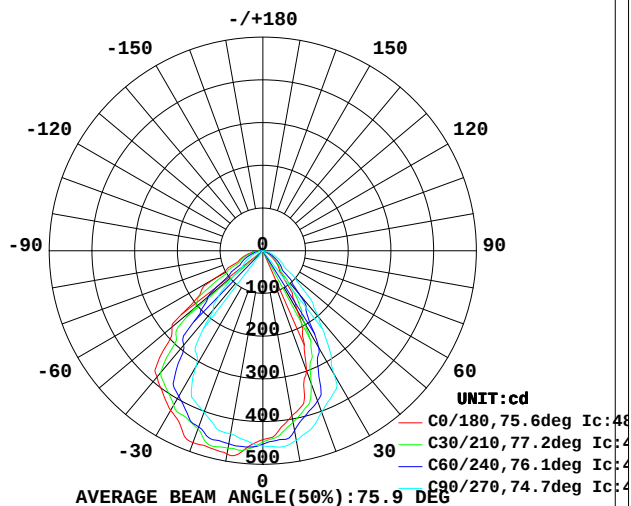


LUMINAIRE PHOTOMETRIC TEST REPORT

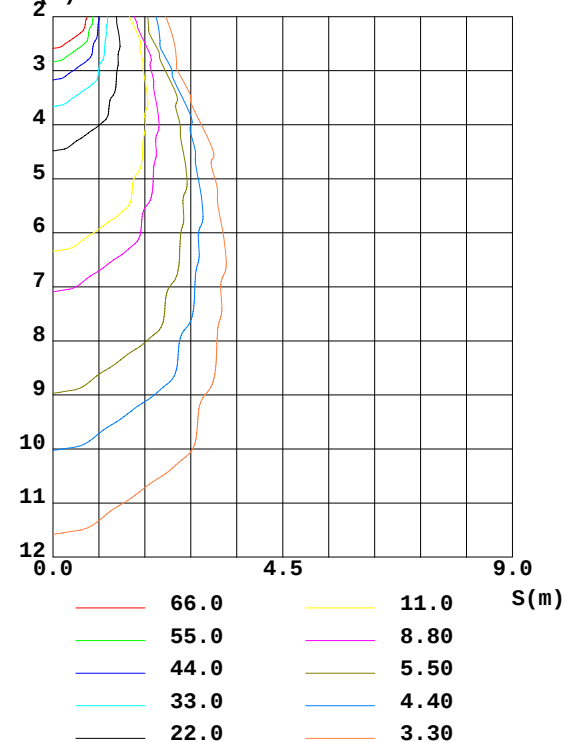
Test:U:120.1V I:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96 lm/W			
MODEL	ASD-LCLR-1A-9BK	I _{max} (cd)	495.6	S/MH(C0/180)	1.42
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.09
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	870	η UP, DN(C0-180)	1.1, 46.6
NOMINAL FLUX(lm)	870	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.2, 51.2
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120	η down(%)	97.7	CIBSE SHR MAX	1.10

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:2025-04-30

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	392.4	416.4	450.8	481.1	483.0	472.8	435.2	415.1	0- 10	42.95	42.95	5.57,5.57
20	299.4	366.5	401.9	438.8	478.0	435.2	402.8	365.2	10- 20	119.7	162.7	21.1,21.1
30	161.8	242.9	333.9	400.6	431.9	409.0	313.7	221.5	20- 30	164.6	327.3	42.4,42.4
40	61.17	113.2	204.5	330.2	385.6	316.7	180.7	101.9	30- 40	165.9	493.1	63.9,63.9
50	37.81	49.93	99.14	191.0	278.1	204.1	81.03	49.87	40- 50	125.7	618.8	80.2,80.2
60	15.55	24.80	47.25	74.92	129.3	65.93	43.43	24.93	50- 60	74.29	693.1	89.8,89.8
70	3.516	7.666	22.69	42.23	55.02	41.39	20.09	8.039	60- 70	36.06	729.2	94.5,94.5
80	2.068	2.083	6.682	18.66	29.18	18.52	5.752	2.477	70- 80	17.97	747.1	96.8,96.8
90	2.026	2.010	2.053	4.743	10.29	4.929	2.318	2.334	80- 90	7.203	754.3	97.7,97.7
100	2.091	2.080	1.987	2.022	2.645	2.399	2.288	2.364	90-100	2.917	757.3	98.1,98.1
110	2.322	2.280	2.041	2.026	2.384	2.322	2.376	2.526	100-110	2.369	759.6	98.4,98.4
120	2.653	2.596	2.260	2.118	2.392	2.388	2.600	2.838	110-120	2.356	762.0	98.7,98.7
130	2.988	2.970	2.576	2.357	2.534	2.596	2.931	3.196	120-130	2.350	764.3	99,99
140	3.258	3.320	2.957	2.696	2.793	2.938	3.305	3.516	130-140	2.272	766.6	99.3,99.3
150	3.485	3.601	3.312	3.058	3.116	3.300	3.628	3.774	140-150	2.044	768.6	99.6,99.6
160	3.751	3.886	3.628	3.382	3.409	3.593	3.894	3.951	150-160	1.642	770.3	99.8,99.8
170	3.959	4.121	3.940	3.721	3.690	3.890	4.113	4.055	160-170	1.079	771.4	100,100
180	3.959	4.179	4.179	4.032	3.932	4.167	4.186	4.036	170-180	0.3813	771.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

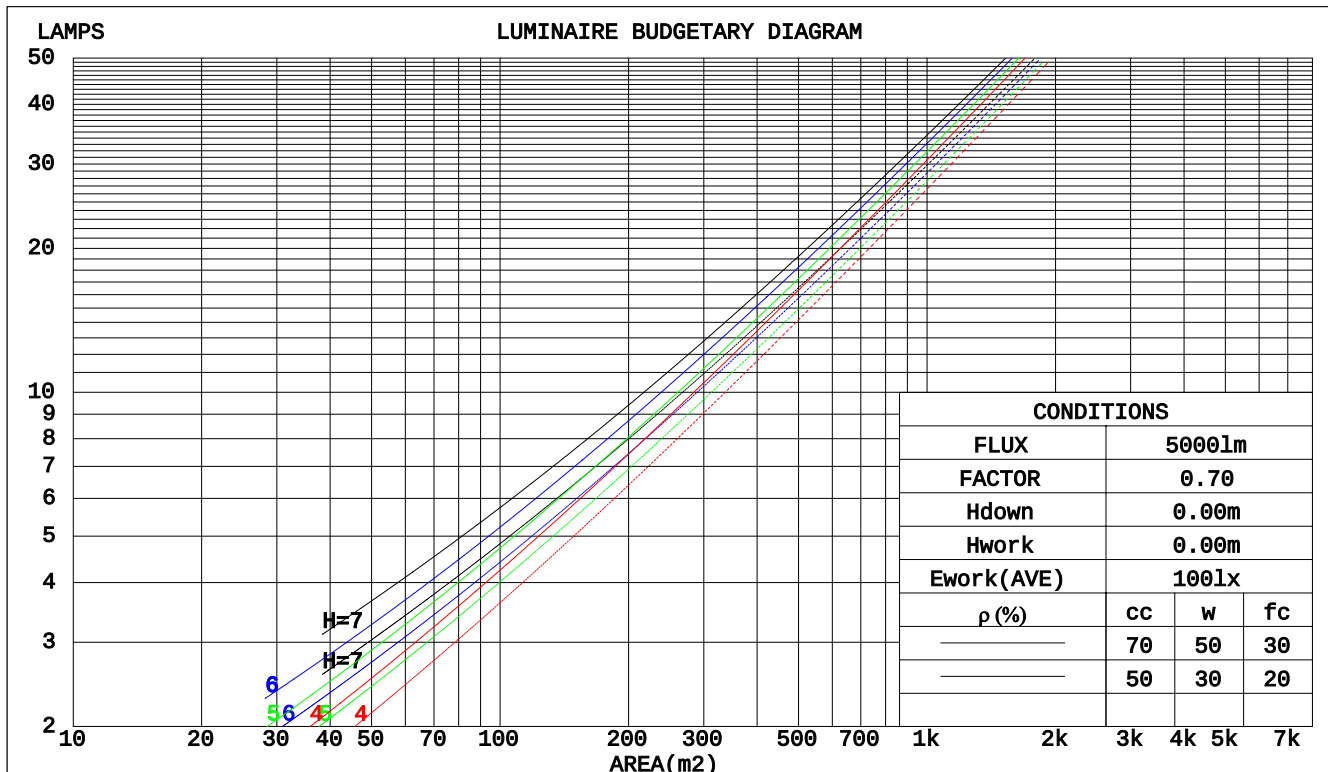
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	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	1.19	1.19	1.19	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.07	1.03	1.00	1.04	1.01	.99	.00	.97	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.91	.86	.94	.89	.85	.90	.86	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.87	.80	.75	.85	.79	.74	.82	.77	.73	.79	.75	.71	.77	.73	.70	.68
4.0	.79	.72	.66	.77	.71	.65	.75	.69	.64	.72	.67	.63	.70	.66	.62	.60
5.0	.72	.64	.59	.71	.64	.58	.68	.62	.58	.66	.61	.57	.64	.60	.56	.54
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.61	.56	.51	.60	.55	.51	.49
7.0	.61	.53	.48	.60	.53	.47	.58	.52	.47	.57	.51	.47	.55	.50	.46	.44
8.0	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.51	.46	.42	.40
9.0	.52	.45	.40	.51	.44	.40	.50	.44	.39	.49	.43	.39	.48	.43	.39	.37
10.0	.48	.41	.37	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.39	.36	.34



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm					
NAME:ASD-LCLR-1A-9BK			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	.242	.138	.044	.235	.134	.043	.220	.126	.040	.207	.120	.038	.195	.113	.036		
2.0	.231	.127	.039	.225	.124	.038	.212	.118	.037	.201	.113	.035	.190	.108	.034		
3.0	.218	.116	.035	.212	.114	.034	.202	.109	.033	.192	.105	.032	.182	.101	.031		
4.0	.205	.107	.031	.200	.105	.031	.190	.101	.030	.182	.098	.029	.173	.094	.029		
5.0	.193	.098	.028	.188	.097	.028	.180	.094	.028	.172	.091	.027	.165	.088	.026		
6.0	.182	.091	.026	.178	.090	.026	.170	.087	.025	.163	.085	.025	.156	.082	.024		
7.0	.171	.085	.024	.168	.084	.024	.161	.081	.023	.154	.079	.023	.148	.077	.023		
8.0	.162	.079	.022	.159	.078	.022	.153	.076	.022	.147	.074	.021	.141	.073	.021		
9.0	.153	.074	.021	.150	.073	.021	.145	.072	.020	.140	.070	.020	.135	.068	.020		
10.0	.145	.070	.019	.143	.069	.019	.138	.067	.019	.133	.066	.019	.128	.065	.019		

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	.208	.208	.208	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022		
1.0	.193	.174	.157	.165	.149	.135	.113	.103	.093	.065	.059	.054	.021	.019	.018		
2.0	.182	.150	.123	.156	.129	.106	.107	.089	.074	.061	.052	.043	.020	.017	.014		
3.0	.172	.131	.099	.147	.113	.086	.101	.079	.060	.058	.046	.036	.019	.015	.012		
4.0	.164	.118	.082	.140	.102	.072	.097	.071	.050	.056	.041	.030	.018	.014	.010		
5.0	.156	.107	.070	.134	.092	.061	.092	.065	.043	.053	.038	.026	.017	.012	.008		
6.0	.149	.098	.061	.128	.085	.054	.088	.059	.038	.051	.035	.023	.017	.011	.007		
7.0	.143	.091	.055	.123	.079	.048	.085	.055	.034	.049	.033	.020	.016	.011	.007		
8.0	.137	.085	.050	.118	.074	.043	.082	.052	.031	.047	.031	.018	.015	.010	.006		
9.0	.132	.080	.045	.113	.070	.040	.079	.049	.028	.046	.029	.017	.015	.009	.006		
10.0	.126	.076	.042	.109	.066	.037	.076	.046	.026	.044	.027	.016	.014	.009	.005		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm											
NAME:ASD-LCLR-1A-9BK						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	3H	6.2	7.4	6.4	7.6	7.9	10.1	11.3	10.4	11.5	11.8
	4H	6.1	7.3	6.4	7.5	7.8	10.6	11.7	10.9	12.0	12.3
	6H	6.1	7.1	6.4	7.4	7.7	10.8	11.8	11.1	12.1	12.4
	8H	6.0	7.0	6.4	7.3	7.6	10.8	11.8	11.2	12.1	12.4
	12H	6.0	7.0	6.4	7.3	7.6	10.8	11.8	11.2	12.1	12.4
	4H	6.0	7.0	6.4	7.3	7.6	10.8	11.7	11.2	12.1	12.4
4H	2H	6.4	7.5	6.8	7.8	8.1	9.9	11.0	10.3	11.3	11.6
	3H	6.4	7.4	6.8	7.7	8.0	10.5	11.5	10.9	11.8	12.1
	4H	6.4	7.2	6.8	7.6	7.9	10.7	11.6	11.1	11.9	12.3
	6H	6.4	7.1	6.8	7.5	7.9	10.8	11.6	11.2	11.9	12.3
	8H	6.4	7.1	6.8	7.5	7.9	10.8	11.5	11.3	11.9	12.3
	12H	6.5	7.1	6.9	7.5	8.0	10.9	11.5	11.3	11.9	12.3
8H	4H	6.3	7.0	6.8	7.4	7.9	10.6	11.3	11.0	11.7	12.1
	6H	6.4	6.9	6.8	7.4	7.9	10.7	11.3	11.2	11.7	12.2
	8H	6.5	7.0	6.9	7.4	7.9	10.7	11.2	11.2	11.7	12.2
	12H	6.6	7.0	7.1	7.5	8.0	10.8	11.2	11.3	11.7	12.2
12H	4H	6.3	6.9	6.8	7.4	7.8	10.5	11.2	11.0	11.6	12.0
	6H	6.4	6.9	6.8	7.3	7.8	10.7	11.2	11.2	11.6	12.1
	8H	6.5	6.9	7.0	7.4	7.9	10.7	11.1	11.2	11.6	12.1
Variations with the observer position at spacings:											
S = 1.0H		+ 1.1 / - 1.5					+ 1.8 / - 1.4				
1.5H		+ 0.7 / - 0.9					+ 2.9 / - 2.2				
2.0H		+ 1.5 / - 2.2					+ 4.5 / - 2.6				

CIE Pub.117 Corrected 771.7 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.9)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

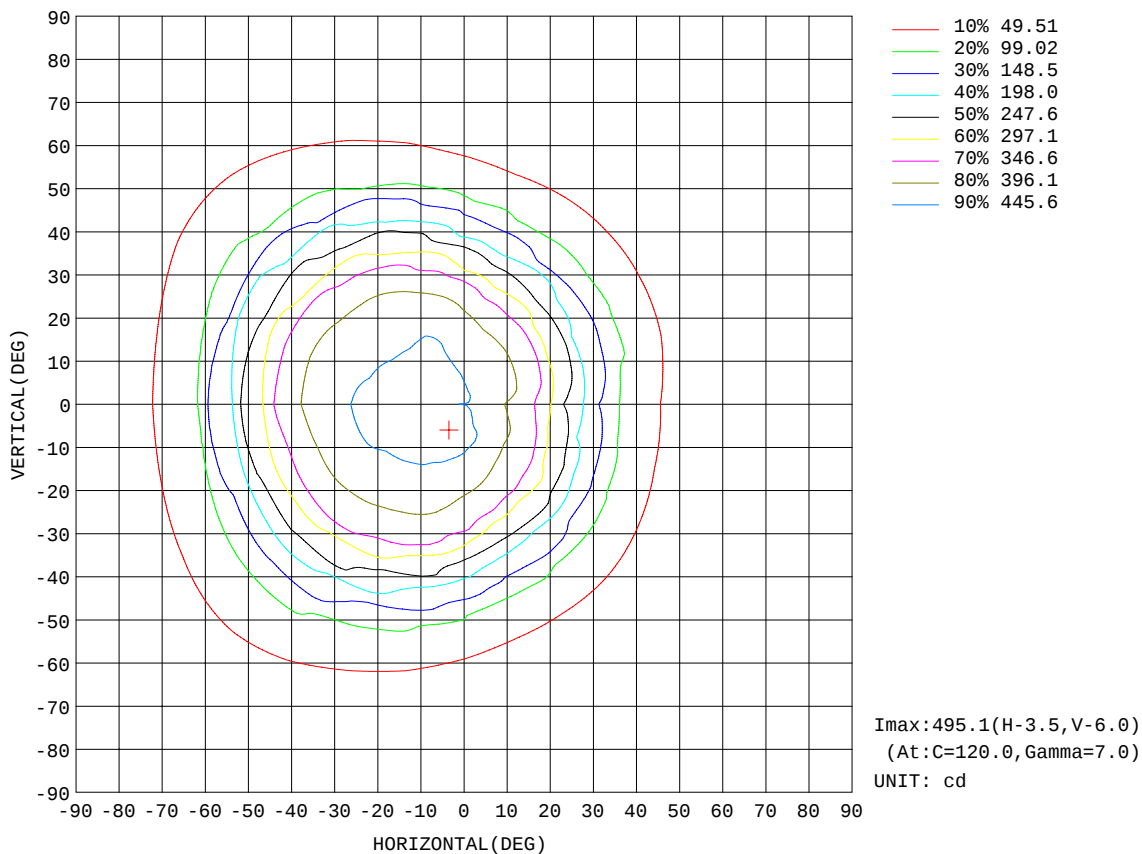
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	54	68	59	53	67	58	53	48
0.80	78	69	63	77	69	63	76	68	63	57
1.00	86	77	71	85	76	71	82	77	70	65
1.25	92	84	78	90	83	78	88	81	77	71
1.50	96	88	83	94	87	82	91	86	81	75
2.00	101	94	90	99	93	89	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	82
3.00	106	101	97	104	99	96	100	96	93	85
4.00	109	105	101	107	103	100	102	99	97	88
5.00	111	107	104	108	105	102	104	101	99	90
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:2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

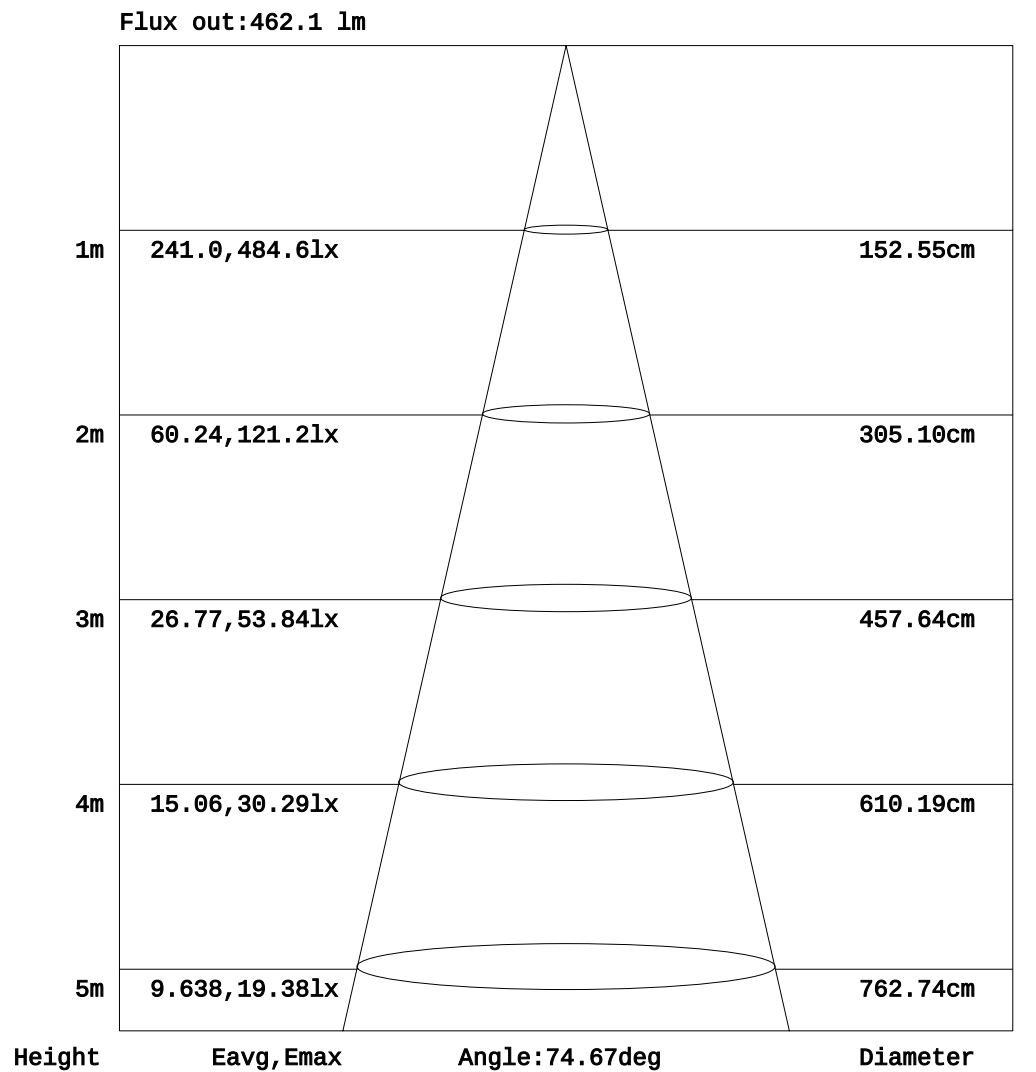


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



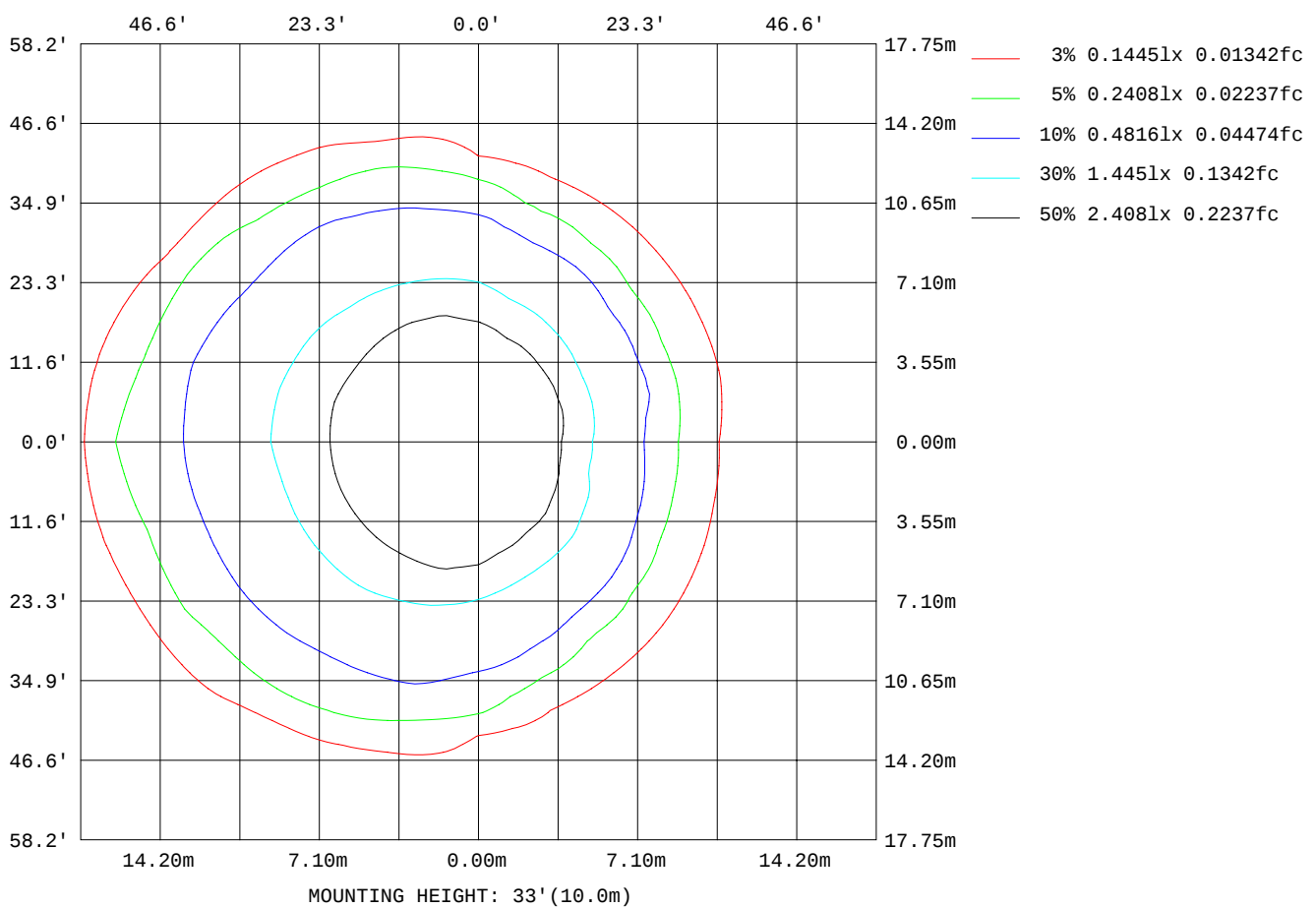
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	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: 2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

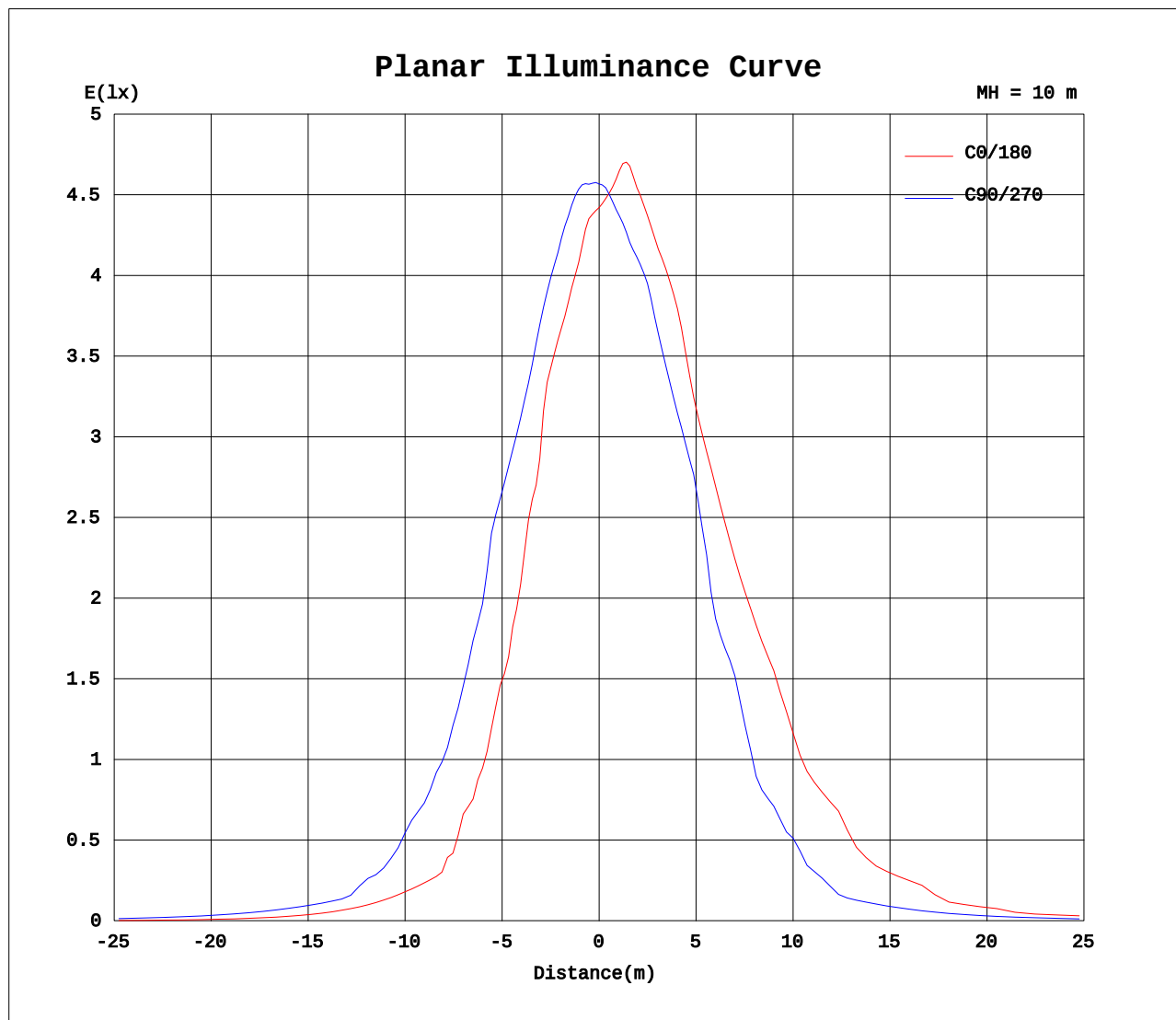
AvgL	cd/m2
L_0~180(65)av	935
L_0~180(75)av	853
L_0~180(85)av	1177
L_90~270(65)av	770
L_90~270(75)av	487
L_90~270(85)av	320
L_45(65)av	826
L_45(75)av	631
L_45(85)av	721

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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: 2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°) γ (°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	442	444	448	452	453	455	457	455	456	454	451	448	442	444	448	452	453	455	457
5	423	426	435	441	444	448	461	469	480	479	473	470	465	468	467	466	461	453	446
10	392	399	408	416	427	441	451	463	472	481	481	478	483	475	469	473	459	445	435
15	370	375	382	387	396	411	433	441	447	459	473	476	478	473	473	474	458	438	428
20	299	297	332	367	374	388	402	422	432	439	450	470	478	461	444	435	439	424	403
25	220	250	274	300	308	355	378	399	414	429	436	445	454	437	429	427	419	402	384
30	162	175	193	243	263	274	334	378	388	401	413	431	432	429	418	409	394	378	314
35	121	107	145	152	180	210	265	323	364	379	391	397	408	409	394	383	360	314	276
40	61.2	62.1	84.0	113	132	161	205	269	295	330	356	373	386	381	372	317	289	254	181
45	50.9	52.3	56.3	60.6	67.0	109	154	185	217	271	282	306	329	316	287	252	208	177	145
50	37.8	39.2	44.3	49.9	54.8	60.3	99.1	126	148	191	223	246	278	252	207	204	168	126	81.0
55	25.5	26.8	31.2	36.8	42.4	50.0	58.6	79.9	105	135	149	156	180	197	169	116	92.9	64.5	55.3
60	15.6	16.5	20.0	24.8	29.7	37.0	47.2	55.9	61.0	74.9	93.9	114	129	114	95.2	65.9	59.0	52.8	43.4
65	8.14	8.78	11.4	14.9	18.9	24.9	34.3	43.2	49.6	55.4	59.1	61.1	70.9	64.9	59.1	53.9	48.3	40.4	30.8
70	3.52	3.85	5.34	7.67	10.5	15.1	22.7	30.3	36.1	42.2	46.8	49.5	55.0	53.4	47.9	41.4	35.4	28.2	20.1
75	2.18	2.16	2.42	3.29	4.83	7.83	13.5	19.5	24.2	29.3	33.4	35.9	41.9	40.3	34.9	29.0	24.0	17.9	11.8
80	2.07	2.03	2.06	2.08	2.27	3.38	6.68	11.1	14.6	18.7	21.8	24.0	29.2	27.8	23.3	18.5	14.6	9.98	5.75
85	2.04	2.03	2.03	2.00	2.03	2.07	2.85	5.13	7.49	10.4	12.8	14.4	18.5	17.4	13.9	10.4	7.56	4.71	2.74
90	2.03	2.03	2.01	2.01	1.99	1.98	2.05	2.35	3.21	4.74	6.23	7.26	10.3	9.48	7.11	4.93	3.45	2.54	2.32
95	2.03	2.07	2.01	2.03	1.99	1.99	2.00	1.99	2.11	2.27	2.72	3.15	4.86	4.43	3.28	2.61	2.40	2.35	2.29
100	2.09	2.14	2.07	2.08	2.01	2.01	1.99	1.99	2.02	2.02	2.09	2.09	2.65	2.62	2.43	2.40	2.32	2.30	2.29
105	2.20	2.25	2.17	2.16	2.08	2.06	1.99	2.00	2.01	2.01	2.05	2.03	2.44	2.45	2.38	2.35	2.30	2.29	2.31
110	2.32	2.38	2.30	2.28	2.19	2.15	2.04	2.04	2.00	2.03	2.02	2.03	2.38	2.39	2.35	2.32	2.31	2.29	2.38
115	2.48	2.54	2.45	2.42	2.32	2.27	2.14	2.11	2.03	2.06	2.02	2.04	2.38	2.38	2.35	2.33	2.36	2.38	2.47
120	2.65	2.73	2.62	2.60	2.48	2.42	2.26	2.21	2.12	2.12	2.06	2.08	2.39	2.38	2.39	2.39	2.44	2.46	2.60
125	2.83	2.90	2.82	2.78	2.66	2.60	2.40	2.34	2.24	2.23	2.14	2.15	2.45	2.41	2.47	2.46	2.55	2.59	2.76
130	2.99	3.08	3.00	2.97	2.85	2.77	2.58	2.49	2.38	2.36	2.25	2.26	2.53	2.51	2.58	2.60	2.70	2.75	2.93
135	3.14	3.23	3.18	3.15	3.03	2.97	2.76	2.68	2.56	2.51	2.40	2.40	2.65	2.63	2.73	2.75	2.87	2.93	3.12
140	3.26	3.36	3.32	3.32	3.22	3.15	2.96	2.86	2.74	2.70	2.58	2.57	2.79	2.78	2.89	2.94	3.04	3.12	3.30
145	3.37	3.47	3.44	3.45	3.37	3.33	3.15	3.05	2.94	2.87	2.75	2.75	2.95	2.95	3.07	3.11	3.23	3.31	3.48
150	3.49	3.60	3.58	3.60	3.51	3.49	3.31	3.23	3.10	3.06	2.94	2.93	3.12	3.12	3.24	3.30	3.41	3.48	3.63
155	3.62	3.73	3.72	3.74	3.67	3.64	3.47	3.40	3.27	3.22	3.10	3.10	3.27	3.30	3.40	3.44	3.56	3.62	3.76
160	3.75	3.89	3.86	3.89	3.82	3.79	3.63	3.56	3.43	3.38	3.27	3.26	3.41	3.43	3.55	3.59	3.71	3.76	3.89
165	3.88	4.00	3.99	4.02	3.95	3.94	3.79	3.72	3.60	3.55	3.43	3.42	3.54	3.57	3.70	3.75	3.85	3.90	4.01
170	3.96	4.05	4.07	4.12	4.07	4.07	3.94	3.88	3.76	3.72	3.60	3.59	3.69	3.74	3.86	3.89	4.00	4.02	4.11
175	3.99	4.05	4.11	4.18	4.18	4.17	4.06	4.03	3.93	3.90	3.79	3.77	3.84	3.88	4.02	4.05	4.13	4.12	4.18
180	3.96	4.01	4.11	4.18	4.18	4.19	4.18	4.14	4.07	4.03	3.93	3.91	3.93	4.01	4.11	4.17	4.18	4.19	4.19

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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:0.0865A P:10.21W PF:0.9825 Lamp Flux:870x1 lm		
NAME:ASD-LCLR-1A-9BK	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	455	456	454	451	448														
5	441	439	436	433	432														
10	433	423	415	412	409														
15	413	402	396	390	384														
20	386	380	365	344	322														
25	334	316	287	279	270														
30	283	250	222	192	187														
35	210	196	166	152	127														
40	161	127	102	98.8	83.2														
45	101	75.9	60.3	57.8	56.0														
50	58.4	54.5	49.9	46.2	43.7														
55	47.4	42.1	36.9	33.1	30.9														
60	34.6	29.6	24.9	21.9	19.9														
65	23.2	19.0	15.3	12.8	11.4														
70	14.0	10.8	8.04	6.36	5.50														
75	7.23	5.16	3.65	2.98	2.71														
80	3.29	2.60	2.48	2.39	2.43														
85	2.41	2.37	2.38	2.34	2.38														
90	2.33	2.31	2.33	2.34	2.35														
95	2.30	2.31	2.33	2.35	2.35														
100	2.30	2.34	2.36	2.40	2.39														
105	2.32	2.40	2.41	2.49	2.48														
110	2.40	2.50	2.53	2.62	2.60														
115	2.52	2.64	2.68	2.77	2.76														
120	2.69	2.80	2.84	2.93	2.93														
125	2.84	2.97	3.02	3.12	3.10														
130	3.04	3.16	3.20	3.29	3.28														
135	3.22	3.35	3.37	3.45	3.44														
140	3.39	3.50	3.52	3.59	3.56														
145	3.55	3.65	3.65	3.71	3.67														
150	3.67	3.77	3.77	3.81	3.76														
155	3.80	3.89	3.87	3.91	3.85														
160	3.92	3.99	3.95	3.99	3.93														
165	4.04	4.08	4.04	4.03	3.99														
170	4.10	4.11	4.06	4.02	3.99														
175	4.13	4.11	4.06	3.99	3.99														
180	4.14	4.09	4.04	3.96	3.91														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-04-30

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: