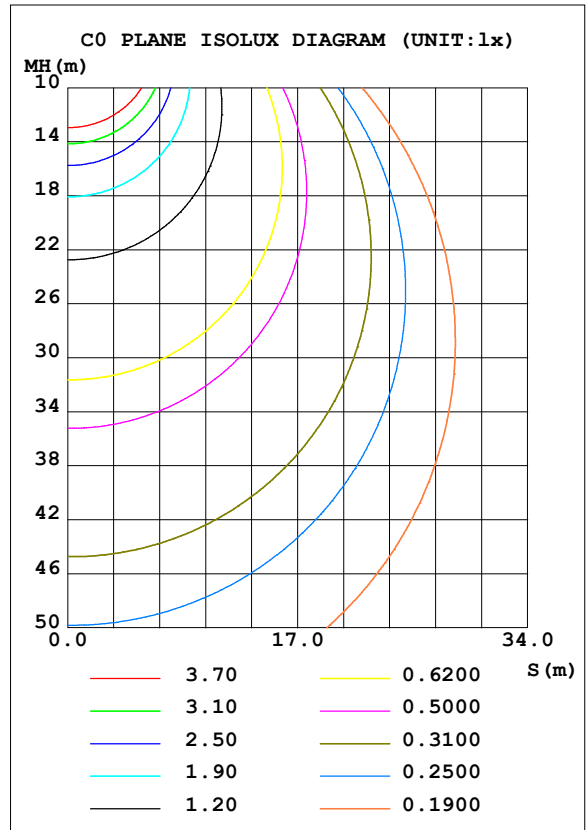
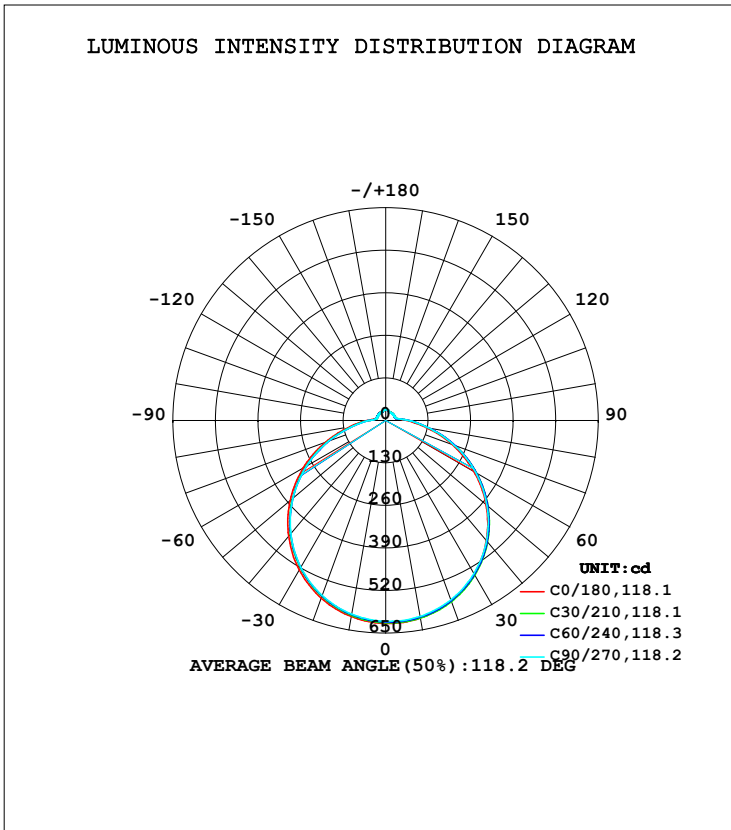


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.76 lm/W			
MODEL		I _{max} (cd)	620.6	S/MH (C0/180)	1.27
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2150.8	η UP, DN (C0-180)	4.8, 46.7
NOMINAL FLUX (lm)	2150.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.6, 43.8
LAMPS INSIDE	1	η up (%)	9.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	90.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.750m [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	613.0	611.8	608.0	601.8	608.3	603.6	600.8	602.2	0- 10	58.27	58.27	2.71,2.71
20	587.0	587.6	583.4	574.0	577.4	571.2	568.9	574.1	10- 20	167.7	226.0	10.5,10.5
30	541.7	544.4	540.0	527.7	528.1	520.4	518.6	527.2	20- 30	256.5	482.5	22.4,22.4
40	478.7	483.8	479.6	464.8	461.7	452.9	451.3	463.1	30- 40	313.3	795.7	37,37
50	400.5	407.8	404.3	387.7	381.3	371.3	370.1	384.1	40- 50	331.0	1127	52.4,52.4
60	311.3	320.4	317.7	300.7	291.2	280.4	279.4	294.7	50- 60	308.2	1435	66.7,66.7
70	216.6	225.9	223.4	208.3	196.5	186.0	185.7	200.3	60- 70	250.0	1685	78.3,78.3
80	125.2	134.3	133.4	121.0	110.8	102.0	100.5	112.7	70- 80	169.0	1854	86.2,86.2
90	64.83	71.07	70.87	63.63	57.41	52.01	50.76	58.18	80- 90	94.48	1948	90.6,90.6
100	33.44	35.06	36.03	31.45	32.65	30.75	31.15	31.61	90-100	48.33	1997	92.8,92.8
110	29.52	29.81	30.02	27.68	29.95	29.39	29.27	29.68	100-110	32.24	2029	94.3,94.3
120	28.95	29.22	29.30	27.67	29.76	29.53	28.92	29.59	110-120	28.83	2058	95.7,95.7
130	28.92	29.24	29.01	27.97	30.06	29.98	29.50	29.91	120-130	26.18	2084	96.9,96.9
140	28.98	29.19	28.84	28.04	30.25	30.22	29.79	30.05	130-140	22.75	2107	98,98
150	28.81	28.93	28.51	27.99	30.20	29.98	30.11	29.95	140-150	18.45	2125	98.8,98.8
160	28.78	28.94	29.47	30.19	31.10	29.50	30.03	29.36	150-160	13.52	2139	99.4,99.4
170	33.05	32.79	33.34	32.49	33.97	32.99	33.26	32.74	160-170	8.927	2148	99.9,99.9
180	34.28	33.57	34.48	33.57	34.32	33.56	34.42	33.59	170-180	3.174	2151	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 961.6 lm

%lum = 44.7%

%lamp = 44.7%

Conical surface Flux(120deg): 1434.9 lm

%lum = 66.7%

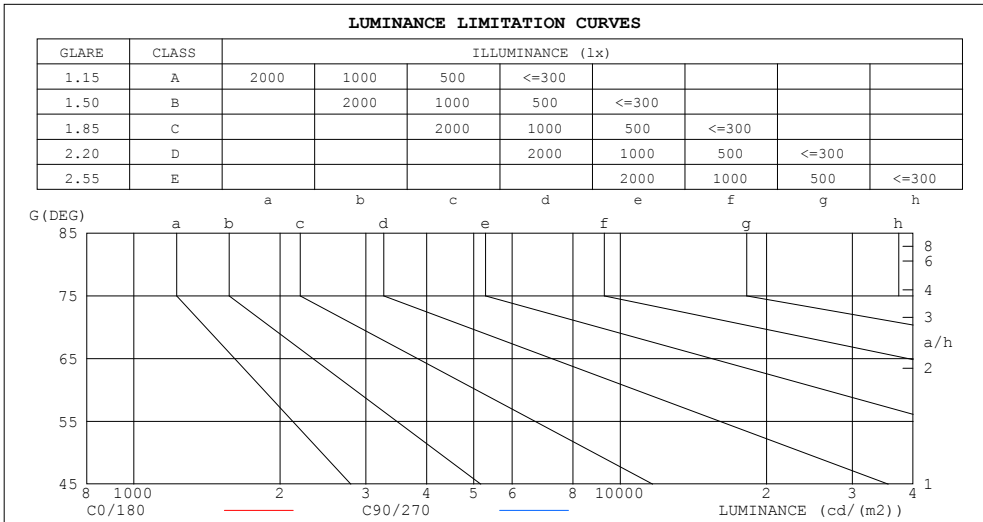
%lamp = 66.7%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	103556	112394
80	72108	76814
75	65569	68576
70	63344	65309
65	62518	64292
60	62264	63533
55	62248	63138
50	62311	62903
45	62402	62775

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.342	.195	.062	.332	.189	.060	.313	.180	.057	.296	.171	.055	.280	.162	.052	
2.0	.309	.169	.052	.300	.165	.051	.283	.157	.049	.268	.150	.047	.253	.143	.045	
3.0	.280	.149	.045	.272	.146	.044	.257	.139	.042	.243	.133	.041	.230	.128	.039	
4.0	.256	.133	.039	.249	.130	.038	.235	.125	.037	.223	.120	.036	.211	.115	.035	
5.0	.235	.120	.035	.228	.117	.034	.216	.113	.033	.205	.108	.032	.194	.104	.031	
6.0	.217	.109	.031	.211	.106	.031	.200	.102	.030	.189	.098	.029	.180	.095	.028	
7.0	.201	.099	.028	.196	.097	.028	.185	.094	.027	.176	.090	.026	.167	.087	.026	
8.0	.187	.091	.026	.182	.090	.025	.173	.086	.025	.164	.083	.024	.156	.080	.023	
9.0	.175	.085	.024	.170	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.164	.079	.022	.160	.077	.022	.152	.075	.021	.145	.072	.020	.138	.070	.020	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.262	.262	.262	.224	.224	.224	.153	.153	.153	.088	.088	.088	.028	.028	.028	
1.0	.255	.228	.204	.218	.196	.176	.149	.135	.121	.086	.078	.071	.027	.025	.023	
2.0	.247	.205	.169	.212	.176	.146	.145	.122	.102	.084	.071	.060	.027	.023	.019	
3.0	.240	.188	.146	.205	.162	.127	.141	.112	.089	.081	.066	.052	.026	.021	.017	
4.0	.232	.175	.131	.199	.151	.114	.137	.105	.080	.079	.062	.047	.025	.020	.016	
5.0	.224	.165	.120	.193	.142	.105	.133	.099	.074	.077	.058	.044	.025	.019	.014	
6.0	.217	.156	.113	.187	.135	.098	.129	.095	.069	.075	.056	.041	.024	.018	.014	
7.0	.210	.150	.107	.181	.130	.093	.125	.091	.066	.073	.054	.039	.023	.018	.013	
8.0	.204	.144	.103	.175	.125	.090	.121	.088	.064	.071	.052	.038	.023	.017	.013	
9.0	.198	.139	.100	.170	.121	.087	.118	.085	.062	.069	.050	.037	.022	.016	.012	
10.0	.192	.135	.097	.165	.117	.085	.115	.082	.060	.067	.049	.036	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm										
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K									WEIGHT:	
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:4寸			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	24.2	25.7	24.6	26.0	26.4	24.3	25.7	24.7	26.1	26.5
3H	26.0	27.4	26.5	27.8	28.2	26.1	27.4	26.6	27.8	28.3
4H	26.9	28.1	27.3	28.5	29.0	27.0	28.2	27.4	28.7	29.1
6H	27.6	28.8	28.1	29.3	29.7	27.8	29.0	28.3	29.4	29.9
8H	28.0	29.1	28.5	29.6	30.1	28.2	29.4	28.7	29.8	30.3
12H	28.4	29.5	28.9	30.0	30.5	28.7	29.8	29.1	30.2	30.7
4H 2H	24.9	26.2	25.4	26.6	27.0	25.0	26.2	25.4	26.6	27.1
3H	26.9	28.0	27.4	28.5	29.0	27.0	28.1	27.5	28.6	29.1
4H	27.9	28.9	28.4	29.4	29.9	28.0	29.0	28.5	29.5	30.1
6H	28.9	29.8	29.4	30.3	30.8	29.0	29.9	29.6	30.4	31.0
8H	29.3	30.1	29.9	30.7	31.3	29.5	30.3	30.1	30.9	31.5
12H	29.8	30.6	30.4	31.1	31.7	30.1	30.8	30.6	31.4	32.0
8H 4H	28.3	29.2	28.9	29.7	30.3	28.4	29.3	29.0	29.8	30.4
6H	29.5	30.2	30.1	30.8	31.4	29.6	30.3	30.2	30.9	31.5
8H	30.1	30.7	30.7	31.3	32.0	30.3	30.9	30.9	31.5	32.2
12H	30.8	31.3	31.4	31.9	32.6	31.0	31.6	31.6	32.2	32.8
12H 4H	28.4	29.2	28.9	29.7	30.3	28.5	29.2	29.0	29.8	30.4
6H	29.6	30.3	30.2	30.9	31.5	29.8	30.4	30.4	31.0	31.6
8H	30.4	30.9	31.0	31.5	32.2	30.5	31.1	31.1	31.7	32.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 2151 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.7)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

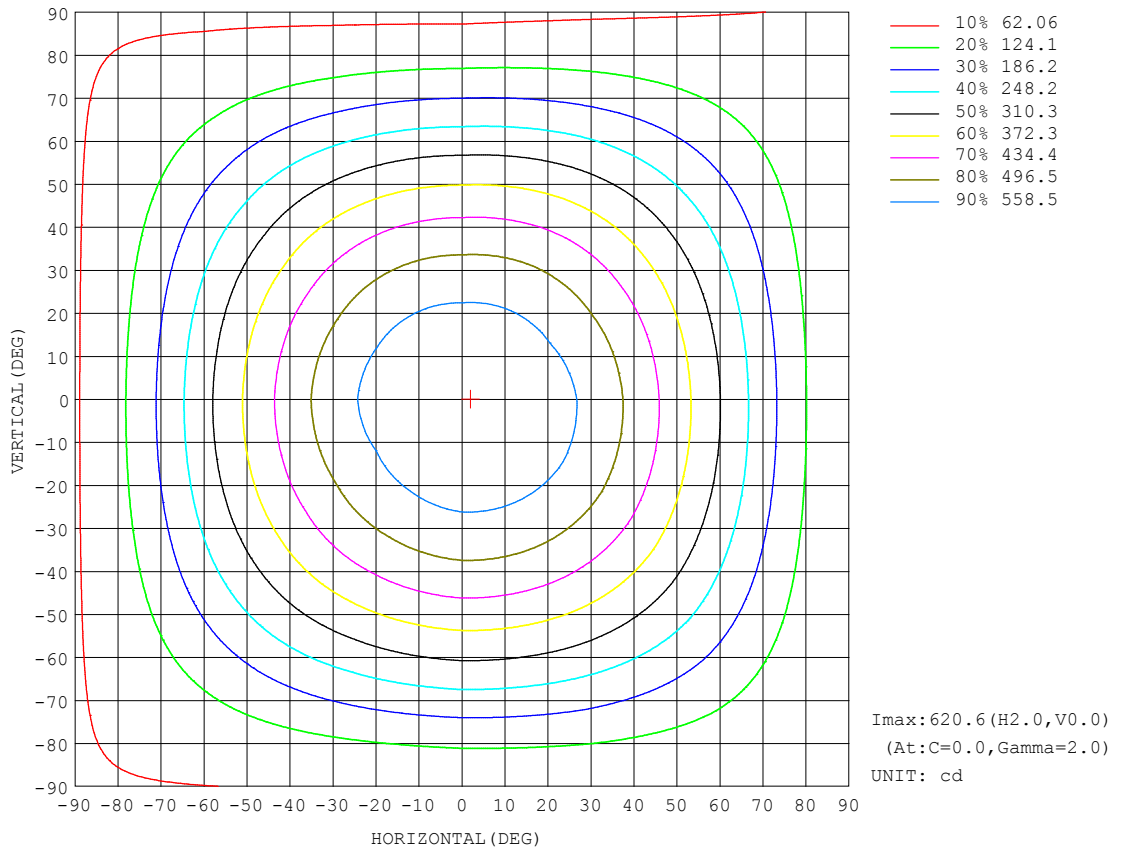
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	50	40	33	27
0.80	63	50	43	61	50	42	59	49	42	34
1.00	71	59	51	69	58	51	66	59	50	42
1.25	78	66	59	76	65	58	72	63	57	48
1.50	83	72	64	80	71	63	76	68	62	53
2.00	90	80	73	87	78	72	83	75	69	60
2.50	94	85	78	91	83	77	86	79	74	63
3.00	97	90	83	95	87	82	89	83	78	67
4.00	102	95	90	99	93	88	93	88	84	72
5.00	104	99	94	101	96	92	95	91	87	75
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

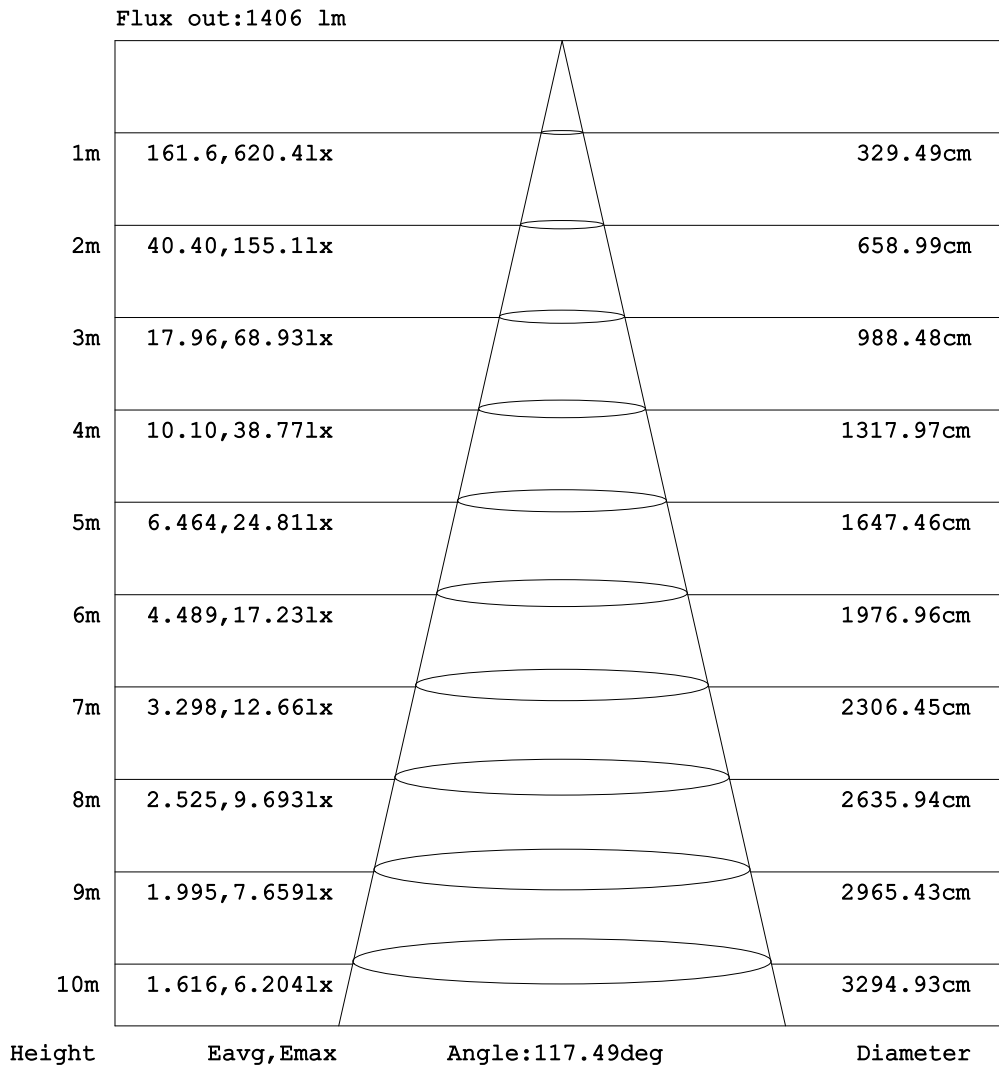


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.750m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

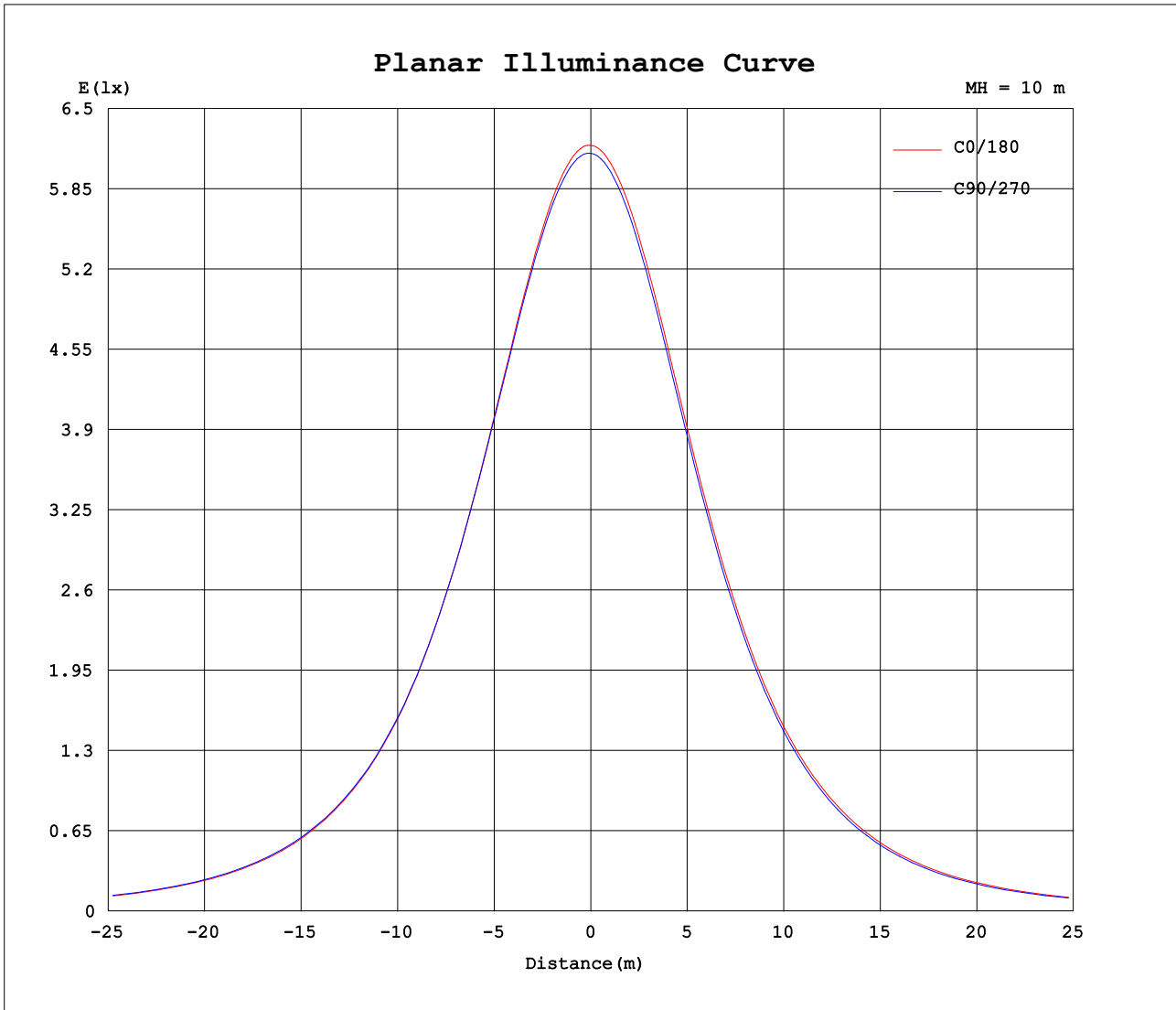


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.750m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.3070A P:36.60W PF:0.9860 Freq:60.00Hz Lamp Flux:2150.78x1 lm		
NAME: Alpine-21-36W-95C-MVUD-BL (白色底板, 高透灯罩TYPE整灯 3000K	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	620	618	616	614	612	611	620	618	616	614	612	611							
5	619	618	616	613	610	608	617	614	611	610	609	609							
10	613	613	610	608	603	600	608	605	602	601	602	603							
15	602	604	601	598	592	588	595	591	589	587	590	591							
20	587	589	586	583	576	572	577	572	570	569	573	575							
25	567	570	567	564	556	550	555	549	547	546	551	555							
30	542	546	543	540	531	525	528	521	520	519	525	530							
35	512	517	515	512	502	495	497	489	488	487	494	500							
40	479	485	483	480	468	461	462	454	452	451	460	466							
45	441	448	447	444	432	424	423	414	413	412	422	429							
50	401	408	407	404	392	384	381	372	370	370	380	388							
55	357	366	365	362	349	341	337	328	326	326	337	344							
60	311	321	320	318	305	297	291	281	280	279	290	299							
65	264	274	274	272	259	251	245	234	232	232	244	252							
70	217	225	227	223	213	203	196	188	184	186	196	205							
75	170	178	181	177	168	159	151	142	139	140	150	159							
80	125	133	136	133	125	117	111	103	101	101	110	116							
85	90.3	97.2	98.9	98.0	90.4	85.7	80.7	74.7	72.6	72.1	78.6	84.5							
90	64.8	70.5	71.7	70.9	65.6	61.6	57.4	52.9	51.2	50.8	55.8	60.5							
95	45.4	49.7	50.4	50.0	46.3	42.9	40.6	36.7	36.4	36.1	38.4	42.7							
100	33.4	35.6	34.5	36.0	33.2	29.7	32.6	30.2	31.2	31.1	29.8	33.4							
105	31.0	31.6	30.5	31.9	29.5	27.6	31.1	29.5	30.2	30.0	28.8	31.8							
110	29.5	30.0	29.6	30.0	28.2	27.1	29.9	29.3	29.5	29.3	28.5	30.9							
115	28.9	29.3	29.1	29.3	27.9	27.1	29.5	29.4	29.3	28.7	28.6	30.4							
120	29.0	29.3	29.2	29.3	28.0	27.4	29.8	29.7	29.4	28.9	28.9	30.3							
125	28.7	29.2	29.1	29.2	28.2	27.5	29.9	29.9	29.7	29.3	29.2	30.3							
130	28.9	29.4	29.1	29.0	28.3	27.6	30.1	30.0	30.0	29.5	29.5	30.3							
135	29.0	29.5	29.0	28.9	28.4	27.6	30.2	30.2	30.1	29.6	29.6	30.4							
140	29.0	29.4	29.0	28.8	28.4	27.7	30.3	30.2	30.2	29.8	29.7	30.4							
145	28.9	29.3	28.9	28.7	28.4	27.6	30.2	30.2	30.2	30.0	29.8	30.3							
150	28.8	29.2	28.7	28.5	28.4	27.6	30.2	29.9	30.1	30.1	29.7	30.2							
155	28.7	29.0	28.6	28.4	28.3	27.5	30.3	29.6	29.8	30.2	29.5	30.0							
160	28.8	28.8	29.0	29.5	30.5	29.9	31.1	29.7	29.3	30.0	29.3	29.5							
165	31.6	32.1	31.4	32.1	32.0	30.9	33.2	32.1	32.3	32.4	31.4	31.8							
170	33.0	33.1	32.5	33.3	33.0	32.0	34.0	33.0	33.0	33.3	32.5	33.0							
175	33.8	33.1	33.2	34.1	33.1	32.9	34.0	33.2	33.3	33.9	33.1	33.1							
180	34.3	33.5	33.6	34.5	33.6	33.6	34.3	33.4	33.7	34.4	33.6	33.5							

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-10-31

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:7.750m [K=1.0000]
 Remarks: