.1	25.0	27.6	26.7	26.4	26.0	26.0	24.7	23.6
125	23.3	22.9	23.7	23.2	23.3	23.0	22.0	20.3	19.9	20.1	22.1	23.2	26.0	25.4	24.9	24.7	23.9	22.6	21.7
130	21.4	20.9	21.6	21.3	20.9	20.1	18.9	18.2	18.3	18.7	19.8	21.3	24.2	23.7	23.0	22.9	22.0	20.6	19.9
135	18.0	17.4	18.8	17.8	17.7	18.4	17.3	16.2	15.9	16.3	18.0	19.3	22.0	21.8	20.8	21.1	20.2	18.8	18.4
140	16.0	15.4	16.2	15.4	15.9	15.8	15.1	14.4	14.4	14.7	15.9	16.6	19.8	19.7	18.8	18.9	18.8	16.9	16.5
145	14.4	13.8	14.9	14.3	13.5	13.0	12.3	12.5	12.5	12.7	13.6	13.9	18.0	17.5	16.7	16.5	15.8	14.9	14.5
150	12.3	12.0	12.8	12.4	11.3	10.5	10.4	10.3	10.4	10.5	11.3	11.7	14.9	14.1	13.3	13.2	13.1	12.8	13.1
155	10.0	9.90	10.2	10.2	9.68	9.62	9.36	9.60	9.97	9.53	9.81	10.1	11.8	11.7	11.1	11.1	11.1	10.8	10.9
160	9.10	8.93	9.26	9.14	8.80	8.78	9.24	9.20	9.28	9.07	9.21	9.35	10.5	10.3	10.0	10.3	10.7	9.84	9.63
165	8.43	8.83	8.64	8.69	8.81	8.12	8.07	8.16	8.14	8.07	8.17	8.22	9.39	9.86	8.94	9.58	9.76	9.08	9.28
170	8.10	8.00	8.08	7.98	7.87	7.86	7.82	7.90	7.85	7.85	7.80	7.86	8.62	8.52	8.28	8.30	8.37	8.32	8.76
175	7.89	7.86	7.88	7.81	7.71	7.70	7.66	7.64	7.61	7.61	7.66	7.65	8.21	8.15	7.98	7.99	8.02	8.00	7.99
180	7.79	7.79	7.69	7.68	7.62	7.64	7.61	7.61	7.59	7.60	7.60	7.59	7.85	7.75	7.72	7.66	7.65	7.63	7.62

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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:0.2699A P:29.98W PF:0.9242 Lamp Flux:1952.66x1 lm		
NAME: ASD-LFMDR-18D28DH-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	557	556	556	556	556													
5	556	556	555	553	553													
10	552	551	551	547	546													
15	542	543	541	536	536													
20	529	529	528	521	520													
25	512	513	511	502	501													
30	490	491	489	479	478													
35	465	466	464	453	451													
40	436	436	435	422	421													
45	403	404	402	388	387													
50	367	368	366	352	351													
55	328	329	327	312	311													
60	286	288	286	271	270													
65	242	245	243	228	228													
70	199	200	200	185	186													
75	159	161	160	147	148													
80	123	125	125	114	114													
85	91.8	93.8	94.0	85.4	85.4													
90	67.4	68.9	68.8	62.4	62.6													
95	48.6	49.6	49.4	45.0	45.2													
100	36.0	36.5	36.4	34.0	34.0													
105	29.3	29.5	29.1	29.2	28.5													
110	25.7	26.3	26.5	27.9	28.0													
115	24.3	24.6	25.0	26.6	26.9													
120	23.2	23.2	23.6	24.8	25.1													
125	21.5	21.6	21.8	22.8	23.7													
130	19.7	19.8	20.1	20.9	21.5													
135	18.1	18.1	18.4	19.1	19.7													
140	16.5	16.5	16.5	16.8	17.4													
145	13.9	14.2	14.1	14.9	15.0													
150	12.9	12.9	12.8	12.1	11.9													
155	11.1	11.3	11.1	10.5	10.5													
160	9.55	9.55	9.57	9.42	9.49													
165	9.61	9.57	8.91	9.37	8.83													
170	9.03	9.05	8.32	8.54	8.55													
175	7.91	7.89	7.89	7.94	7.92													
180	7.60	7.60	7.59	7.59	7.58													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-06-20

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: