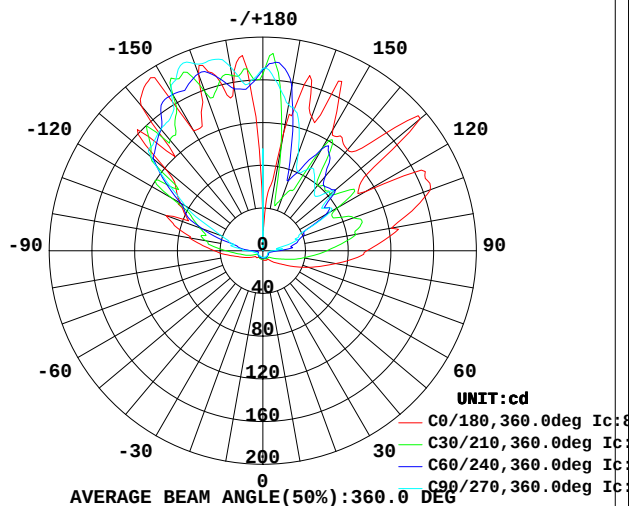


LUMINAIRE PHOTOMETRIC TEST REPORT

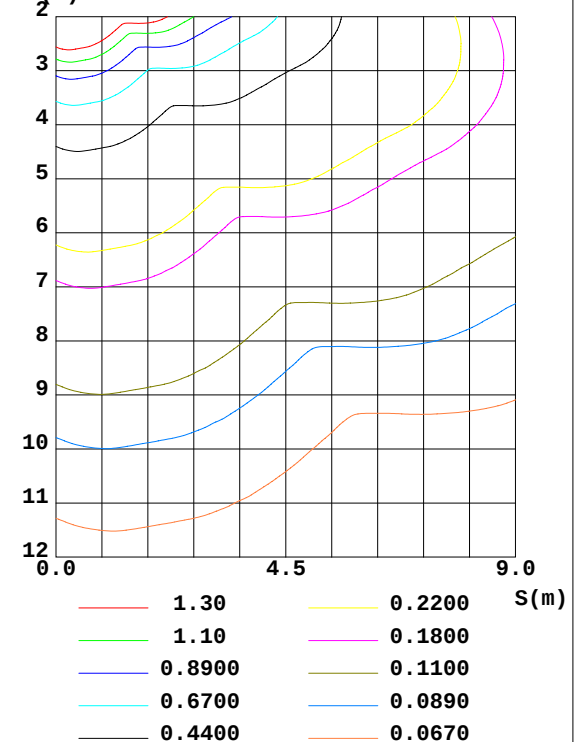
Test:U:120.2V I:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 lm		
NAME: ASD-LUV-28C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.48 lm/W			
MODEL	ASD-LUV-28C-BK	I _{max} (cd)	220.6	S/MH(C0/180)	1.33
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	1.36
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1053	η UP, DN(C0-180)	37.2, 7.2
NOMINAL FLUX(lm)	1053	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	48.4, 7.2
LAMPS INSIDE	1	η up(%)	85.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	14.4	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:2025-09-28

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	9.120	7.217	6.312	6.659	7.656	7.626	6.188	6.320	0- 10	0.6832	0.6832	0.10,0.10
20	9.397	7.533	6.458	6.747	7.263	7.260	5.765	6.347	10- 20	2.003	2.686	0.39,0.39
30	9.459	7.807	6.478	6.031	7.037	7.037	5.738	6.443	20- 30	3.228	5.914	0.85,0.85
40	12.97	7.725	6.220	6.278	8.459	6.544	5.565	7.287	30- 40	4.377	10.29	1.48,1.48
50	18.34	7.552	5.889	6.775	8.696	5.554	5.485	11.77	40- 50	6.053	16.34	2.35,2.35
60	28.31	8.780	5.304	10.87	12.29	5.342	5.561	17.49	50- 60	8.716	25.06	3.6,3.6
70	45.47	12.84	5.152	17.47	18.56	6.301	6.064	30.46	60- 70	14.15	39.22	5.63,5.63
80	69.48	21.19	6.376	25.65	28.21	11.81	8.194	51.27	70- 80	23.38	62.60	8.99,8.99
90	97.35	36.74	9.340	41.21	45.30	22.58	15.63	77.46	80- 90	37.46	100.1	14.4,14.4
100	122.4	62.34	13.90	55.12	69.82	42.25	30.49	95.96	90-100	56.54	156.6	22.5,22.5
110	166.8	57.02	32.10	42.68	96.54	54.41	41.70	131.4	100-110	72.74	229.3	32.9,32.9
120	111.1	55.27	72.75	66.15	89.06	92.65	83.58	81.47	110-120	82.57	311.9	44.8,44.8
130	192.4	47.17	86.31	86.06	118.0	127.2	136.7	187.6	120-130	88.45	400.4	57.5,57.5
140	123.5	106.8	75.73	132.5	177.4	141.8	148.5	126.6	130-140	93.26	493.6	70.9,70.9
150	131.2	93.13	89.18	103.5	129.9	157.5	171.8	166.3	140-150	82.89	576.5	82.8,82.8
160	133.7	63.45	97.26	144.9	176.5	165.0	186.3	152.8	150-160	63.44	640.0	91.9,91.9
170	112.3	134.8	139.0	185.8	157.8	155.9	174.8	193.6	160-170	41.50	681.4	97.8,97.8
180	27.23	166.9	170.7	149.8	26.10	167.2	170.8	150.8	170-180	15.02	696.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

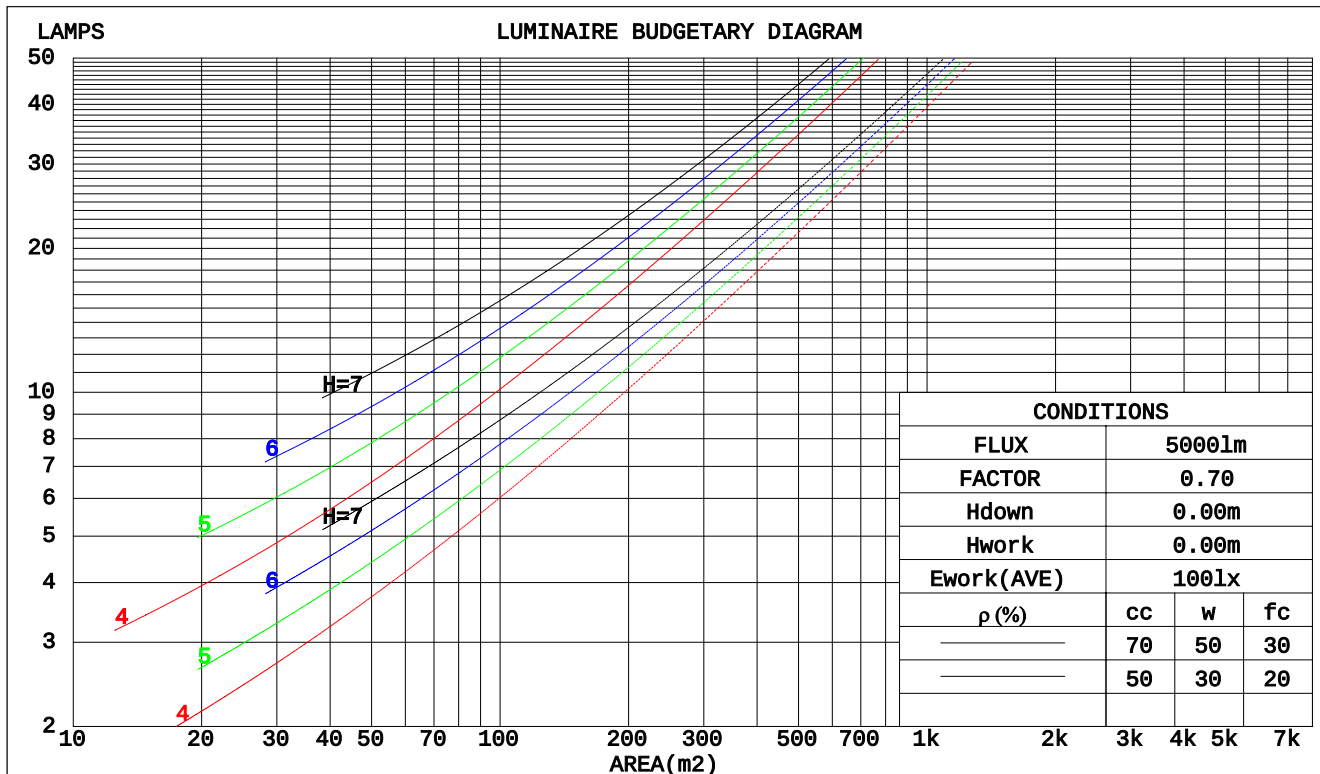
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 lm		
NAME: ASD-LUV-28C-BK	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	.99	.99	.99	.86	.86	.86	.64	.64	.64	.43	.43	.43	.23	.23	.23	.14
1.0	.82	.78	.74	.72	.68	.64	.52	.49	.47	.34	.32	.30	.17	.16	.15	.07
2.0	.71	.64	.59	.62	.56	.51	.44	.41	.37	.28	.26	.24	.14	.12	.11	.05
3.0	.62	.54	.48	.54	.47	.42	.39	.34	.31	.25	.22	.19	.12	.10	.09	.03
4.0	.54	.46	.40	.47	.40	.35	.34	.29	.25	.22	.19	.16	.10	.09	.07	.02
5.0	.48	.40	.34	.42	.35	.30	.30	.25	.22	.19	.16	.14	.09	.07	.06	.02
6.0	.43	.35	.29	.37	.30	.25	.27	.22	.18	.17	.14	.12	.08	.06	.05	.02
7.0	.38	.30	.25	.33	.27	.22	.24	.19	.16	.15	.12	.10	.07	.06	.04	.01
8.0	.34	.27	.22	.30	.23	.19	.22	.17	.14	.14	.11	.09	.07	.05	.04	.01
9.0	.31	.24	.19	.27	.21	.17	.20	.15	.12	.13	.10	.08	.06	.05	.03	.01
10.0	.28	.21	.17	.25	.19	.15	.18	.14	.11	.12	.09	.07	.06	.04	.03	.01



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 1									
NAME: ASD-LUV-28C-BK					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	.330	.188	.060	.297	.170	.054	.236	.135	.043	.179	.103	.033	.126	.073	.024		
2.0	.282	.155	.047	.252	.139	.043	.195	.109	.034	.143	.080	.025	.095	.054	.017		
3.0	.251	.133	.040	.223	.119	.036	.171	.093	.028	.123	.067	.021	.078	.043	.013		
4.0	.227	.118	.035	.201	.105	.031	.153	.081	.024	.109	.058	.018	.067	.037	.011		
5.0	.207	.106	.031	.184	.094	.027	.139	.072	.021	.098	.052	.015	.059	.032	.010		
6.0	.191	.096	.027	.169	.085	.025	.128	.065	.019	.089	.046	.014	.053	.028	.008		
7.0	.177	.087	.025	.157	.078	.022	.118	.060	.017	.082	.042	.012	.049	.025	.007		
8.0	.164	.080	.023	.146	.072	.020	.110	.055	.016	.076	.039	.011	.045	.023	.007		
9.0	.154	.074	.021	.136	.066	.019	.103	.051	.014	.071	.036	.010	.041	.021	.006		
10.0	.144	.069	.019	.128	.062	.017	.096	.047	.013	.067	.033	.009	.038	.019	.006		

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	.843	.843	.843	.720	.720	.720	.492	.492	.492	.282	.282	.282	.090	.090	.090	
1.0	.840	.814	.791	.718	.698	.680	.491	.481	.471	.283	.278	.274	.091	.090	.088	
2.0	.833	.794	.761	.714	.684	.658	.489	.473	.459	.282	.275	.269	.090	.089	.088	
3.0	.827	.780	.743	.709	.673	.644	.486	.467	.452	.281	.273	.266	.090	.089	.087	
4.0	.820	.769	.730	.704	.665	.635	.484	.463	.447	.280	.271	.264	.090	.088	.087	
5.0	.814	.761	.722	.699	.658	.628	.481	.460	.443	.279	.270	.263	.090	.088	.087	
6.0	.808	.754	.716	.694	.653	.623	.479	.457	.441	.278	.269	.262	.090	.088	.087	
7.0	.802	.748	.711	.690	.649	.620	.477	.455	.439	.277	.268	.261	.089	.088	.086	
8.0	.796	.744	.707	.685	.645	.617	.474	.453	.438	.276	.267	.261	.089	.088	.086	
9.0	.791	.740	.705	.682	.642	.615	.472	.451	.437	.275	.266	.260	.089	.087	.086	
10.0	.786	.736	.703	.678	.639	.613	.470	.450	.436	.274	.266	.260	.089	.087	.086	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 1											
NAME: ASD-LUV-28C-BK					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	2.2	2.9	3.4	4.1	5.8	-6.6	-5.9	-5.4	-4.7	-3.0	
	3H	8.5	9.1	9.7	10.3	12.0	-4.2	-3.5	-3.0	-2.4	-0.7
	4H	11.9	12.5	13.0	13.7	15.3	-2.7	-2.1	-1.5	-0.9	0.8
	6H	15.4	16.0	16.6	17.2	18.9	-0.5	0.1	0.7	1.2	2.9
	8H	17.4	17.9	18.6	19.1	20.8	0.8	1.4	2.0	2.5	4.3
	12H	19.6	20.1	20.8	21.3	23.0	2.3	2.8	3.5	4.0	5.7
4H	2H	2.2	2.8	3.4	4.0	5.7	-3.5	-2.9	-2.3	-1.7	0.0
	3H	8.8	9.3	10.0	10.5	12.2	-1.6	-1.0	-0.3	0.2	1.9
	4H	12.4	12.9	13.6	14.1	15.8	-0.4	0.1	0.8	1.3	3.0
	6H	16.4	16.8	17.6	18.0	19.7	1.2	1.6	2.4	2.8	4.6
	8H	18.5	18.9	19.7	20.1	21.9	2.2	2.6	3.5	3.8	5.6
	12H	20.9	21.2	22.1	22.5	24.2	3.6	3.9	4.8	5.1	6.9
8H	4H	12.4	12.8	13.7	14.0	15.8	4.3	4.7	5.5	5.9	7.7
	6H	16.7	17.0	17.9	18.2	20.0	5.4	5.7	6.7	7.0	8.7
	8H	19.1	19.4	20.4	20.6	22.4	6.0	6.3	7.2	7.5	9.3
	12H	21.9	22.1	23.1	23.4	25.1	6.7	6.9	7.9	8.1	9.9
12H	4H	12.3	12.7	13.6	13.9	15.7	6.7	7.0	7.9	8.3	10.0
	6H	16.7	17.0	17.9	18.2	20.0	8.1	8.4	9.4	9.7	11.4
	8H	19.2	19.5	20.5	20.7	22.5	8.8	9.0	10.0	10.3	12.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.3 / - 0.3					+ 0.2 / - 0.1					
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.3					

CIE Pub.117 Corrected 696.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 l		
NAME: ASD-LUV-28C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

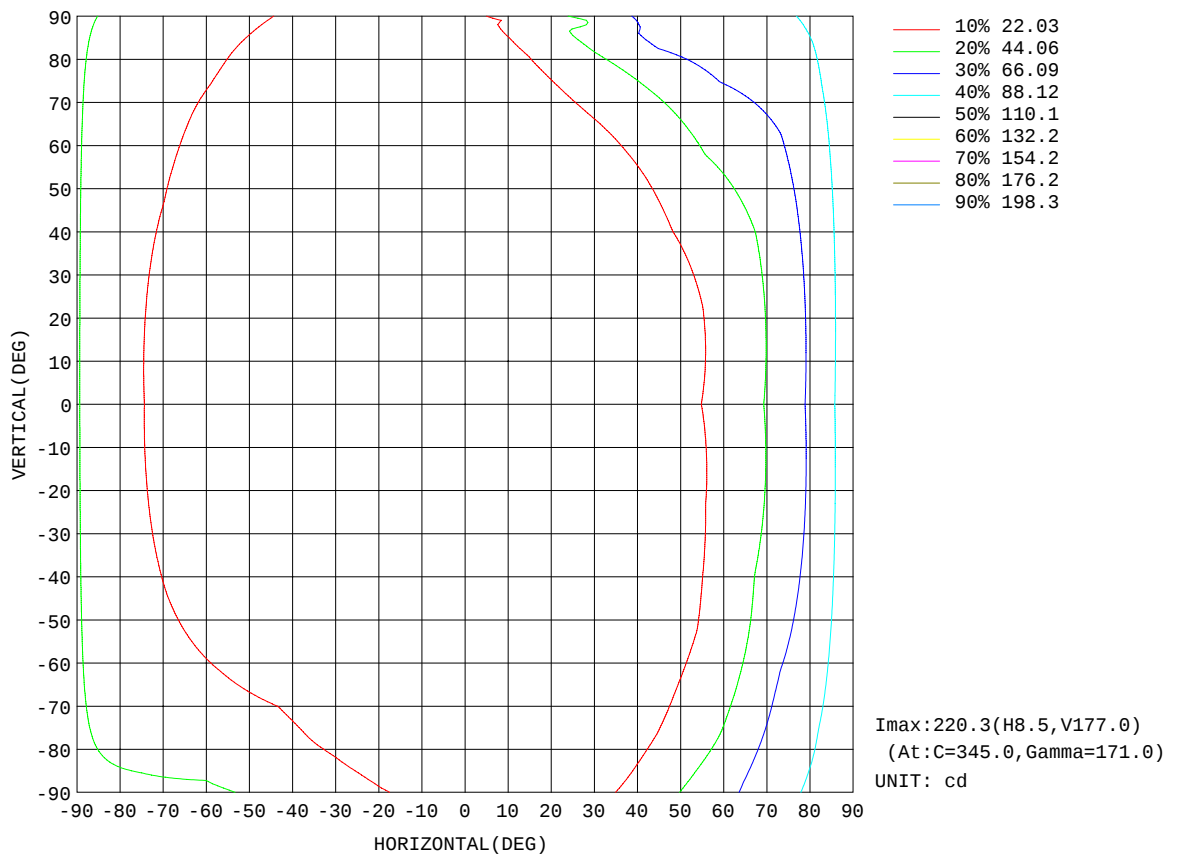
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	19	13	27	17	12	21	14	9	1
0.80	39	26	19	35	24	17	26	18	13	2
1.00	46	33	25	40	29	22	30	23	17	2
1.25	53	40	31	46	35	27	34	26	21	3
1.50	58	45	36	51	40	32	38	30	24	3
2.00	65	53	45	57	47	39	42	35	29	4
2.50	70	59	51	62	52	45	45	39	33	5
3.00	74	64	56	65	56	49	47	42	36	5
4.00	79	71	63	69	62	56	51	46	41	6
5.00	82	75	68	72	66	60	53	48	44	7
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:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 1		
NAME: ASD-LUV-28C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

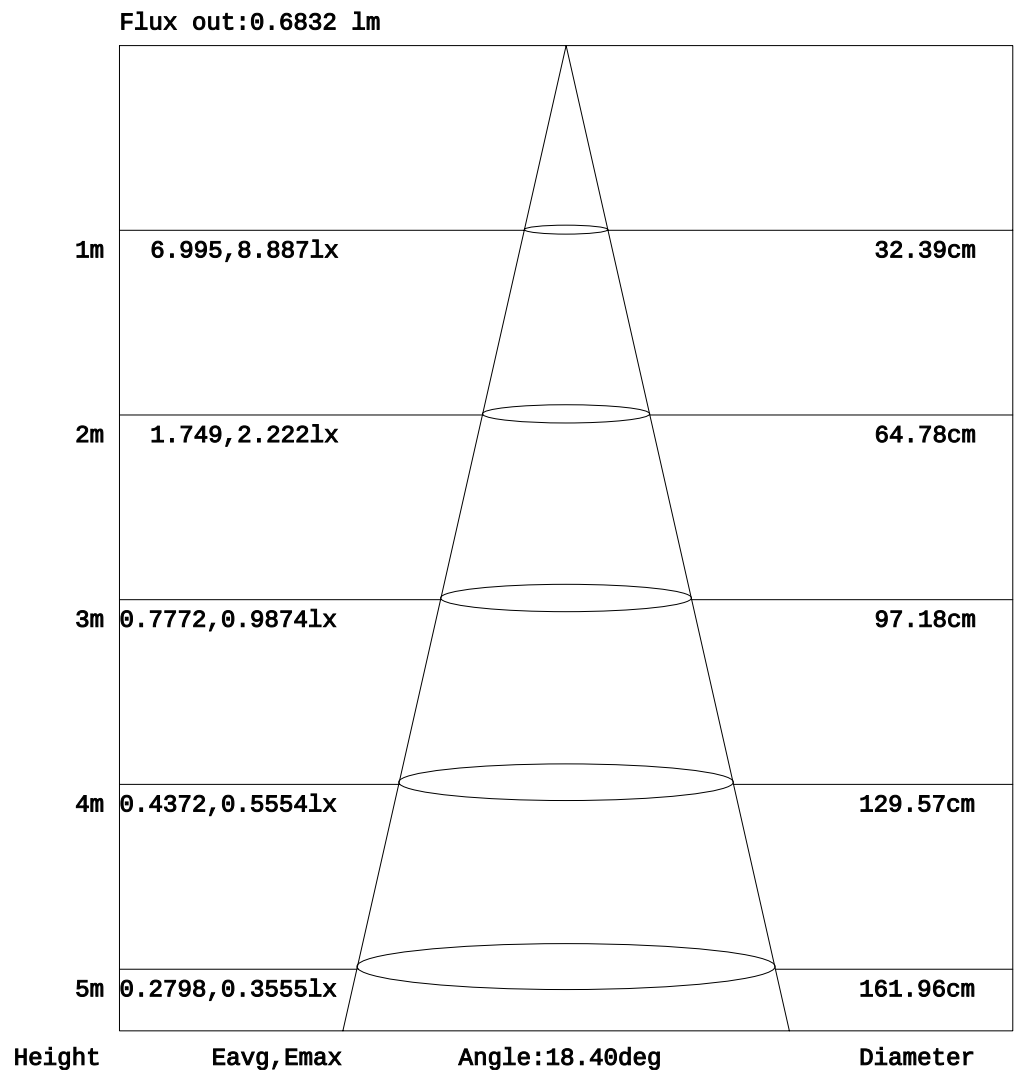


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 l		
NAME: ASD-LUV-28C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:



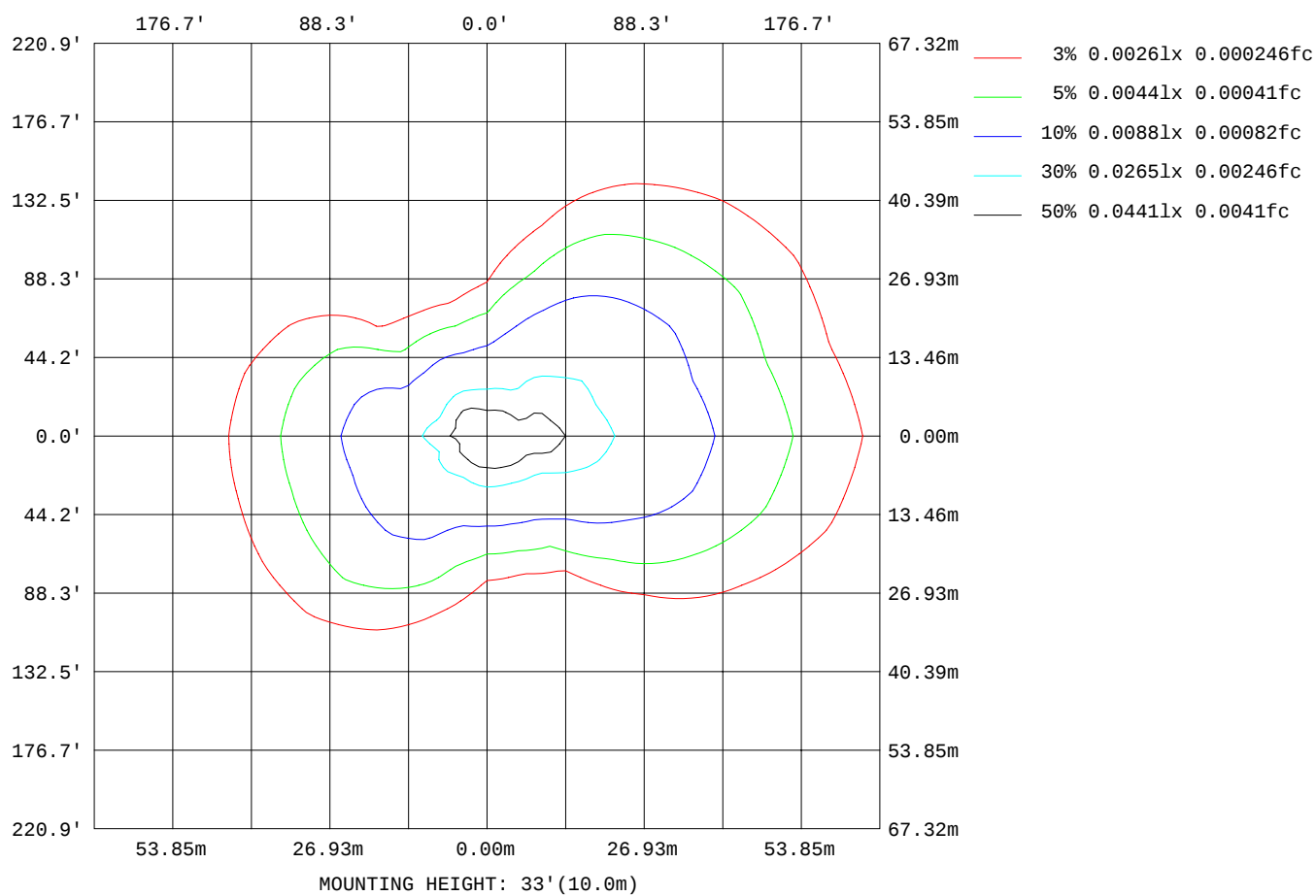
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 1		
NAME: ASD-LUV-28C-BK	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: 2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 l		
NAME: ASD-LUV-28C-BK	TYPE:LED	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting corp	SUR.:	PROTECTION ANGLE:

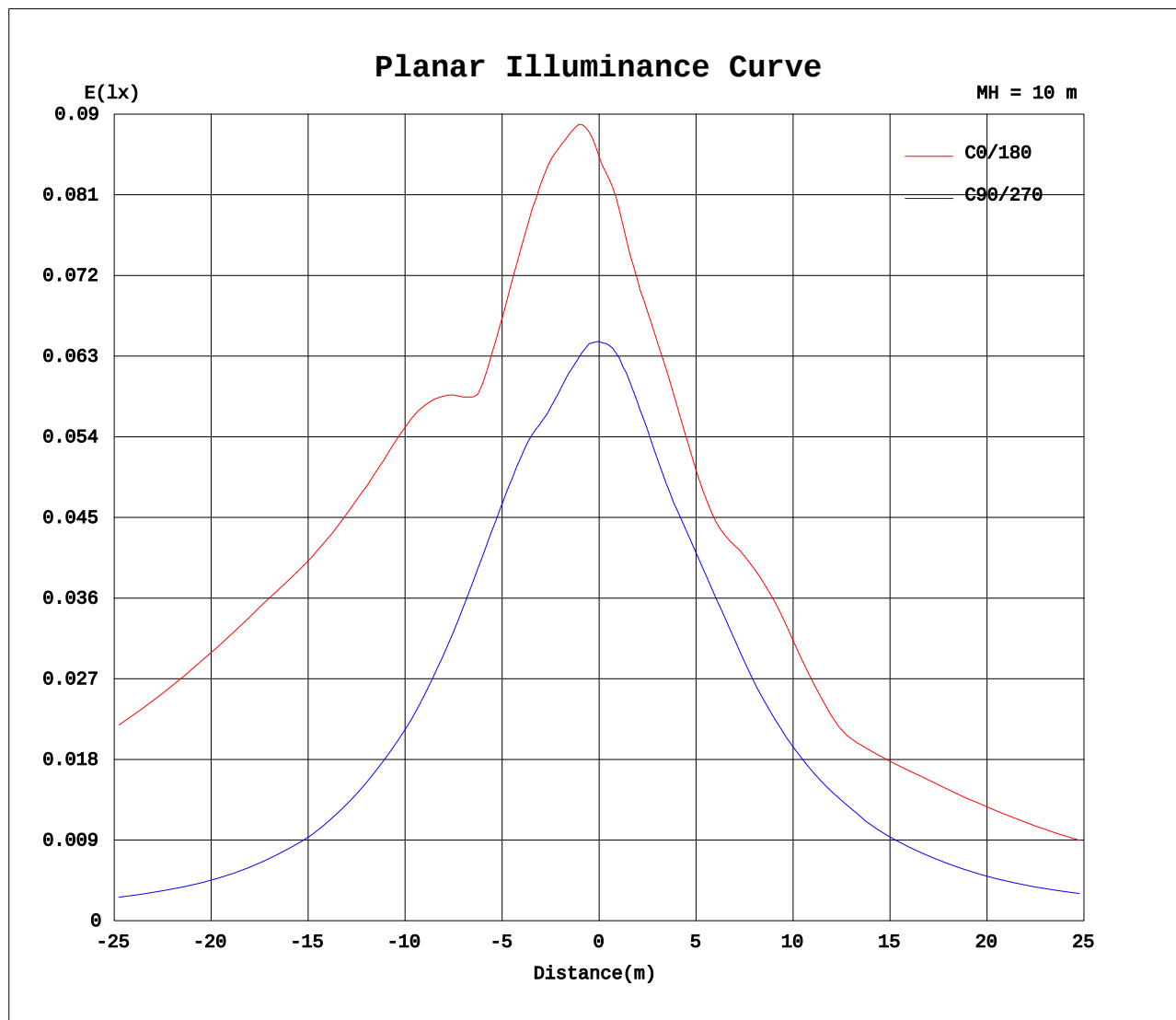
AvgL	cd/m2
L_0~180(65)av	606
L_0~180(75)av	1523
L_0~180(85)av	7033
L_90~270(65)av	126
L_90~270(75)av	243
L_90~270(85)av	923
L_45(65)av	308
L_45(75)av	833
L_45(85)av	4133

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-28

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: 2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 1																		
NAME: ASD-LUV-28C-BK									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	8.53	8.82	7.96	7.53	7.03	6.75	6.47	6.44	6.35	6.61	6.90	7.31	8.53	8.82	7.96	7.53	7.03	6.75	6.47
5	8.98	8.75	7.76	7.32	6.97	6.69	6.42	6.40	6.40	6.65	7.08	7.38	8.16	8.90	8.11	7.68	7.02	6.71	6.41
10	9.12	8.71	7.70	7.22	6.89	6.64	6.31	6.31	6.32	6.66	7.09	7.13	7.66	8.64	8.08	7.63	6.89	6.48	6.19
15	9.33	8.85	7.69	7.29	6.87	6.69	6.28	6.28	6.33	6.77	7.24	6.96	7.41	8.42	7.96	7.40	6.82	6.26	5.95
20	9.40	8.95	7.96	7.53	7.06	6.85	6.46	6.49	6.50	6.75	7.18	6.57	7.26	8.04	7.88	7.26	6.76	6.01	5.77
25	9.40	8.95	8.19	7.73	7.14	6.89	6.50	6.55	6.58	6.47	6.86	6.01	7.08	7.19	7.69	7.19	6.62	5.98	5.74
30	9.46	8.99	8.26	7.81	7.08	6.76	6.48	6.51	6.24	6.03	6.49	5.51	7.04	6.48	7.19	7.04	6.55	5.91	5.74
35	10.6	9.15	8.30	7.81	6.88	6.50	6.37	6.31	5.78	6.00	6.53	5.47	7.61	6.15	6.51	6.86	6.48	5.80	5.70
40	13.0	10.8	8.36	7.73	6.70	6.25	6.22	5.95	5.63	6.28	6.82	5.84	8.46	6.32	6.03	6.54	6.31	5.66	5.56
45	15.6	13.2	8.67	7.62	6.54	6.14	6.04	5.64	5.89	6.61	6.75	5.98	8.85	6.87	5.95	6.03	6.08	5.46	5.49
50	18.3	15.8	10.3	7.55	6.45	5.94	5.89	5.46	6.30	6.77	6.76	6.03	8.70	7.44	5.95	5.55	5.86	5.22	5.48
55	22.2	18.7	12.4	7.60	6.35	5.71	5.56	5.61	6.70	8.06	8.63	7.86	9.87	8.22	5.95	5.43	5.52	5.02	5.47
60	28.3	23.2	15.1	8.78	6.26	5.42	5.30	6.03	8.24	10.9	11.1	10.6	12.3	10.5	6.53	5.34	5.20	4.81	5.56
65	36.1	30.5	18.4	10.6	6.09	5.02	5.01	6.68	11.0	13.5	13.9	13.8	15.2	13.2	9.18	5.15	4.90	4.58	5.61
70	45.5	39.2	23.4	12.8	5.97	4.70	5.15	8.52	13.3	17.5	17.5	17.5	18.6	16.4	12.6	6.30	4.69	4.29	6.06
75	56.3	48.3	30.7	16.2	6.32	4.37	5.51	10.1	16.3	21.5	22.0	21.8	22.6	20.7	16.4	9.06	4.49	4.06	7.06
80	69.5	59.5	38.6	21.2	7.48	4.01	6.38	11.9	19.2	25.6	28.5	28.3	28.2	25.9	20.0	11.8	5.04	3.69	8.19
85	85.6	74.5	48.3	27.9	9.86	3.54	6.40	14.6	24.3	33.8	39.3	37.1	37.0	34.0	26.0	15.4	6.40	3.56	9.68
90	97.4	85.9	59.9	36.7	14.9	3.00	9.34	20.1	31.5	41.2	46.3	46.6	45.3	41.4	34.6	22.6	9.82	3.55	15.6
95	114	101	73.5	49.5	25.5	5.72	17.8	30.5	42.9	52.8	58.5	58.4	56.5	52.5	46.5	33.8	19.0	6.84	21.7
100	122	109	88.7	62.3	28.0	13.9	13.9	27.1	45.2	55.1	61.5	72.6	69.8	61.3	53.7	42.3	23.9	15.1	30.5
105	145	126	95.2	63.8	33.9	27.3	28.0	26.4	26.6	56.8	79.1	87.2	83.0	73.9	55.1	44.5	40.1	33.3	33.0
110	167	135	90.3	57.0	39.2	37.8	32.1	32.7	29.3	42.7	69.0	92.0	96.5	68.6	63.1	54.4	60.4	56.5	41.7
115	167	132	72.9	64.8	42.9	44.2	40.2	49.5	45.8	52.7	66.3	78.5	80.4	77.2	73.0	79.0	78.8	80.1	59.2
120	111	96.1	81.5	55.3	68.7	75.3	72.7	72.1	58.0	66.2	75.7	87.2	89.1	87.0	98.0	92.7	88.4	88.3	83.6
125	112	122	99.5	57.6	70.1	79.4	69.6	84.1	63.2	79.1	85.2	98.1	99.1	97.9	103	110	111	110	107
130	192	136	81.9	47.2	88.9	82.5	86.3	62.7	94.3	86.1	117	118	118	150	137	127	134	133	137
135	144	95.5	82.0	73.7	84.5	79.0	72.1	64.0	109	116	104	144	151	125	151	135	141	143	144
140	124	87.1	79.7	107	91.0	80.1	75.7	92.8	72.1	133	150	176	177	188	135	142	148	148	149
145	129	95.7	104	91.7	109	89.1	84.5	95.1	92.2	97.2	156	192	191	199	144	155	166	151	151
150	131	118	110	93.1	110	94.7	89.2	97.6	103	104	117	141	130	134	168	158	169	150	172
155	175	125	62.7	78.4	84.7	83.6	80.6	107	115	121	131	151	135	151	181	142	169	142	188
160	134	75.7	53.0	63.4	69.6	73.0	97.3	133	122	145	164	192	177	191	158	165	176	149	186
165	170	54.2	43.7	74.0	104	106	128	154	155	137	160	182	170	163	161	168	169	153	185
170	112	84.1	98.6	135	157	142	139	167	180	186	183	135	158	167	167	156	154	155	175
175	55.2	92.4	168	183	177	165	158	158	172	165	135	136	171	186	171	157	154	155	157
180	27.2	153	165	167	169	171	171	167	169	150	141	138	26.1	152	166	167	170	171	171

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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:0.09155A P:10.8W PF:0.9855 Lamp Flux:1053x1 1		
NAME: ASD-LUV-28C-BK	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	6.44	6.35	6.61	6.90	7.31													
5	6.35	6.20	6.43	6.69	7.29													
10	6.18	6.10	6.32	6.66	7.33													
15	5.97	6.00	6.32	6.74	7.63													
20	5.89	6.05	6.35	6.81	7.76													
25	5.89	6.16	6.38	6.77	7.80													
30	5.85	6.27	6.44	6.78	7.79													
35	5.90	6.28	6.49	7.28	8.93													
40	5.91	6.34	7.29	9.30	11.1													
45	5.96	6.89	9.34	11.9	13.2													
50	5.94	8.63	11.8	14.5	15.7													
55	6.53	10.7	14.2	17.9	19.0													
60	8.19	12.9	17.5	22.9	24.1													
65	9.97	15.8	22.8	30.2	30.8													
70	11.9	21.3	30.5	39.1	38.8													
75	15.5	29.1	39.4	49.3	48.4													
80	21.0	37.3	51.3	61.1	60.1													
85	27.6	49.2	67.1	72.3	72.7													
90	34.9	50.4	77.5	82.2	86.8													
95	47.7	72.4	75.8	86.7	96.3													
100	61.3	85.7	96.0	101	113													
105	56.0	87.9	100	130	128													
110	48.1	102	131	160	155													
115	93.9	65.6	157	176	164													
120	75.3	88.7	81.5	134	115													
125	84.2	151	101	102	106													
130	96.6	103	188	179	186													
135	114	111	124	168	150													
140	149	122	127	133	131													
145	149	157	137	137	141													
150	147	208	166	147	148													
155	167	147	215	203	202													
160	176	155	153	156	160													
165	196	174	167	179	190													
170	176	181	194	207	220													
175	163	155	152	171	201													
180	168	169	151	141	138													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-28

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: