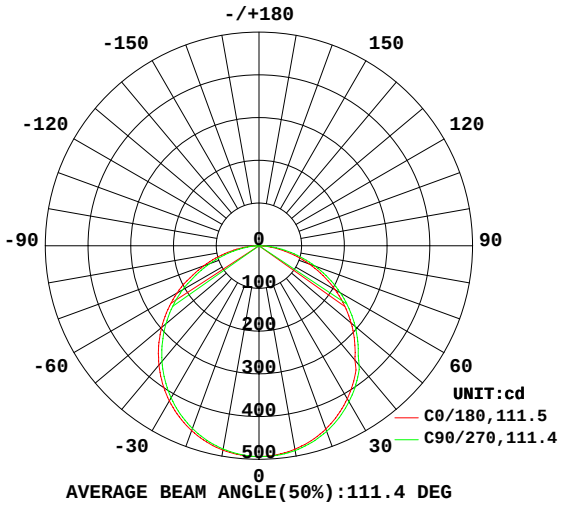
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

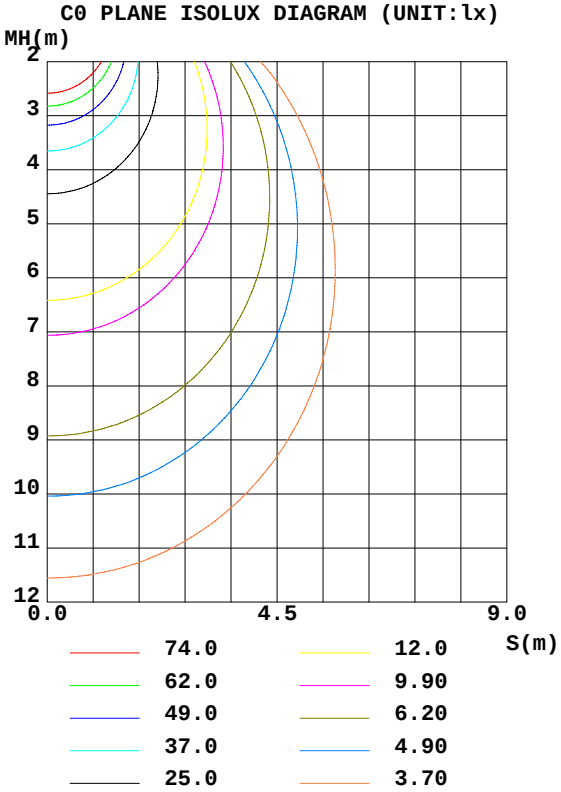
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 80.68 lm/W	
MODEL	ASL-510902	Imax(cd)	494.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1395.8	η UP,DN(C0-180)	0.0,49.2
NOMINAL FLUX(lm)	1395.76	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.8
LAMPS INSIDE	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%):111.4 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	485.8	484.2	483.0	482.6	483.7	485.3	486.9	487.2	0- 10	46.70	46.70	3.35,3.35
20	460.8	458.3	455.2	454.1	456.7	459.8	462.4	463.4	10- 20	133.8	180.5	12.9,12.9
30	419.5	415.9	411.2	409.5	413.7	418.1	421.7	422.8	20- 30	202.6	383.1	27.4,27.4
40	364.4	359.8	353.5	350.6	349.1	359.0	364.4	369.3	30- 40	243.8	626.9	44.9,44.9
50	297.6	291.7	284.3	281.2	281.5	288.8	294.1	295.9	40- 50	250.2	877.0	62.8,62.8
60	221.7	215.3	207.0	203.5	205.8	213.6	219.6	222.2	50- 60	225.5	1103	79,79
70	137.6	130.8	122.8	119.3	125.2	133.2	139.9	142.6	60- 70	170.5	1273	91.2,91.2
80	59.88	53.44	46.74	43.77	48.38	55.26	61.96	64.60	70- 80	97.08	1370	98.2,98.2
90	1.336	0.5937	0.6474	0.6654	0.5876	0.5700	1.681	3.095	80- 90	25.67	1396	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

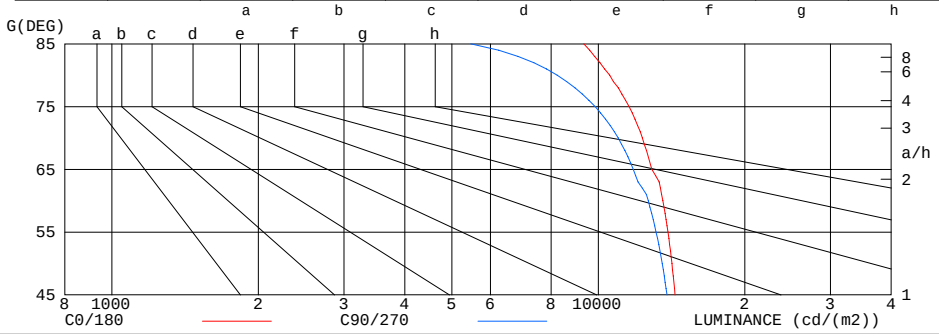
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 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	9337	5468
80	10556	8233
75	11567	9852
70	12319	10983
65	12881	11798
60	13575	12667
55	13904	13141
50	14172	13529
45	14380	13838

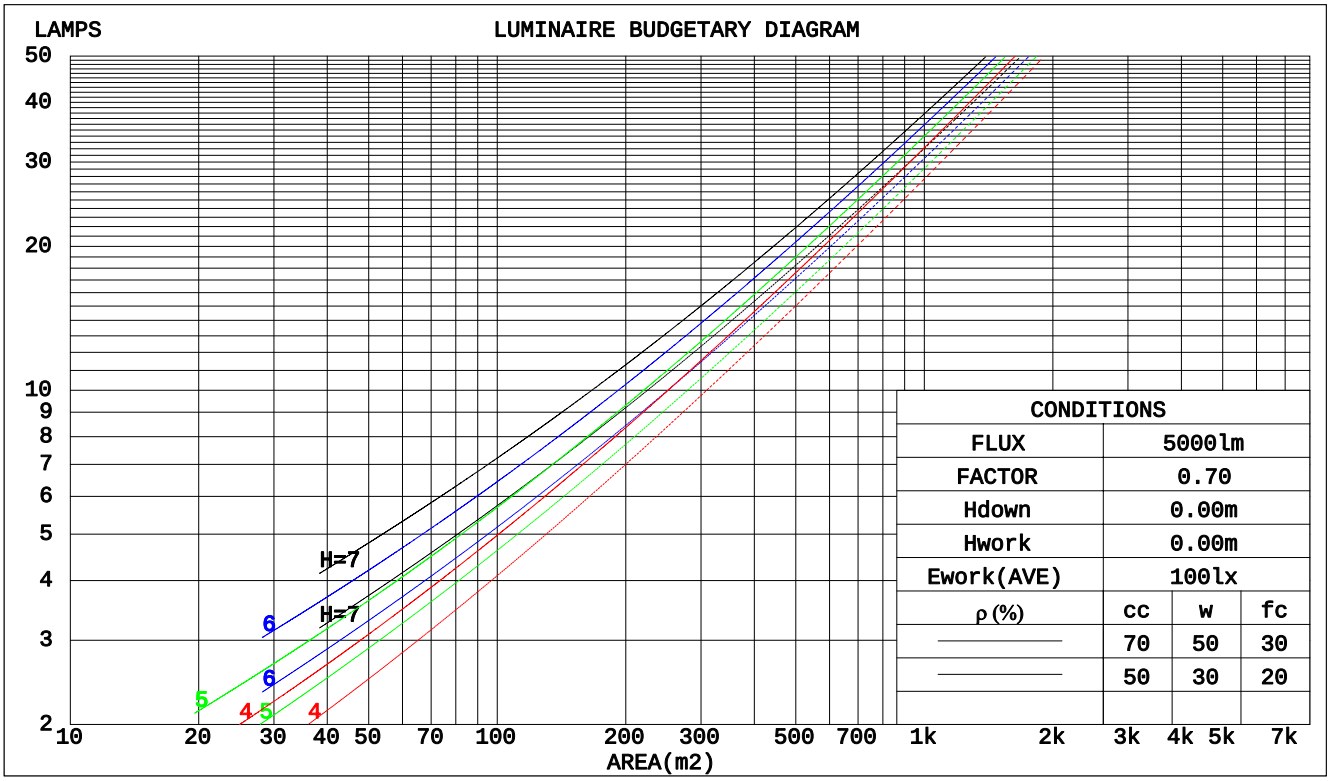
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 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	1.00
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	.67	.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	.51	.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	.44	.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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 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	.049	
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	.253	.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	.217	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.185	.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	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.053	.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	.069	.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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 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	20.9	22.4	21.1	22.6	22.8	20.6	22.1	20.9	22.3	22.5
	3H	22.4	23.8	22.7	24.0	24.3	22.0	23.4	22.3	23.7	23.9
	4H	23.0	24.4	23.3	24.6	24.9	22.6	23.9	22.9	24.1	24.4
	6H	23.5	24.7	23.8	25.0	25.3	22.9	24.2	23.2	24.4	24.7
	8H	23.6	24.8	24.0	25.1	25.4	23.0	24.2	23.3	24.5	24.8
	12H	23.7	24.9	24.1	25.2	25.5	23.0	24.2	23.4	24.5	24.8
4H	2H	21.4	22.8	21.7	23.0	23.3	21.2	22.6	21.5	22.8	23.1
	3H	23.2	24.3	23.5	24.6	24.9	22.8	24.0	23.2	24.3	24.6
	4H	23.9	25.0	24.3	25.3	25.6	23.5	24.6	23.9	24.9	25.2
	6H	24.5	25.4	24.9	25.8	26.2	24.0	24.9	24.4	25.3	25.6
	8H	24.7	25.6	25.1	26.0	26.3	24.1	25.0	24.5	25.3	25.7
	12H	24.8	25.7	25.3	26.0	26.4	24.2	25.0	24.6	25.4	25.8
8H	4H	24.1	25.0	24.6	25.4	25.8	23.8	24.7	24.2	25.0	25.4
	6H	24.9	25.6	25.3	26.0	26.4	24.4	25.1	24.8	25.5	26.0
	8H	25.2	25.8	25.6	26.2	26.7	24.6	25.2	25.0	25.7	26.1
	12H	25.4	26.0	25.9	26.4	26.9	24.7	25.3	25.2	25.7	26.2
12H	4H	24.1	25.0	24.6	25.3	25.8	23.8	24.6	24.2	25.0	25.4
	6H	24.9	25.6	25.4	26.0	26.4	24.4	25.1	24.9	25.5	26.0
	8H	25.2	25.8	25.7	26.3	26.7	24.7	25.2	25.2	25.7	26.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 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, 1396 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.2)

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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

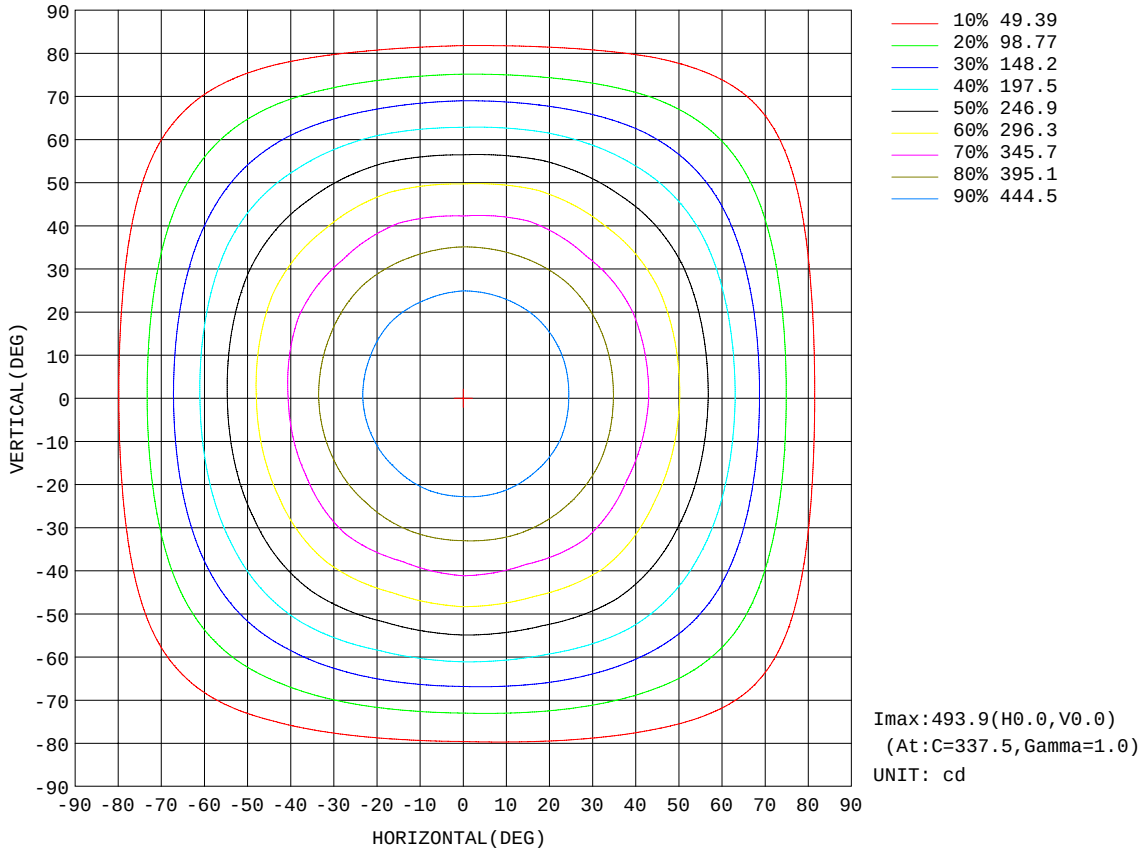
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
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	84	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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



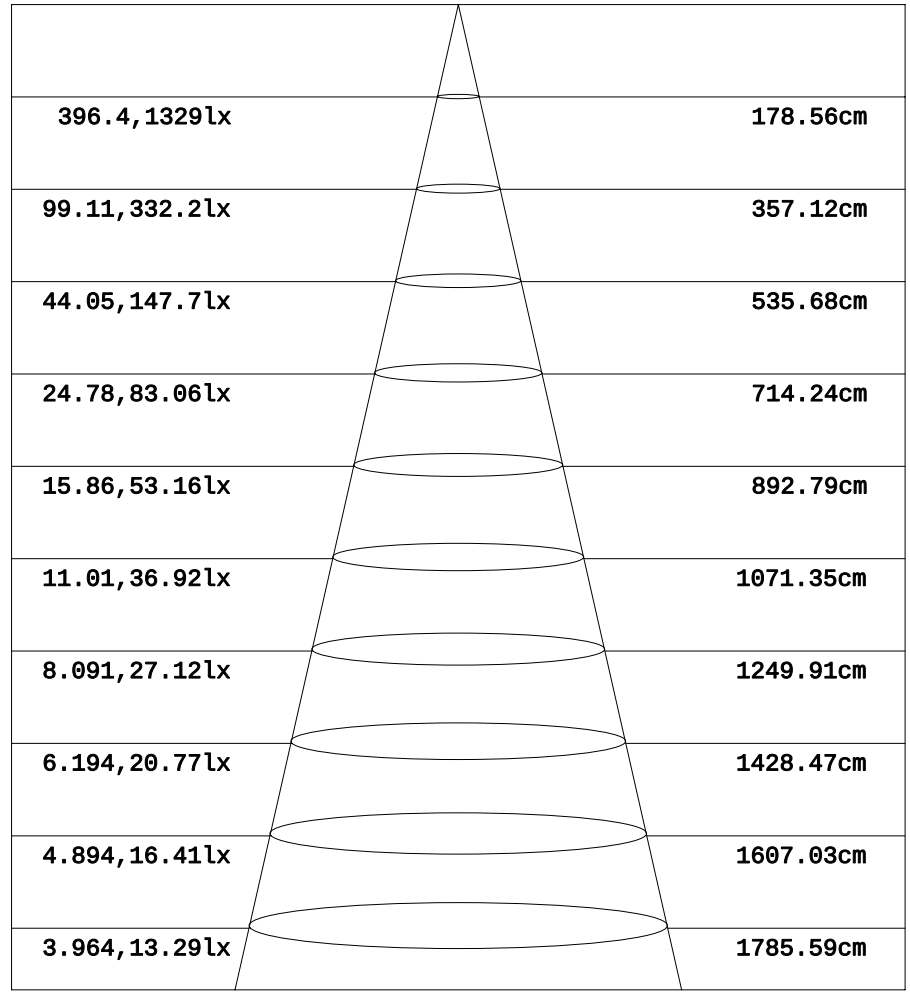
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-28

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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:1017 lm



Height	Eavg,Emax	Angle:111.35deg	Diameter
0.6096m	396.4,1329lx		178.56cm
1.219m	99.11,332.2lx		357.12cm
1.829m	44.05,147.7lx		535.68cm
2.438m	24.78,83.06lx		714.24cm
3.048m	15.86,53.16lx		892.79cm
3.658m	11.01,36.92lx		1071.35cm
4.267m	8.091,27.12lx		1249.91cm
4.877m	6.194,20.77lx		1428.47cm
5.486m	4.894,16.41lx		1607.03cm
6.096m	3.964,13.29lx		1785.59cm

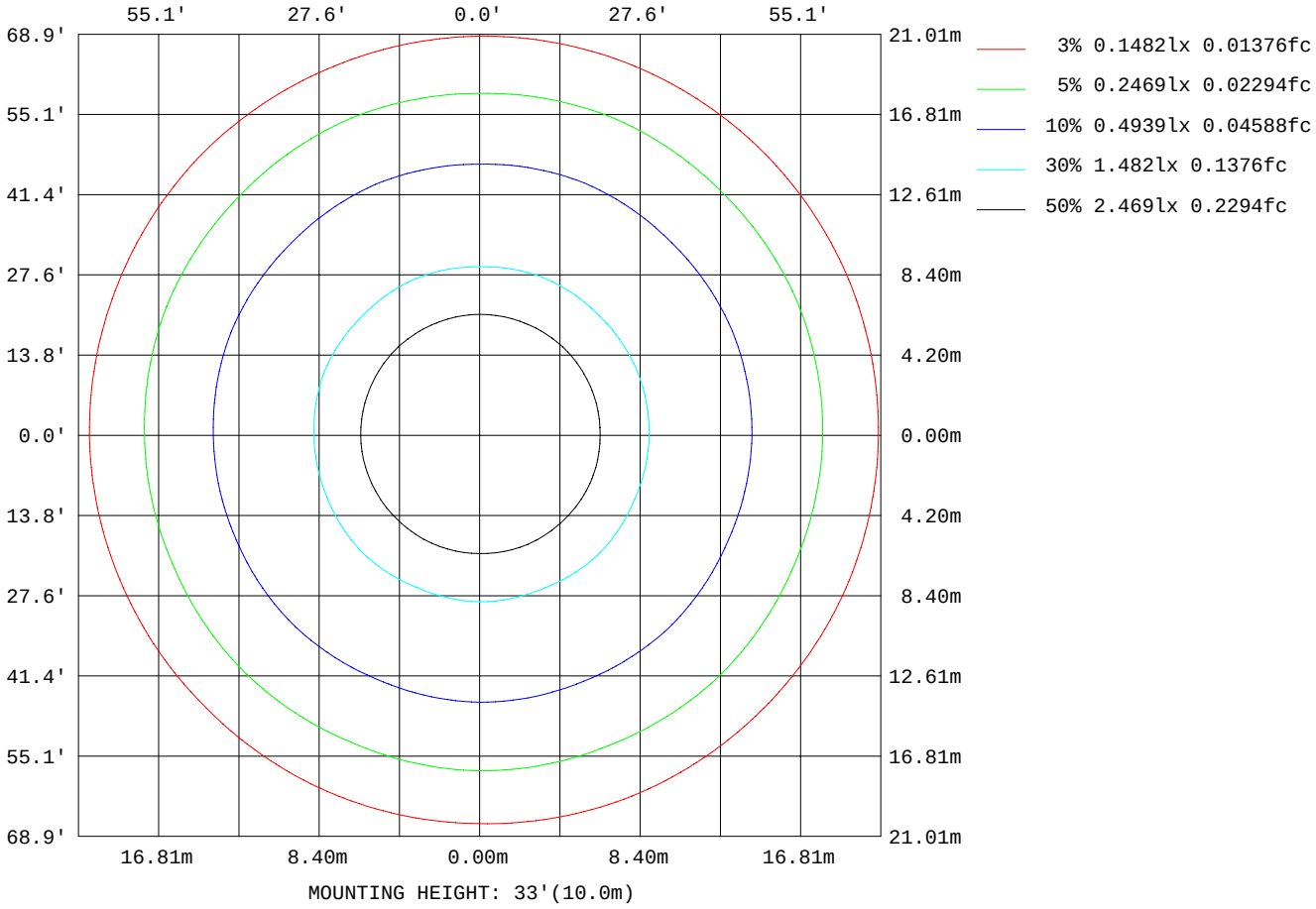
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:3000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

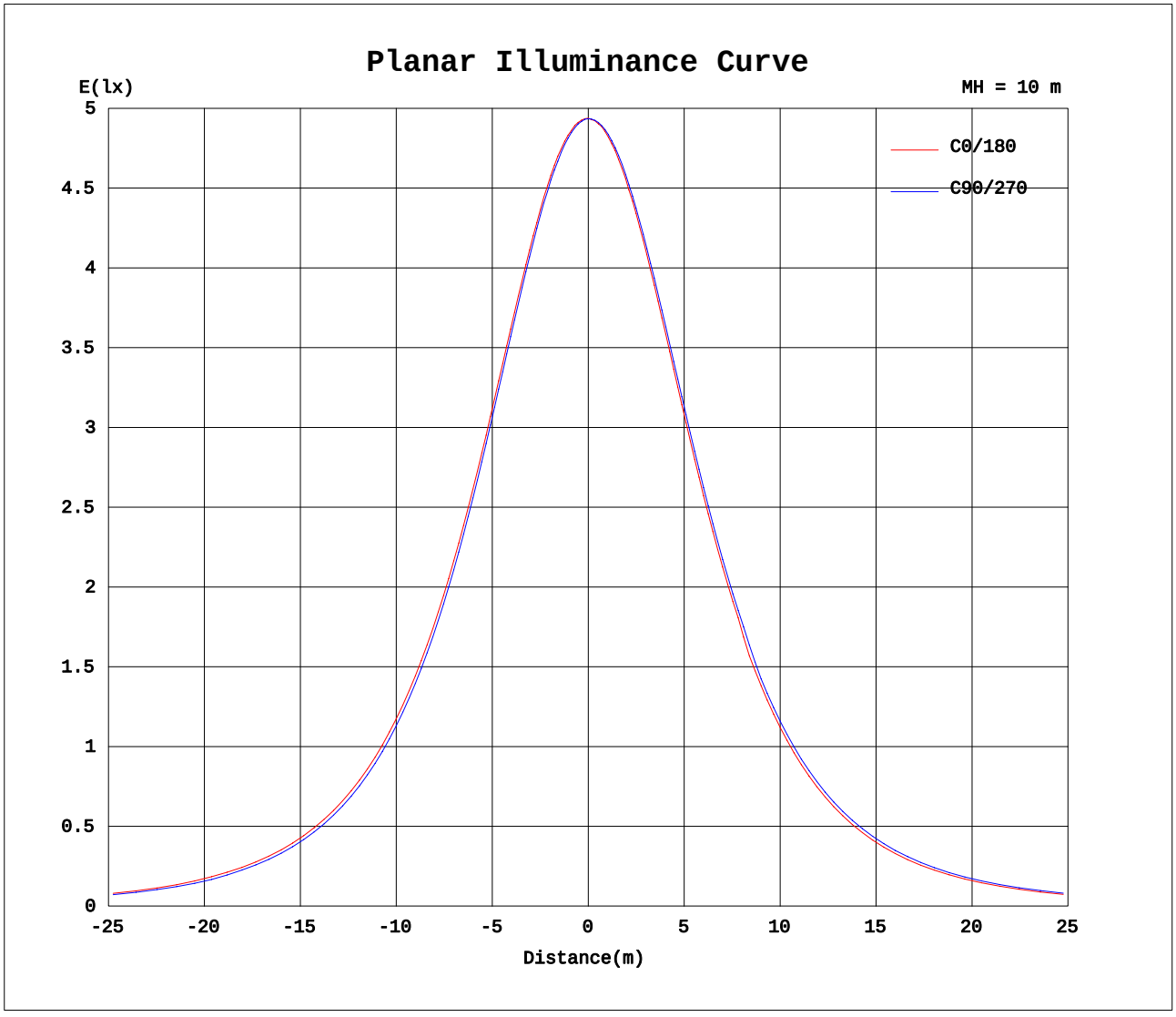
AvgL	cd/m2
L_0~180(65)av	12435
L_0~180(75)av	10823
L_0~180(85)av	7639
L_90~270(65)av	12418
L_90~270(75)av	10828
L_90~270(85)av	7728
L_45(65)av	12440
L_45(75)av	10844
L_45(85)av	7703

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:119.9V I:0.1560A P:17.30W PF:0.9200 Freq:60.00Hz Lamp Flux:1395.76x1 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	494	494	494	494	494	494	494	494	494	494	494	494	494	494	494	494			
5	491	492	491	491	491	491	490	491	491	491	491	492	492	492	492	492			
10	486	486	484	484	483	483	483	483	484	484	485	486	487	487	487	487			
15	475	475	473	473	472	471	470	472	472	473	475	475	477	477	477	477			
20	461	460	458	458	455	455	454	455	457	458	460	461	462	462	463	463			
25	442	442	439	438	436	435	434	435	437	438	441	442	444	444	445	444			
30	420	419	416	415	411	410	409	411	414	415	418	419	422	422	423	422			
35	394	393	389	388	384	384	382	384	387	388	392	393	396	396	397	396			
40	364	361	360	351	353	346	351	346	349	358	359	364	364	367	369	367			
45	332	325	327	318	320	313	317	313	317	325	323	331	328	335	330	335			
50	298	291	292	284	284	278	281	278	281	290	289	296	294	300	296	300			
55	261	254	254	247	246	240	243	241	245	252	252	259	258	263	260	264			
60	222	216	215	208	207	201	203	202	206	213	214	220	220	225	222	225			
65	178	176	171	168	163	162	160	162	166	169	174	176	180	181	183	181			
70	138	136	131	128	123	121	119	121	125	128	133	136	140	141	143	141			
75	97.8	95.9	91.0	87.9	83.4	81.9	80.0	81.7	85.3	88.1	93.1	95.9	99.8	101	103	101			
80	59.9	57.9	53.4	50.7	46.7	45.4	43.8	45.2	48.4	50.7	55.3	58.1	62.0	63.1	64.6	63.0			
85	26.6	24.7	21.1	18.8	15.6	14.6	13.3	14.4	16.9	18.8	22.6	25.1	28.5	29.6	30.8	29.5			
90	1.34	0.61	0.59	0.62	0.65	0.64	0.67	0.67	0.59	0.58	0.57	0.71	1.68	2.72	3.10	2.77			

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: