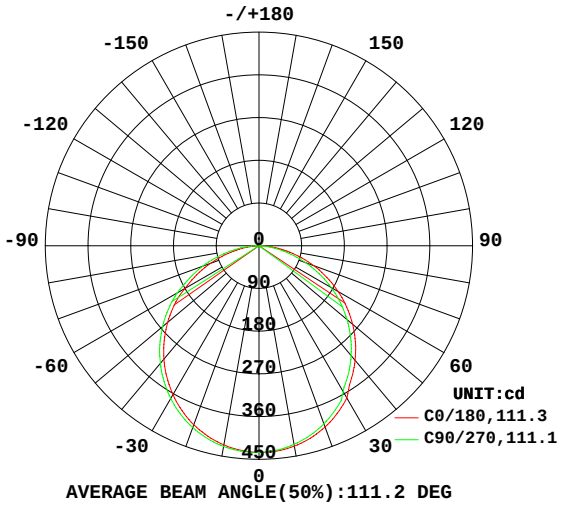
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

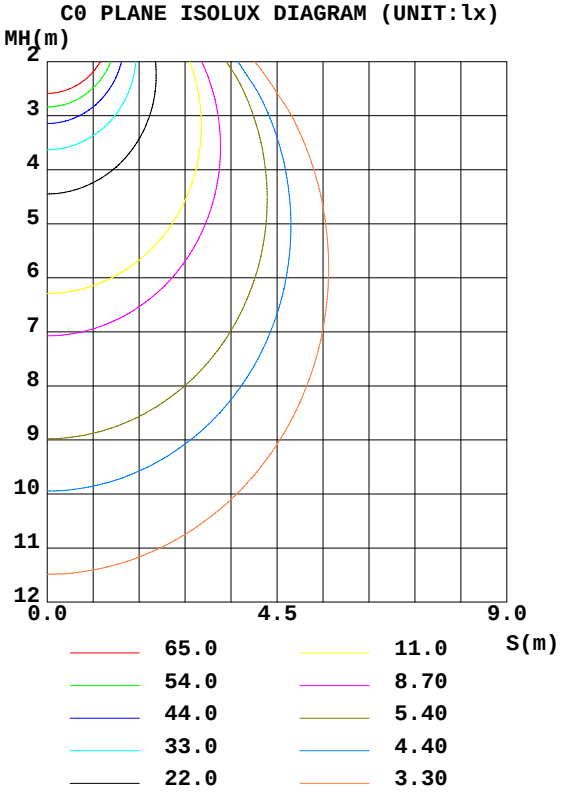
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 89.96 lm/W	
MODEL	ASL-510701	Imax(cd)	435.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1223.5	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	1223.48	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	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%):111.2 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=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

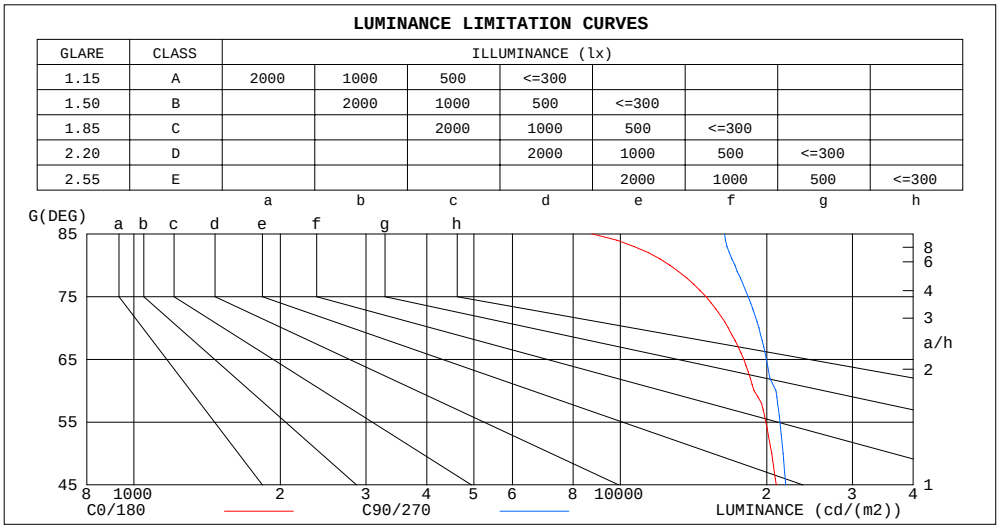
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	426.0	428.2	429.4	427.4	428.8	426.5	425.1	427.5	0- 10	41.17	41.17	3.36,3.36
20	401.6	405.2	407.7	404.3	406.6	401.7	399.5	404.2	10- 20	117.8	158.9	13,13
30	362.5	367.9	371.8	366.7	370.5	359.7	355.0	364.2	20- 30	178.1	337.0	27.5,27.5
40	311.7	318.3	323.4	317.3	315.1	306.2	301.9	310.2	30- 40	212.2	549.3	44.9,44.9
50	251.4	259.2	265.4	258.5	257.5	247.1	242.1	251.5	40- 50	219.4	768.7	62.8,62.8
60	179.9	190.8	199.6	189.9	192.6	181.4	175.5	185.2	50- 60	197.9	966.6	79,79
70	108.9	119.0	125.9	117.7	122.4	111.0	104.6	114.1	60- 70	149.3	1116	91.2,91.2
80	41.93	51.23	57.06	49.20	53.39	43.75	38.10	45.95	70- 80	85.10	1201	98.2,98.2
90	0.5582	0.9027	3.498	0.5883	1.271	0.5167	0.5227	0.5110	80- 90	22.47	1223	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=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8741	16381
80	12641	17198
75	14995	18312
70	16667	19275
65	17935	19965
60	18832	20891
55	19919	21291
50	20474	21612
45	20916	21872

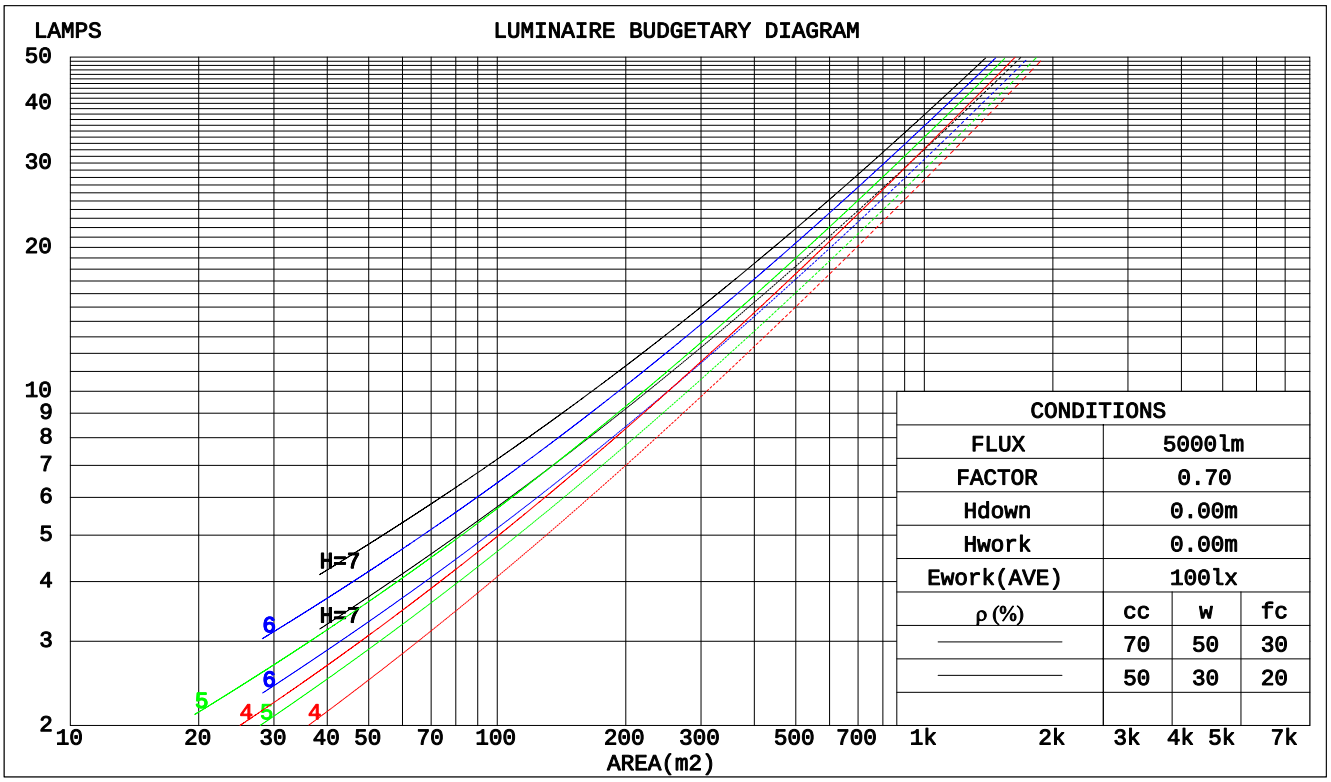
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
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	.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	.43	.36	.51	.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	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.32	.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:2026-10-29

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=1.0000]
Remarks:

WEC AND CCEC

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
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	.175	.056	.301	.172	.055	.288	.165	.053	.276	.159	.051	.265	.153	.049	
2.0	.291	.159	.049	.284	.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	.118	.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	.198	.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:2026-10-29

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=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
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	22.4	24.0	22.7	24.2	24.4	22.8	24.3	23.1	24.5	24.8
	3H	23.9	25.3	24.2	25.5	25.7	24.4	25.8	24.7	26.1	26.3
	4H	24.4	25.7	24.7	26.0	26.2	25.1	26.4	25.4	26.7	26.9
	6H	24.8	26.0	25.1	26.3	26.6	25.6	26.8	25.9	27.1	27.4
	8H	24.8	26.1	25.2	26.3	26.6	25.8	27.0	26.1	27.3	27.5
	12H	24.9	26.0	25.2	26.3	26.6	25.9	27.0	26.2	27.3	27.6
4H	2H	23.1	24.4	23.4	24.7	25.0	23.4	24.7	23.7	25.0	25.2
	3H	24.7	25.9	25.1	26.2	26.5	25.2	26.4	25.5	26.6	27.0
	4H	25.4	26.4	25.7	26.7	27.1	26.0	27.0	26.3	27.4	27.7
	6H	25.8	26.8	26.2	27.1	27.5	26.6	27.6	27.0	27.9	28.3
	8H	25.9	26.8	26.4	27.2	27.6	26.8	27.7	27.3	28.1	28.5
	12H	26.0	26.8	26.4	27.2	27.6	27.0	27.8	27.4	28.2	28.6
8H	4H	25.7	26.5	26.1	26.9	27.3	26.2	27.1	26.6	27.5	27.9
	6H	26.3	27.0	26.7	27.4	27.8	27.0	27.7	27.4	28.1	28.6
	8H	26.5	27.1	26.9	27.5	28.0	27.3	28.0	27.8	28.4	28.9
	12H	26.6	27.1	27.1	27.6	28.1	27.6	28.2	28.1	28.6	29.1
12H	4H	25.7	26.5	26.1	26.9	27.3	26.2	27.0	26.6	27.4	27.8
	6H	26.3	27.0	26.8	27.4	27.9	27.1	27.7	27.5	28.1	28.6
	8H	26.6	27.1	27.1	27.6	28.1	27.4	28.0	27.9	28.4	28.9

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

CIE Pub.117, 1223 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)

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=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

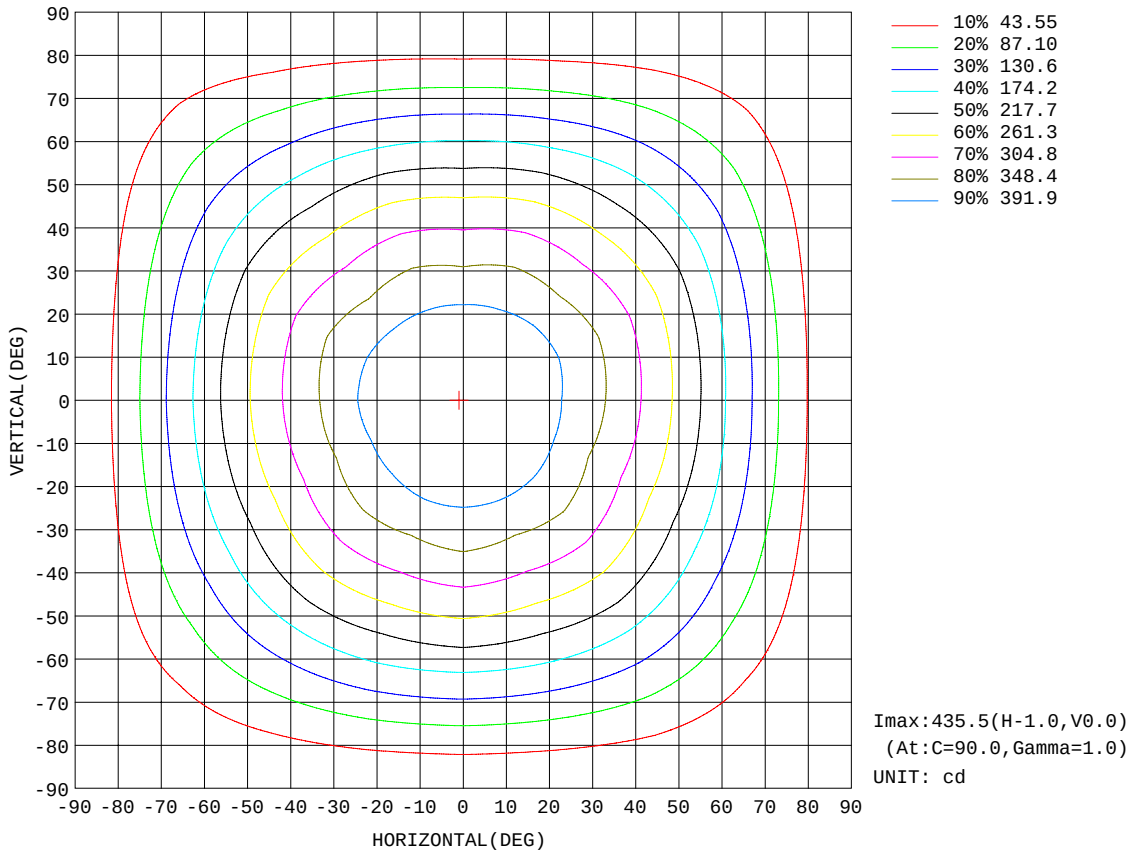
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
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:2026-10-29

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=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



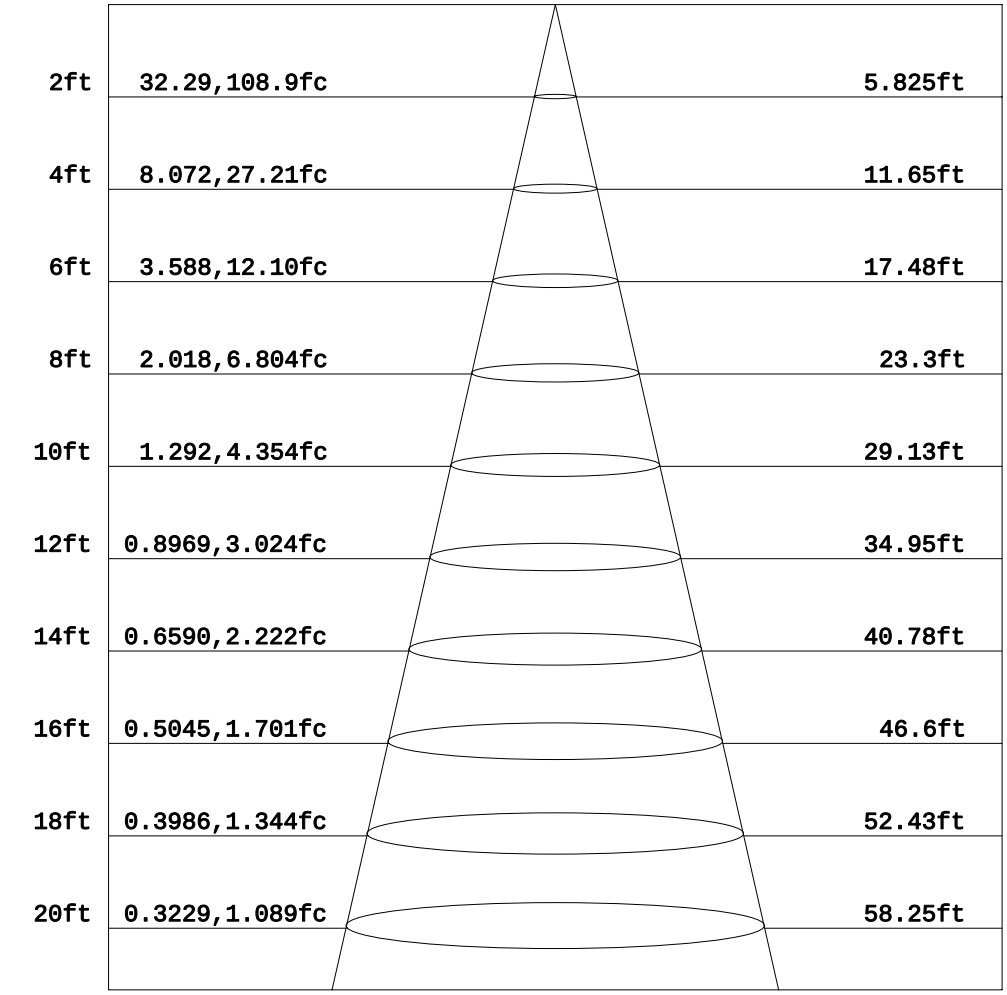
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0000]
Remarks:

AAI Figure

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:891.8 lm



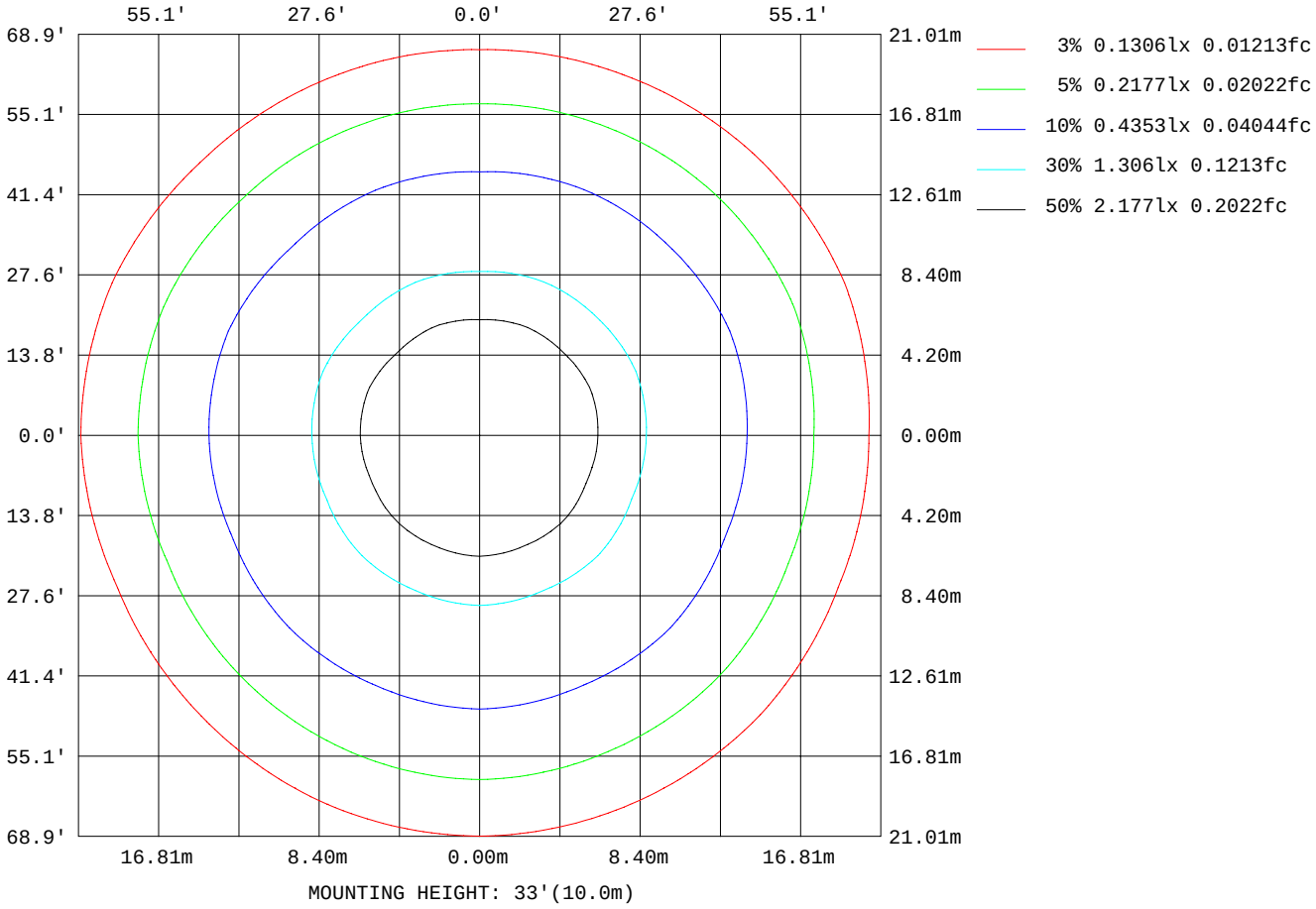
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
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=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

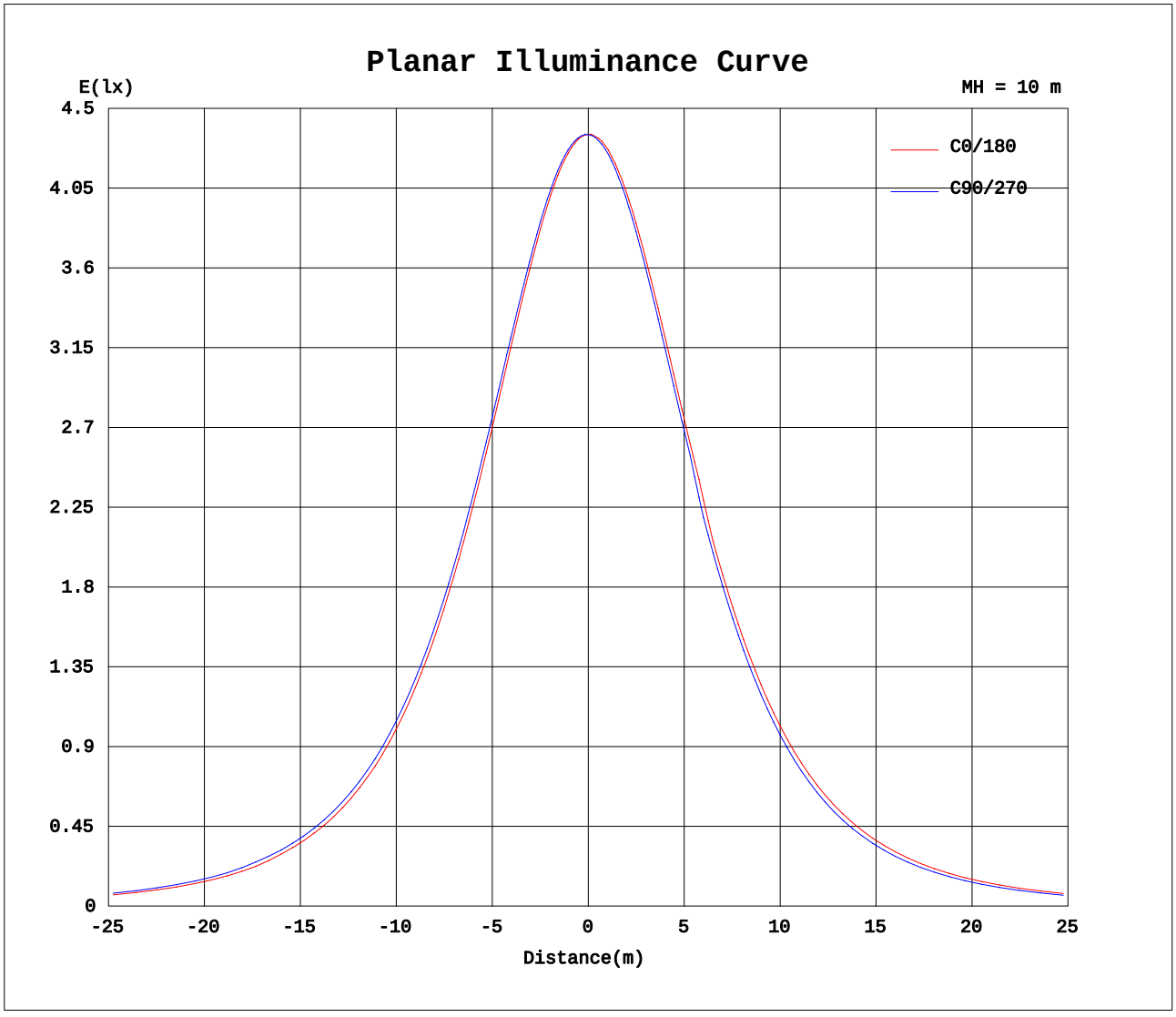
AvgL	cd/m2
L_0~180(65)av	18748
L_0~180(75)av	16286
L_0~180(85)av	11534
L_90~270(65)av	18666
L_90~270(75)av	16219
L_90~270(85)av	11613
L_45(65)av	18709
L_45(75)av	16243
L_45(85)av	11463

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=1.0000]
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=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.9V I:0.1240A P:13.60W PF:0.9190 Freq:60.00Hz Lamp Flux:1223.48x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:4000K
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	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435	435			
5	433	433	434	434	434	434	433	433	434	434	433	432	432	432	433	434			
10	426	426	428	429	429	429	427	427	429	429	426	425	425	426	427	428			
15	416	416	419	420	420	420	418	416	419	419	416	415	414	415	418	419			
20	402	402	405	407	408	407	404	403	407	406	402	400	399	401	404	405			
25	384	384	388	390	391	390	387	385	390	389	384	382	381	383	387	389			
30	363	359	368	370	372	371	367	362	371	369	360	361	355	362	364	368			
35	338	332	344	340	349	341	343	334	340	346	332	336	329	338	336	345			
40	312	306	318	315	323	316	317	309	315	320	306	309	302	311	310	319			
45	283	277	290	287	295	288	289	280	287	292	278	280	273	282	282	290			
50	251	246	259	257	265	258	258	250	257	261	247	249	242	250	251	259			
55	218	214	227	226	233	227	226	218	226	229	215	216	210	217	219	227			
60	180	180	191	192	200	193	190	184	193	193	181	178	175	179	185	190			
65	145	145	154	158	161	159	153	150	158	157	146	143	140	144	150	153			
70	109	109	119	123	126	123	118	114	122	121	111	107	105	108	114	118			
75	74.1	74.6	84.0	87.5	90.5	87.9	82.4	78.8	86.9	86.0	76.1	72.6	69.8	72.9	78.8	82.3			
80	41.9	42.6	51.2	54.2	57.1	54.3	49.2	46.0	53.4	52.7	43.8	40.7	38.1	40.6	45.9	49.1			
85	14.6	15.1	22.4	25.0	27.3	24.8	20.4	17.7	23.9	23.3	15.9	13.4	11.4	13.5	17.7	20.4			
90	0.56	0.56	0.90	1.82	3.50	1.81	0.59	0.53	1.27	1.35	0.52	0.51	0.52	0.52	0.51	0.53			

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=1.0000]
Remarks: