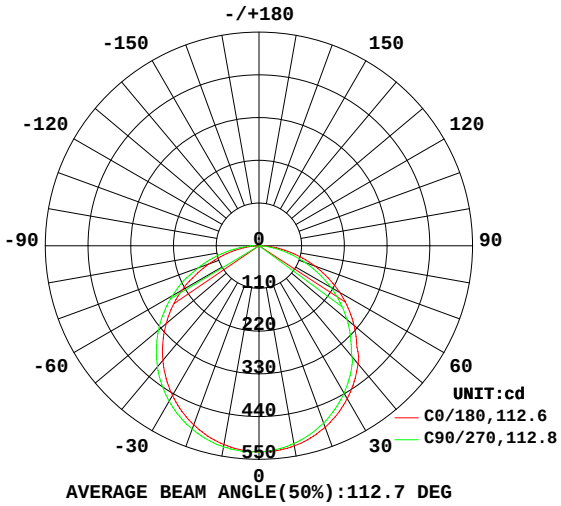
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

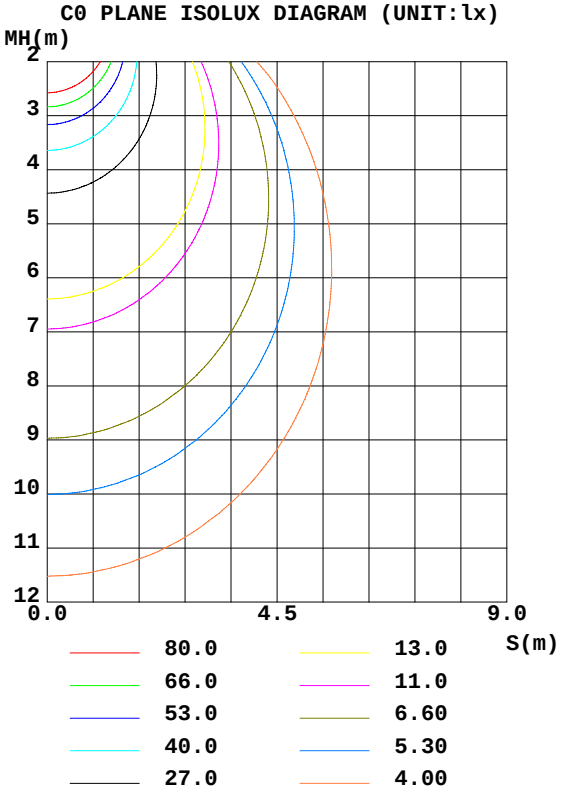
DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.39 lm/W			
MODEL	ASL-511202	Imax(cd)	531.9	S/MH(C0/180)	1.27
NOMINAL POWER(W)	22	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1526.5	η UP,DN(C0-180)	0.0,52.0
NOMINAL FLUX(lm)	1526.51	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.0
LAMPS INSIDE	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	519.8	523.7	526.4	526.1	523.3	519.9	517.1	518.3	0- 10	50.25	50.25	3.29,3.29
20	491.2	498.5	502.8	502.3	497.7	490.2	486.1	487.1	10- 20	144.0	194.3	12.7,12.7
30	445.1	455.9	462.7	462.2	454.5	444.3	438.2	439.4	20- 30	218.7	413.0	27.1,27.1
40	385.1	398.1	406.8	406.2	397.0	383.6	372.9	374.4	30- 40	264.3	677.3	44.4,44.4
50	312.2	327.7	337.6	336.5	319.7	304.6	295.9	298.0	40- 50	273.3	950.6	62.3,62.3
60	229.2	246.1	257.7	256.4	239.7	222.5	213.4	215.6	50- 60	247.3	1198	78.5,78.5
70	137.8	154.5	167.0	165.8	152.7	135.1	126.2	128.5	60- 70	188.4	1386	90.8,90.8
80	55.07	69.55	81.24	80.21	67.86	52.38	45.22	47.15	70- 80	108.9	1495	98,98
90	0.7033	4.043	10.59	9.589	2.610	0.6728	0.7092	0.7039	80- 90	31.28	1527	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

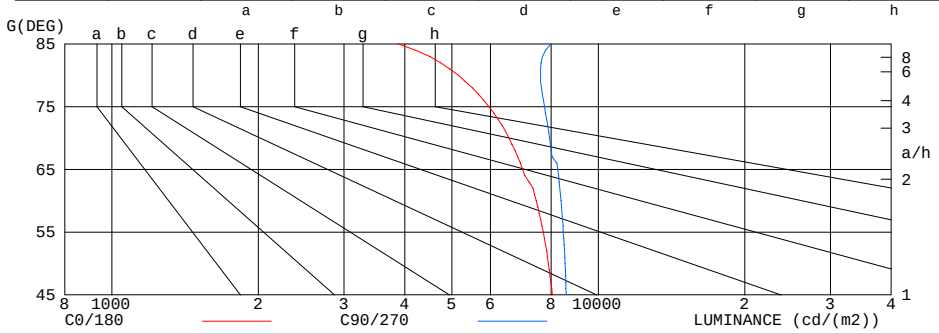
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0288]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 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	3875	7983
80	5156	7608
75	5956	7750
70	6550	7938
65	6984	8251
60	7453	8381
55	7708	8466
50	7896	8541
45	8047	8597

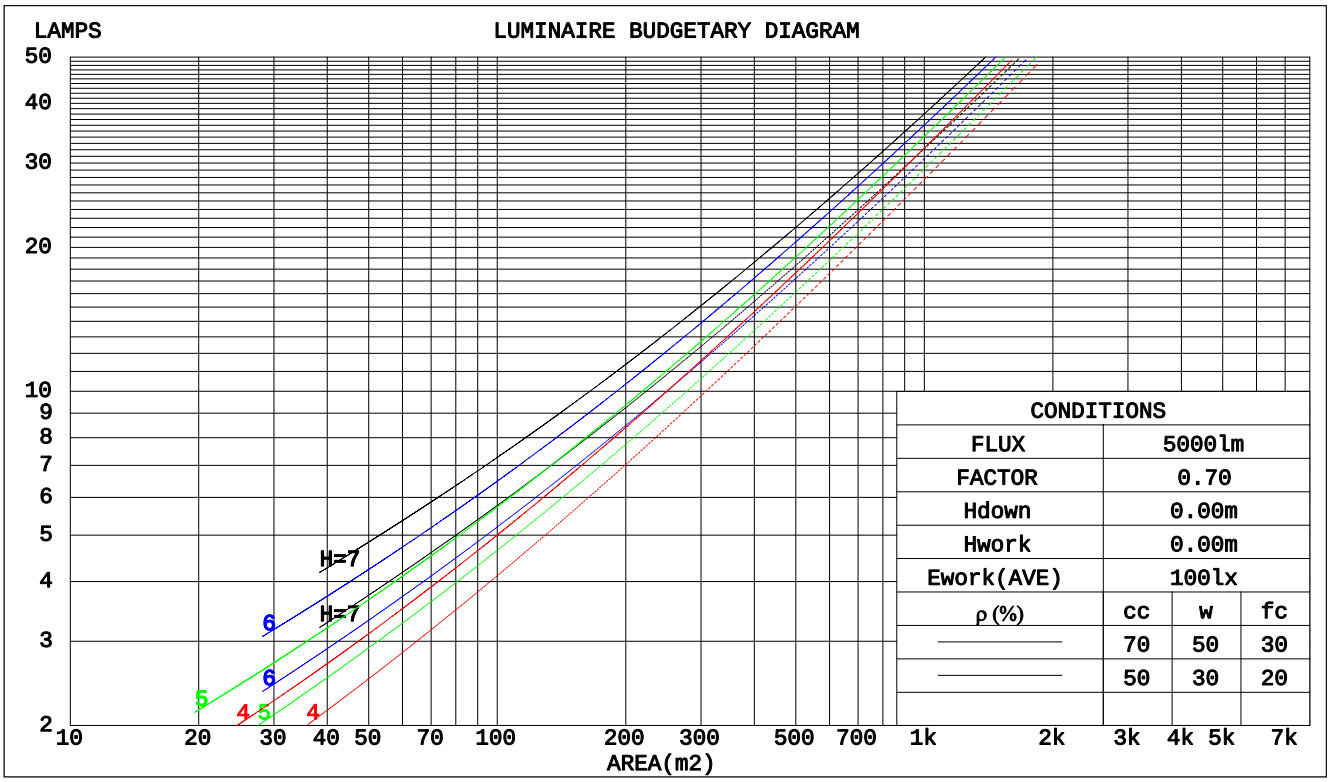
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 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	.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	.65	.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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 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	.178	.056	.305	.174	.055	.292	.167	.053	.280	.161	.052	.268	.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	.161	.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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 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	20.1	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	23.1	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	23.7	24.2	23.4	24.2	23.9	24.6	25.0
8H	22.8	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	+ 0.1 / - 0.4	+ 0.1 / - 0.3

CIE Pub.117, 1527 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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

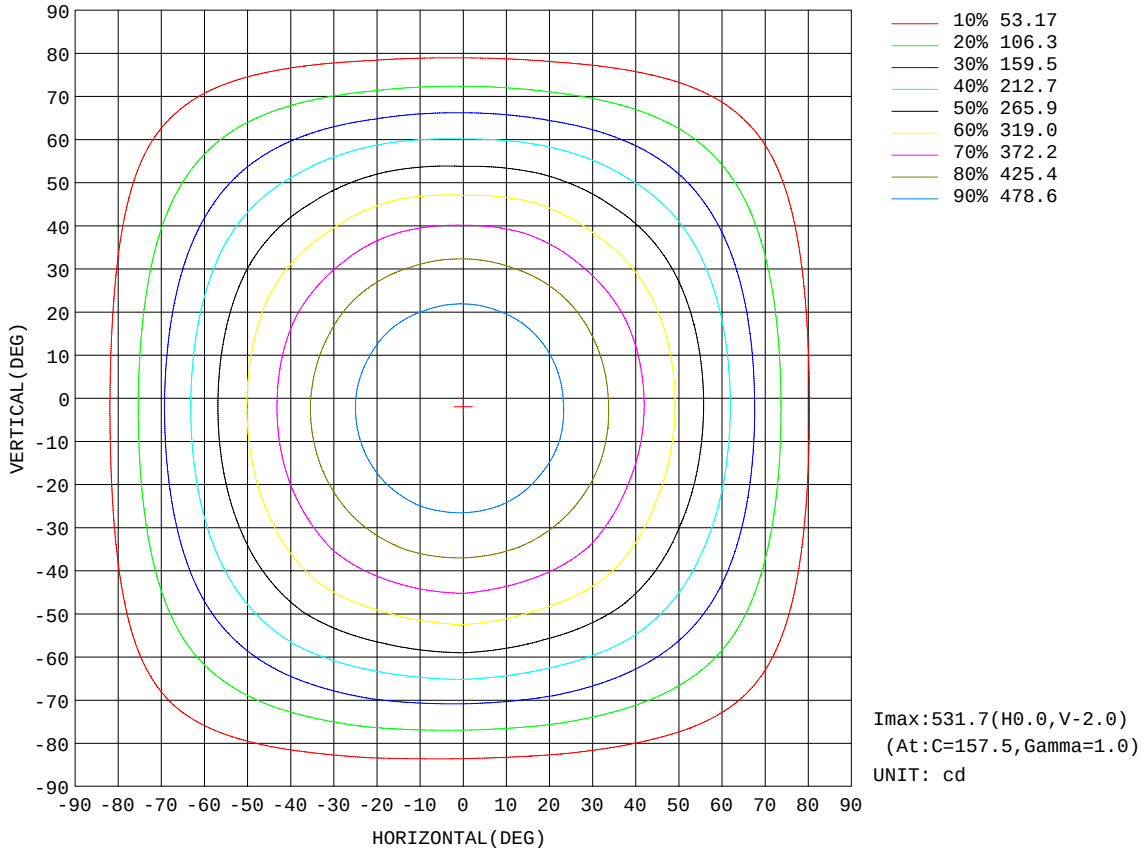
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	46	39	57	45	39	55	45	38	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	65	57	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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



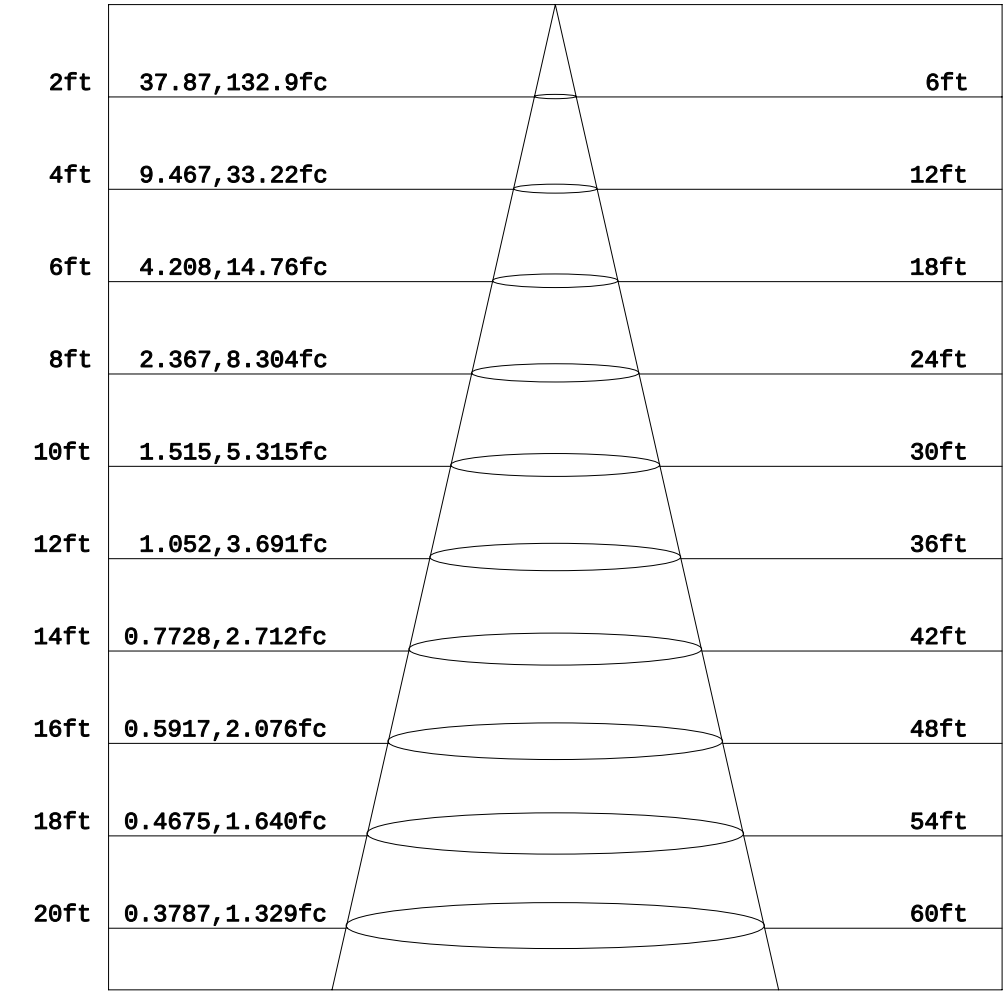
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-27

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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:1128 lm



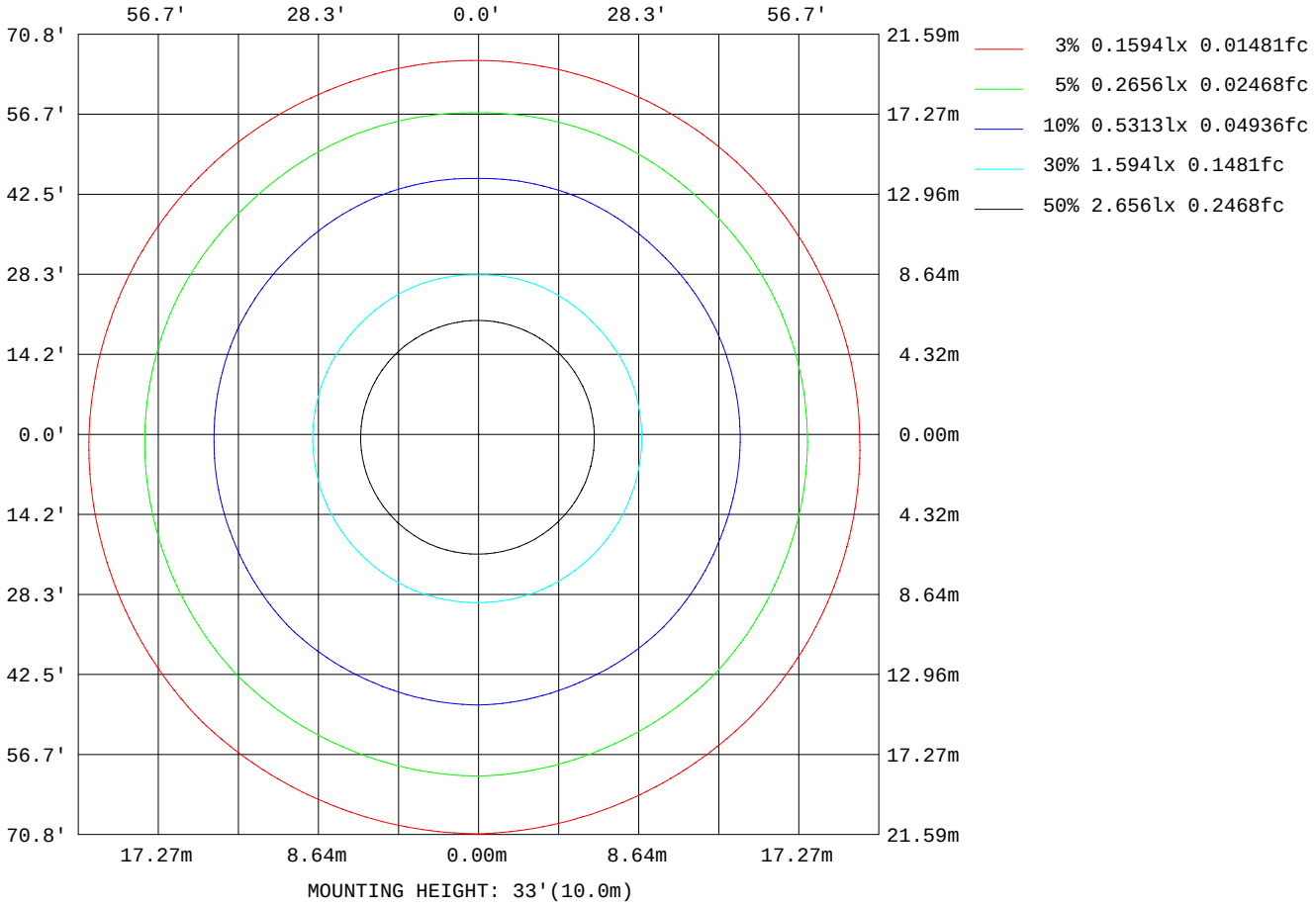
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 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:2026-10-27

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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

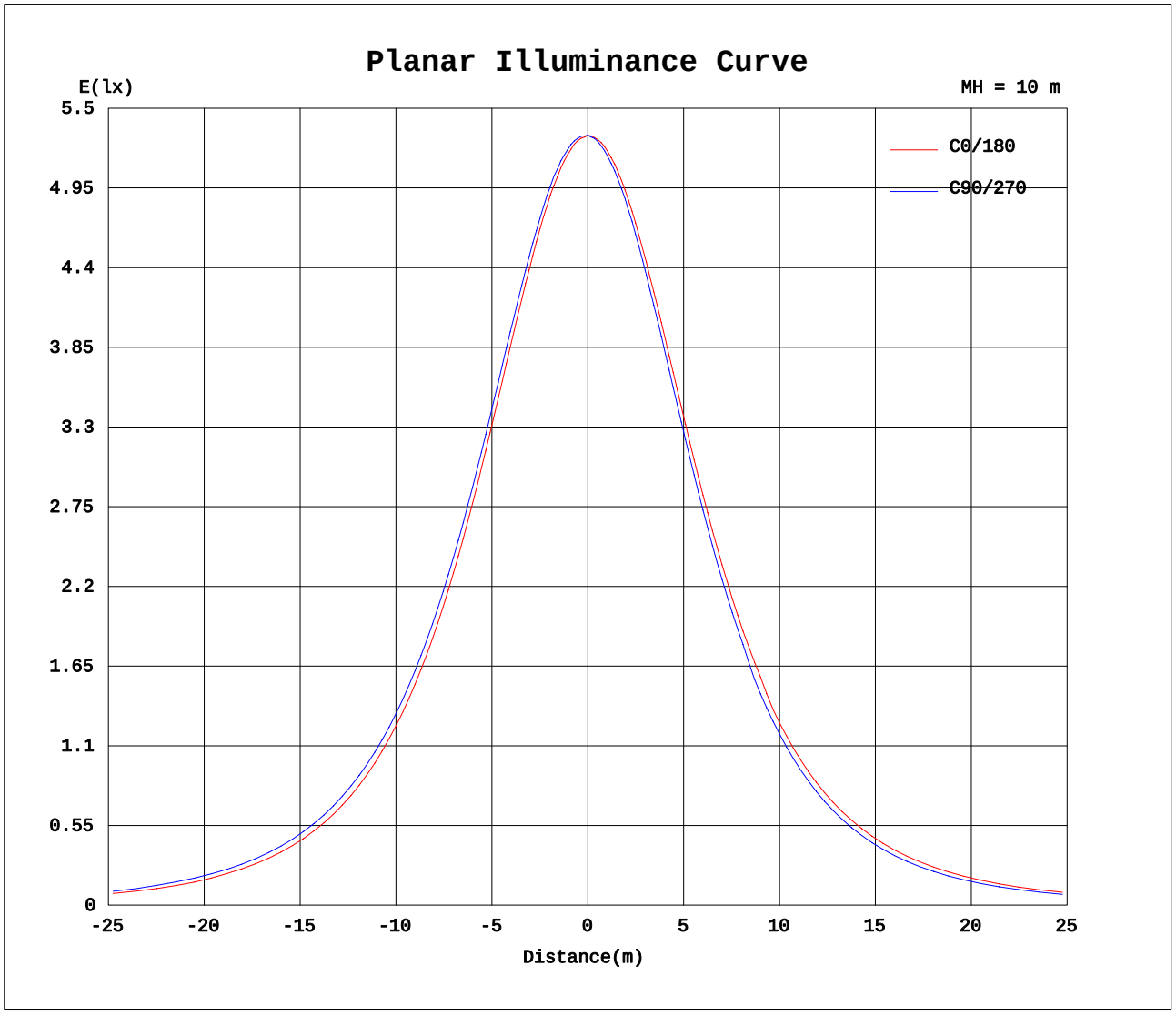
AvgL	cd/m2
L_0~180(65)av	7272
L_0~180(75)av	6407
L_0~180(85)av	4852
L_90~270(65)av	7385
L_90~270(75)av	6508
L_90~270(85)av	5135
L_45(65)av	7354
L_45(75)av	6459
L_45(85)av	4984

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:120.1V I:0.1980A P:22.00W PF:0.9240 Freq:60.00Hz Lamp Flux:1526.51x1 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	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531			
5	527	529	530	531	531	531	531	531	529	529	528	527	526	526	527	527			
10	520	522	524	525	526	526	526	525	523	521	520	518	517	517	518	519			
15	508	511	513	516	516	517	517	516	512	510	507	505	504	504	505	506			
20	491	495	499	501	503	504	502	501	498	494	490	487	486	485	487	489			
25	470	476	479	484	484	486	484	482	478	473	469	465	464	463	465	468			
30	445	451	456	461	463	465	462	459	455	449	444	440	438	437	439	442			
35	417	424	429	434	436	438	436	433	427	420	415	410	409	408	410	413			
40	385	393	398	405	407	409	406	403	397	389	384	378	373	375	374	381			
45	350	352	364	364	374	373	373	362	356	354	342	342	334	339	336	345			
50	312	315	328	329	338	334	337	326	320	316	305	304	296	300	298	307			
55	272	276	288	291	299	296	298	288	281	276	265	262	255	259	258	266			
60	229	235	246	249	258	255	256	247	240	234	222	219	213	216	216	223			
65	182	191	201	207	214	213	213	204	197	186	179	172	170	169	172	176			
70	138	147	154	163	167	169	166	160	153	142	135	128	126	125	129	132			
75	94.8	104	111	119	123	126	122	117	109	99.0	92.1	85.6	84.0	83.0	86.2	89.7			
80	55.1	62.9	69.6	77.3	81.2	83.5	80.2	75.2	67.9	58.6	52.4	46.8	45.2	44.3	47.2	50.3			
85	20.8	27.4	33.0	39.5	42.8	44.7	41.8	37.4	31.3	23.6	18.4	13.9	12.3	11.5	13.7	16.6			
90	0.70	1.20	4.04	7.78	10.6	11.2	9.59	5.92	2.61	0.71	0.67	0.70	0.71	0.71	0.70	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: