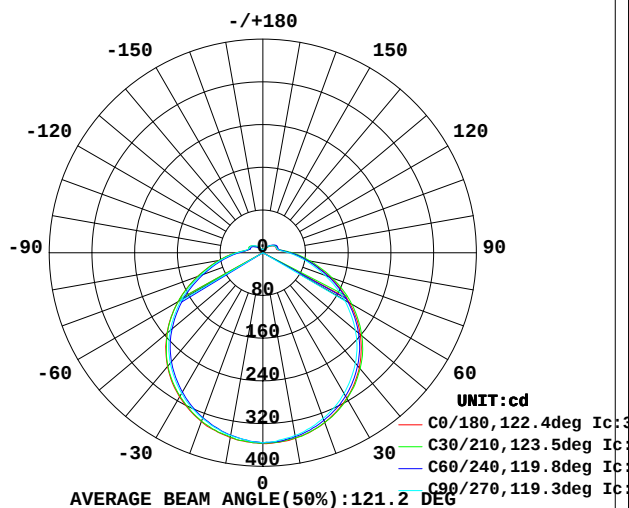


LUMINAIRE PHOTOMETRIC TEST REPORT

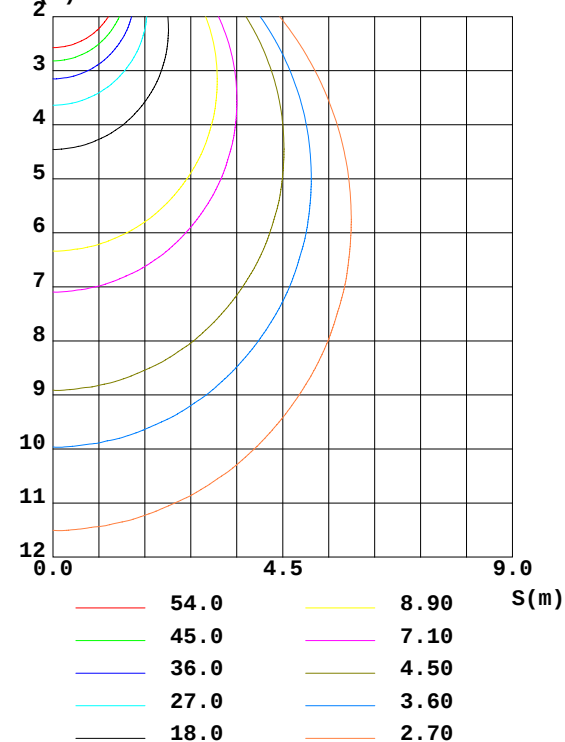
Test:U:120.2V I:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.94 lm/W			
MODEL	ASD-LFMDR-14D21DH-NK	I _{max} (cd)	357.7	S/MH(C0/180)	1.30
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1323.6	η UP, DN(C0-180)	5.5, 44.5
NOMINAL FLUX(lm)	1323.6	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	5.5, 44.4
LAMPS INSIDE	1	η up(%)	11.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	88.9	CIBSE SHR MAX	1.50

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:2025-11-12

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	352.7	350.4	347.4	347.2	351.4	347.2	347.4	350.4	0- 10	33.65	33.65	2.54, 2.54
20	338.4	336.5	330.2	329.0	336.5	329.0	330.2	336.5	10- 20	96.81	130.5	9.86, 9.86
30	314.5	313.0	304.2	302.0	311.7	302.0	304.2	313.0	20- 30	148.6	279.1	21.1, 21.1
40	281.3	280.3	269.8	266.9	277.9	266.9	269.8	280.3	30- 40	183.3	462.3	34.9, 34.9
50	238.5	238.7	226.5	221.4	234.4	221.4	226.5	238.7	40- 50	196.2	658.5	49.8, 49.8
60	187.3	187.7	176.2	170.3	183.4	170.3	176.2	187.7	50- 60	184.8	843.3	63.7, 63.7
70	133.3	134.4	124.1	118.1	130.2	118.1	124.1	134.4	60- 70	152.8	996.1	75.3, 75.3
80	86.11	88.14	79.35	75.38	83.82	75.38	79.35	88.14	70- 80	110.0	1106	83.6, 83.6
90	51.05	53.90	47.78	44.37	49.37	44.37	47.78	53.90	80- 90	71.02	1177	88.9, 88.9
100	29.63	32.69	30.79	29.18	29.22	29.18	30.79	32.69	90-100	42.22	1219	92.1, 92.1
110	26.68	29.23	27.22	25.54	27.41	25.54	27.22	29.23	100-110	29.92	1249	94.4, 94.4
120	24.82	28.08	25.26	22.17	25.04	22.17	25.26	28.08	110-120	26.63	1276	96.4, 96.4
130	19.53	21.74	20.72	17.47	20.32	17.47	20.72	21.74	120-130	20.49	1296	97.9, 97.9
140	14.33	15.96	16.49	11.72	15.07	11.72	16.49	15.96	130-140	13.41	1310	99, 99
150	9.641	9.086	12.02	8.247	9.803	8.247	12.02	9.086	140-150	7.807	1318	99.5, 99.5
160	6.845	7.417	7.871	5.768	6.460	5.768	7.871	7.417	150-160	3.773	1321	99.8, 99.8
170	5.731	5.326	5.402	5.134	5.246	5.134	5.402	5.326	160-170	1.736	1323	100, 100
180	5.272	5.253	5.199	5.242	5.242	5.242	5.199	5.253	170-180	0.4968	1324	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

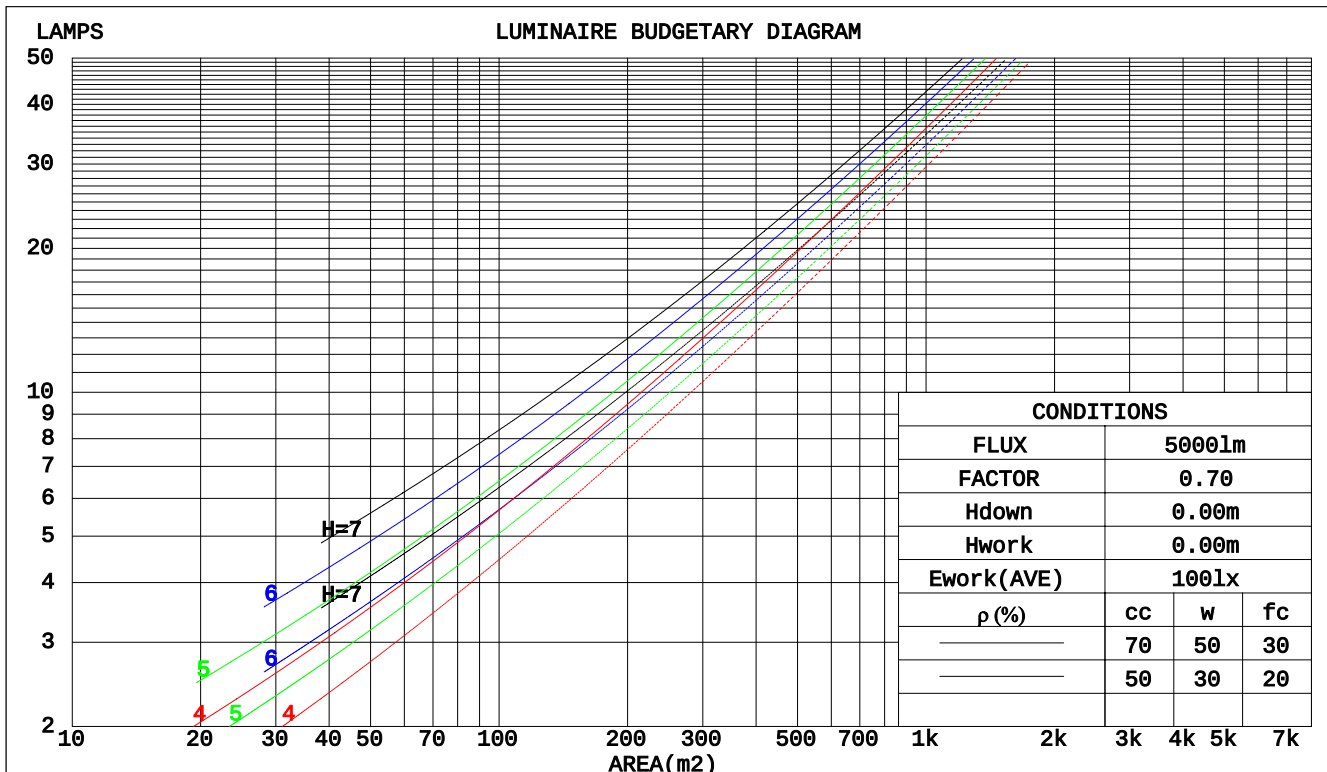
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-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	1.05	1.05	1.05	.98	.98	.98	.92	.92	.92	.89
1.0	.99	.94	.89	.95	.91	.87	.89	.85	.82	.83	.80	.78	.78	.76	.73	.71
2.0	.85	.78	.71	.82	.76	.70	.77	.71	.66	.72	.67	.63	.67	.64	.60	.57
3.0	.74	.66	.59	.72	.64	.57	.67	.60	.55	.63	.57	.53	.59	.54	.50	.48
4.0	.65	.56	.49	.63	.55	.48	.59	.52	.46	.56	.50	.45	.52	.47	.43	.40
5.0	.58	.49	.42	.56	.48	.41	.53	.46	.40	.50	.43	.38	.47	.41	.37	.34
6.0	.52	.43	.36	.51	.42	.36	.48	.40	.35	.45	.38	.33	.42	.37	.32	.30
7.0	.47	.38	.32	.46	.37	.31	.43	.36	.30	.41	.34	.29	.39	.33	.29	.26
8.0	.43	.34	.28	.42	.34	.28	.40	.32	.27	.37	.31	.26	.35	.30	.25	.23
9.0	.39	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.24	.33	.27	.23	.21
10.0	.36	.28	.23	.35	.28	.23	.34	.27	.22	.32	.26	.21	.30	.25	.21	.19



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm					
NAME: ASD-LFMDR-14D21DH-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 Coeffcients(WEC)										
0.0																	
1.0	.355	.202	.064	.345	.197	.062	.325	.186	.060	.307	.177	.057	.290	.168	.054		
2.0	.316	.173	.053	.307	.169	.052	.289	.161	.050	.273	.153	.048	.258	.146	.046		
3.0	.285	.152	.045	.277	.148	.045	.261	.141	.043	.246	.135	.041	.232	.129	.040		
4.0	.259	.135	.040	.252	.132	.039	.237	.126	.038	.224	.120	.036	.212	.115	.035		
5.0	.237	.121	.035	.230	.118	.034	.217	.113	.033	.205	.108	.032	.194	.104	.031		
6.0	.218	.110	.031	.212	.107	.031	.201	.103	.030	.190	.098	.029	.179	.094	.028		
7.0	.202	.100	.028	.197	.098	.028	.186	.094	.027	.176	.090	.026	.166	.086	.025		
8.0	.188	.092	.026	.183	.090	.025	.173	.087	.025	.164	.083	.024	.155	.080	.023		
9.0	.176	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.146	.074	.021		
10.0	.165	.079	.022	.160	.078	.022	.152	.075	.021	.144	.072	.020	.137	.069	.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	.275	.275	.275	.235	.235	.235	.160	.160	.160	.092	.092	.092	.029	.029	.029	
1.0	.268	.241	.216	.230	.207	.186	.157	.142	.128	.090	.082	.075	.029	.026	.024	
2.0	.261	.217	.181	.224	.187	.156	.153	.129	.109	.088	.075	.064	.028	.024	.021	
3.0	.253	.200	.158	.217	.173	.137	.149	.120	.096	.086	.070	.057	.028	.023	.019	
4.0	.246	.188	.143	.211	.162	.124	.145	.113	.088	.084	.066	.052	.027	.022	.017	
5.0	.238	.178	.133	.205	.154	.116	.141	.107	.082	.082	.063	.048	.026	.021	.016	
6.0	.231	.169	.125	.198	.147	.109	.137	.103	.077	.079	.060	.046	.026	.020	.015	
7.0	.224	.163	.120	.193	.141	.105	.133	.099	.074	.077	.058	.044	.025	.019	.015	
8.0	.217	.157	.116	.187	.136	.101	.129	.096	.072	.075	.056	.043	.024	.019	.014	
9.0	.211	.152	.113	.182	.132	.098	.126	.093	.070	.073	.055	.042	.024	.018	.014	
10.0	.205	.148	.110	.177	.129	.096	.123	.090	.068	.072	.053	.041	.023	.018	.013	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm											
NAME: ASD-LFMDR-14D21DH-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		16.9	18.3	17.3	18.7	19.1	16.6	18.1	17.1	18.5	18.9
3H		18.7	20.0	19.2	20.5	20.9	18.4	19.8	18.9	20.2	20.7
4H		19.6	20.9	20.1	21.3	21.8	19.3	20.6	19.8	21.0	21.5
6H		20.5	21.7	21.0	22.2	22.7	20.2	21.4	20.7	21.9	22.4
8H		21.0	22.2	21.5	22.6	23.2	20.7	21.8	21.2	22.3	22.8
12H		21.6	22.7	22.1	23.2	23.7	21.2	22.3	21.7	22.8	23.3
4H	2H	17.6	18.8	18.0	19.3	19.7	17.4	18.6	17.8	19.1	19.6
	3H	19.6	20.7	20.1	21.2	21.8	19.4	20.5	19.9	21.0	21.5
	4H	20.7	21.7	21.2	22.2	22.8	20.4	21.4	20.9	21.9	22.5
	6H	21.8	22.7	22.3	23.2	23.8	21.5	22.4	22.0	22.9	23.5
	8H	22.4	23.2	22.9	23.8	24.4	22.0	22.9	22.6	23.4	24.1
	12H	23.0	23.8	23.6	24.4	25.0	22.7	23.5	23.3	24.0	24.7
8H	4H	21.1	22.0	21.7	22.5	23.1	20.9	21.7	21.5	22.3	22.9
	6H	22.5	23.2	23.1	23.8	24.4	22.2	22.9	22.8	23.5	24.2
	8H	23.2	23.9	23.9	24.5	25.2	23.0	23.6	23.6	24.2	24.9
	12H	24.1	24.7	24.7	25.3	26.0	23.8	24.3	24.4	25.0	25.7
12H	4H	21.2	22.0	21.8	22.5	23.2	21.0	21.7	21.6	22.3	23.0
	6H	22.7	23.3	23.3	23.9	24.6	22.4	23.0	23.0	23.6	24.3
	8H	23.5	24.1	24.2	24.7	25.4	23.3	23.8	23.9	24.4	25.1
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 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1324 lm Total Lamp Luminous Flux.(8log(F/F₀) = 1.0)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

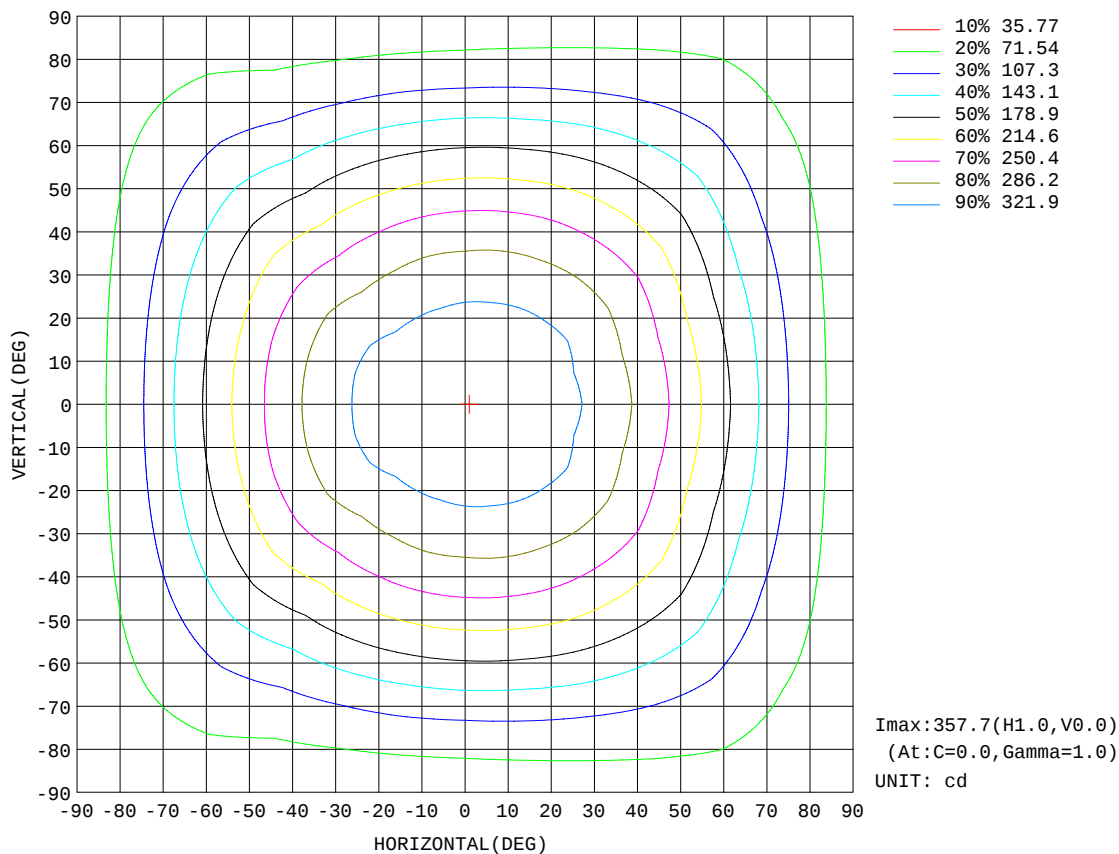
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	39	32	51	39	32	49	38	32	25
0.80	61	49	41	60	48	41	57	47	40	32
1.00	69	57	49	68	56	49	64	57	48	39
1.25	76	64	56	74	63	56	70	61	54	46
1.50	81	70	62	79	69	61	75	66	59	50
2.00	88	78	71	86	77	70	81	73	67	57
2.50	93	83	76	90	81	75	84	77	72	61
3.00	96	88	81	93	86	80	87	81	76	65
4.00	101	94	88	97	91	86	91	86	82	69
5.00	103	97	92	100	94	90	93	89	85	72
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:2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

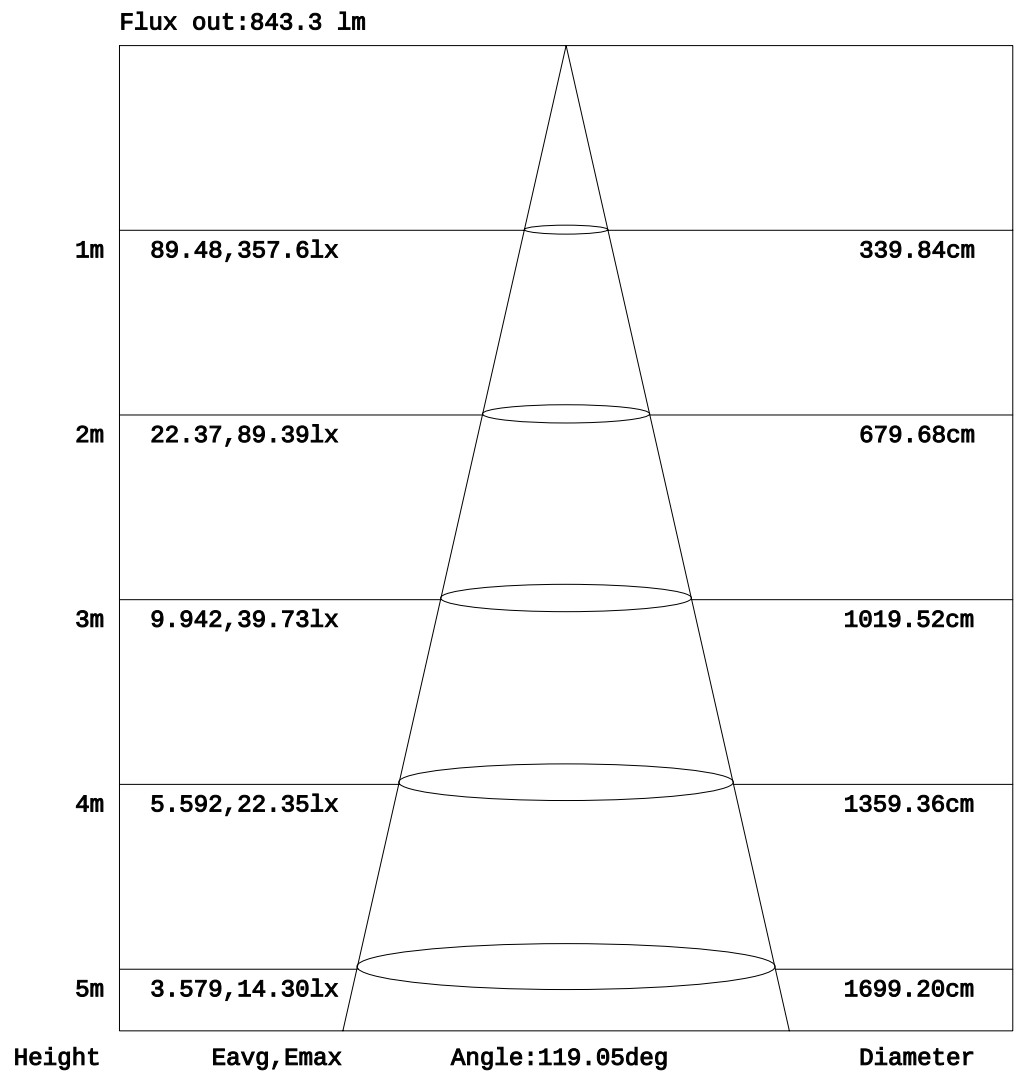


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



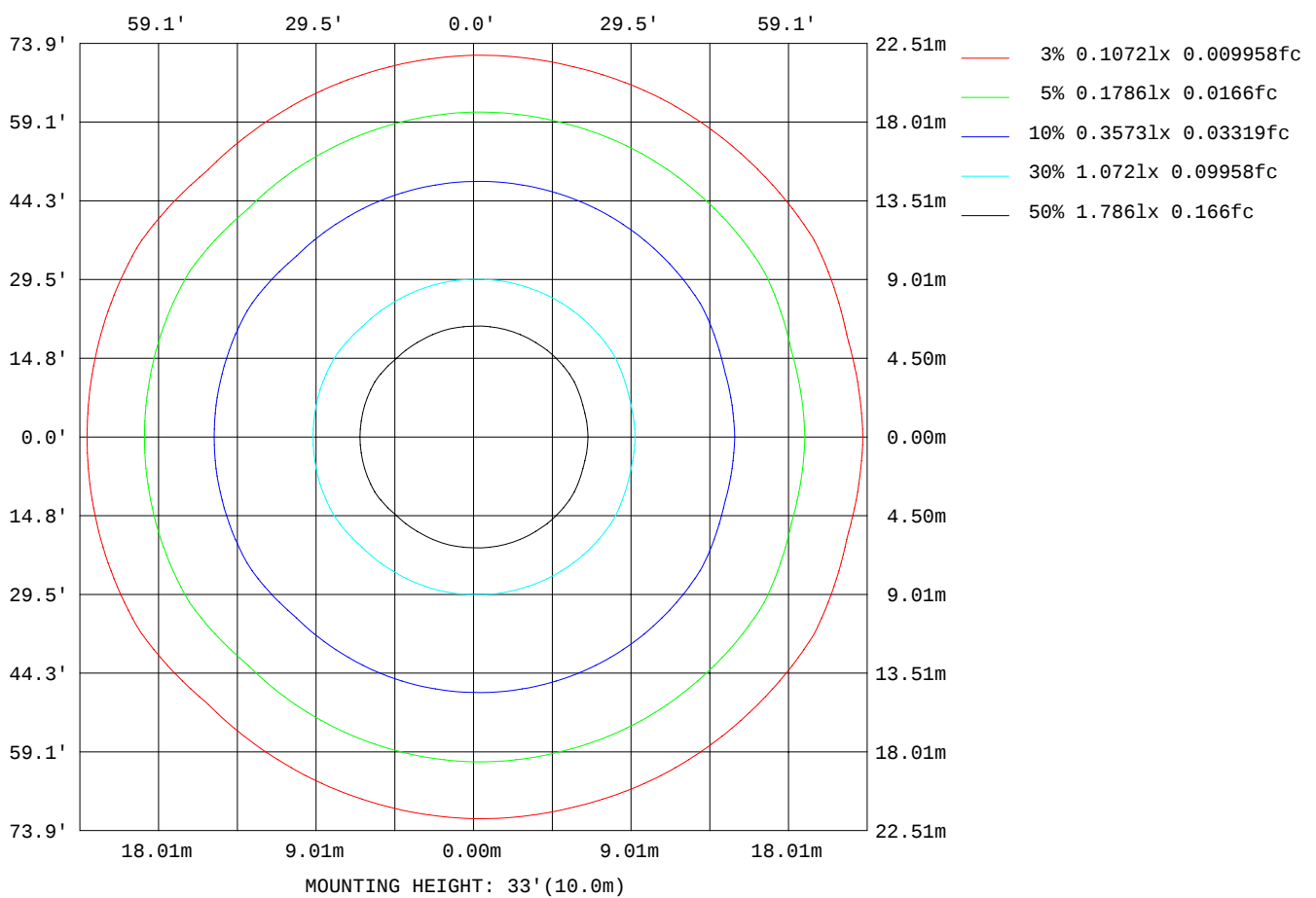
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-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: 2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-NK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

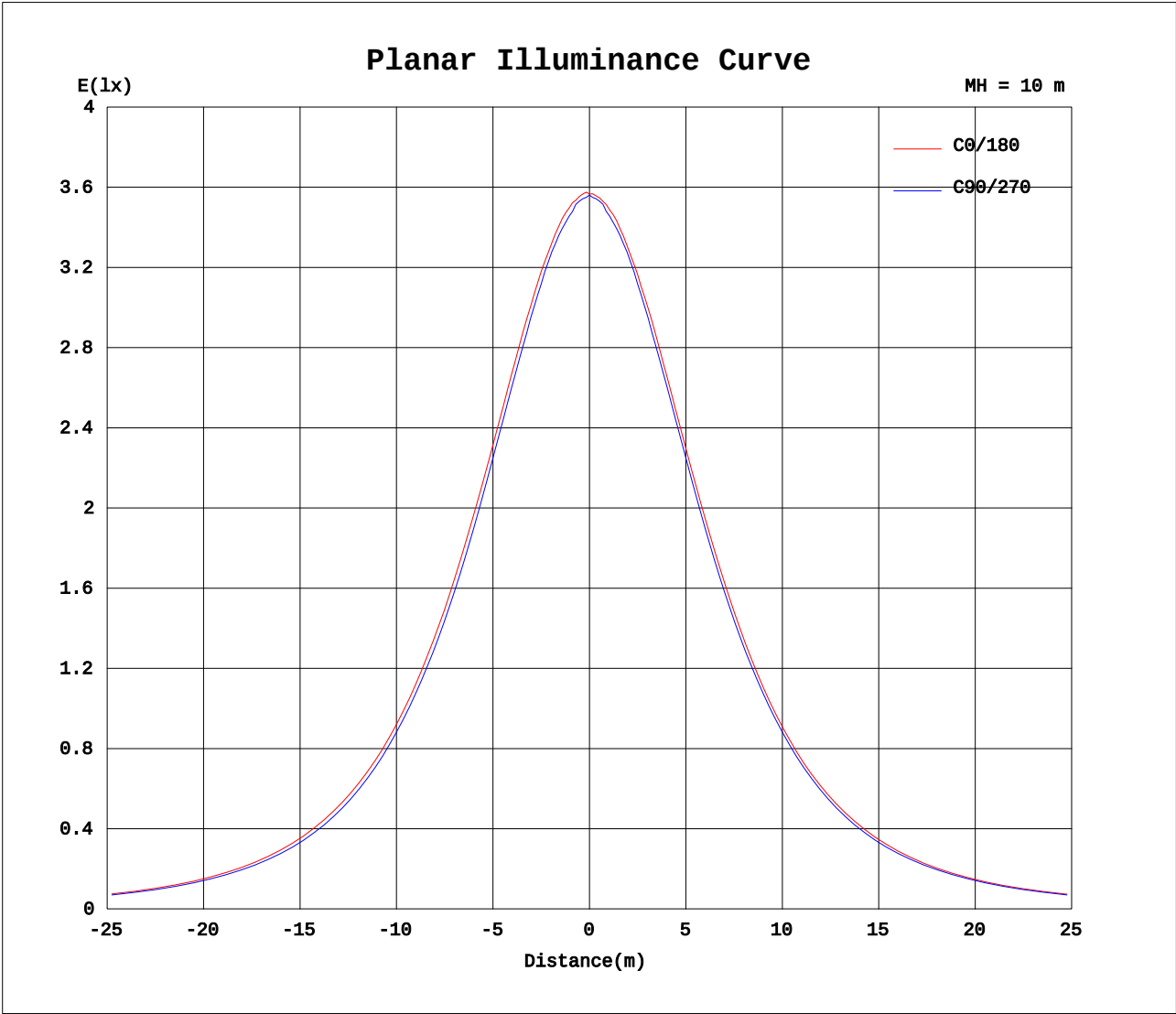
AvgL	cd/m2
L_0~180(65)av	3746
L_0~180(75)av	4108
L_0~180(85)av	7610
L_90~270(65)av	3557
L_90~270(75)av	3853
L_90~270(85)av	7118
L_45(65)av	3608
L_45(75)av	3959
L_45(85)av	7349

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-12

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:2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm																		
NAME: ASD-LFMDR-14D21DH-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	357	357	357	356	356	356	356	356	356	356	356	357	357	357	356	356	356	356	356
5	356	355	355	355	354	354	352	352	352	352	355	355	355	355	355	352	352	352	352
10	353	351	352	350	349	348	347	347	347	347	350	351	351	351	350	347	347	347	347
15	347	345	347	345	343	341	340	339	339	339	344	345	345	345	344	339	339	339	340
20	338	336	338	337	334	332	330	330	329	329	336	336	337	336	336	329	329	330	330
25	327	325	329	325	323	320	319	317	316	317	324	325	325	325	324	317	316	317	319
30	315	312	316	313	310	307	304	303	301	302	310	312	312	312	310	302	301	303	304
35	299	297	301	298	294	291	288	287	285	285	295	296	296	296	295	285	285	287	288
40	281	278	284	280	276	273	270	268	267	267	277	278	278	278	277	267	267	268	270
45	261	258	264	260	257	253	249	247	246	246	256	258	257	258	256	246	246	247	249
50	238	236	242	239	234	230	226	223	222	221	234	235	234	235	234	221	222	223	226
55	214	210	218	213	210	205	201	199	197	196	209	209	210	209	209	196	197	199	201
60	187	184	192	188	184	179	176	173	171	170	183	183	183	183	183	170	171	173	176
65	160	157	166	161	158	153	150	147	145	144	156	157	156	157	156	144	145	147	150
70	133	130	139	134	131	126	124	121	119	118	130	130	130	130	130	118	119	121	124
75	108	106	112	110	106	103	99.7	98.3	95.6	95.2	105	106	105	106	105	95.2	95.6	98.3	99.7
80	86.1	84.6	90.4	88.1	84.8	82.0	79.3	77.6	75.6	75.4	83.5	84.4	83.8	84.4	83.5	75.4	75.6	77.6	79.3
85	67.3	66.3	71.6	69.5	67.0	64.4	62.0	60.3	58.7	58.6	65.4	66.1	65.3	66.1	65.4	58.6	58.7	60.3	62.0
90	51.1	50.6	55.3	53.9	51.7	50.0	47.8	46.4	44.8	44.4	49.9	50.2	49.4	50.2	49.9	44.4	44.8	46.4	47.8
95	38.0	38.0	41.6	41.1	39.8	38.4	37.1	36.2	35.0	34.4	37.7	37.8	36.9	37.8	37.7	34.4	35.0	36.2	37.1
100	29.6	30.1	32.5	32.7	32.3	31.5	30.8	30.7	29.5	29.2	30.2	30.1	29.2	30.1	30.2	29.2	29.5	30.7	30.8
105	26.7	27.4	28.4	29.1	29.7	29.8	27.8	27.0	25.0	27.0	28.0	28.0	27.6	28.0	28.0	27.0	25.0	27.0	27.8
110	26.7	27.4	28.2	29.2	29.5	29.5	27.2	25.4	24.6	25.5	28.3	27.6	27.4	27.6	28.3	25.5	24.6	25.4	27.2
115	26.2	26.6	28.3	29.2	29.4	28.9	26.7	24.9	24.3	24.3	27.7	27.5	27.1	27.5	27.7	24.3	24.3	24.9	26.7
120	24.8	24.8	27.0	28.1	28.3	27.1	25.3	23.0	22.7	22.2	25.5	25.7	25.0	25.7	25.5	22.2	22.7	23.0	25.3
125	22.5	22.2	24.8	25.1	25.5	24.5	23.3	21.0	19.8	19.6	22.4	23.2	22.8	23.2	22.4	19.6	19.8	21.0	23.3
130	19.5	18.6	20.6	21.7	22.6	22.0	20.7	18.4	16.9	17.5	19.4	20.6	20.3	20.6	19.4	17.5	16.9	18.4	20.7
135	16.6	15.9	17.7	19.0	19.7	19.3	18.5	16.1	14.7	14.9	16.3	18.0	17.6	18.0	16.3	14.9	14.7	16.1	18.5
140	14.3	14.3	14.7	16.0	16.6	16.9	16.5	14.3	12.0	11.7	13.7	15.4	15.1	15.4	13.7	11.7	12.0	14.3	16.5
145	12.3	12.7	12.0	12.0	13.5	14.4	14.6	12.7	9.91	9.70	11.6	13.1	12.7	13.1	11.6	9.70	9.91	12.7	14.6
150	9.64	9.65	9.26	9.09	10.3	11.8	12.0	10.3	8.63	8.25	9.53	10.1	9.80	10.1	9.53	8.25	8.63	10.3	12.0
155	7.58	7.30	7.52	7.27	7.80	8.82	9.44	8.56	7.26	6.79	7.88	8.25	7.72	8.25	7.88	6.79	7.26	8.56	9.44
160	6.84	6.63	7.33	7.42	6.87	7.06	7.87	7.31	6.18	5.77	6.27	6.77	6.46	6.77	6.27	5.77	6.18	7.31	7.87
165	5.69	5.84	6.84	6.93	6.18	6.40	6.25	6.05	5.36	5.26	5.45	5.79	5.73	5.79	5.45	5.26	5.36	6.05	6.25
170	5.73	5.26	5.33	5.33	5.33	5.30	5.40	5.26	5.15	5.13	5.15	5.20	5.25	5.20	5.15	5.13	5.15	5.26	5.40
175	5.17	5.24	5.22	5.21	5.20	5.16	5.12	5.13	5.14	5.16	5.19	5.18	5.17	5.18	5.19	5.16	5.14	5.13	5.12
180	5.27	5.27	5.26	5.25	5.21	5.21	5.20	5.20	5.23	5.24	5.20	5.23	5.24	5.23	5.20	5.24	5.23	5.20	5.20

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-12

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:0.1901A P:21.03W PF:0.9202 Lamp Flux:1323.6x1 lm		
NAME: ASD-LFMDR-14D21DH-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	356	356	356	357	357													
5	354	354	355	355	355													
10	348	349	350	352	351													
15	341	343	345	347	345													
20	332	334	337	338	336													
25	320	323	325	329	325													
30	307	310	313	316	312													
35	291	294	298	301	297													
40	273	276	280	284	278													
45	253	257	260	264	258													
50	230	234	239	242	236													
55	205	210	213	218	210													
60	179	184	188	192	184													
65	153	158	161	166	157													
70	126	131	134	139	130													
75	103	106	110	112	106													
80	82.0	84.8	88.1	90.4	84.6													
85	64.4	67.0	69.5	71.6	66.3													
90	50.0	51.7	53.9	55.3	50.6													
95	38.4	39.8	41.1	41.6	38.0													
100	31.5	32.3	32.7	32.5	30.1													
105	29.8	29.7	29.1	28.4	27.4													
110	29.5	29.5	29.2	28.2	27.4													
115	28.9	29.4	29.2	28.3	26.6													
120	27.1	28.3	28.1	27.0	24.8													
125	24.5	25.5	25.1	24.8	22.2													
130	22.0	22.6	21.7	20.6	18.6													
135	19.3	19.7	19.0	17.7	15.9													
140	16.9	16.6	16.0	14.7	14.3													
145	14.4	13.5	12.0	12.0	12.7													
150	11.8	10.3	9.09	9.26	9.65													
155	8.82	7.80	7.27	7.52	7.30													
160	7.06	6.87	7.42	7.33	6.63													
165	6.40	6.18	6.93	6.84	5.84													
170	5.30	5.33	5.33	5.33	5.26													
175	5.16	5.20	5.21	5.22	5.24													
180	5.21	5.21	5.25	5.26	5.27													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-12

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: