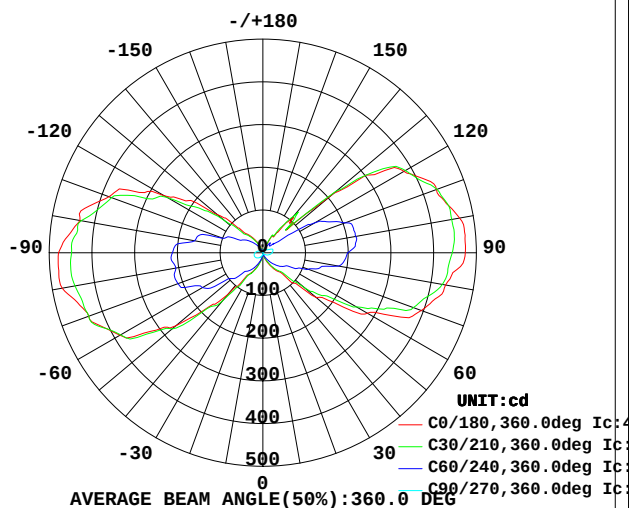


LUMINAIRE PHOTOMETRIC TEST REPORT

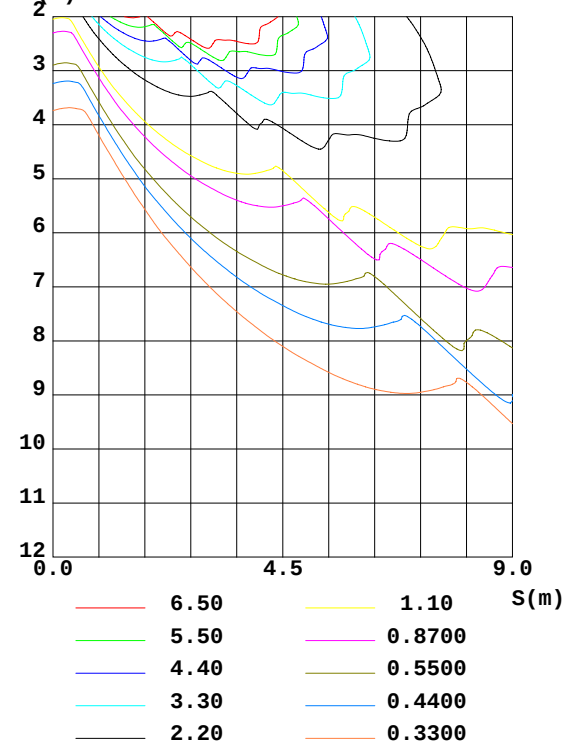
Test:U:120.1V I:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.94 lm/W			
MODEL	ASD-LCLR-2A-18BK	I _{max} (cd)	480.7	S/MH(C0/180)	10.60
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	3.91
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1745	η UP, DN(C0-180)	25.6, 23.6
NOMINAL FLUX(lm)	1745	CIE CLASS	DIFFUSE	η UP, DN(C180-360)	23.1, 27.7
LAMPS INSIDE	1	η up(%)	48.7	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	51.3	CIBSE SHR MAX	1.30

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:2025-05-06

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	5.038	4.333	2.800	6.161	11.17	12.65	5.422	2.715	0- 10	0.4900	0.4900	0.03,0.03
20	14.87	9.313	2.842	10.47	28.92	29.40	8.496	2.807	10- 20	2.699	3.189	0.22,0.22
30	34.67	23.70	3.169	15.62	54.15	51.95	12.19	3.299	20- 30	8.638	11.83	0.80,0.80
40	58.14	45.06	4.315	20.84	126.2	110.5	15.81	6.066	30- 40	20.78	32.61	2.21,2.21
50	162.9	71.73	6.921	25.44	266.0	201.8	18.84	10.56	40- 50	49.27	81.88	5.54,5.54
60	283.1	171.5	10.58	28.73	386.2	296.5	20.84	16.02	50- 60	99.76	181.6	12.3,12.3
70	395.2	279.7	14.63	30.25	433.7	377.3	21.47	21.72	60- 70	156.7	338.3	22.9,22.9
80	434.4	365.7	18.56	29.71	477.2	388.8	20.73	27.02	70- 80	198.2	536.5	36.3,36.3
90	474.1	388.4	21.80	27.24	478.3	383.2	18.65	31.20	80- 90	221.9	758.4	51.3,51.3
100	467.9	389.1	23.96	23.18	435.0	363.9	15.54	33.72	90-100	222.9	981.3	66.4,66.4
110	432.7	380.1	24.57	18.09	383.5	261.6	11.86	33.55	100-110	199.9	1181	79.9,79.9
120	381.3	251.9	15.31	12.73	268.0	159.5	8.076	20.09	110-120	154.1	1335	90.4,90.4
130	217.3	72.13	11.40	7.798	139.1	61.97	4.780	4.972	120-130	88.08	1423	96.3,96.3
140	102.1	67.13	8.428	4.014	57.47	41.87	2.571	5.159	130-140	32.43	1456	98.5,98.5
150	46.82	41.87	4.107	2.076	32.33	21.00	1.953	3.740	140-150	15.53	1471	99.6,99.6
160	4.535	4.356	2.962	2.064	13.14	7.564	2.003	3.375	150-160	4.972	1476	99.9,99.9
170	5.014	4.011	3.941	2.392	4.535	3.659	2.315	3.120	160-170	1.128	1477	100,100
180	4.209	3.863	2.534	2.819	4.213	3.847	2.534	2.831	170-180	0.3820	1478	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

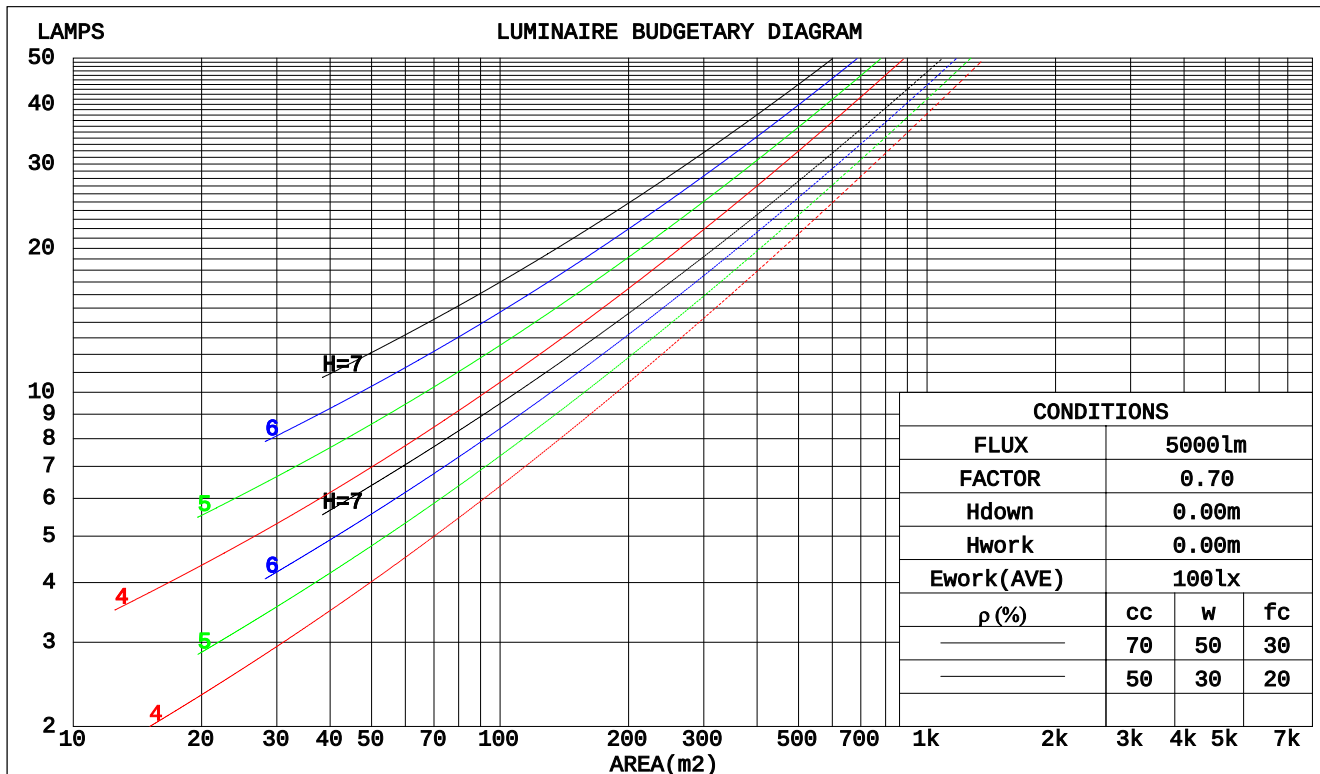
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	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	1.07	1.07	1.07	.99	.99	.99	.84	.84	.84	.70	.70	.70	.57	.57	.57	.51
1.0	.83	.76	.70	.75	.69	.64	.62	.57	.53	.50	.46	.43	.38	.36	.33	.27
2.0	.68	.59	.51	.62	.53	.46	.50	.44	.38	.39	.34	.30	.29	.26	.22	.17
3.0	.57	.47	.39	.52	.43	.36	.42	.35	.29	.33	.27	.22	.24	.19	.16	.11
4.0	.49	.39	.31	.45	.35	.28	.36	.28	.23	.28	.22	.17	.20	.16	.12	.08
5.0	.43	.33	.25	.39	.30	.23	.31	.24	.18	.24	.18	.14	.17	.13	.09	.05
6.0	.38	.28	.21	.34	.26	.19	.28	.20	.15	.21	.16	.11	.15	.11	.07	.04
7.0	.34	.24	.18	.31	.22	.16	.25	.18	.13	.19	.14	.09	.14	.09	.06	.03
8.0	.31	.21	.15	.28	.20	.14	.22	.16	.11	.17	.12	.08	.13	.08	.05	.02
9.0	.28	.19	.13	.25	.17	.12	.20	.14	.09	.16	.11	.07	.12	.07	.04	.02
10.0	.25	.17	.12	.23	.15	.10	.19	.12	.08	.15	.09	.06	.11	.07	.04	.02



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm								
NAME:ASD-LCLR-2A-18BK				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	.494	.281	.089	.471	.269	.085	.430	.246	.079	.391	.226	.072	.356	.206	.067	
2.0	.395	.216	.066	.374	.206	.064	.336	.187	.058	.301	.169	.053	.268	.152	.048	
3.0	.335	.178	.053	.316	.169	.051	.282	.153	.046	.249	.137	.042	.219	.121	.038	
4.0	.292	.152	.045	.276	.144	.043	.243	.129	.039	.214	.115	.035	.186	.101	.031	
5.0	.260	.133	.038	.245	.126	.037	.215	.112	.033	.188	.099	.029	.162	.087	.026	
6.0	.234	.117	.034	.220	.111	.032	.193	.099	.029	.168	.087	.026	.144	.076	.022	
7.0	.213	.105	.030	.200	.100	.028	.175	.088	.025	.152	.078	.023	.129	.067	.020	
8.0	.196	.096	.027	.184	.090	.026	.160	.080	.023	.138	.070	.020	.118	.061	.018	
9.0	.181	.088	.024	.170	.083	.023	.148	.073	.021	.128	.064	.018	.108	.055	.016	
10.0	.168	.081	.022	.158	.076	.021	.137	.067	.019	.118	.059	.017	.100	.050	.014	

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	.561	.561	.561	.480	.480	.480	.327	.327	.327	.188	.188	.188	.060	.060	.060	
1.0	.567	.528	.494	.485	.454	.425	.332	.312	.294	.191	.181	.171	.061	.058	.055	
2.0	.562	.508	.462	.482	.437	.399	.330	.302	.279	.190	.176	.163	.061	.057	.053	
3.0	.556	.493	.444	.476	.425	.385	.327	.296	.270	.189	.173	.159	.061	.056	.052	
4.0	.548	.482	.432	.470	.417	.375	.323	.290	.264	.187	.170	.156	.060	.055	.051	
5.0	.540	.473	.424	.463	.409	.369	.319	.286	.261	.185	.168	.155	.060	.055	.051	
6.0	.532	.466	.419	.457	.404	.365	.315	.283	.258	.183	.166	.153	.059	.054	.051	
7.0	.524	.460	.415	.451	.399	.361	.312	.280	.256	.181	.165	.152	.059	.054	.050	
8.0	.517	.455	.412	.445	.394	.359	.308	.277	.255	.179	.163	.152	.058	.054	.050	
9.0	.511	.450	.409	.440	.391	.357	.305	.275	.254	.178	.162	.151	.058	.053	.050	
10.0	.505	.446	.407	.435	.388	.356	.302	.273	.253	.176	.161	.151	.057	.053	.050	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm										
NAME:ASD-LCLR-2A-18BK					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	18.1	17.8	19.0	20.2	5.5	6.6	6.3	7.5	8.7
3H	22.3	23.4	23.2	24.3	25.5	8.2	9.3	9.1	10.2	11.4
4H	24.8	25.9	25.7	26.8	28.0	9.5	10.5	10.4	11.5	12.7
6H	27.4	28.4	28.3	29.3	30.6	10.9	11.9	11.8	12.8	14.1
8H	28.8	29.7	29.7	30.7	31.9	11.6	12.6	12.6	13.6	14.8
12H	30.3	31.2	31.2	32.2	33.4	12.5	13.4	13.4	14.4	15.6
4H 2H	17.8	18.9	18.7	19.8	21.0	13.4	14.5	14.3	15.4	16.6
3H	23.4	24.3	24.3	25.3	26.5	15.5	16.4	16.4	17.4	18.6
4H	26.1	26.9	27.0	27.9	29.2	16.4	17.2	17.3	18.2	19.5
6H	28.8	29.5	29.7	30.5	31.8	17.2	18.0	18.2	19.0	20.3
8H	30.2	30.9	31.2	31.9	33.2	17.6	18.3	18.5	19.3	20.6
12H	31.8	32.5	32.8	33.5	34.8	17.9	18.6	18.9	19.6	20.9
8H 4H	26.6	27.3	27.5	28.3	29.6	21.4	22.1	22.4	23.1	24.4
6H	29.7	30.3	30.7	31.3	32.6	22.9	23.5	23.8	24.5	25.8
8H	31.4	31.9	32.4	32.9	34.3	23.4	23.9	24.4	25.0	26.3
12H	33.2	33.7	34.2	34.7	36.1	23.7	24.2	24.7	25.3	26.6
12H 4H	26.6	27.3	27.6	28.3	29.6	22.8	23.4	23.7	24.5	25.8
6H	29.9	30.5	30.9	31.5	32.8	24.8	25.4	25.8	26.4	27.7
8H	31.7	32.2	32.7	33.2	34.6	25.7	26.2	26.7	27.2	28.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.1				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1478 lm Total Lamp Luminous Flux.(8log(F/F₀) = 1.4)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

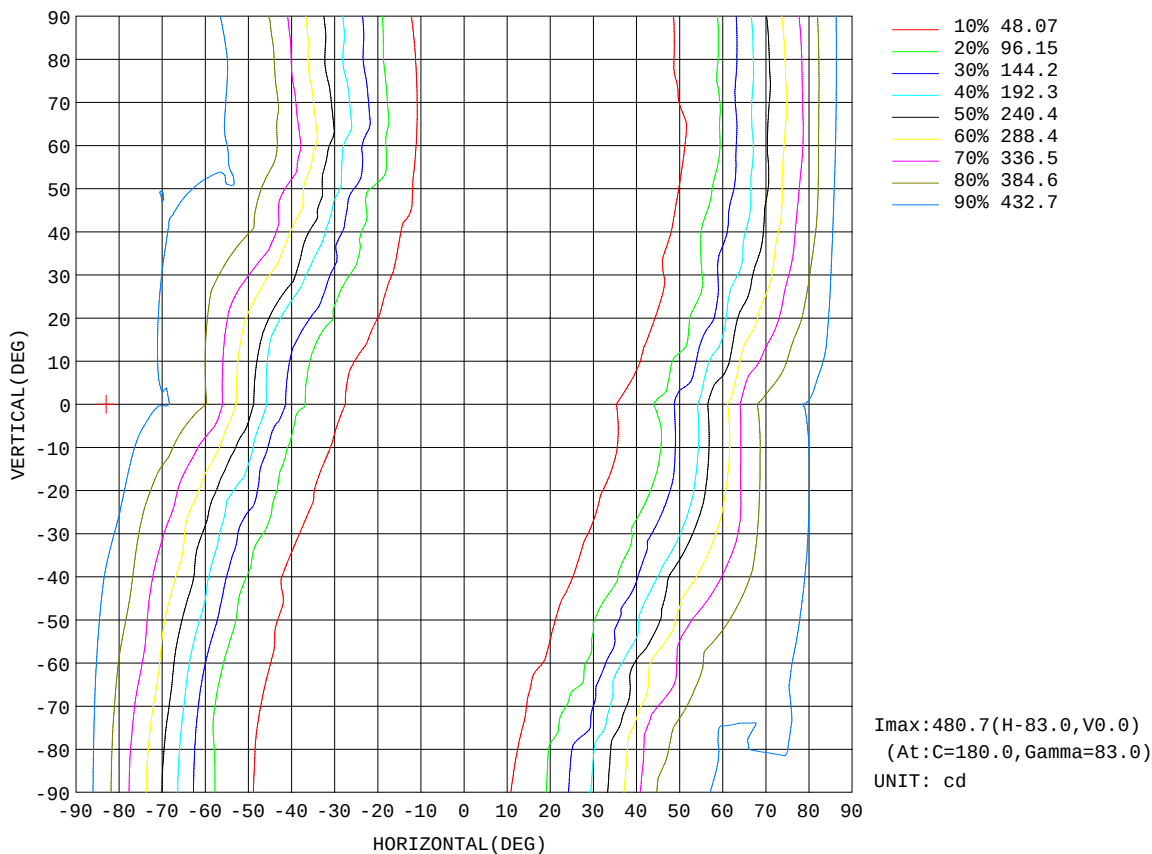
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	18	10	30	17	9	27	15	9	2
0.80	39	24	14	37	22	14	32	20	12	3
1.00	46	30	19	43	28	18	37	27	16	5
1.25	52	36	25	49	34	24	42	30	21	8
1.50	58	42	30	53	39	29	46	34	25	10
2.00	66	51	39	61	47	37	51	40	32	14
2.50	71	57	46	66	53	43	56	45	37	17
3.00	76	63	52	70	58	49	59	49	42	20
4.00	82	70	61	75	65	56	63	55	48	25
5.00	86	76	67	79	70	62	66	59	53	28
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:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

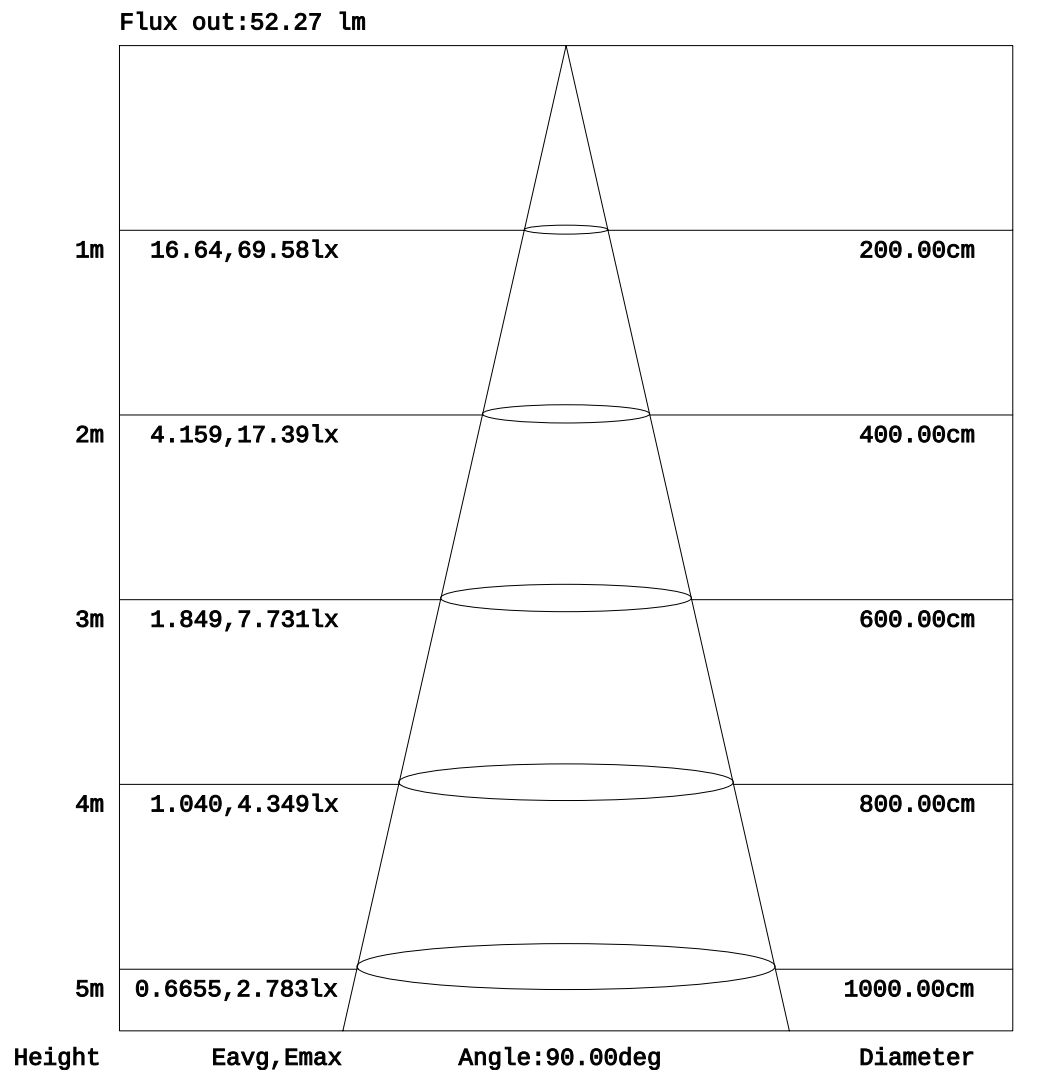


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:



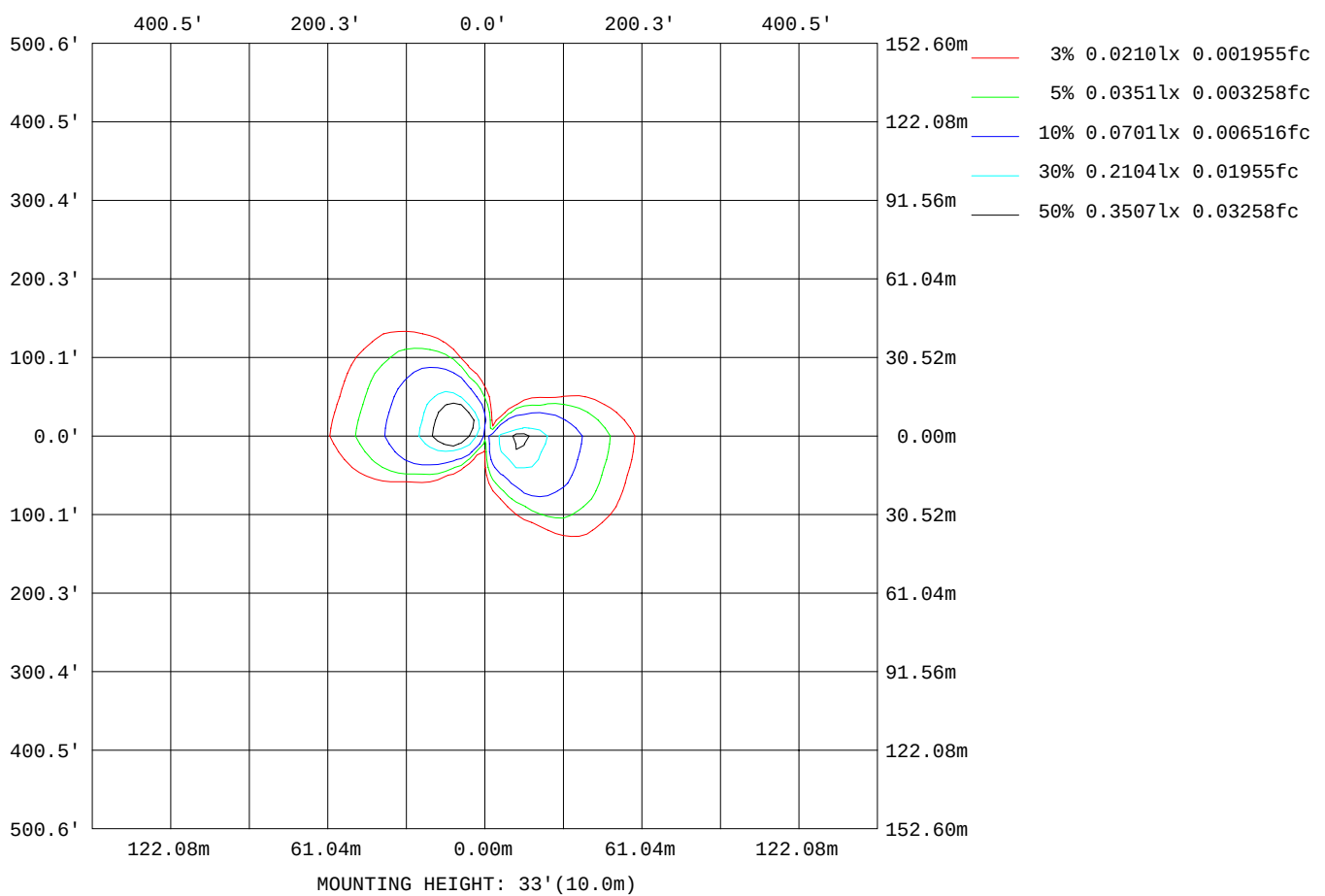
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	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: 2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.:ASD Lighting Corp	SUR.:	PROTECTION ANGLE:

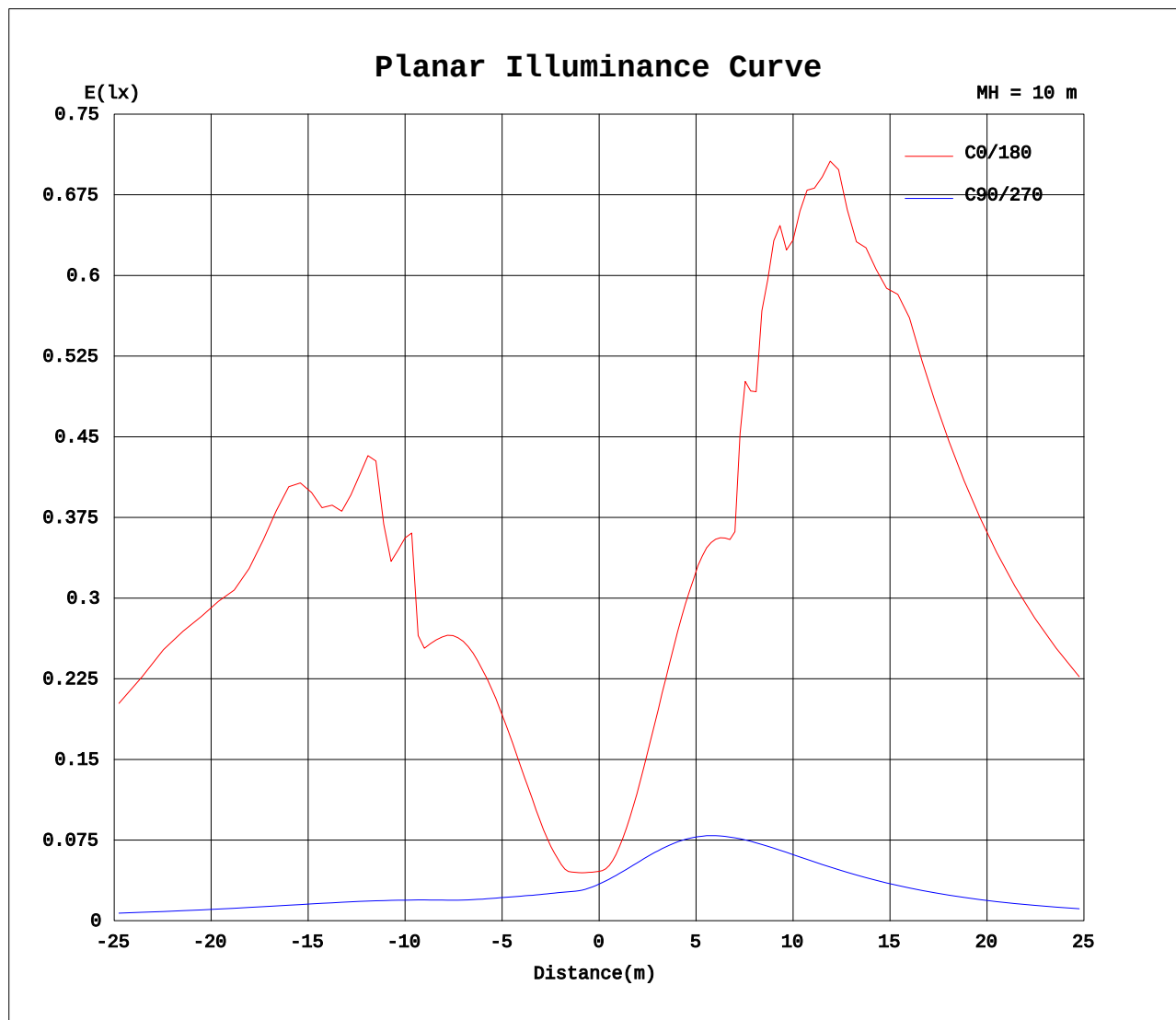
AvgL	cd/m2
L_0~180(65)av	9098
L_0~180(75)av	16752
L_0~180(85)av	53646
L_90~270(65)av	401
L_90~270(75)av	733
L_90~270(85)av	2303
L_45(65)av	3642
L_45(75)av	7278
L_45(85)av	23688

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-06

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: 2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	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	4.61	4.52	4.71	4.52	4.12	3.73	3.43	3.37	3.34	3.41	3.51	3.88	4.61	4.52	4.71	4.52	4.12	3.73	3.43
5	4.53	4.48	4.49	4.16	3.70	3.21	2.89	3.11	3.70	4.57	5.36	6.00	6.26	6.66	7.46	7.32	6.42	5.38	4.28
10	5.04	4.77	4.68	4.33	3.77	3.24	2.80	2.83	4.05	6.16	8.53	10.4	11.2	11.8	13.2	12.6	10.5	8.02	5.42
15	8.54	7.55	6.98	5.48	4.12	3.41	2.80	2.58	4.41	8.15	12.8	16.6	18.8	19.4	21.4	20.0	16.1	11.5	6.85
20	14.9	13.0	12.2	9.31	6.18	3.72	2.84	2.42	4.80	10.5	18.0	24.5	28.9	29.4	32.0	29.4	23.0	15.6	8.50
25	23.6	21.1	19.9	15.5	9.92	4.94	2.98	2.37	5.17	13.0	24.1	34.0	41.2	41.4	44.5	40.5	31.2	20.4	10.3
30	34.7	31.3	30.1	23.7	15.4	7.19	3.17	2.36	5.49	15.6	30.8	44.3	54.1	53.9	56.5	52.0	40.2	25.5	12.2
35	47.3	43.4	42.0	33.7	22.2	10.4	3.53	2.34	5.76	18.3	37.8	53.9	65.8	64.1	93.7	60.7	49.1	30.8	14.0
40	58.1	55.0	54.1	45.1	30.2	14.5	4.31	2.34	5.95	20.8	44.7	62.4	126	123	149	110	56.3	36.2	15.8
45	101	75.5	67.6	55.7	39.1	19.1	5.46	2.34	6.05	23.3	50.7	100	179	173	185	147	70.0	41.3	17.4
50	163	136	130	71.7	48.3	24.2	6.92	2.36	6.07	25.4	55.3	148	266	253	278	202	94.1	45.8	18.8
55	204	180	175	122	56.2	29.7	8.67	2.38	6.02	27.3	58.9	181	321	310	332	262	138	49.6	20.0
60	283	252	254	172	62.2	35.1	10.6	2.41	5.85	28.7	77.0	212	386	376	384	297	163	52.5	20.8
65	357	312	313	211	87.7	40.5	12.6	2.46	5.60	29.7	85.7	248	412	399	414	356	188	54.6	21.3
70	395	375	375	280	114	45.6	14.6	2.51	5.28	30.3	98.2	287	434	418	434	377	212	56.0	21.5
75	418	399	398	313	138	49.9	16.6	2.58	4.90	30.2	98.6	299	449	433	438	385	214	56.6	21.3
80	434	415	427	366	180	53.5	18.6	2.65	4.48	29.7	99.2	315	477	435	447	389	207	56.7	20.7
85	456	430	435	377	193	56.2	20.3	2.72	4.03	28.7	105	313	480	437	452	391	214	56.1	19.8
90	474	434	443	388	199	58.1	21.8	2.78	3.57	27.2	108	305	478	437	448	383	212	54.8	18.7
95	475	436	450	390	218	59.4	23.1	2.88	3.12	25.4	88.3	288	458	436	443	380	206	52.8	17.2
100	468	436	449	389	221	60.1	24.0	3.04	2.73	23.2	76.5	265	435	426	432	364	162	50.1	15.5
105	445	432	447	388	220	60.2	24.5	3.23	2.37	20.7	58.9	242	422	394	398	311	156	46.4	13.8
110	433	424	434	380	205	58.8	24.6	3.42	2.08	18.1	55.4	185	384	374	377	262	99.4	41.7	11.9
115	413	396	405	350	171	48.3	20.5	3.50	1.95	15.4	50.9	148	348	296	300	228	89.3	36.5	9.94
120	381	379	385	252	141	32.9	15.3	3.35	1.93	12.7	45.0	118	268	269	261	160	59.1	31.1	8.08
125	319	301	343	141	72.0	21.3	12.1	3.37	1.92	10.2	38.1	77.7	213	181	183	115	52.9	25.7	6.32
130	217	170	226	72.1	31.5	15.2	11.4	3.49	1.92	7.80	31.0	55.7	139	122	117	62.0	44.5	20.5	4.78
135	99.3	105	74.9	77.7	22.4	15.3	11.6	3.70	1.92	5.71	24.3	47.1	82.5	63.1	62.4	53.1	35.2	15.6	3.51
140	102	101	111	67.1	25.3	10.9	8.43	3.56	1.95	4.01	18.1	36.6	57.5	53.1	52.4	41.9	26.5	11.4	2.57
145	58.5	54.8	69.7	40.7	26.7	4.33	5.52	3.49	1.97	2.79	12.7	26.8	45.2	40.5	39.5	30.6	19.0	7.70	2.02
150	46.8	48.4	47.6	41.9	13.0	3.93	4.11	3.08	1.98	2.08	8.32	18.5	32.3	28.6	27.7	21.0	12.7	4.94	1.95
155	21.5	18.7	26.2	15.2	4.36	3.77	3.07	2.48	2.00	2.04	5.06	11.7	21.5	18.7	17.9	13.2	7.69	3.07	1.96
160	4.53	4.51	4.67	4.36	4.20	3.48	2.96	2.82	2.08	2.06	3.12	6.73	13.1	11.1	10.6	7.56	4.42	2.36	2.00
165	4.46	4.34	4.62	4.16	3.76	3.30	2.83	3.83	2.33	2.20	2.71	3.91	7.35	6.15	5.85	4.33	3.04	2.32	2.10
170	5.01	5.03	4.21	4.01	5.49	4.99	3.94	3.18	2.45	2.39	2.76	3.41	4.54	4.21	4.19	3.66	3.02	2.45	2.32
175	5.48	6.03	6.51	6.82	6.32	4.66	2.75	2.51	2.43	2.59	2.95	3.52	4.24	4.04	4.09	3.62	3.12	2.61	2.44
180	4.21	4.02	4.21	3.86	3.28	2.81	2.53	2.51	2.57	2.82	3.30	3.75	4.21	4.01	4.19	3.85	3.28	2.78	2.53

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-06

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:0.1573A P:18.71W PF:0.9904 Lamp Flux:1745x1 lm		
NAME:ASD-LCLR-2A-18BK	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	3.37	3.34	3.41	3.51	3.88													
5	3.53	2.96	2.79	3.17	3.71													
10	3.65	2.63	2.72	3.23	3.82													
15	3.75	2.45	2.72	3.45	4.90													
20	3.83	2.39	2.81	4.39	8.37													
25	3.92	2.38	2.97	6.92	13.9													
30	3.96	2.39	3.30	10.8	21.0													
35	3.98	2.40	4.45	15.6	29.8													
40	3.92	2.43	6.07	21.4	39.7													
45	3.82	2.48	8.15	27.9	50.1													
50	3.69	2.54	10.6	35.0	58.1													
55	3.52	2.62	13.2	42.2	96.0													
60	3.32	2.75	16.0	49.0	108													
65	3.10	3.02	18.9	54.6	174													
70	2.88	3.37	21.7	58.8	200													
75	2.65	3.77	24.5	63.2	228													
80	2.44	4.21	27.0	85.5	265													
85	2.25	4.71	29.3	99.5	280													
90	2.09	5.22	31.2	102	306													
95	2.02	5.73	32.7	118	317													
100	2.01	6.25	33.7	121	312													
105	2.01	6.71	34.2	120	305													
110	2.00	7.14	33.6	103	279													
115	2.00	7.44	28.3	94.3	265													
120	2.01	7.02	20.1	74.1	221													
125	2.01	5.79	11.3	40.6	169													
130	2.06	4.33	4.97	28.5	93.4													
135	2.09	3.63	5.79	21.4	46.4													
140	2.14	3.75	5.16	21.0	37.2													
145	2.14	3.47	3.99	25.5	34.9													
150	2.17	3.79	3.74	14.8	38.6													
155	2.26	4.35	3.59	4.48	15.4													
160	2.26	2.81	3.37	4.09	4.55													
165	2.32	2.72	3.23	3.82	4.32													
170	2.75	3.03	3.12	3.58	4.02													
175	2.86	3.23	3.38	4.48	5.54													
180	2.52	2.57	2.83	3.31	3.77													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-06

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: