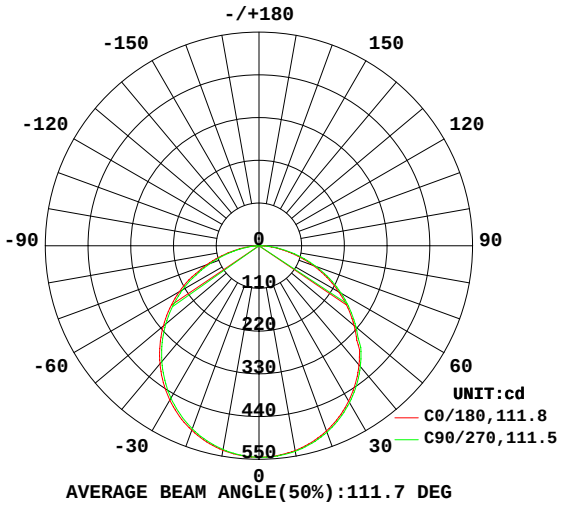
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

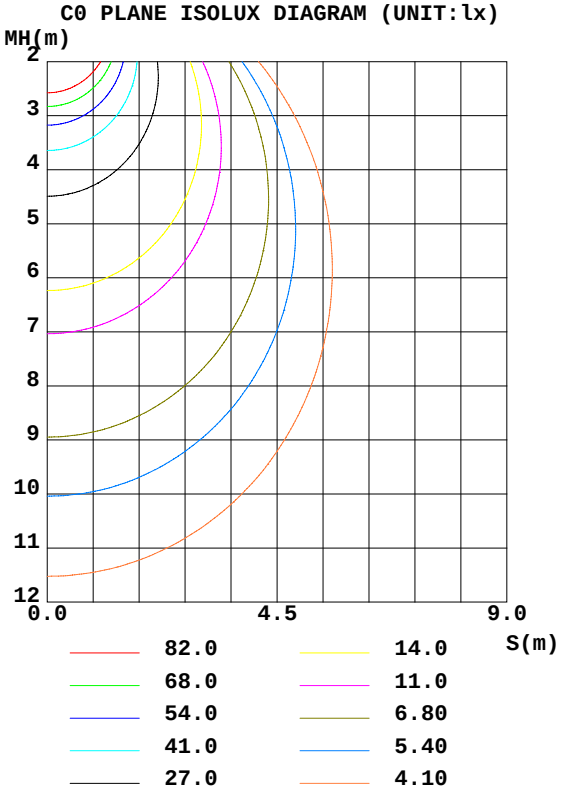
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 89.81 lm/W	
MODEL	ASL-510901	Imax(cd)	544.8	S/MH(C0/180)	1.26
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1544.8	η UP,DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	1544.78	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.1
LAMPS INSIDE	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%):111.7 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	534.9	533.8	532.7	533.3	535.6	536.3	537.6	537.1	0- 10	51.53	51.53	3.34,3.34
20	505.9	503.6	501.8	503.0	507.6	508.8	511.2	510.6	10- 20	147.6	199.2	12.9,12.9
30	459.1	455.6	453.3	455.3	461.5	463.8	466.5	465.8	20- 30	223.7	422.9	27.4,27.4
40	396.7	392.3	389.2	392.3	400.6	402.7	406.0	404.9	30- 40	269.5	692.4	44.8,44.8
50	321.6	316.6	313.0	316.7	320.0	322.4	326.0	325.0	40- 50	278.0	970.3	62.8,62.8
60	236.8	231.4	227.4	231.6	237.3	240.2	244.1	242.7	50- 60	249.6	1220	79,79
70	143.2	138.1	134.1	137.9	148.7	152.3	156.1	154.1	60- 70	189.2	1409	91.2,91.2
80	57.54	53.34	50.04	52.93	62.48	66.25	69.59	66.93	70- 80	107.3	1516	98.2,98.2
90	0.6653	0.6711	0.7008	0.6829	0.6653	1.568	2.898	1.704	80- 90	28.35	1545	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:2026-10-28

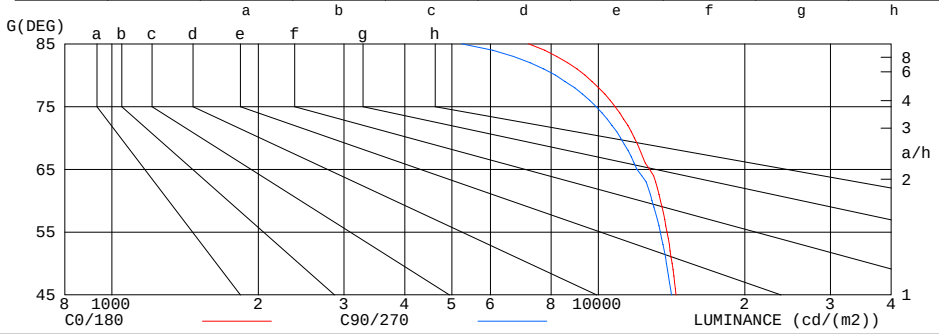
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:3000K**
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	7186	5238
80	9390	8169
75	10823	9895
70	11862	11114
65	12745	12004
60	13419	12894
55	13846	13411
50	14178	13805
45	14445	14138

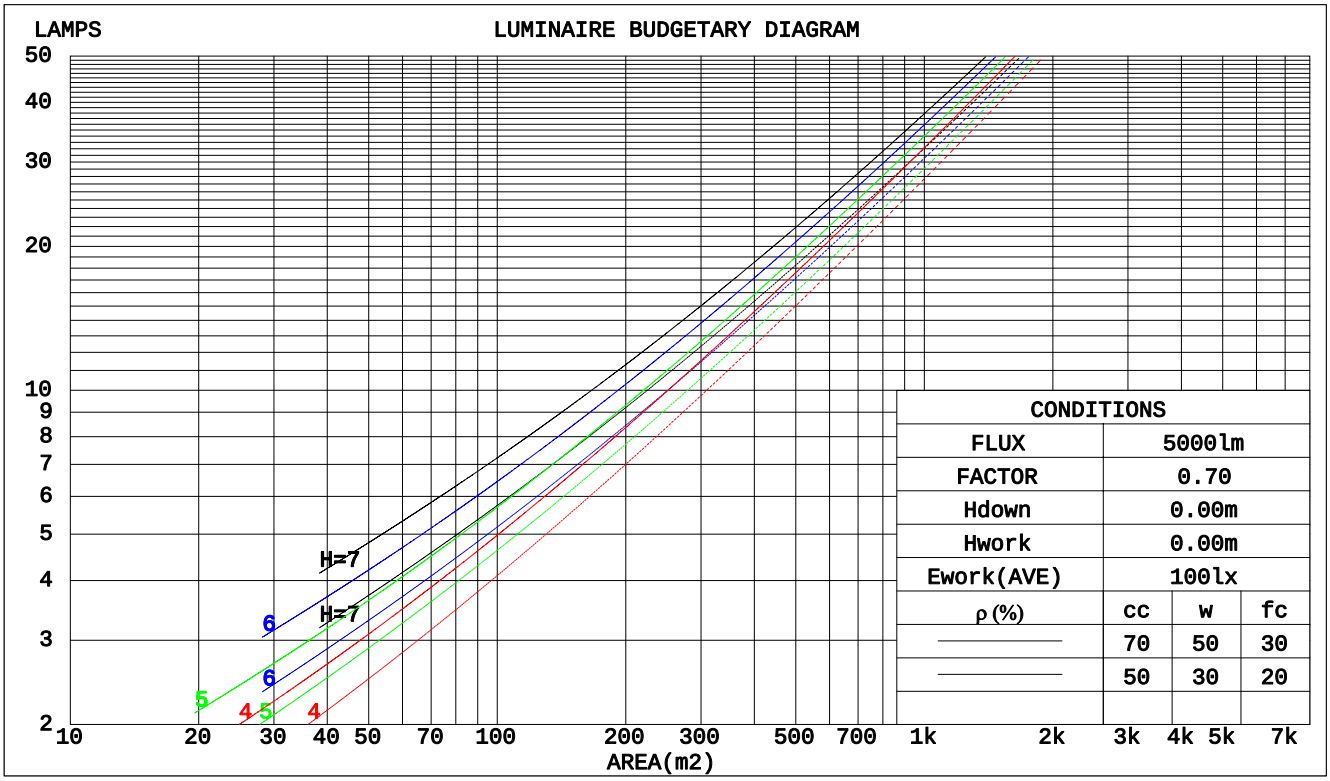
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
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	.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.45	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
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	.309	.176	.056	.302	.172	.055	.288	.165	.053	.276	.159	.051	.265	.154	.050	
2.0	.291	.159	.049	.285	.157	.048	.273	.152	.047	.262	.147	.046	.252	.143	.045	
3.0	.269	.143	.043	.264	.141	.043	.254	.137	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.235	.124	.037	.226	.121	.037	.218	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.213	.107	.031	.210	.106	.030	.202	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.025	.182	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.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	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
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:2026-10-28

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=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
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	20.4	21.9	20.7	22.1	22.3	20.2	21.8	20.5	22.0	22.2
	3H	21.9	23.3	22.2	23.5	23.8	21.6	23.0	21.9	23.3	23.5
	4H	22.4	23.8	22.8	24.0	24.3	22.2	23.5	22.5	23.8	24.0
	6H	22.8	24.1	23.2	24.4	24.6	22.5	23.8	22.8	24.0	24.3
	8H	22.9	24.2	23.3	24.4	24.7	22.6	23.8	22.9	24.1	24.4
	12H	23.0	24.2	23.3	24.5	24.8	22.6	23.8	22.9	24.1	24.4
4H	2H	21.0	22.3	21.3	22.6	22.8	20.8	22.2	21.2	22.4	22.7
	3H	22.6	23.8	23.0	24.1	24.4	22.4	23.6	22.8	23.9	24.2
	4H	23.3	24.4	23.7	24.7	25.0	23.1	24.1	23.4	24.5	24.8
	6H	23.8	24.8	24.2	25.1	25.5	23.5	24.5	23.9	24.8	25.2
	8H	24.0	24.9	24.4	25.2	25.6	23.6	24.5	24.0	24.9	25.3
	12H	24.1	24.9	24.5	25.3	25.7	23.7	24.5	24.1	24.9	25.3
8H	4H	23.5	24.4	24.0	24.8	25.2	23.3	24.2	23.7	24.6	24.9
	6H	24.2	24.9	24.6	25.3	25.8	23.9	24.6	24.3	25.0	25.5
	8H	24.4	25.1	24.9	25.5	25.9	24.1	24.7	24.5	25.1	25.6
	12H	24.6	25.1	25.1	25.6	26.1	24.2	24.7	24.6	25.2	25.7
12H	4H	23.5	24.4	24.0	24.7	25.1	23.3	24.1	23.7	24.5	24.9
	6H	24.2	24.9	24.7	25.3	25.7	23.9	24.6	24.4	25.0	25.5
	8H	24.5	25.0	25.0	25.5	26.0	24.1	24.7	24.6	25.2	25.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1545 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:2026-10-28

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=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

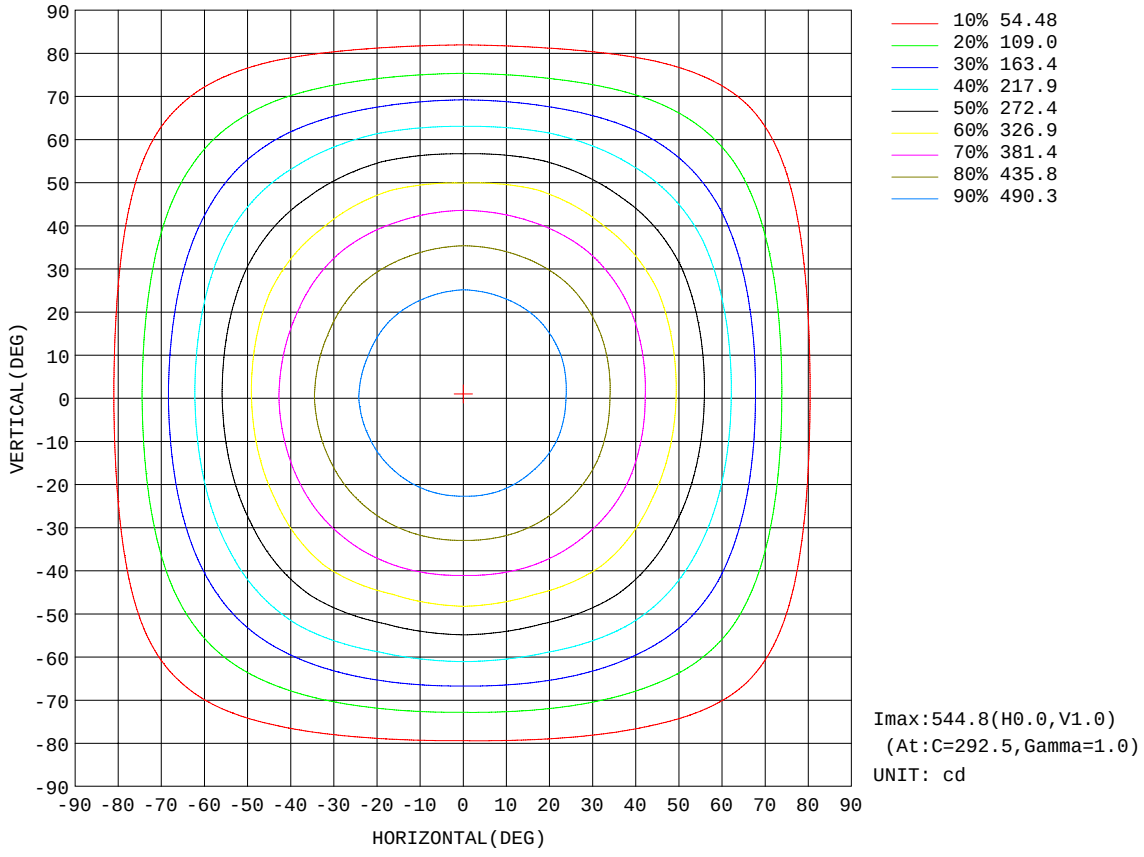
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	77	71	83	76	70	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	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:2026-10-28

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=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



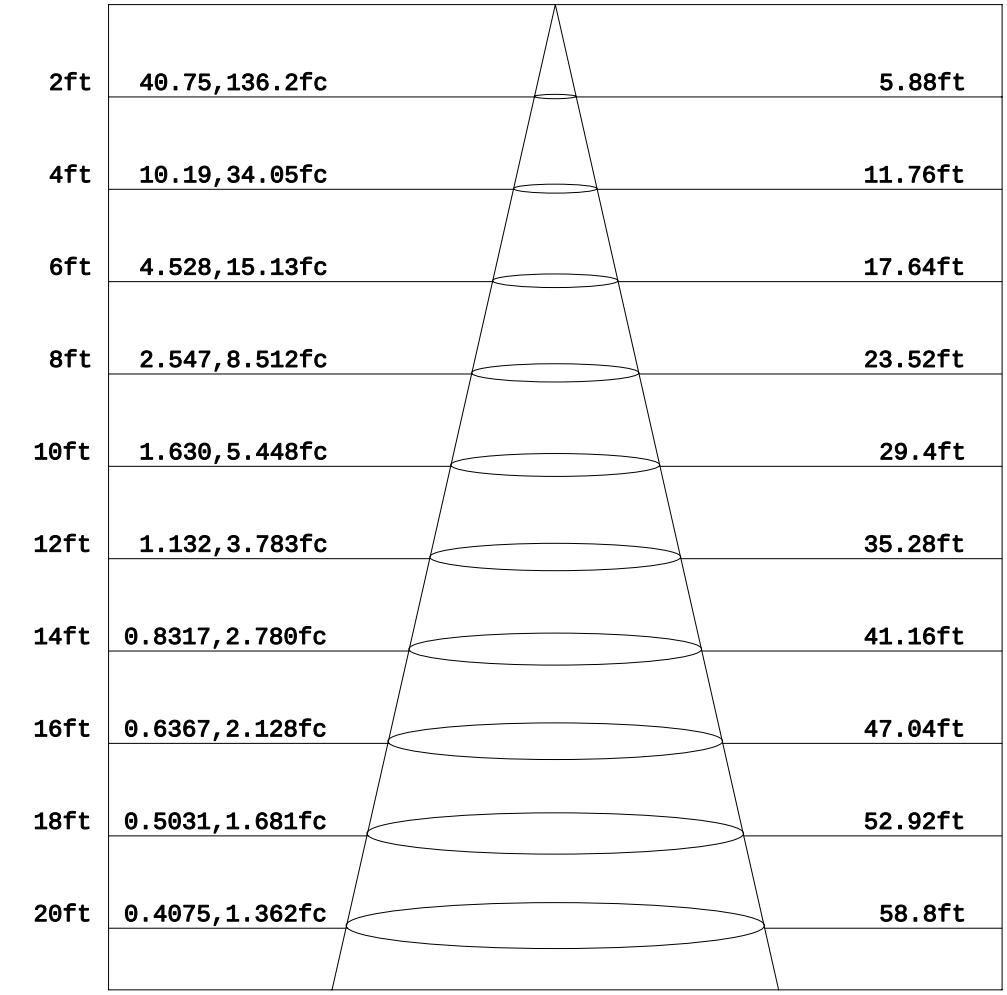
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:1126 lm



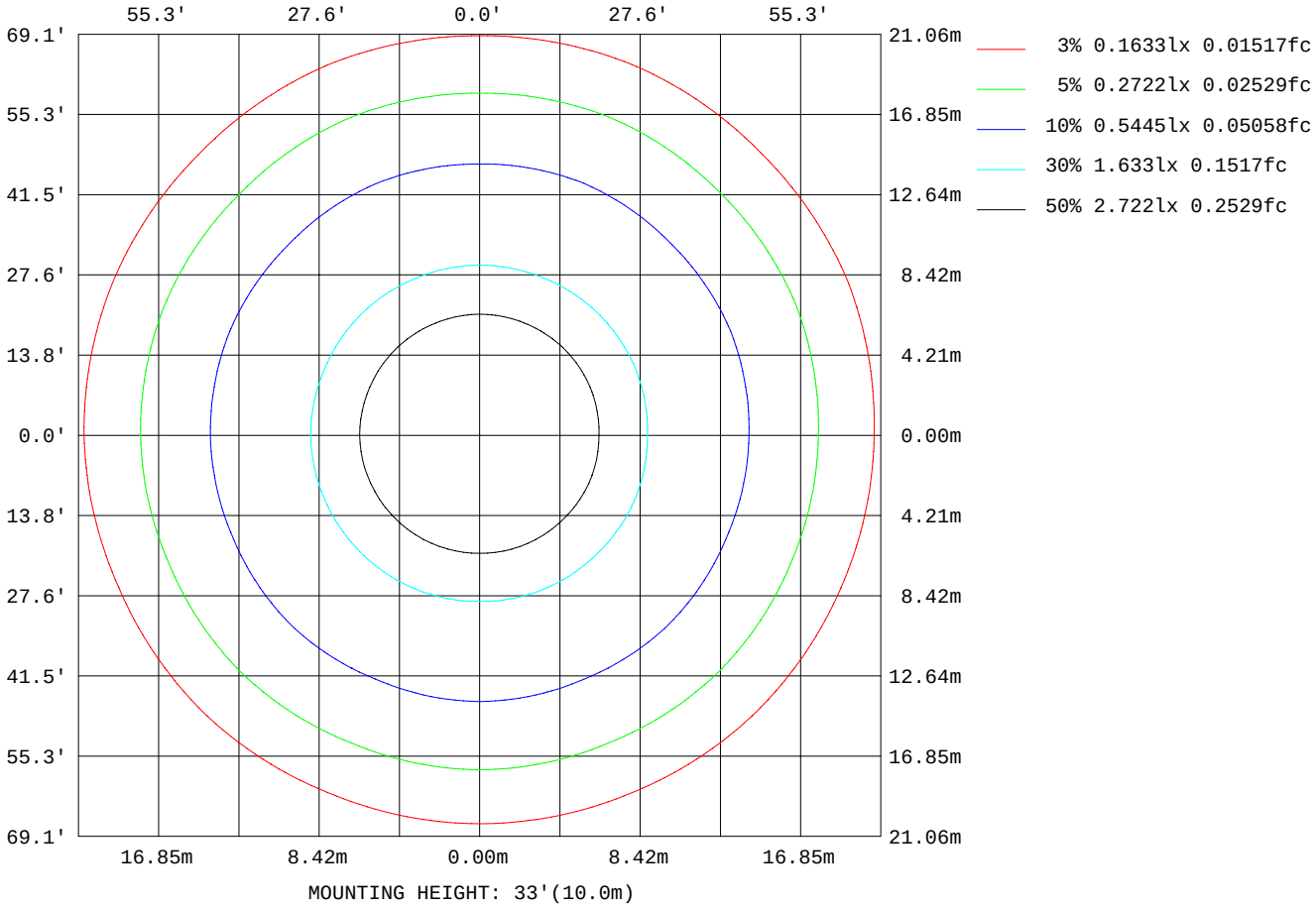
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

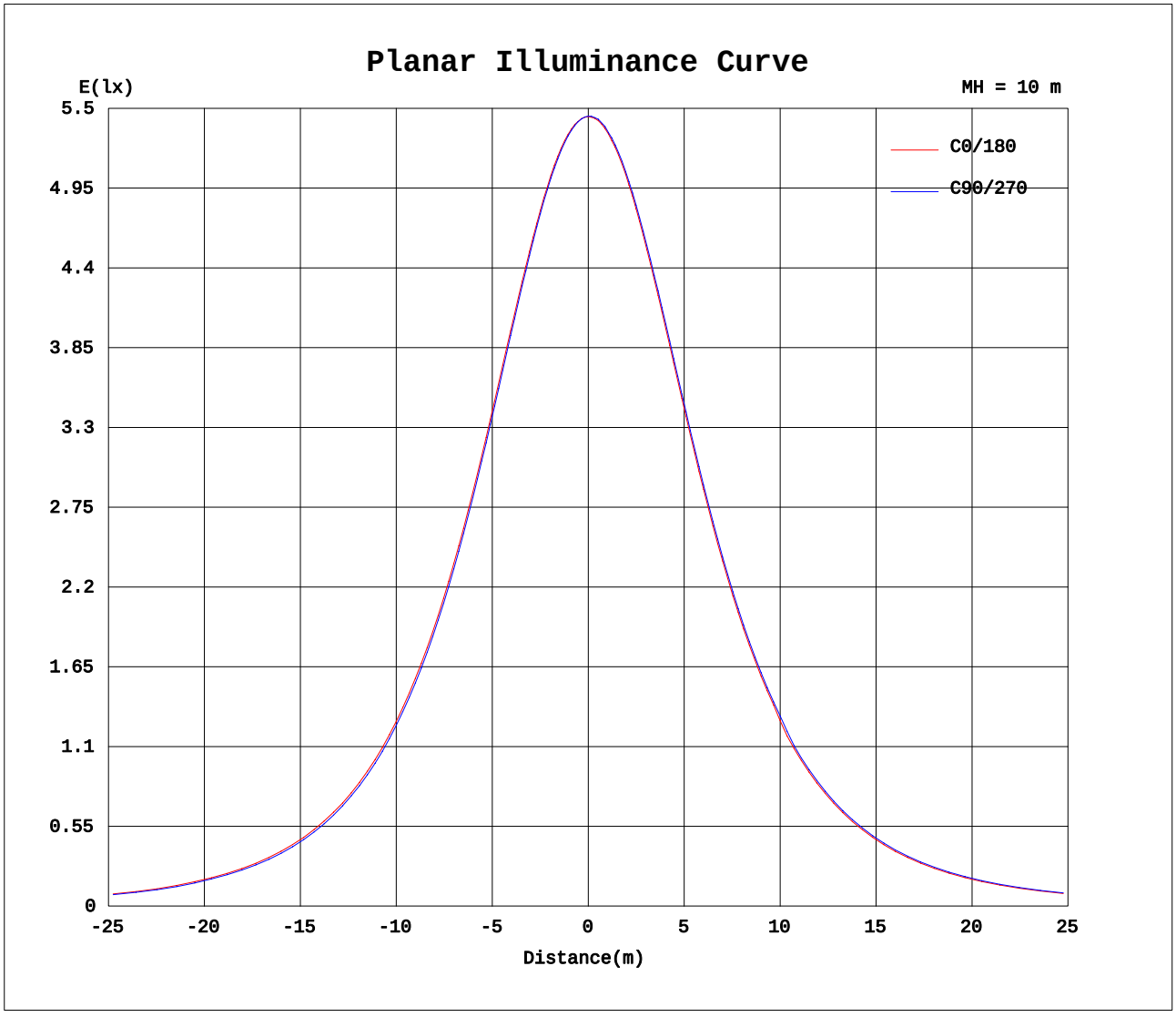
AvgL	cd/m2
L_0~180(65)av	12861
L_0~180(75)av	11121
L_0~180(85)av	7879
L_90~270(65)av	12733
L_90~270(75)av	11072
L_90~270(85)av	7919
L_45(65)av	12759
L_45(75)av	11096
L_45(85)av	7898

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.0V I:0.1560A P:17.20W PF:0.9190 Freq:60.00Hz Lamp Flux:1544.78x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
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	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545			
5	542	542	542	541	541	541	541	542	542	542	543	543	544	543	543	543			
10	535	535	534	533	533	533	533	534	536	536	536	536	538	537	537	536			
15	523	522	521	520	520	520	521	522	524	524	525	525	527	527	526	525			
20	506	506	504	503	502	503	503	505	508	507	509	509	511	511	511	509			
25	485	485	482	481	479	481	481	483	487	486	488	489	491	490	490	488			
30	459	459	456	455	453	455	455	457	461	461	464	464	466	466	466	464			
35	430	430	426	425	423	425	425	428	433	432	435	436	438	437	438	435			
40	397	397	392	392	389	391	392	396	401	400	403	403	406	405	405	403			
45	360	356	356	348	353	348	356	355	362	364	365	368	371	370	370	367			
50	322	315	317	309	313	309	317	314	320	325	322	329	326	331	325	328			
55	280	274	275	268	271	268	275	274	280	284	282	289	286	291	285	287			
60	237	232	231	225	227	225	232	231	237	241	240	246	244	248	243	244			
65	190	187	183	181	179	181	183	187	193	197	197	202	201	203	199	200			
70	143	143	138	136	134	136	138	142	149	149	152	154	156	155	154	151			
75	98.8	98.4	94.1	92.6	90.4	91.8	93.8	97.4	104	104	108	109	112	110	109	106			
80	57.5	57.2	53.3	52.1	50.0	51.2	52.9	56.2	62.5	62.6	66.3	67.5	69.6	67.7	66.9	64.0			
85	22.1	21.7	18.8	17.7	16.1	17.1	18.4	21.1	26.4	26.8	29.9	31.0	32.6	30.8	30.0	27.4			
90	0.67	0.67	0.67	0.68	0.70	0.70	0.68	0.68	0.67	0.76	1.57	2.46	2.90	2.39	1.70	0.96			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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=1.0000]
Remarks: