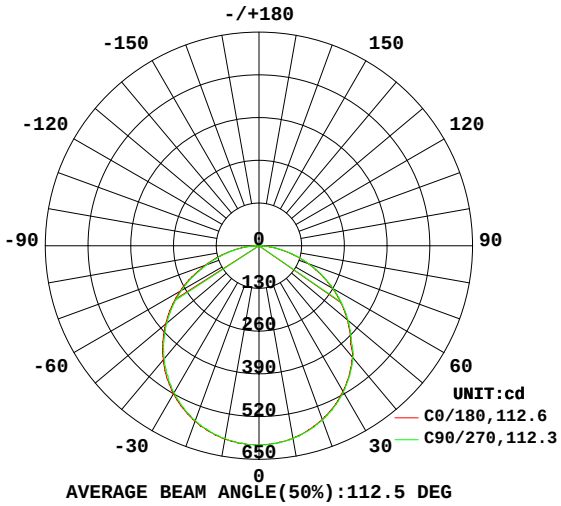
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

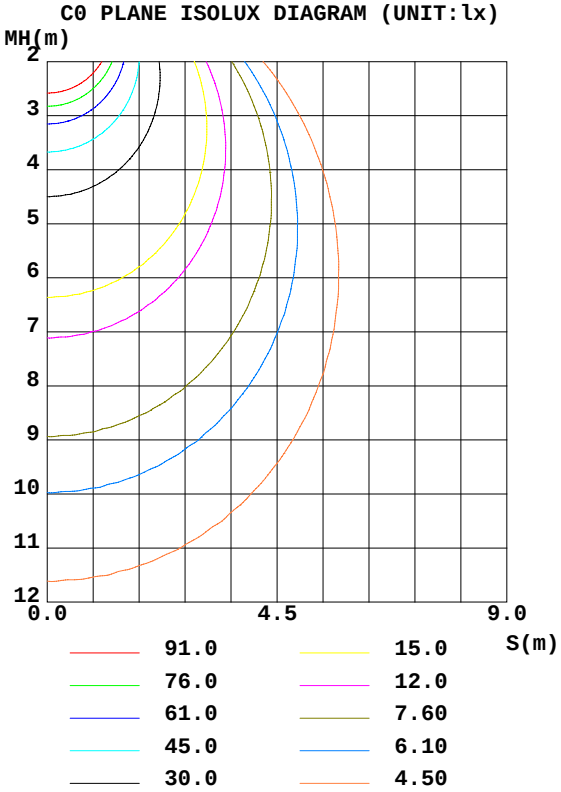
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 81.41 lm/W	
MODEL	ASL-511201	Imax(cd)	607.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1742.3	η UP,DN(C0-180)	0.0,50.5
NOMINAL FLUX(lm)	1742.27	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.5
LAMPS INSIDE	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%):112.5 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	597.9	597.8	594.9	595.3	595.3	595.2	595.2	597.2	0- 10	57.38	57.38	3.29,3.29
20	568.6	570.6	566.1	563.2	563.2	563.6	565.0	567.5	10- 20	164.7	222.1	12.7,12.7
30	520.1	520.5	516.2	512.2	511.7	511.5	513.3	518.8	20- 30	250.3	472.3	27.1,27.1
40	452.7	454.0	448.8	442.3	443.1	442.3	444.3	451.0	30- 40	302.5	774.9	44.5,44.5
50	371.5	373.0	365.7	358.9	350.9	350.3	354.0	361.2	40- 50	312.1	1087	62.4,62.4
60	277.6	279.0	272.2	264.1	257.7	257.3	260.6	268.7	50- 60	281.4	1368	78.5,78.5
70	174.1	175.4	169.0	160.8	158.8	157.9	161.7	170.1	60- 70	214.1	1582	90.8,90.8
80	79.21	80.00	75.02	67.79	65.40	64.03	68.07	75.64	70- 80	124.5	1707	98,98
90	2.582	3.143	1.434	0.7935	0.7724	0.7736	0.7517	1.204	80- 90	35.41	1742	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:2026-10-29

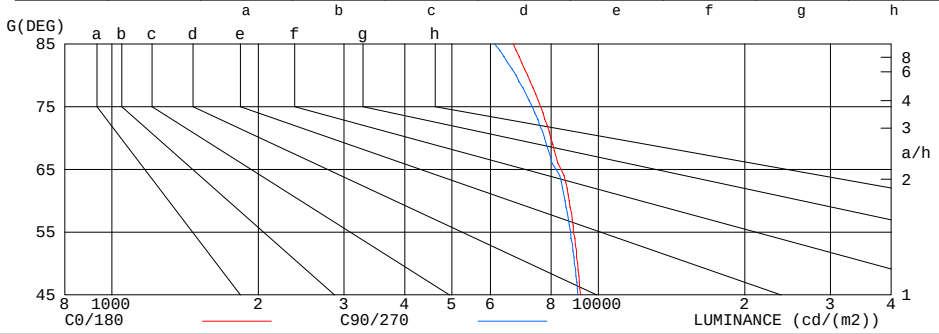
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0827]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:2700K**
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	6682	6118
80	7157	6777
75	7609	7315
70	7987	7751
65	8382	8187
60	8711	8539
55	8889	8773
50	9068	8926
45	9194	9075

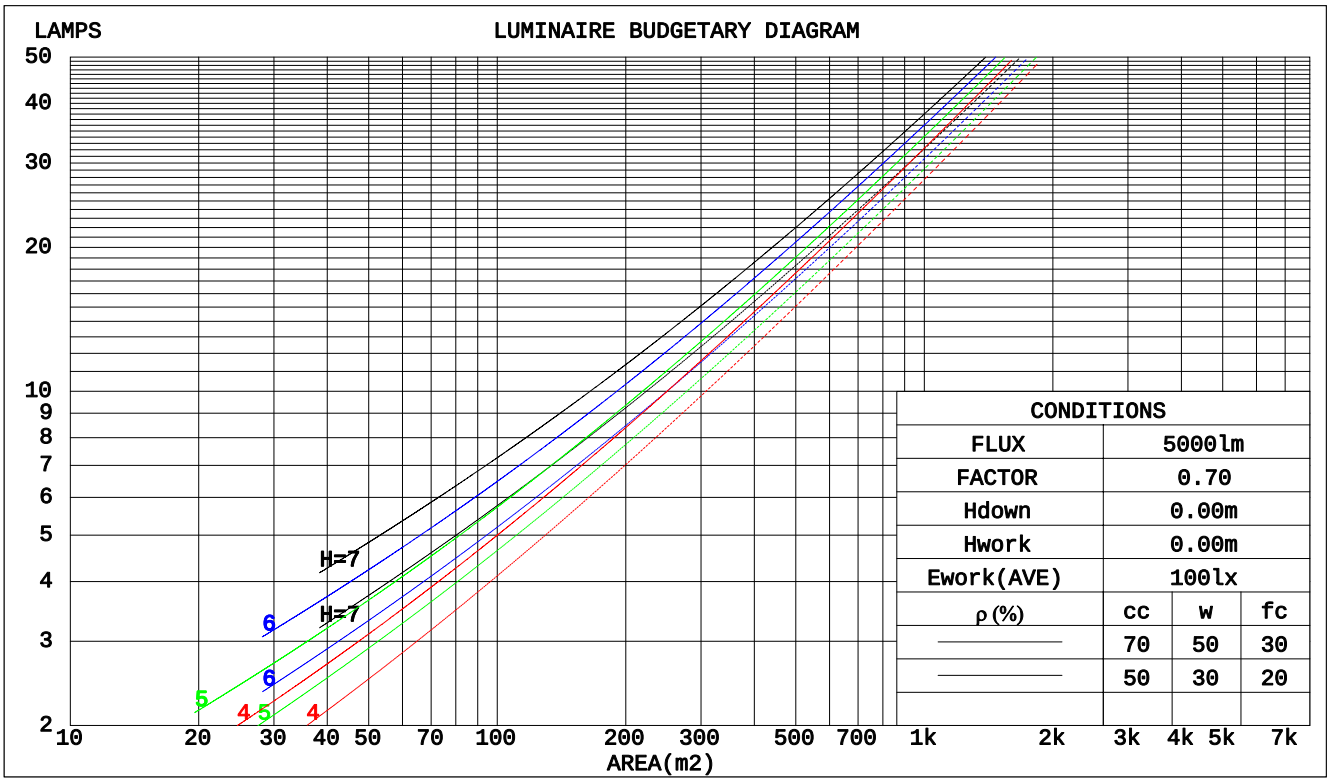
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
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	.96	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	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.51	.46	.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	.45	.37	.32	.43	.37	.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:2026-10-29

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=1.0827]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
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	.177	.056	.305	.174	.055	.292	.167	.053	.279	.161	.052	.268	.155	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.144	.045	
3.0	.271	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.237	.131	.041	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.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	.098	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.167	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.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	.088	.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:2026-10-29

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=1.0827]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
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	20.2	18.9	20.4	20.6	18.6	20.1	18.8	20.3	20.5
	3H	20.2	21.6	20.5	21.8	22.1	20.1	21.5	20.4	21.7	22.0
	4H	20.9	22.2	21.2	22.4	22.7	20.7	22.1	21.0	22.3	22.6
	6H	21.4	22.6	21.7	22.9	23.2	21.2	22.5	21.5	22.7	23.0
	8H	21.5	22.8	21.9	23.0	23.3	21.4	22.6	21.7	22.9	23.2
	12H	21.6	22.8	22.0	23.1	23.4	21.5	22.6	21.8	22.9	23.2
4H	2H	19.3	20.6	19.6	20.9	21.1	19.2	20.5	19.5	20.8	21.1
	3H	21.0	22.2	21.4	22.5	22.8	20.9	22.1	21.3	22.4	22.7
	4H	21.8	22.9	22.2	23.2	23.5	21.7	22.8	22.1	23.1	23.4
	6H	22.5	23.4	22.9	23.8	24.1	22.3	23.3	22.7	23.6	24.0
	8H	22.7	23.6	23.1	24.0	24.3	22.5	23.4	22.9	23.8	24.2
	12H	22.9	23.7	23.3	24.1	24.5	22.7	23.5	23.1	23.9	24.3
8H	4H	22.1	23.0	22.5	23.4	23.8	22.0	22.9	22.4	23.3	23.7
	6H	22.9	23.7	23.4	24.1	24.5	22.8	23.5	23.2	23.9	24.4
	8H	23.3	23.9	23.7	24.3	24.8	23.1	23.8	23.6	24.2	24.6
	12H	23.5	24.1	24.0	24.5	25.0	23.4	23.9	23.8	24.4	24.8
12H	4H	22.1	22.9	22.6	23.3	23.7	22.0	22.9	22.5	23.2	23.6
	6H	23.0	23.6	23.5	24.1	24.5	22.9	23.5	23.3	23.9	24.4
	8H	23.4	23.9	23.9	24.4	24.9	23.2	23.8	23.7	24.2	24.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1742 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

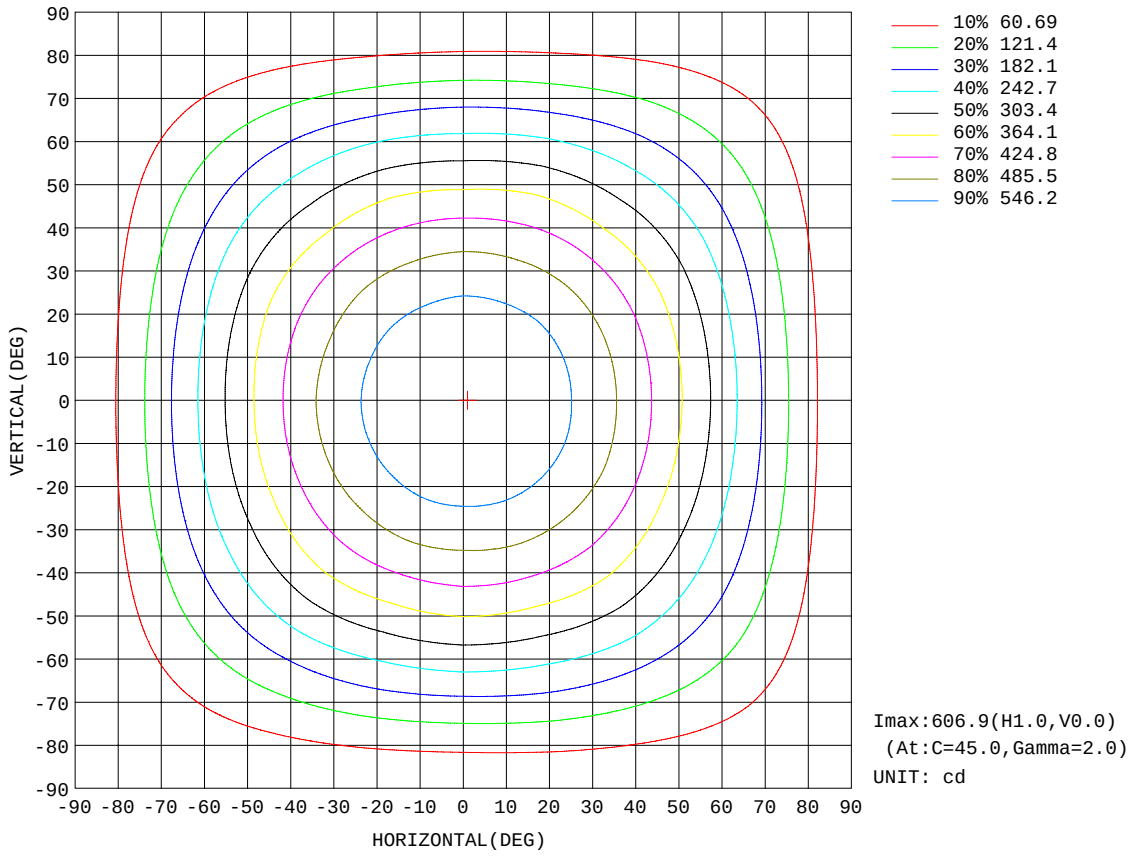
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	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	100	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:2026-10-29

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=1.0827]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



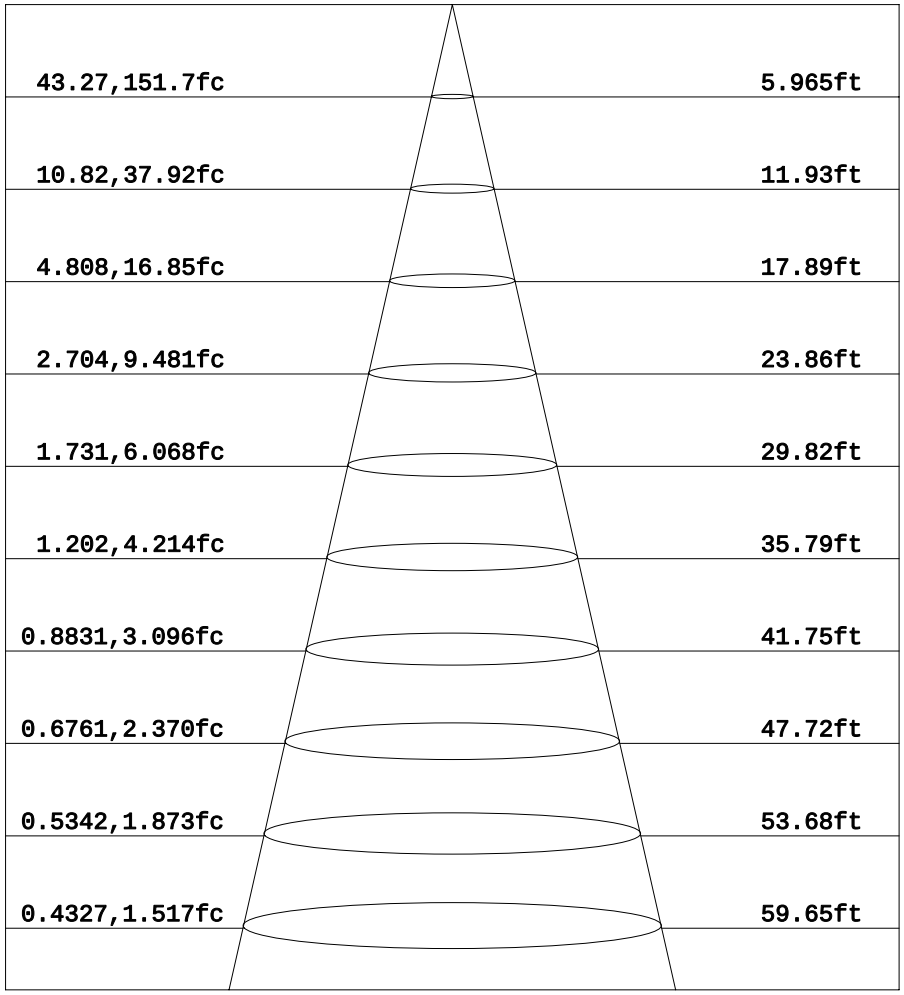
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

AAI Figure

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:1289 lm



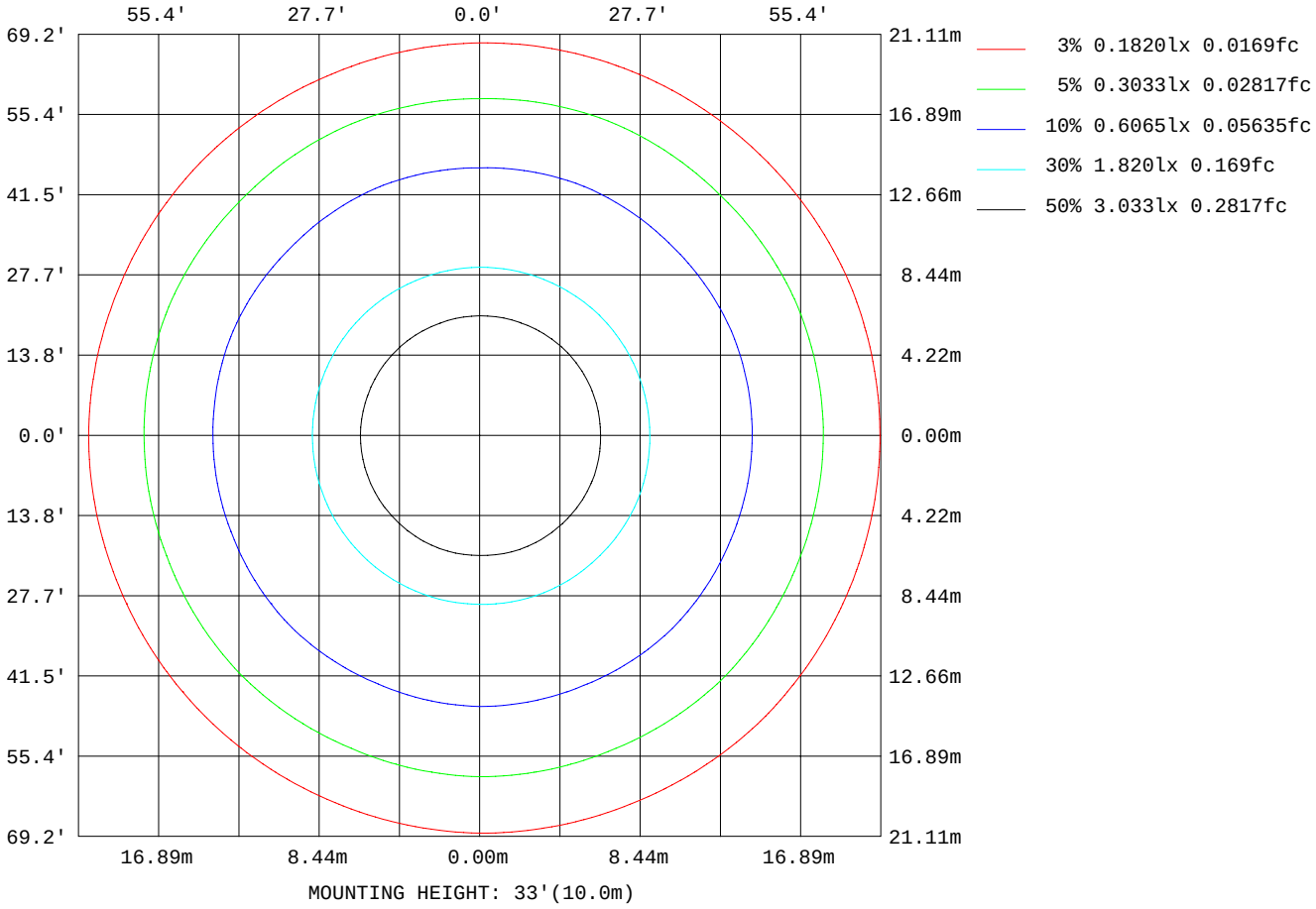
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

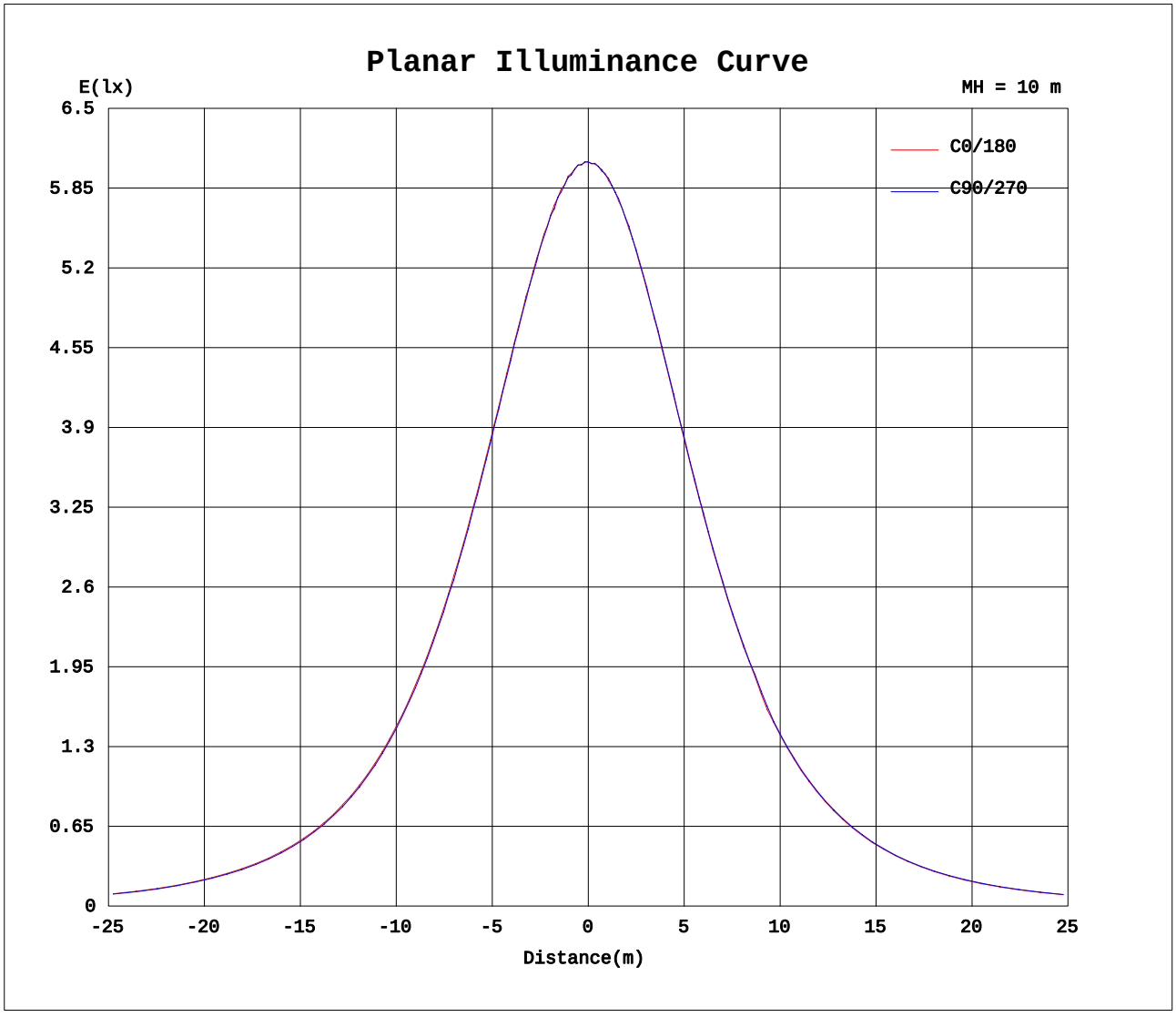
AvgL	cd/m2
L_0~180(65)av	8057
L_0~180(75)av	7145
L_0~180(85)av	5612
L_90~270(65)av	8012
L_90~270(75)av	7095
L_90~270(85)av	5555
L_45(65)av	8017
L_45(75)av	7129
L_45(85)av	5588

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1920A P:21.40W PF:0.9310 Freq:60.00Hz Lamp Flux:1742.27x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
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	606	606	606	606	606	606	606	606	606	606	606	606	606	606	606	606			
5	604	605	605	604	603	604	602	603	604	603	603	601	603	604	604	604			
10	598	598	598	597	595	596	595	594	595	594	595	593	595	596	597	597			
15	586	587	587	584	584	583	581	581	581	581	582	581	582	582	585	586			
20	569	571	571	567	566	566	563	563	563	562	564	562	565	565	568	568			
25	546	549	548	546	544	543	540	540	540	539	540	538	541	543	546	547			
30	520	523	520	520	516	516	512	512	512	509	512	511	513	515	519	519			
35	490	491	491	488	484	484	479	479	479	478	479	477	482	483	486	488			
40	453	456	454	453	449	448	442	442	443	440	442	440	444	446	451	453			
45	414	410	415	406	409	400	402	394	394	400	394	400	397	406	403	413			
50	371	368	373	364	366	357	359	351	351	355	350	356	354	363	361	370			
55	325	323	326	320	321	312	312	305	305	309	305	310	308	317	316	325			
60	278	276	279	272	272	265	264	257	258	260	257	261	261	268	269	276			
65	226	227	227	223	221	216	210	208	208	206	207	207	211	214	220	225			
70	174	177	175	174	169	166	161	159	159	157	158	158	162	165	170	173			
75	126	129	127	125	121	118	113	111	110	108	109	110	113	116	122	125			
80	79.2	81.6	80.0	79.0	75.0	72.6	67.8	65.8	65.4	63.1	64.0	64.2	68.1	70.6	75.6	78.1			
85	37.1	39.3	38.0	37.4	34.0	31.9	27.8	25.8	25.3	23.2	24.1	24.3	27.7	30.0	34.3	36.4			
90	2.58	3.16	3.14	2.30	1.43	0.86	0.79	0.80	0.77	0.77	0.77	0.76	0.75	0.79	1.20	2.28			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0827]
Remarks: