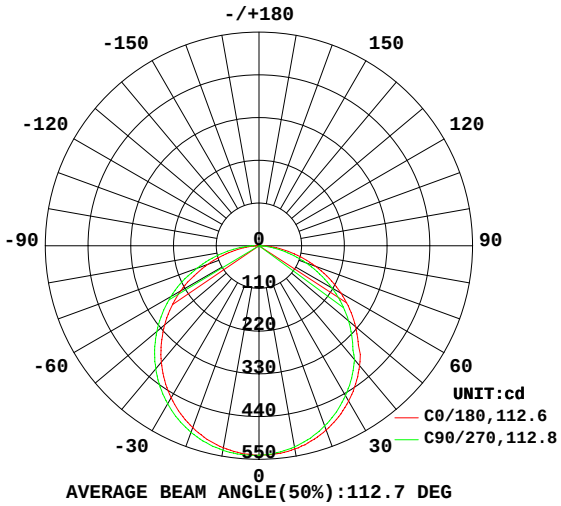
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

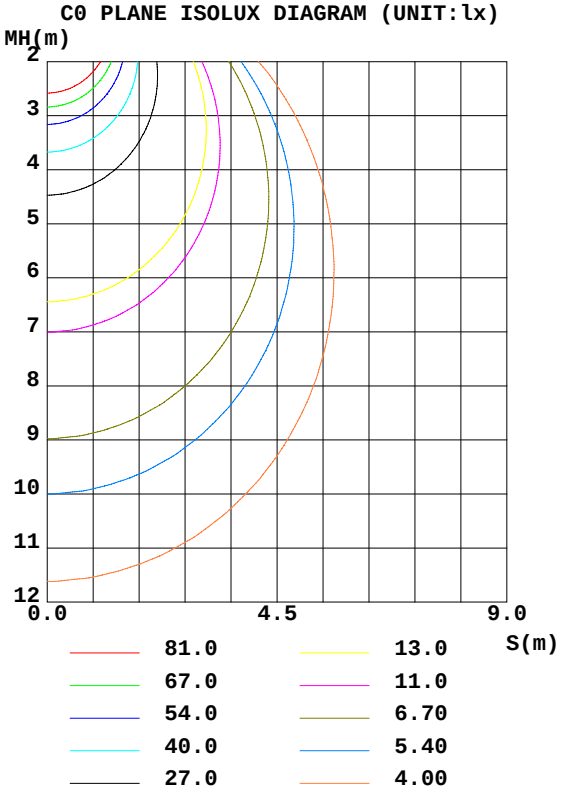
DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.49 lm/W			
MODEL	ASL-511202	Imax(cd)	540.2	S/MH(C0/180)	1.27
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1550.8	η UP,DN(C0-180)	0.0,52.0
NOMINAL FLUX(lm)	1550.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):112.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	528.0	532.2	534.8	534.5	531.2	527.7	525.9	526.5	0- 10	51.03	51.03	3.29,3.29
20	498.2	506.1	511.7	510.1	504.7	498.1	493.7	494.8	10- 20	146.3	197.3	12.7,12.7
30	452.3	463.1	470.3	469.7	461.5	451.4	445.5	446.8	20- 30	222.0	419.3	27,27
40	391.4	404.9	413.5	412.0	403.0	389.7	383.3	384.3	30- 40	268.4	687.8	44.3,44.3
50	317.2	332.2	343.6	342.1	324.9	309.4	300.7	303.0	40- 50	277.8	965.6	62.3,62.3
60	232.7	250.2	262.0	260.6	243.6	226.0	217.0	219.2	50- 60	251.2	1217	78.5,78.5
70	140.1	157.2	169.7	168.2	155.1	137.3	128.6	130.9	60- 70	191.5	1408	90.8,90.8
80	55.99	70.73	82.59	81.30	69.11	53.31	46.15	48.07	70- 80	110.7	1519	97.9,97.9
90	0.7032	4.106	10.74	9.660	2.690	0.6915	0.7166	0.7227	80- 90	31.79	1551	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

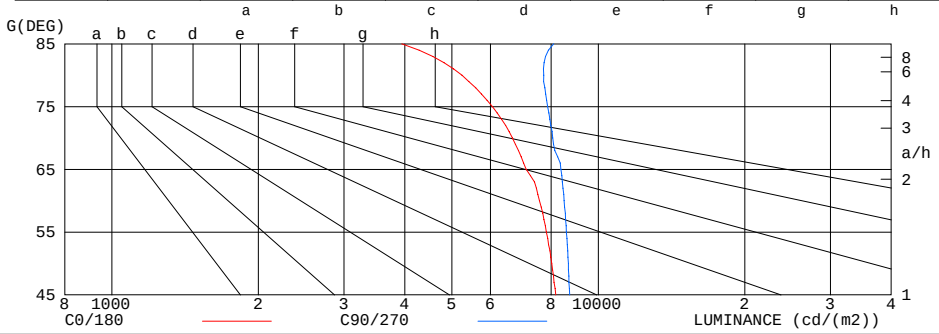
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:5000K**
MFR.: ASL Lighting	**SUR.:**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3944	8095
80	5243	7722
75	6054	7864
70	6659	8057
65	7104	8377
60	7568	8507
55	7820	8598
50	8023	8679
45	8177	8730

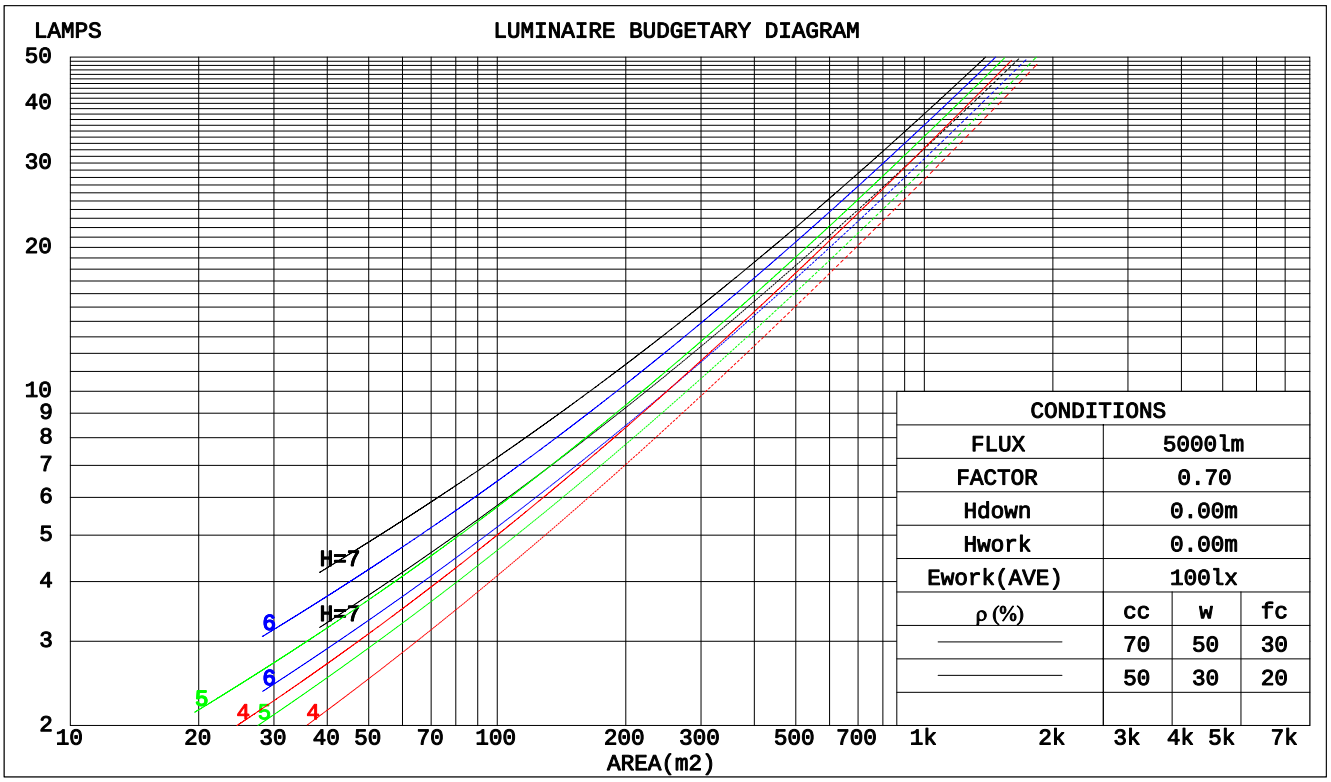
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding 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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	.99	.95	1.01	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.82	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.53	.47	.61	.53	.47	.59	.52	.46	.57	.51	.45	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.37
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding 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						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.312	.178	.056	.305	.174	.055	.292	.168	.053	.280	.161	.052	.269	.156	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.265	.148	.046	.255	.144	.045	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.220	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.034	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.022	.148	.075	.021	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.134	.154	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.128	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding 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	18.6	20.1	18.8	20.3	20.5	19.0	20.5	19.2	20.7	20.9
	3H	20.0	21.4	20.3	21.7	21.9	20.7	22.1	20.9	22.3	22.5
	4H	20.6	21.9	20.9	22.2	22.4	21.4	22.7	21.7	23.0	23.2
	6H	21.0	22.2	21.3	22.5	22.8	21.9	23.2	22.3	23.5	23.8
	8H	21.1	22.3	21.4	22.6	22.9	22.2	23.4	22.5	23.7	24.0
	12H	21.1	22.3	21.5	22.6	22.9	22.3	23.5	22.7	23.8	24.1
4H	2H	19.2	20.6	19.6	20.8	21.1	19.6	20.9	19.9	21.2	21.4
	3H	20.9	22.1	21.2	22.4	22.7	21.4	22.6	21.8	22.9	23.2
	4H	21.6	22.7	22.0	23.0	23.3	22.3	23.4	22.7	23.7	24.0
	6H	22.1	23.1	22.5	23.4	23.8	23.0	24.0	23.4	24.3	24.7
	8H	22.3	23.2	22.7	23.5	23.9	23.3	24.2	23.7	24.6	24.9
	12H	22.3	23.2	22.8	23.6	24.0	23.5	24.4	24.0	24.7	25.1
8H	4H	21.9	22.8	22.3	23.2	23.6	22.5	23.4	23.0	23.8	24.2
	6H	22.6	23.3	23.0	23.8	24.2	23.4	24.2	23.9	24.6	25.0
	8H	22.9	23.5	23.3	23.9	24.4	23.8	24.5	24.3	24.9	25.4
	12H	23.0	23.6	23.5	24.0	24.5	24.2	24.7	24.7	25.2	25.7
12H	4H	22.0	22.8	22.4	23.2	23.6	22.5	23.4	23.0	23.8	24.2
	6H	22.7	23.4	23.2	23.8	24.2	23.5	24.1	23.9	24.6	25.0
	8H	23.0	23.6	23.5	24.0	24.5	23.9	24.5	24.4	24.9	25.4

Variations with the observer position at spacings:		
S = 1.0H	+ 0.2 / - 0.2	+ 0.1 / - 0.2
1.5H	+ 0.2 / - 0.4	+ 0.2 / - 0.3
2.0H	+ 0.2 / - 0.4	+ 0.1 / - 0.3

CIE Pub.117, 1551 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.5)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

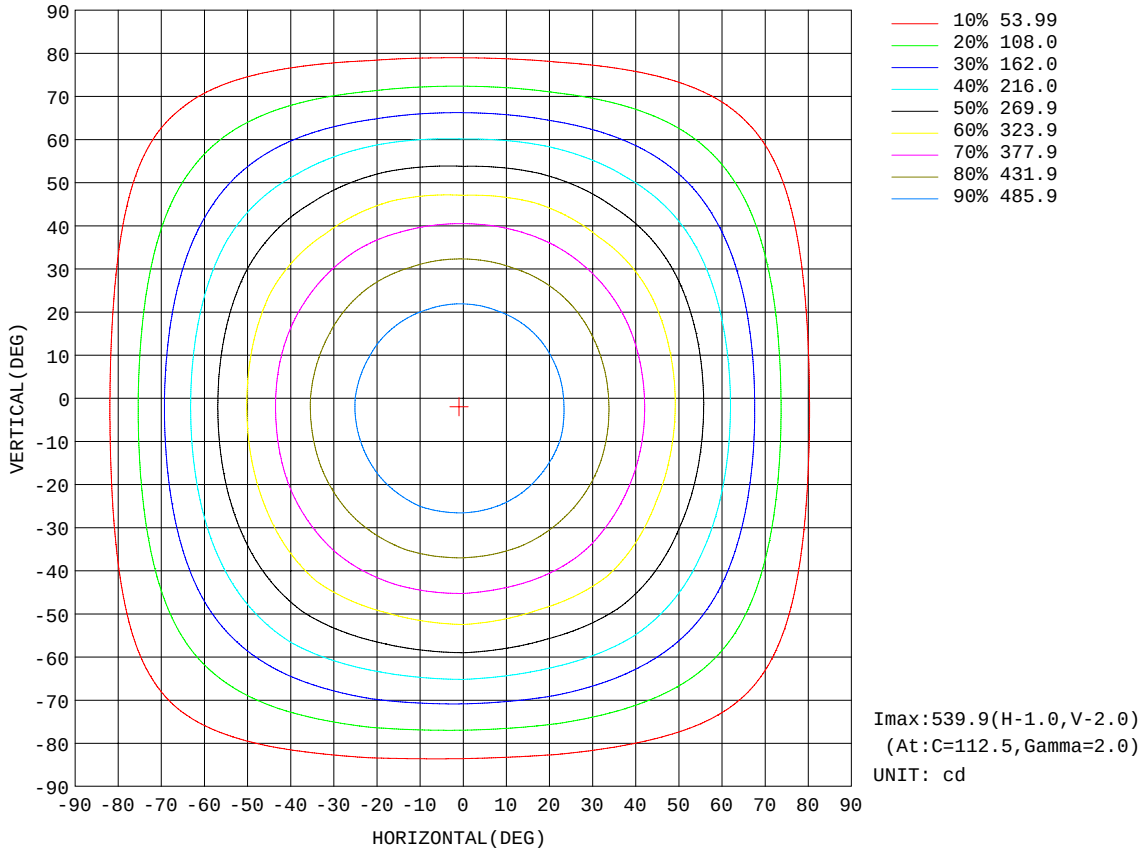
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	65	56	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



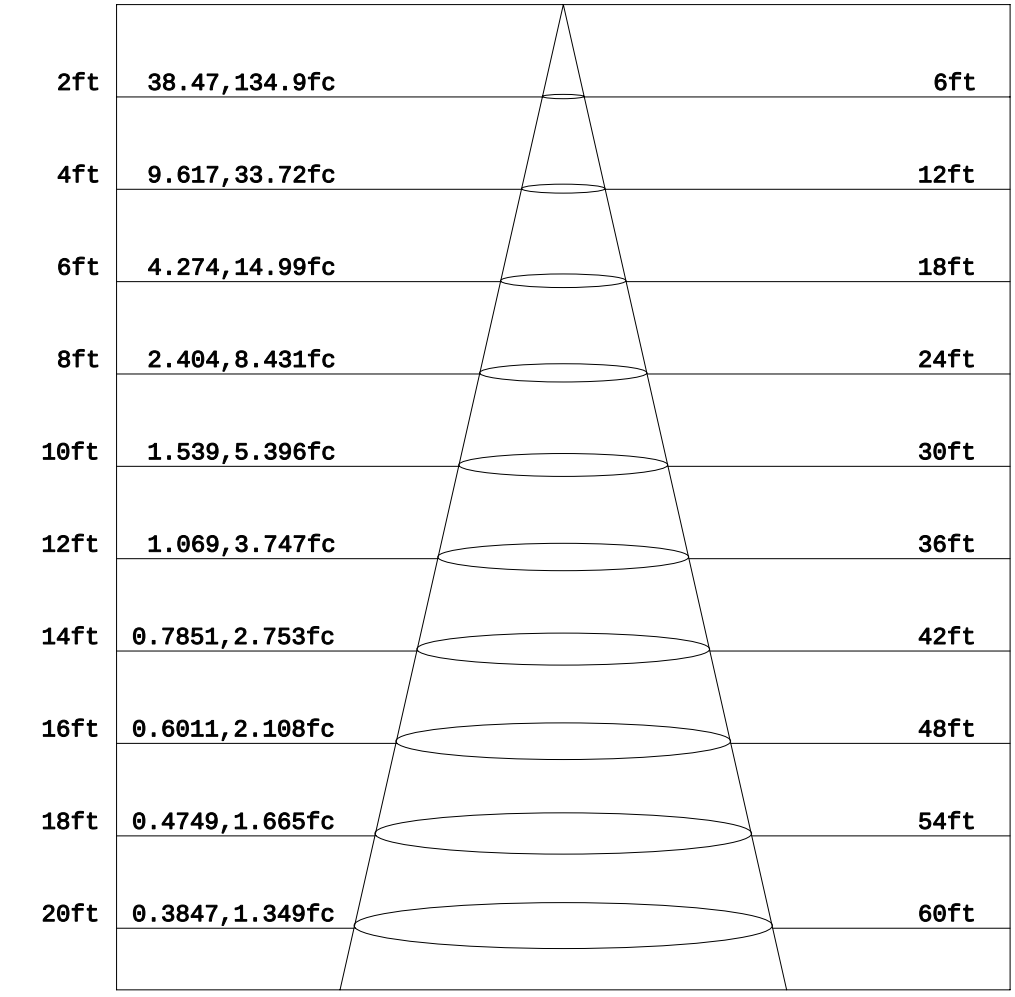
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

AAI Figure

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:1146 lm



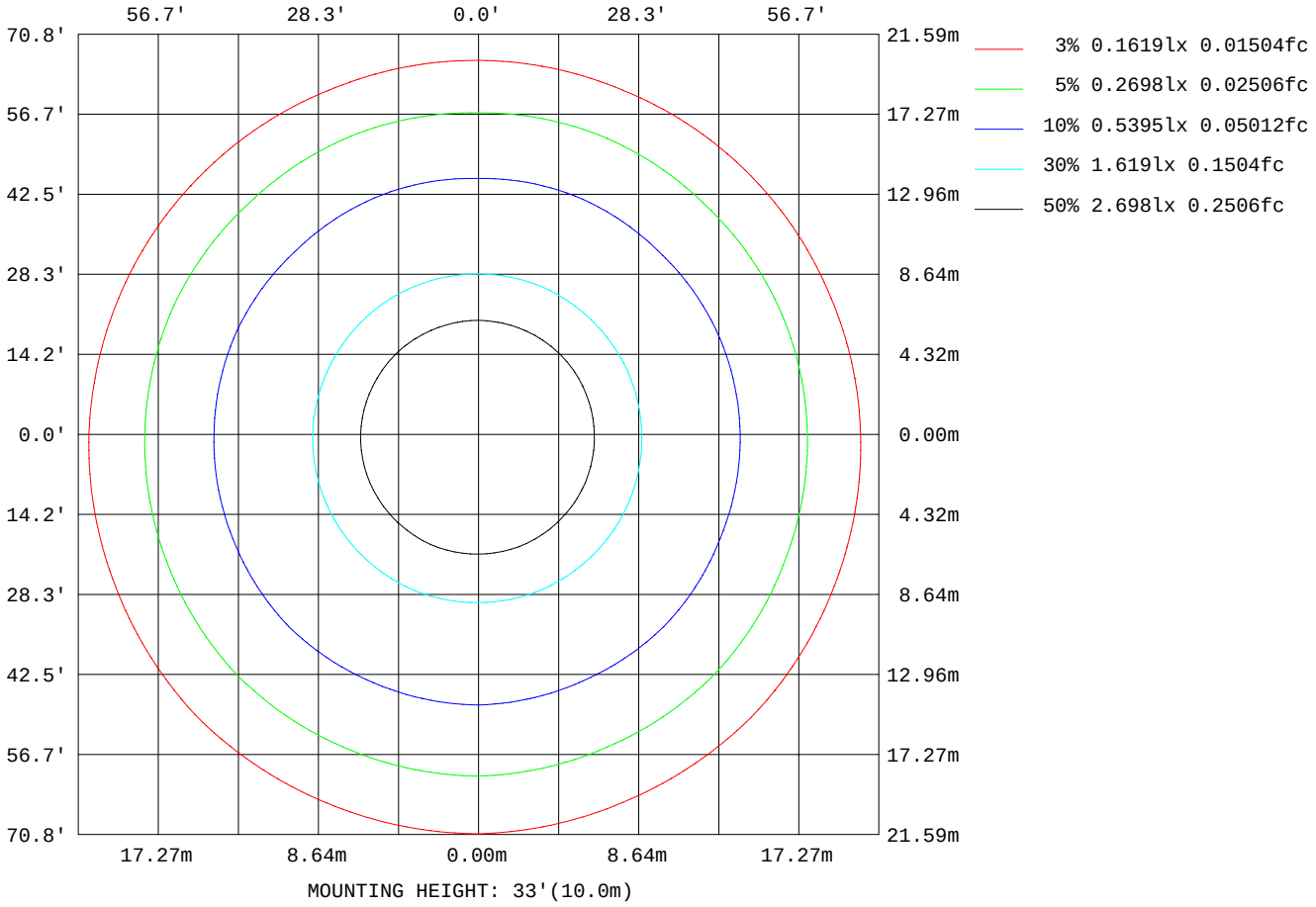
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

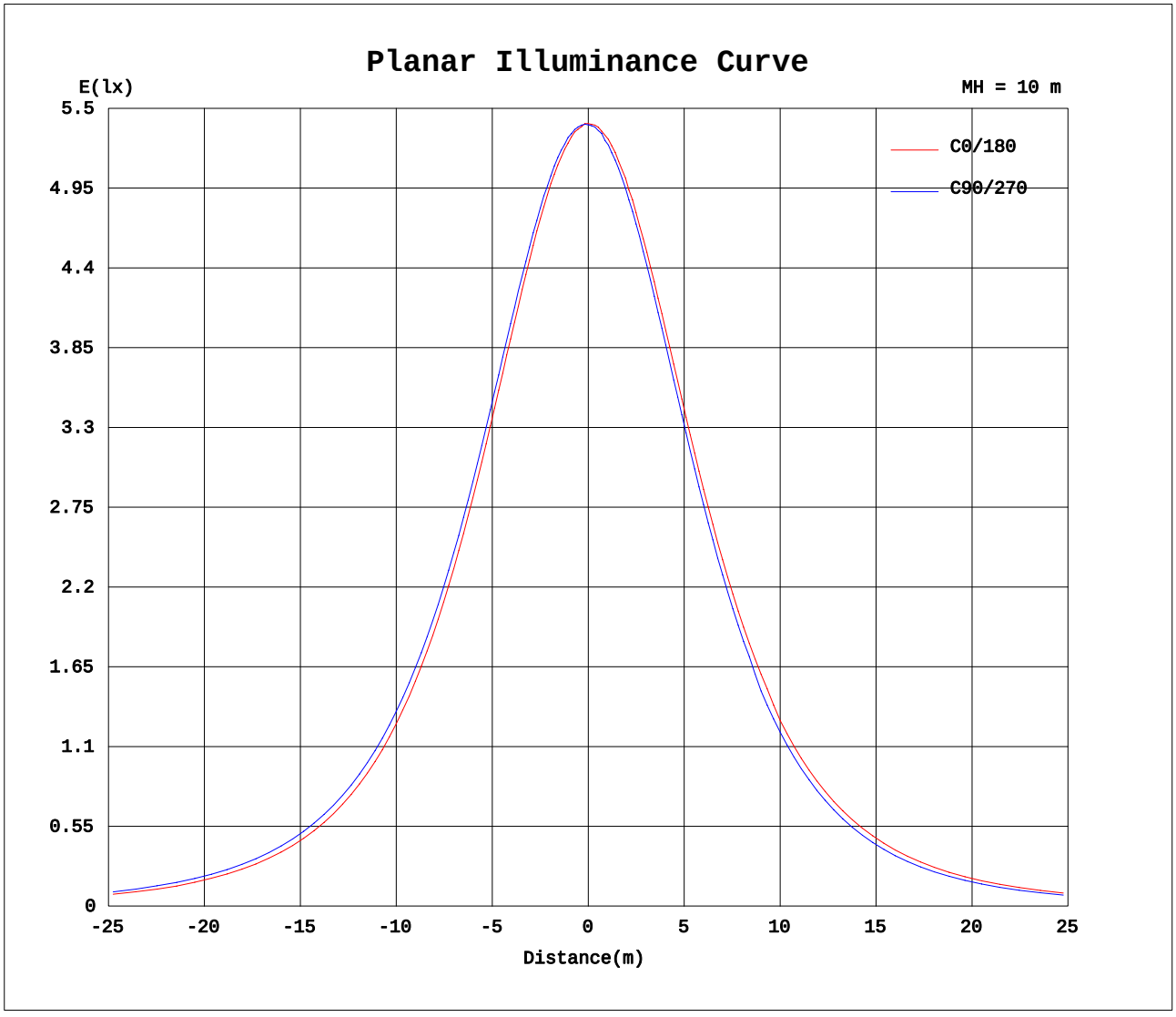
AvgL	cd/m2
L_0~180(65)av	7389
L_0~180(75)av	6508
L_0~180(85)av	4938
L_90~270(65)av	7511
L_90~270(75)av	6617
L_90~270(85)av	5221
L_45(65)av	7494
L_45(75)av	6566
L_45(85)av	5067

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.2000A P:22.00W PF:0.9150 Freq:60.00Hz Lamp Flux:1550.82x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:5000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	539	539	539	539	539	539	539	539	539	539	539	539	539	539	539	539			
5	536	537	538	539	539	539	539	538	537	536	536	535	534	534	535	535			
10	528	530	532	533	535	535	535	533	531	529	528	526	526	525	526	527			
15	516	519	521	523	525	525	525	523	520	517	515	512	513	511	513	514			
20	498	503	506	509	512	512	510	508	505	501	498	494	494	493	495	496			
25	477	482	486	491	492	494	492	489	486	480	477	472	472	471	473	474			
30	452	458	463	467	470	471	470	466	461	455	451	446	445	444	447	449			
35	423	431	435	441	444	445	443	439	434	427	422	416	416	415	417	419			
40	391	399	405	411	414	415	412	409	403	395	390	383	383	381	384	387			
45	356	358	370	374	380	382	379	371	362	359	348	347	340	344	341	350			
50	317	320	332	334	344	340	342	331	325	321	309	308	301	305	303	312			
55	276	280	292	295	304	301	302	292	285	280	269	266	260	263	262	270			
60	233	238	250	253	262	260	261	251	244	237	226	223	217	219	219	227			
65	185	194	206	210	218	217	217	207	200	189	182	174	173	172	175	179			
70	140	150	157	166	170	172	168	163	155	145	137	130	129	127	131	134			
75	96.4	105	113	121	125	128	124	119	111	100	93.6	86.9	85.4	84.3	87.7	91.0			
80	56.0	64.0	70.7	78.5	82.6	84.9	81.3	76.2	69.1	59.4	53.3	47.5	46.2	45.0	48.1	51.0			
85	21.1	27.9	33.5	40.1	43.5	45.4	42.4	37.9	31.8	23.9	18.8	14.1	12.6	11.7	14.0	16.9			
90	0.70	1.28	4.11	7.86	10.7	11.3	9.66	5.91	2.69	0.75	0.69	0.70	0.72	0.72	0.72	0.69			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks: