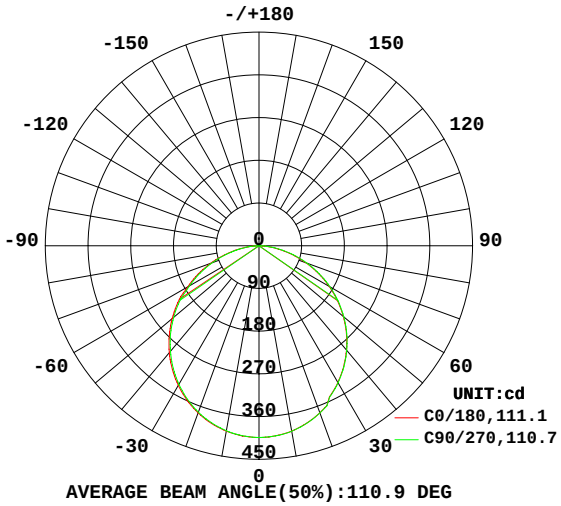
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

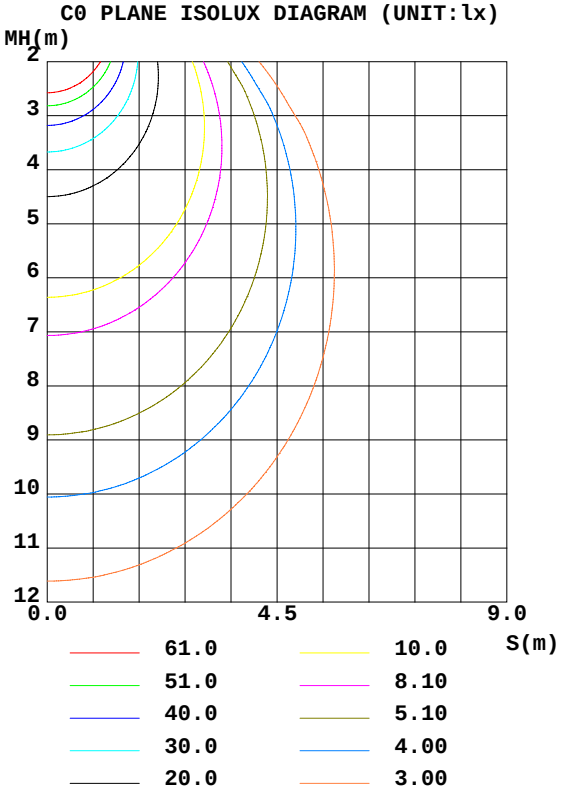
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 83.08 lm/W	
MODEL	ASL-510702	Imax(cd)	404.2	S/MH(C0/180)	1.23
NOMINAL POWER(W)	14	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1129.8	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	1129.83	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
LAMPS INSIDE	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%):110.9 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	396.5	396.5	395.7	395.7	396.5	396.9	396.8	397.2	0- 10	38.21	38.21	3.38,3.38
20	374.6	374.7	373.1	373.1	374.6	375.2	375.1	375.9	10- 20	109.3	147.5	13.1,13.1
30	339.9	339.2	337.3	336.9	332.5	333.2	333.2	334.5	20- 30	164.1	311.6	27.6,27.6
40	293.9	293.0	290.4	289.8	286.9	287.6	287.7	289.1	30- 40	196.4	508.0	45,45
50	239.1	237.9	234.8	233.9	232.2	232.9	233.4	235.3	40- 50	203.0	711.1	62.9,62.9
60	173.5	172.2	169.1	167.9	170.8	171.7	172.6	174.7	50- 60	182.5	893.6	79.1,79.1
70	108.5	107.1	104.4	102.9	105.2	106.3	107.8	108.8	60- 70	137.7	1031	91.3,91.3
80	45.42	44.49	42.64	41.13	42.44	43.38	45.06	44.84	70- 80	78.37	1110	98.2,98.2
90	0.4864	0.4930	0.4869	0.5647	0.4745	0.4752	0.4631	0.4696	80- 90	20.20	1130	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

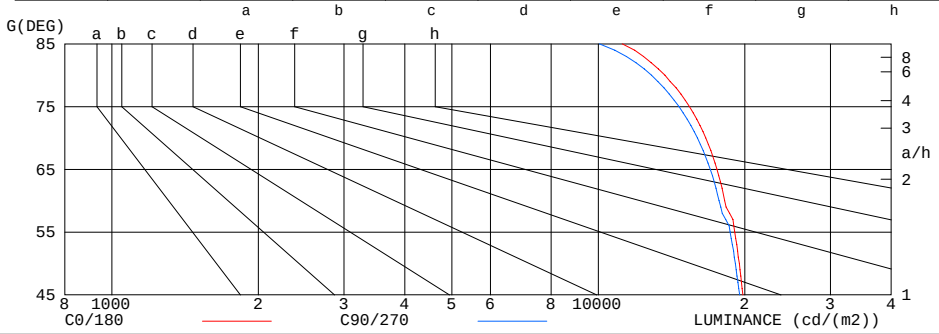
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.400m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 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	11198	10048
80	13709	12858
75	15389	14650
70	16633	15982
65	17540	16985
60	18186	17711
55	19068	18655
50	19492	19129
45	19817	19526

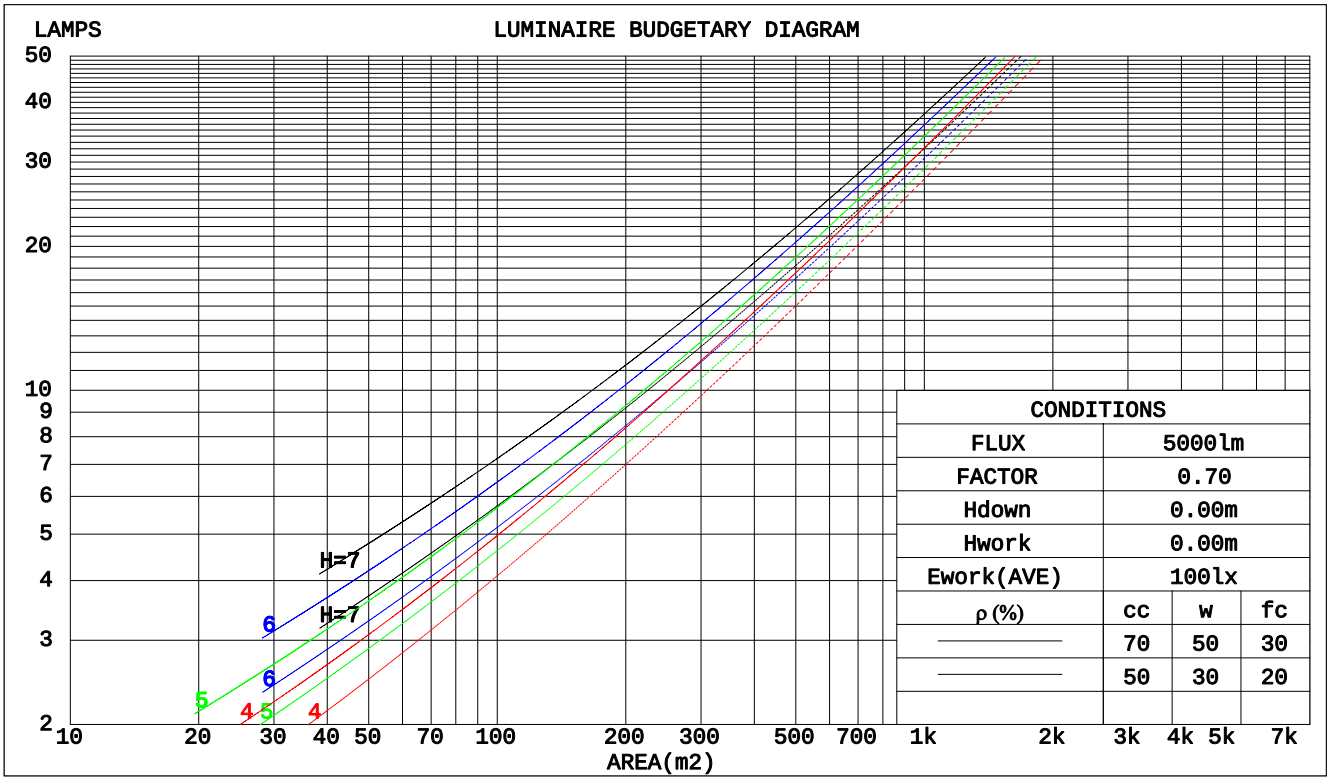
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 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	.00	.96	1.02	.98	.94	.97	.94	.91	.94	.91	.88	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.74	.79	.75	.72	.70
3.0	.80	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.55	.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	.48	.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	.35	.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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 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	.308	.175	.055	.301	.172	.055	.288	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.290	.159	.049	.284	.156	.048	.272	.151	.047	.262	.147	.046	.252	.142	.045	
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.244	.133	.041	.235	.130	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.094	.027	.177	.092	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.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	.076	.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	.135	.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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 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	22.7	24.2	22.9	24.4	24.6	22.6	24.1	22.8	24.3	24.5
	3H	24.2	25.6	24.5	25.8	26.1	24.0	25.5	24.3	25.7	25.9
	4H	24.8	26.1	25.1	26.4	26.6	24.6	26.0	24.9	26.2	26.5
	6H	25.2	26.5	25.6	26.7	27.0	25.0	26.3	25.4	26.6	26.8
	8H	25.3	26.6	25.7	26.8	27.1	25.1	26.4	25.5	26.6	26.9
	12H	25.4	26.6	25.8	26.9	27.2	25.2	26.4	25.6	26.7	27.0
4H	2H	23.3	24.6	23.6	24.9	25.1	23.2	24.5	23.5	24.8	25.0
	3H	25.0	26.1	25.3	26.4	26.7	24.9	26.0	25.2	26.3	26.6
	4H	25.7	26.8	26.1	27.1	27.4	25.6	26.6	25.9	26.9	27.3
	6H	26.3	27.2	26.7	27.6	27.9	26.1	27.0	26.5	27.4	27.7
	8H	26.4	27.3	26.9	27.7	28.1	26.3	27.1	26.7	27.5	27.9
	12H	26.6	27.4	27.0	27.8	28.2	26.4	27.2	26.8	27.5	28.0
8H	4H	26.0	26.8	26.4	27.2	27.6	25.8	26.7	26.2	27.1	27.5
	6H	26.7	27.4	27.1	27.8	28.2	26.5	27.2	26.9	27.6	28.1
	8H	26.9	27.6	27.4	28.0	28.5	26.8	27.4	27.2	27.8	28.3
	12H	27.1	27.7	27.6	28.1	28.6	26.9	27.5	27.4	27.9	28.4
12H	4H	26.0	26.8	26.4	27.2	27.6	25.8	26.7	26.3	27.0	27.4
	6H	26.7	27.4	27.2	27.8	28.2	26.6	27.2	27.0	27.6	28.1
	8H	27.0	27.6	27.5	28.0	28.5	26.8	27.4	27.3	27.9	28.3
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, 1130 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.4)

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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

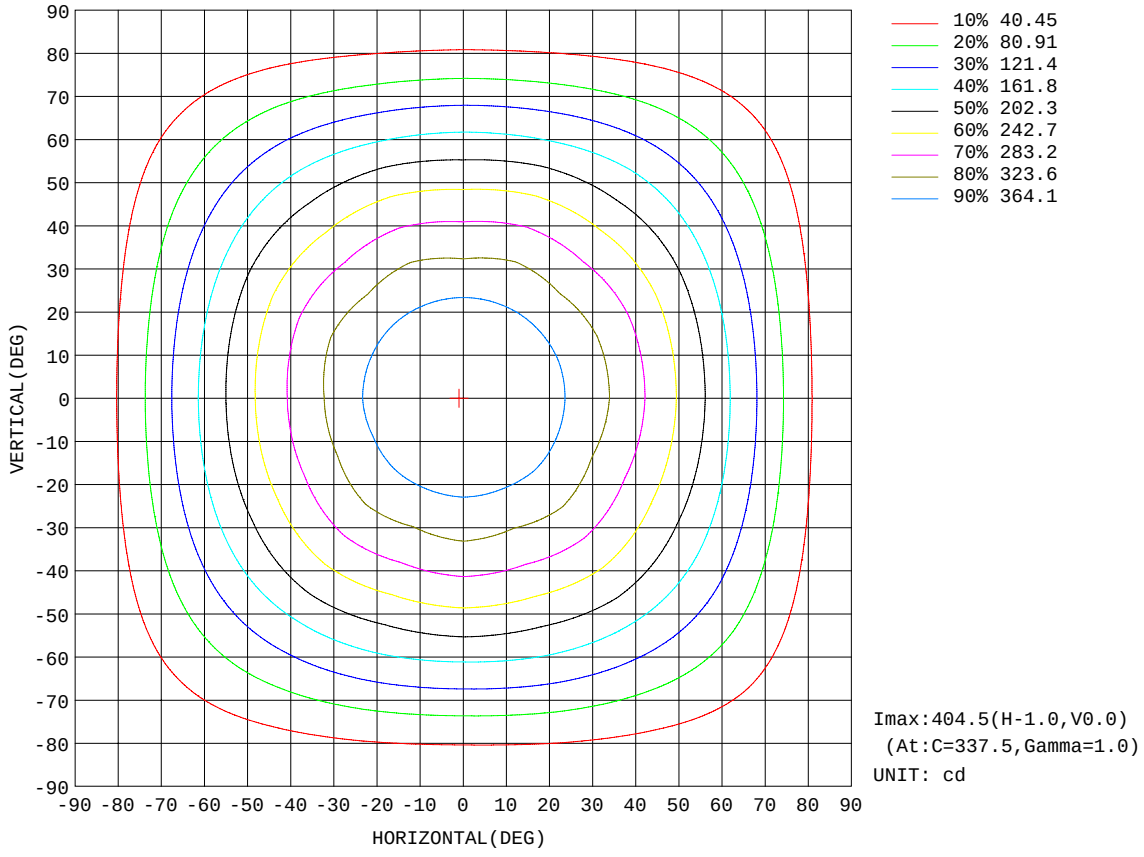
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	78	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	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:



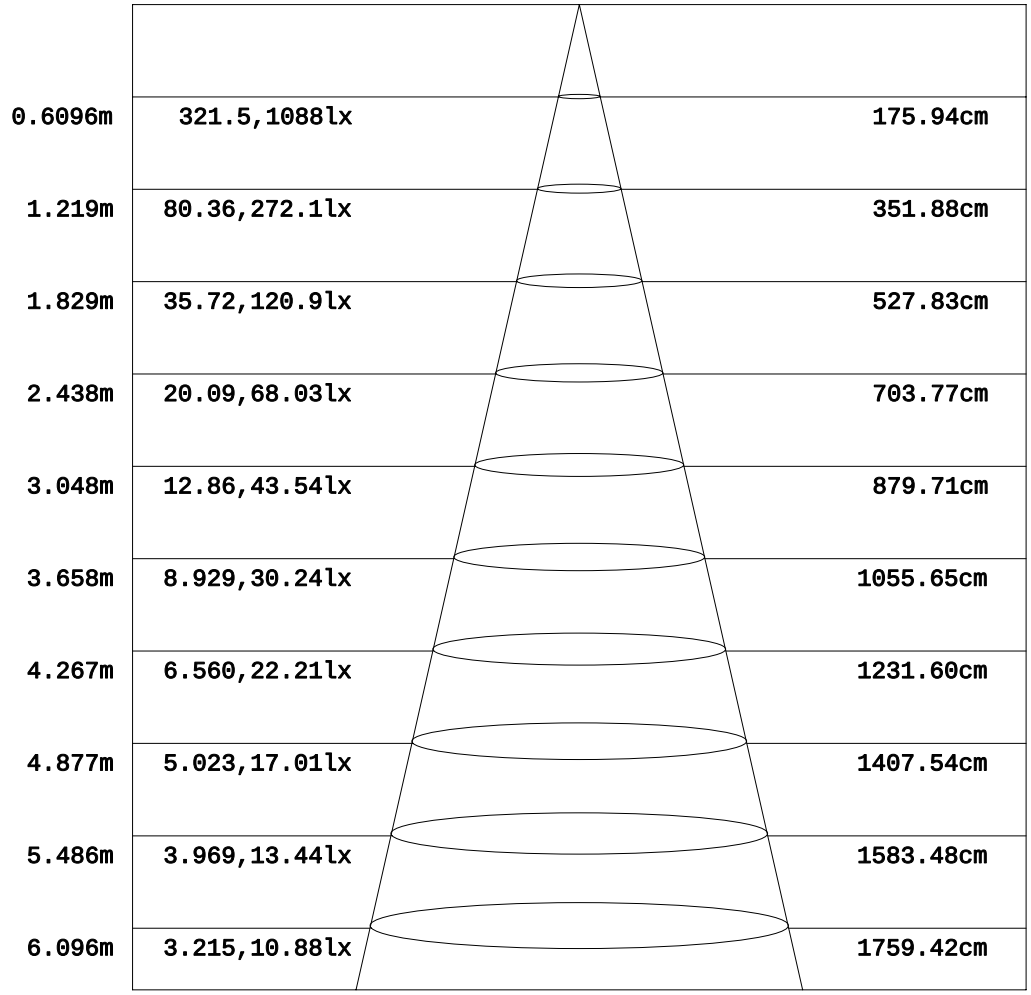
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-10-29

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=1.0000]
Remarks:

AAI Figure

Test:U:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

Flux out:824.9 lm



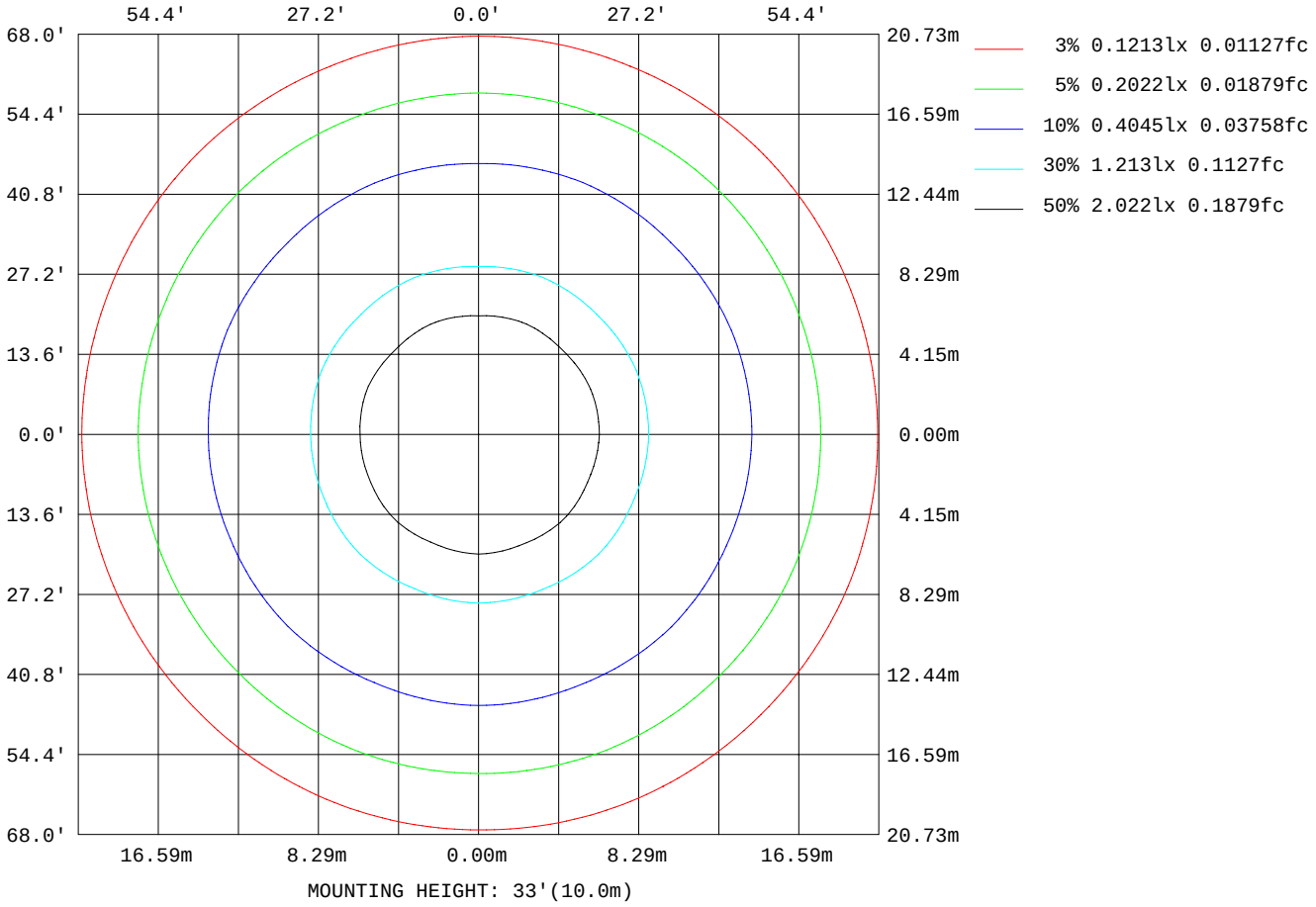
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 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=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2700K
MFR.: ASL Lighting	SUR.:	Shielding Angle:

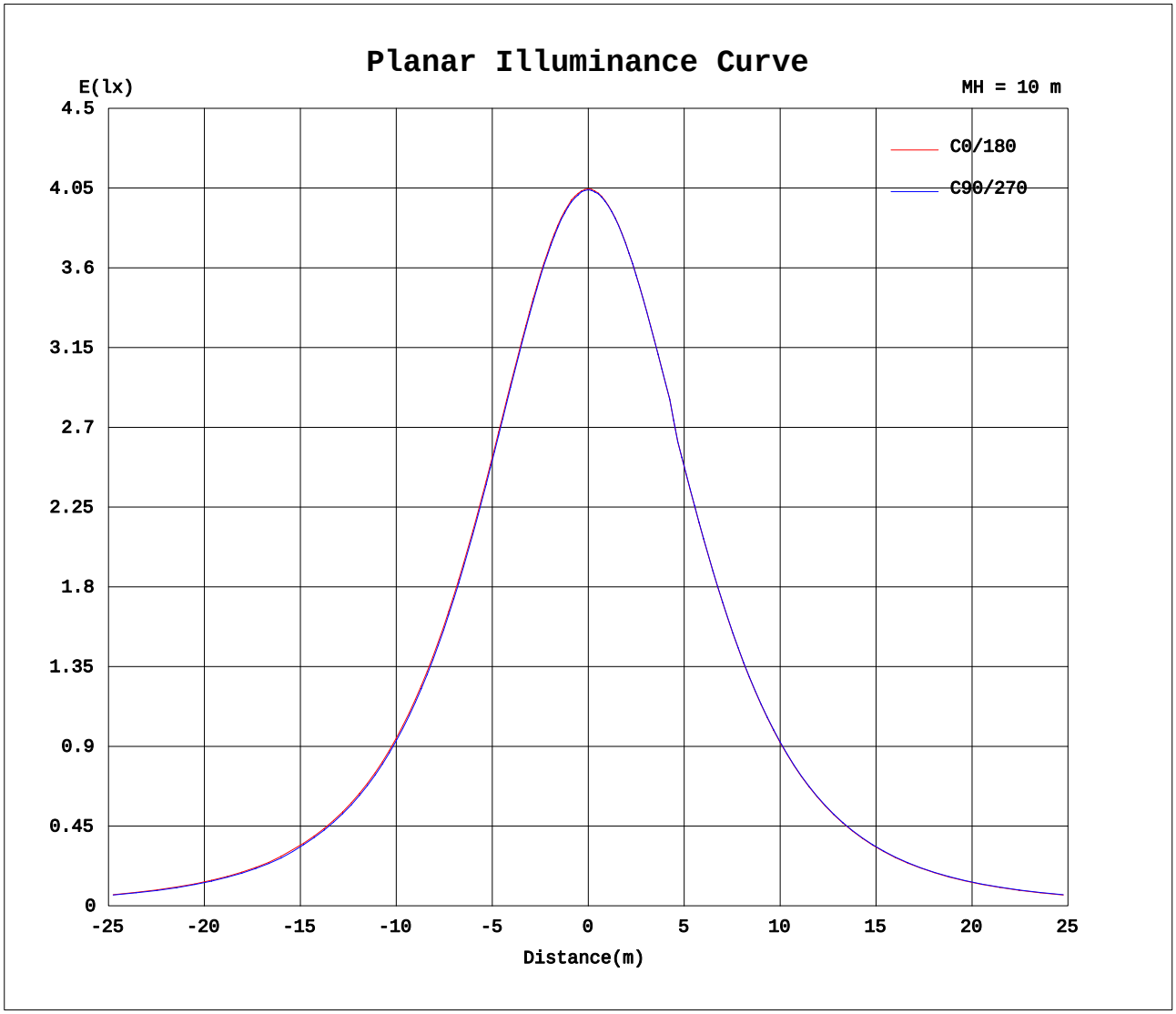
AvgL	cd/m2
L_0~180(65)av	17325
L_0~180(75)av	15041
L_0~180(85)av	10459
L_90~270(65)av	17190
L_90~270(75)av	14955
L_90~270(85)av	10552
L_45(65)av	17254
L_45(75)av	14935
L_45(85)av	10262

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:120.0V I:0.1230A P:13.60W PF:0.9210 Freq:60.00Hz Lamp Flux:1129.83x1 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	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404	404			
5	402	402	402	402	402	402	402	402	402	402	403	402	402	402	403	403			
10	397	397	397	396	396	396	396	396	397	396	397	396	397	397	397	397			
15	387	388	387	387	386	387	386	387	387	387	388	387	388	387	388	388			
20	375	375	375	375	373	374	373	374	375	374	375	374	375	375	376	376			
25	359	352	359	351	357	350	356	351	351	358	352	358	352	359	353	360			
30	340	334	339	332	337	331	337	332	333	339	333	339	333	340	334	341			
35	318	313	317	311	315	309	314	310	311	317	312	317	312	317	313	319			
40	294	289	293	287	290	285	290	285	287	292	288	292	288	293	289	295			
45	267	263	266	261	264	259	263	259	260	265	261	265	261	266	263	268			
50	239	235	238	233	235	230	234	231	232	236	233	237	233	238	235	240			
55	209	205	207	203	204	200	203	201	202	206	203	206	204	208	206	209			
60	173	174	172	172	169	169	168	169	171	170	172	171	173	172	175	174			
65	141	142	140	139	137	137	136	137	138	138	139	139	140	141	142	142			
70	109	109	107	107	104	104	103	104	105	105	106	106	108	108	109	109			
75	76.0	76.4	74.8	74.4	72.4	72.3	70.9	71.5	72.7	72.3	73.8	73.7	75.5	75.4	75.9	75.9			
80	45.4	45.9	44.5	44.4	42.6	42.5	41.1	41.5	42.4	42.0	43.4	43.4	45.1	44.6	44.8	44.9			
85	18.6	19.1	18.1	18.1	16.7	16.6	15.4	15.5	16.2	15.8	16.9	17.0	18.4	18.1	18.0	18.1			
90	0.49	0.47	0.49	0.49	0.49	0.50	0.56	0.57	0.47	0.49	0.48	0.47	0.46	0.48	0.47	0.47			

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: