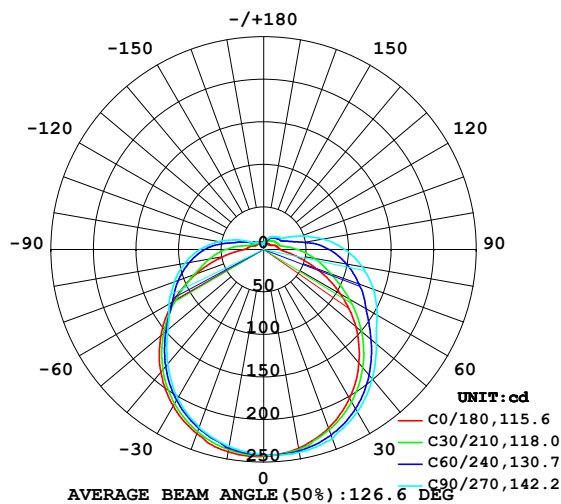


LUMINAIRE PHOTOMETRIC TEST REPORT

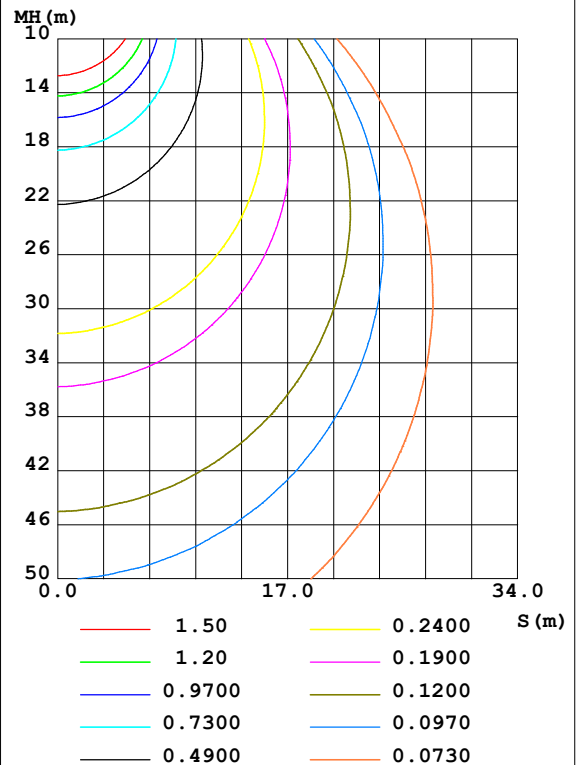
Test:U:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.17 lm/W			
MODEL		I _{max} (cd)	243.5	S/MH (C0/180)	1.30
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1002.4	η UP, DN (C0-180)	8.4, 44.6
NOMINAL FLUX (lm)	1002.44	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	6.3, 40.7
LAMPS INSIDE	1	η up (%)	14.7	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	85.3	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-08

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	237.1	239.5	242.1	242.3	241.6	238.0	235.1	233.1	0- 10	22.93	22.93	2.29,2.29
20	223.2	228.8	236.5	235.7	230.3	225.8	222.2	219.0	10- 20	66.06	89.00	8.88,8.88
30	202.0	211.3	220.2	221.1	212.7	207.1	202.1	197.9	20- 30	101.1	190.1	19,19
40	174.3	187.1	198.6	199.4	188.2	181.9	175.7	170.8	30- 40	123.7	313.8	31.3,31.3
50	141.4	157.6	173.1	172.3	157.9	151.9	147.2	139.8	40- 50	131.4	445.2	44.4,44.4
60	103.9	127.6	154.1	145.0	123.0	121.5	128.5	111.6	50- 60	125.9	571.1	57,57
70	66.31	101.7	137.2	122.0	84.96	97.11	111.7	91.09	60- 70	113.2	684.3	68.3,68.3
80	33.75	79.71	117.6	100.6	48.26	76.67	94.22	72.36	70- 80	95.73	780.1	77.8,77.8
90	19.59	58.30	95.48	78.41	22.96	57.03	75.00	53.15	80- 90	75.15	855.2	85.3,85.3
100	16.72	36.23	71.14	53.33	17.75	34.64	53.60	30.57	90-100	53.74	908.9	90.7,90.7
110	14.39	23.69	46.39	30.29	13.23	20.93	33.54	19.39	100-110	32.71	941.7	93.9,93.9
120	9.859	19.57	27.26	22.22	10.83	14.85	17.14	13.73	110-120	20.40	962.0	96,96
130	8.898	17.81	22.66	19.46	10.42	12.57	13.02	11.77	120-130	14.22	976.3	97.4,97.4
140	8.221	15.87	19.42	16.79	10.05	10.51	11.24	10.01	130-140	10.79	987.1	98.5,98.5
150	7.414	13.37	17.06	13.68	9.634	8.744	9.326	8.566	140-150	7.563	994.6	99.2,99.2
160	6.861	10.80	13.03	9.873	9.179	7.479	7.613	7.730	150-160	4.647	999.3	99.7,99.7
170	7.215	9.085	9.714	7.937	8.729	7.227	7.056	7.381	160-170	2.401	1002	99.9,99.9
180	8.772	8.467	7.679	7.999	8.800	8.463	7.715	7.995	170-180	0.7641	1002	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 379.49 lm

%lum = 37.9%

%lamp = 37.9%

Conical surface Flux(120deg): 571.11 lm

%lum = 57.0%

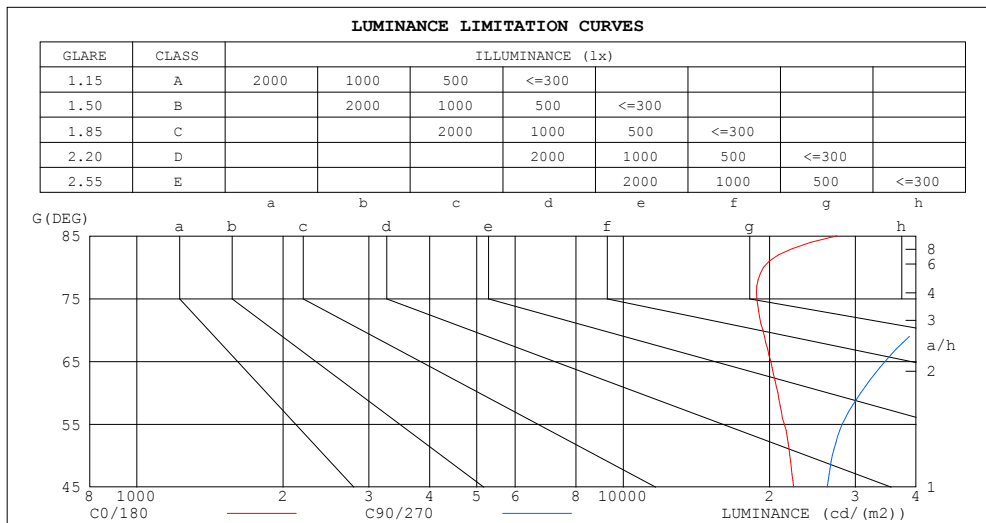
%lamp = 57.0%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	27474	122582
80	19435	67716
75	18820	49314
70	19387	40123
65	20106	34542
60	20789	30814
55	21442	28210
50	22002	26927
45	22394	26277

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm					
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K			TYPE:		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	.384	.218	.069	.372	.212	.067	.350	.201	.064	.330	.190	.061	.311	.180	.058	
2.0	.332	.182	.056	.322	.177	.055	.302	.168	.052	.284	.159	.050	.267	.151	.048	
3.0	.295	.157	.047	.286	.153	.046	.268	.145	.044	.251	.138	.042	.236	.131	.040	
4.0	.266	.138	.041	.257	.135	.040	.241	.128	.038	.226	.121	.037	.212	.115	.035	
5.0	.242	.123	.036	.234	.120	.035	.219	.114	.034	.206	.109	.032	.193	.103	.031	
6.0	.222	.111	.032	.215	.108	.031	.201	.103	.030	.189	.098	.029	.177	.093	.028	
7.0	.204	.101	.029	.198	.099	.028	.186	.094	.027	.175	.090	.026	.164	.085	.025	
8.0	.190	.093	.026	.184	.091	.026	.173	.086	.025	.162	.082	.024	.153	.078	.023	
9.0	.177	.086	.024	.171	.084	.023	.161	.080	.023	.152	.076	.022	.143	.072	.021	
10.0	.166	.079	.022	.161	.078	.022	.151	.074	.021	.142	.071	.020	.134	.067	.019	

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	.302	.302	.302	.258	.258	.258	.176	.176	.176	.101	.101	.101	.032	.032	.032	
1.0	.298	.268	.241	.255	.230	.208	.175	.158	.144	.100	.092	.084	.032	.030	.027	
2.0	.291	.245	.207	.249	.211	.179	.171	.146	.125	.099	.085	.073	.032	.027	.024	
3.0	.284	.229	.185	.243	.197	.160	.167	.137	.112	.096	.080	.066	.031	.026	.022	
4.0	.276	.216	.171	.237	.187	.148	.163	.130	.104	.094	.076	.062	.030	.025	.020	
5.0	.268	.206	.161	.230	.178	.140	.158	.125	.099	.092	.073	.059	.030	.024	.019	
6.0	.260	.198	.153	.224	.172	.134	.154	.120	.095	.090	.071	.056	.029	.023	.019	
7.0	.253	.191	.148	.218	.166	.129	.151	.116	.091	.087	.069	.054	.028	.022	.018	
8.0	.247	.186	.144	.212	.161	.126	.147	.113	.089	.085	.067	.053	.028	.022	.018	
9.0	.240	.181	.141	.207	.157	.123	.143	.110	.087	.084	.065	.052	.027	.021	.017	
10.0	.234	.177	.139	.202	.154	.121	.140	.108	.086	.082	.064	.051	.027	.021	.017	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm											
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K						TYPE:		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	22.3	23.7	22.7	24.1	24.6	23.8	25.2	24.3	25.7	26.2	
	3H	23.9	25.2	24.4	25.6	26.2	26.5	27.8	27.0	28.3	
	4H	24.6	25.8	25.1	26.3	26.9	28.0	29.2	28.5	29.7	
	6H	25.2	26.3	25.7	26.9	27.5	29.6	30.8	30.2	31.3	
	8H	25.4	26.6	26.0	27.1	27.7	30.5	31.7	31.1	32.2	
	12H	25.7	26.8	26.3	27.4	28.0	31.6	32.7	32.1	33.2	
4H	2H	23.2	24.5	23.7	25.0	25.5	24.4	25.6	24.9	26.1	
	3H	25.0	26.1	25.6	26.7	27.3	27.3	28.4	27.8	28.9	
	4H	25.9	26.9	26.5	27.5	28.1	29.0	30.0	29.5	30.5	
	6H	26.7	27.6	27.3	28.2	28.9	30.8	31.7	31.4	32.3	
	8H	27.1	28.0	27.7	28.6	29.3	31.9	32.7	32.5	33.3	
	12H	27.5	28.3	28.1	28.9	29.6	33.0	33.8	33.7	34.4	
8H	4H	26.8	27.7	27.5	28.3	29.0	29.3	30.1	29.9	30.7	
	6H	28.0	28.7	28.6	29.3	30.1	31.5	32.2	32.1	32.8	
	8H	28.5	29.2	29.2	29.8	30.6	32.7	33.3	33.4	34.0	
	12H	29.1	29.7	29.8	30.4	31.2	34.1	34.7	34.8	35.4	
12H	4H	27.1	27.9	27.8	28.5	29.3	29.3	30.1	29.9	30.7	
	6H	28.5	29.1	29.1	29.8	30.5	31.6	32.2	32.2	32.9	
	8H	29.2	29.8	29.9	30.4	31.2	32.9	33.5	33.6	34.2	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					

CIE Pub.117, 1002 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.0$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

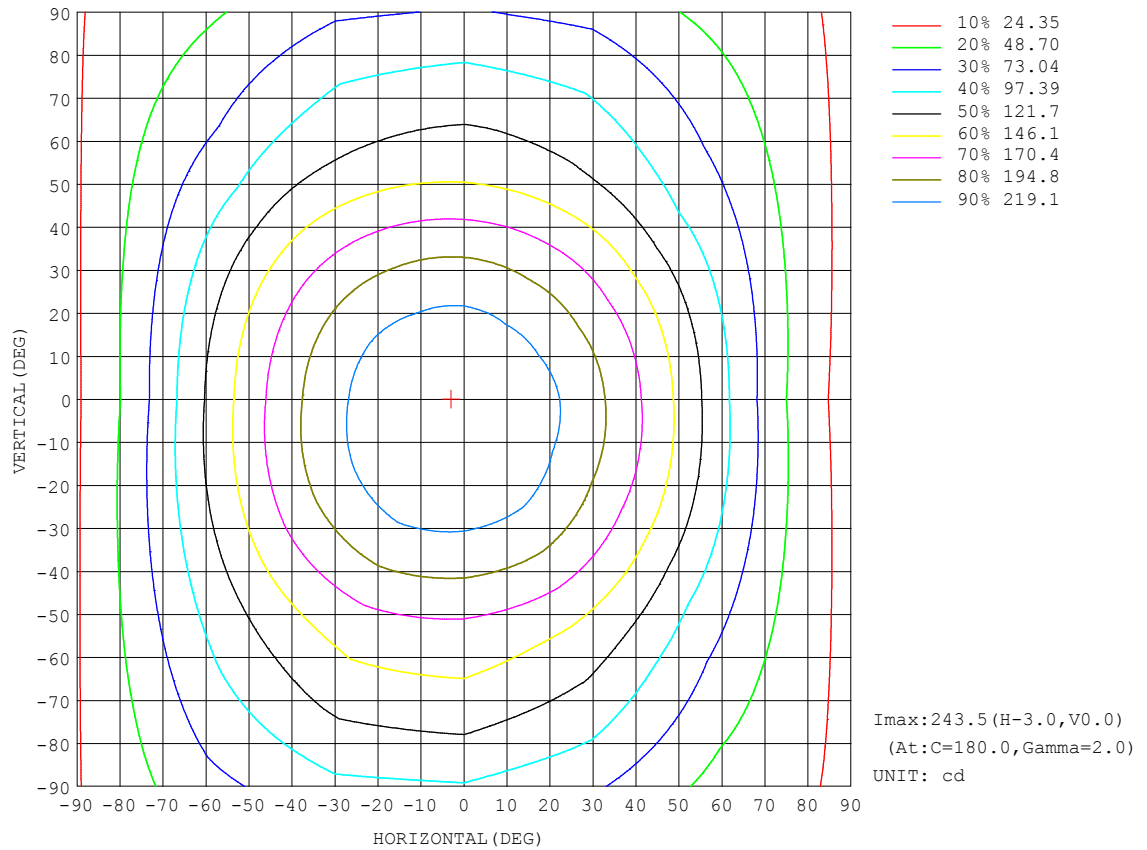
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	37	30	48	37	30	47	36	29	23
0.80	59	46	38	57	45	38	55	44	37	29
1.00	66	54	45	65	53	45	61	53	44	35
1.25	73	61	52	71	60	52	67	57	50	41
1.50	78	66	58	76	65	57	71	62	55	45
2.00	85	75	66	83	73	65	77	69	63	52
2.50	90	80	72	87	78	70	81	73	67	55
3.00	93	84	77	90	82	75	84	77	72	59
4.00	98	90	84	94	87	82	88	82	77	64
5.00	101	94	88	97	91	86	90	85	81	67
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:2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

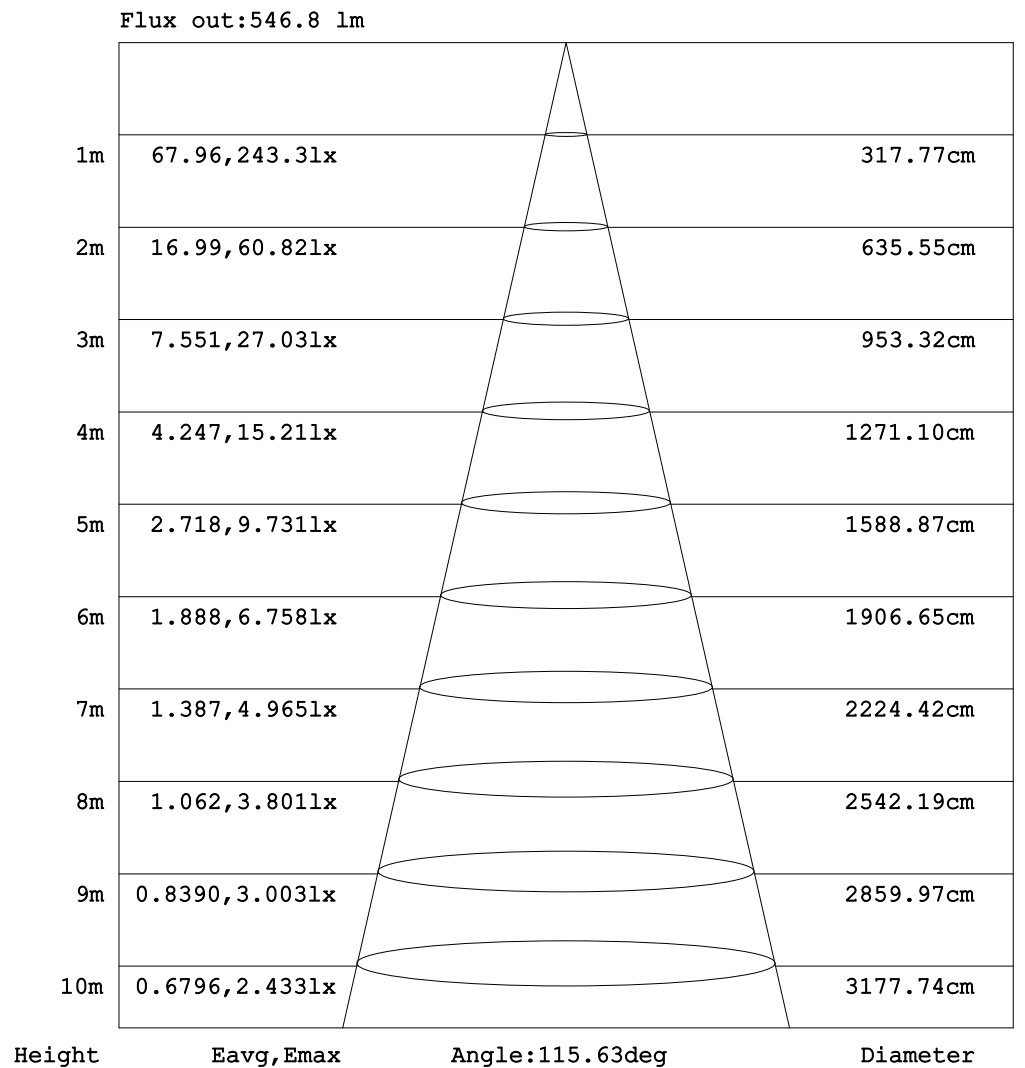


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

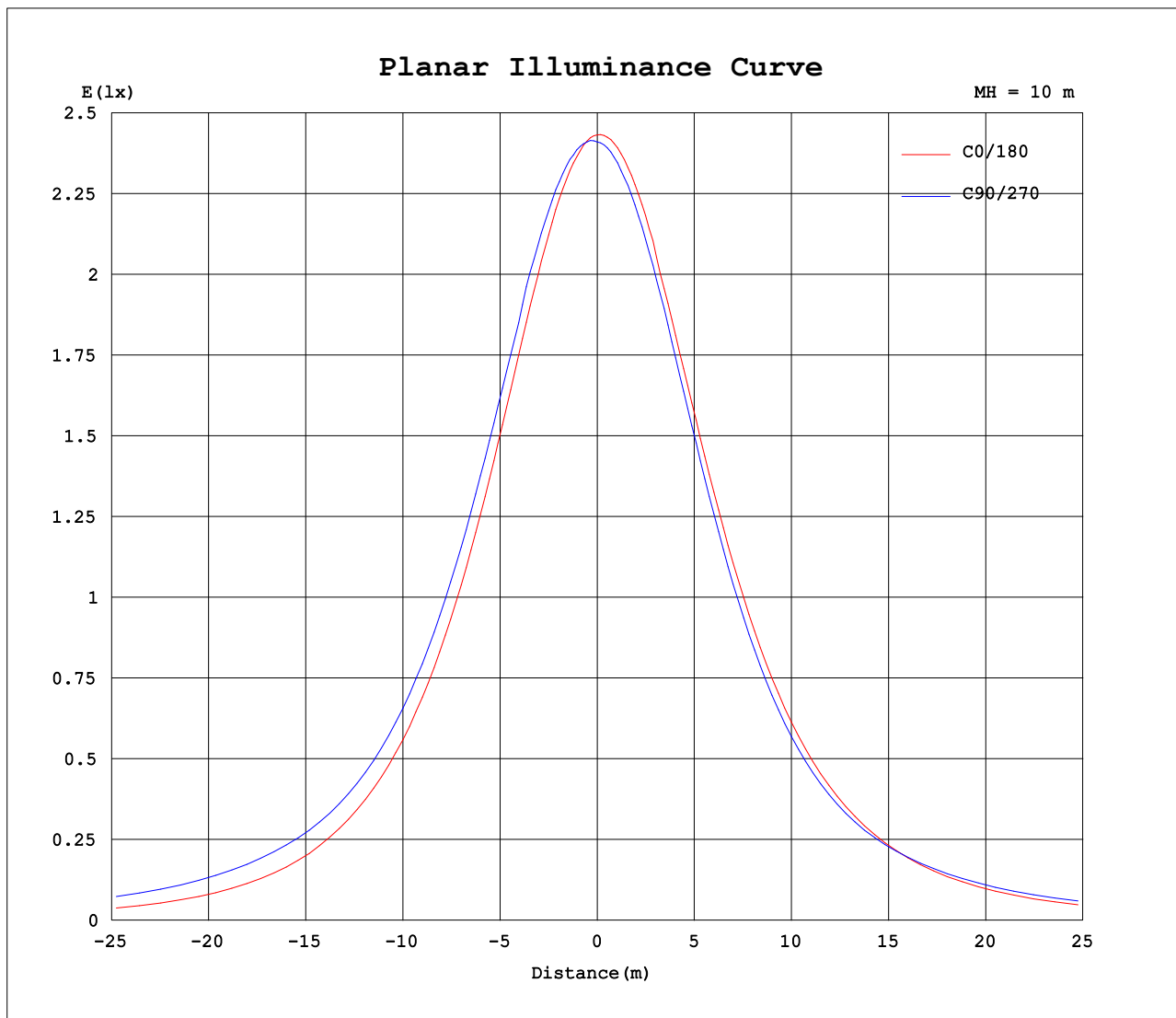


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-08

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: 2025-08-08

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:120.6V I:0.1170A P:13.70W PF:0.9730 Freq:60.00Hz Lamp Flux:1002.44x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 2700K	TYPE:	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	243	242	242	241	241	241	243	242	242	241	241	241							
5	241	241	242	242	243	242	243	242	240	239	238	239							
10	237	239	240	242	243	242	242	239	237	235	232	234							
15	231	232	237	240	241	240	238	234	230	230	227	227							
20	223	226	232	237	237	234	230	228	224	222	219	219							
25	213	217	225	228	231	227	222	220	215	213	209	209							
30	202	207	216	220	223	219	213	209	205	202	198	198							
35	189	195	205	210	214	209	201	198	193	189	186	184							
40	174	181	193	199	202	197	188	184	179	176	172	170							
45	158	166	179	186	189	184	174	170	165	161	157	154							
50	141	150	165	173	176	169	158	154	150	147	142	138							
55	123	133	151	162	163	153	141	137	136	136	129	120							
60	104	116	139	154	152	138	123	119	124	129	119	104							
65	85.0	99.4	130	146	144	123	104	103	115	120	111	89.6							
70	66.3	84.1	119	137	135	109	85.0	87.3	107	112	103	79.0							
75	48.7	71.9	109	128	125	98.3	66.1	74.8	98.0	103	94.4	69.0							
80	33.7	60.5	98.9	118	114	87.4	48.3	64.6	88.8	94.2	85.4	59.3							
85	23.9	49.6	88.1	107	103	76.4	33.0	54.5	79.2	84.9	76.0	49.7							
90	19.6	39.7	76.9	95.5	91.7	65.1	23.0	44.7	69.3	75.0	66.0	40.3							
95	18.0	30.9	64.9	83.7	80.0	53.9	19.4	35.1	58.1	64.5	53.3	31.0							
100	16.7	23.3	49.2	71.1	64.6	42.1	17.8	25.8	43.5	53.6	38.8	22.4							
105	15.6	19.4	36.3	58.0	46.8	30.2	15.8	18.6	32.8	42.5	29.7	17.3							
110	14.4	18.5	28.9	46.4	38.1	22.5	13.2	15.6	26.2	33.5	23.6	15.2							
115	12.1	17.6	24.3	35.7	31.1	20.2	11.2	14.2	20.5	24.4	18.2	13.9							
120	9.86	16.8	22.3	27.3	25.4	19.0	10.8	13.3	16.4	17.1	14.7	12.7							
125	9.18	16.1	21.5	23.4	23.6	17.9	10.6	12.3	14.8	14.0	13.7	11.7							
130	8.90	15.4	20.2	22.7	21.9	17.0	10.4	11.5	13.6	13.0	12.7	10.8							
135	8.60	14.4	19.1	20.7	20.7	16.2	10.2	10.6	12.7	12.1	11.7	10.0							
140	8.22	13.4	18.3	19.4	19.1	14.4	10.0	9.68	11.3	11.2	10.7	9.32							
145	7.81	12.4	17.1	18.5	18.0	12.6	9.85	8.98	10.3	10.2	9.77	8.64							
150	7.41	11.4	15.4	17.1	16.3	11.0	9.63	8.37	9.11	9.33	8.98	8.15							
155	7.12	10.4	13.6	15.1	13.4	9.72	9.43	7.96	8.09	8.36	8.28	7.89							
160	6.86	9.63	12.0	13.0	10.9	8.83	9.18	7.64	7.32	7.61	7.65	7.81							
165	6.66	9.13	10.4	11.2	9.17	8.28	8.90	7.39	6.88	7.17	7.18	7.74							
170	7.21	8.87	9.30	9.71	7.78	8.09	8.73	7.74	6.72	7.06	6.99	7.77							
175	8.05	8.76	8.70	8.89	7.44	8.18	8.71	8.02	7.38	6.62	7.18	8.14							
180	8.77	8.71	8.22	7.68	7.50	8.50	8.80	8.70	8.22	7.71	7.49	8.50							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-08

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: