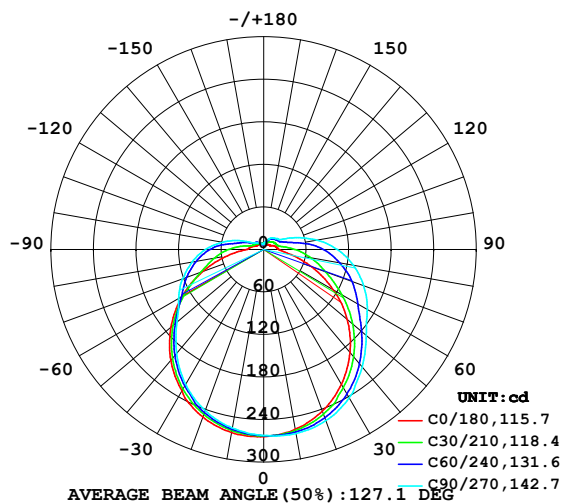


LUMINAIRE PHOTOMETRIC TEST REPORT

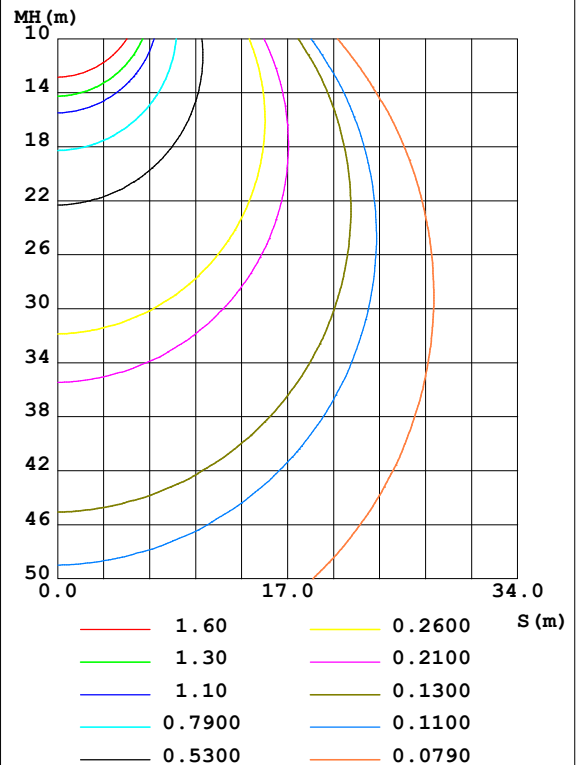
Test:U:120.6V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.19 lm/W			
MODEL		I _{max} (cd)	264.4	S/MH (C0/180)	1.30
NOMINAL POWER(W)		LOR (%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1093.2	η UP, DN (C0-180)	8.3, 44.7
NOMINAL FLUX (lm)	1093.16	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	6.4, 40.6
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: 2025-08-11

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	257.4	260.3	263.5	263.7	262.1	258.4	255.7	254.4	0- 10	24.93	24.93	2.28,2.28
20	242.7	249.9	256.8	256.9	251.5	246.3	241.8	239.2	10- 20	71.94	96.87	8.86,8.86
30	219.4	230.1	241.7	241.5	230.3	225.1	220.0	215.3	20- 30	110.2	207.1	18.9,18.9
40	189.6	203.8	216.2	217.0	204.0	197.7	191.3	185.7	30- 40	134.6	341.7	31.3,31.3
50	153.9	172.1	189.0	187.8	170.9	165.0	160.1	152.1	40- 50	143.0	484.7	44.3,44.3
60	113.0	140.3	168.9	158.8	133.0	132.2	138.8	121.0	50- 60	137.2	621.9	56.9,56.9
70	72.09	112.9	150.2	133.8	91.75	105.2	122.0	98.81	60- 70	123.5	745.4	68.2,68.2
80	36.53	88.09	128.3	110.7	52.08	83.55	102.6	78.92	70- 80	104.6	850.0	77.8,77.8
90	21.21	64.23	103.9	85.53	24.43	62.78	82.19	58.59	80- 90	82.19	932.2	85.3,85.3
100	18.31	39.44	76.70	57.47	19.13	38.32	59.52	34.20	90-100	58.86	991.1	90.7,90.7
110	15.76	25.63	49.38	32.55	14.19	23.44	37.13	21.48	100-110	35.72	1027	93.9,93.9
120	10.83	21.20	28.82	23.86	11.73	16.45	19.76	15.19	110-120	22.22	1049	96,96
130	9.941	19.35	24.47	21.01	11.31	14.01	14.68	13.05	120-130	15.55	1065	97.4,97.4
140	9.095	17.22	20.90	18.03	10.90	11.73	12.39	11.08	130-140	11.80	1076	98.5,98.5
150	8.162	14.43	18.21	14.70	10.47	9.698	9.902	9.592	140-150	8.234	1085	99.2,99.2
160	7.515	11.62	13.79	10.81	9.900	8.296	8.781	8.856	150-160	5.071	1090	99.7,99.7
170	7.869	9.798	10.75	8.638	9.415	8.083	8.252	8.449	160-170	2.646	1092	99.9,99.9
180	9.713	9.288	8.400	8.990	9.736	9.280	8.498	8.990	170-180	0.8450	1093	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 413.18 lm

%lum = 37.8%

%lamp = 37.8%

Conical surface Flux(120deg): 621.88 lm

%lum = 56.9%

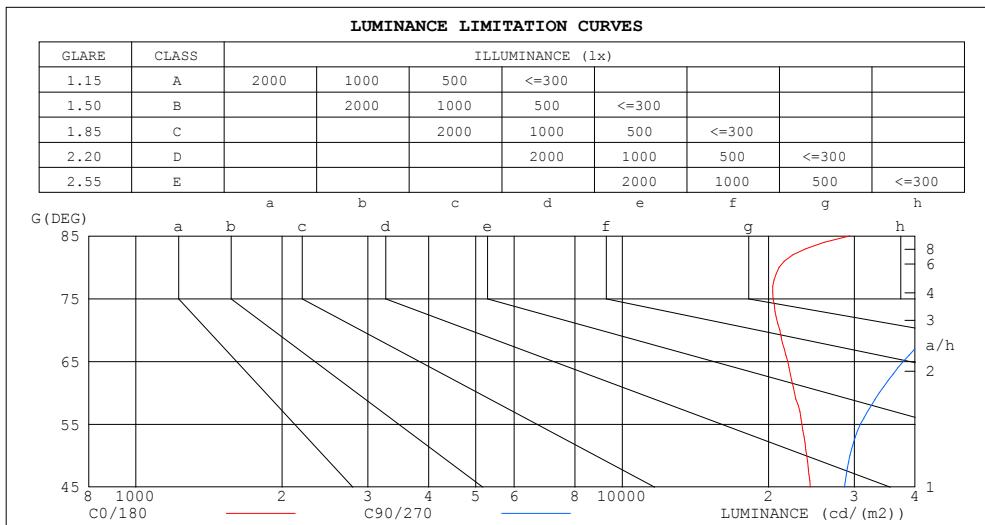
%lamp = 56.9%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	29378	133610
80	21036	73909
75	20432	53996
70	21077	43919
65	21888	37855
60	22606	33789
55	23430	30899
50	23937	29402
45	24360	28636

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm					
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K			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	.172	.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	.303	.303	.303	.259	.259	.259	.177	.177	.177	.101	.101	.101	.032	.032	.032	
1.0	.299	.269	.242	.255	.231	.208	.175	.159	.144	.101	.092	.084	.032	.030	.027	
2.0	.292	.246	.207	.250	.211	.179	.171	.146	.125	.099	.085	.073	.032	.028	.024	
3.0	.284	.229	.185	.243	.197	.161	.167	.137	.113	.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	.179	.140	.159	.125	.099	.092	.073	.059	.030	.024	.019	
6.0	.261	.198	.154	.224	.172	.134	.155	.120	.095	.090	.071	.056	.029	.023	.019	
7.0	.254	.192	.148	.218	.166	.129	.151	.117	.092	.088	.069	.055	.028	.022	.018	
8.0	.247	.186	.144	.212	.161	.126	.147	.113	.089	.086	.067	.053	.028	.022	.018	
9.0	.241	.181	.141	.207	.157	.123	.144	.111	.088	.084	.065	.052	.027	.021	.017	
10.0	.235	.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:2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm											
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K						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	22.8	24.2	24.7	23.8	25.2	24.3	25.7	26.2
	3H	23.9	25.2	24.4	25.7	26.2	26.5	27.8	27.0	28.3	28.8
	4H	24.6	25.8	25.1	26.3	26.9	28.0	29.2	28.5	29.8	30.3
	6H	25.2	26.4	25.7	26.9	27.5	29.6	30.8	30.2	31.3	31.9
	8H	25.5	26.6	26.0	27.1	27.7	30.6	31.7	31.1	32.2	32.8
	12H	25.7	26.8	26.3	27.4	28.0	31.6	32.7	32.2	33.2	33.8
4H	2H	23.2	24.5	23.8	25.0	25.6	24.4	25.6	24.9	26.1	26.7
	3H	25.1	26.2	25.6	26.7	27.3	27.3	28.4	27.9	29.0	29.6
	4H	26.0	27.0	26.5	27.5	28.2	29.0	30.0	29.6	30.6	31.2
	6H	26.8	27.7	27.4	28.3	29.0	30.9	31.8	31.5	32.4	33.0
	8H	27.2	28.0	27.8	28.6	29.3	31.9	32.7	32.5	33.3	34.0
	12H	27.5	28.3	28.2	29.0	29.7	33.1	33.8	33.7	34.5	35.2
8H	4H	26.9	27.7	27.5	28.4	29.0	29.4	30.2	30.0	30.8	31.5
	6H	28.0	28.8	28.7	29.4	30.1	31.5	32.2	32.2	32.9	33.6
	8H	28.6	29.3	29.3	29.9	30.7	32.7	33.4	33.4	34.0	34.8
	12H	29.2	29.8	29.9	30.4	31.2	34.2	34.7	34.9	35.4	36.2
12H	4H	27.2	28.0	27.8	28.6	29.3	29.4	30.2	30.0	30.8	31.5
	6H	28.5	29.2	29.2	29.8	30.6	31.6	32.3	32.3	32.9	33.7
	8H	29.3	29.8	29.9	30.5	31.3	33.0	33.5	33.7	34.2	35.0
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, 1093 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.3$)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

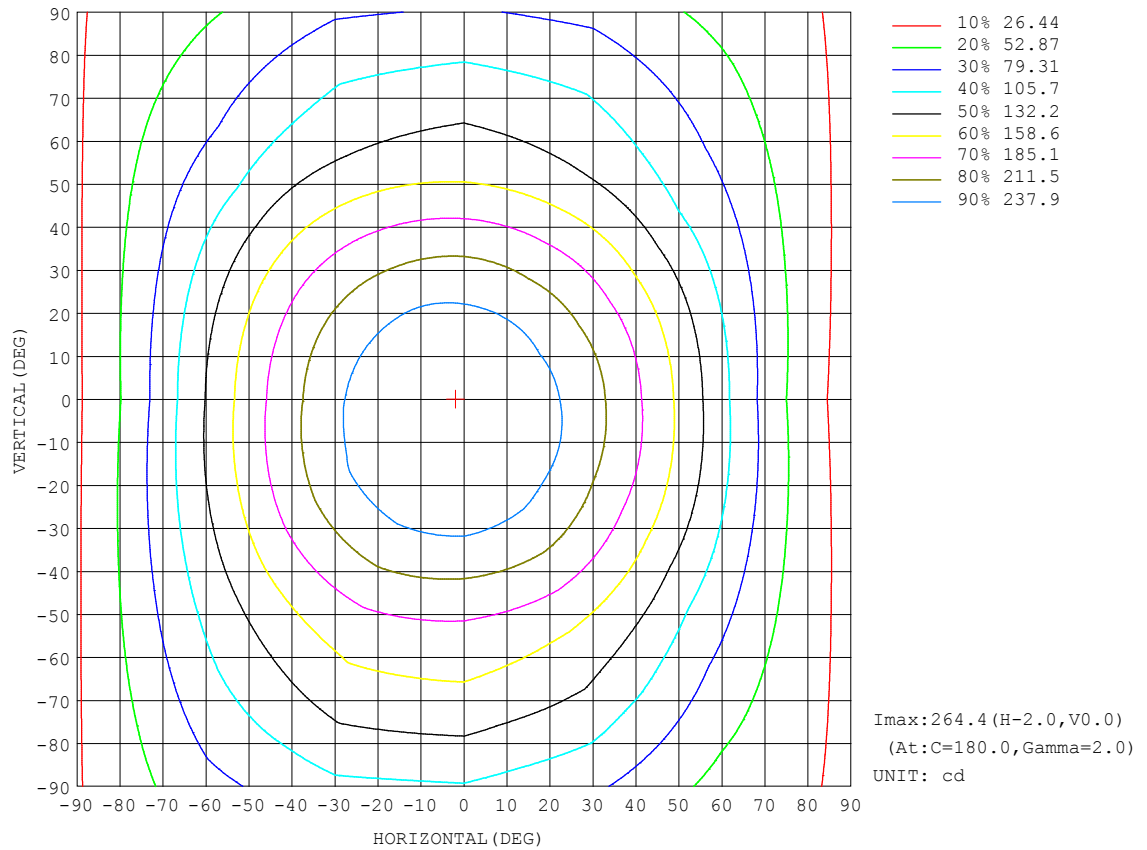
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	37	30	48	37	30	47	36	29	23
0.80	59	46	38	57	45	37	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	74	66	82	73	65	77	69	63	52
2.50	90	80	72	87	77	70	81	73	67	55
3.00	93	84	77	90	82	75	84	77	72	59
4.00	98	90	84	94	87	81	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: 2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

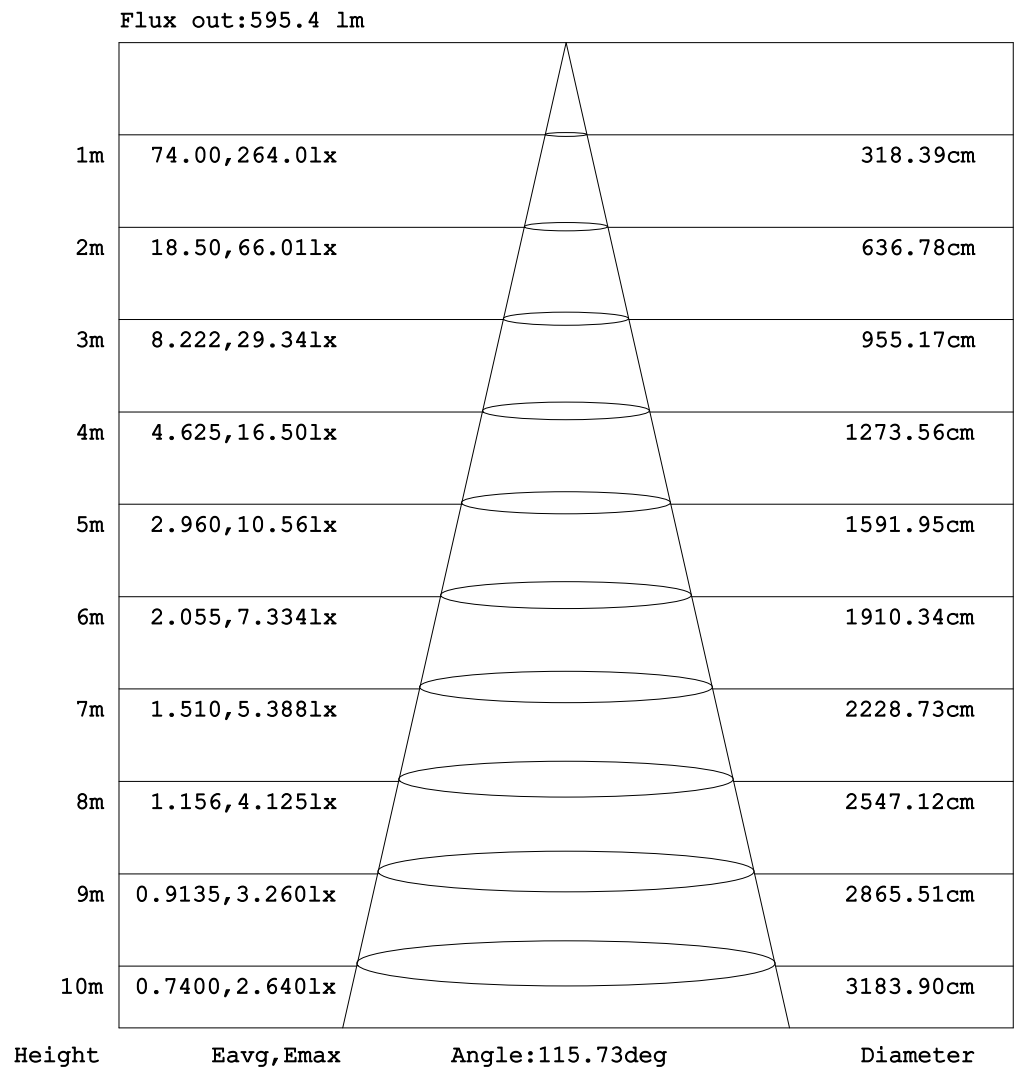


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

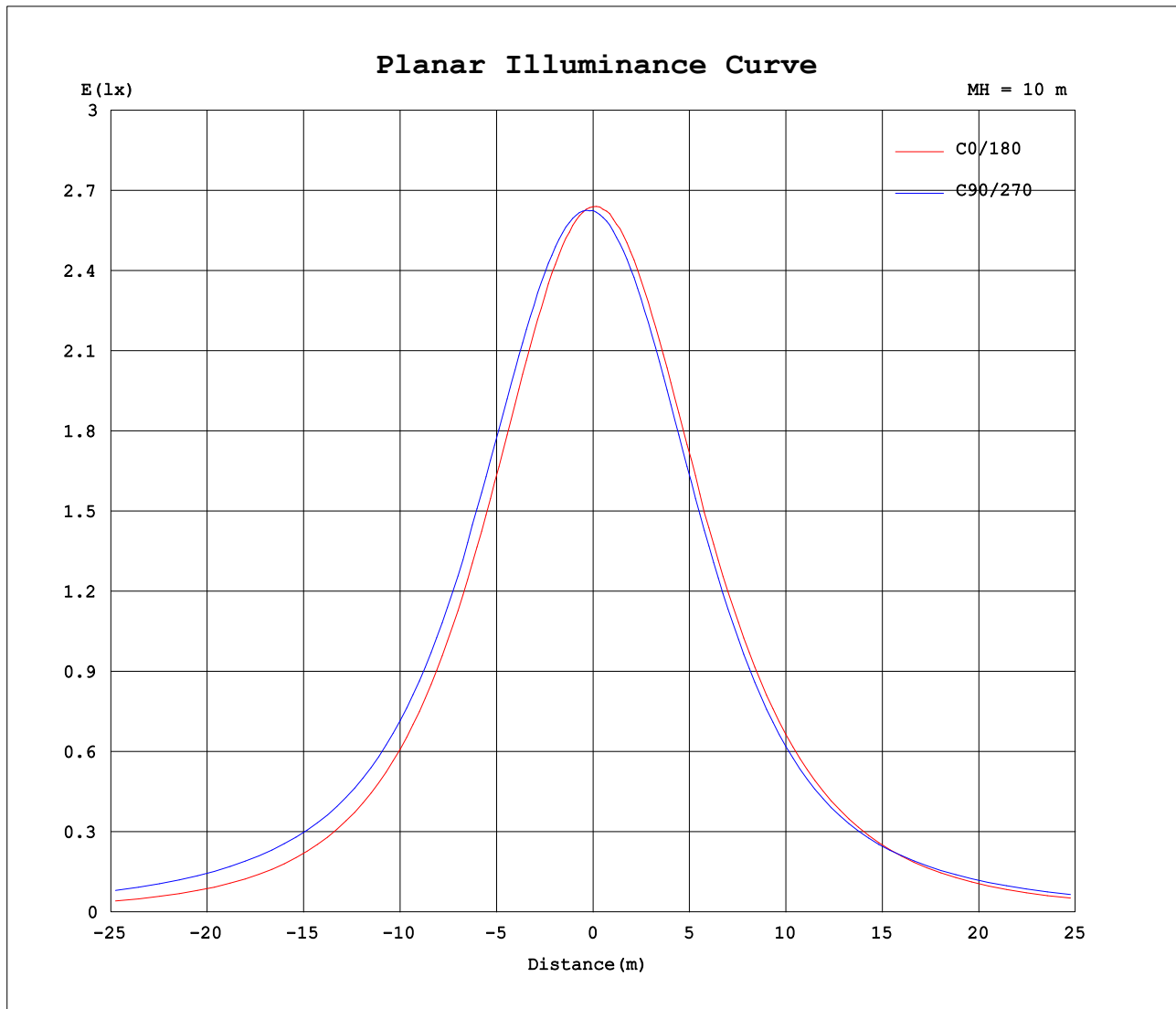


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-11

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: 2025-08-11

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:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1093.16x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 3500K	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	264	263	263	263	262	262	264	263	263	263	262	262							
5	262	262	263	264	264	264	264	262	261	260	259	259							
10	257	259	261	264	264	263	262	259	257	256	254	254							
15	251	254	258	262	262	260	258	254	252	250	248	247							
20	243	247	253	257	258	256	251	248	245	242	240	239							
25	232	238	245	250	252	249	243	239	235	232	228	228							
30	219	225	235	242	243	240	230	228	223	220	215	215							
35	205	212	224	229	232	227	218	215	210	206	202	201							
40	190	198	210	216	220	214	204	200	195	191	186	185							
45	172	181	195	202	206	200	188	184	179	175	170	168							
50	154	164	180	189	192	184	171	167	163	160	154	150							
55	134	146	166	177	178	167	153	149	147	147	139	132							
60	113	127	153	169	167	150	133	130	134	139	129	113							
65	92.5	109	143	160	158	134	113	111	125	131	121	97.5							
70	72.1	93.1	133	150	148	119	91.8	94.8	116	122	112	86.0							
75	52.9	80.0	121	140	137	108	71.2	81.3	106	112	103	75.3							
80	36.5	67.3	109	128	126	95.7	52.1	70.5	96.6	103	92.9	64.9							
85	25.6	55.2	96.8	116	113	83.4	35.4	59.9	86.6	92.7	82.8	54.8							
90	21.2	44.2	84.3	104	100	71.0	24.4	49.5	76.1	82.2	72.4	44.8							
95	19.6	34.3	70.9	90.8	87.1	58.5	20.9	39.2	63.8	71.2	58.6	34.8							
100	18.3	25.6	53.3	76.7	69.7	45.3	19.1	28.8	47.8	59.5	42.9	25.5							
105	17.2	21.2	39.1	62.2	50.0	32.2	16.9	20.8	36.5	48.0	33.5	19.1							
110	15.8	20.0	31.3	49.4	40.9	24.2	14.2	17.2	29.7	37.1	26.4	16.5							
115	13.2	18.9	26.2	37.8	33.3	21.9	12.1	15.7	23.3	27.2	20.3	15.2							
120	10.8	18.1	24.3	28.8	27.1	20.6	11.7	14.6	18.3	19.8	16.4	13.9							
125	10.3	17.5	23.3	25.4	25.3	19.3	11.5	13.6	16.5	15.8	15.3	12.9							
130	9.94	16.6	22.1	24.5	23.6	18.4	11.3	12.7	15.4	14.7	14.2	11.9							
135	9.60	15.6	20.7	22.4	22.1	17.3	11.1	11.5	14.4	13.6	13.1	11.1							
140	9.09	14.5	19.9	20.9	20.6	15.5	10.9	10.6	12.9	12.4	11.9	10.3							
145	8.61	13.3	18.5	19.9	19.3	13.6	10.7	9.79	11.6	11.1	10.9	9.58							
150	8.16	12.2	16.7	18.2	17.5	11.9	10.5	9.25	10.1	9.90	9.96	9.23							
155	7.81	11.2	14.7	16.1	14.7	10.5	10.2	8.80	8.84	9.43	9.23	9.16							
160	7.52	10.4	12.9	13.8	12.1	9.56	9.90	8.50	8.09	8.78	8.64	9.07							
165	7.30	9.89	11.2	12.0	9.97	8.99	9.54	8.24	7.75	8.43	8.19	8.96							
170	7.87	9.58	10.0	10.7	8.49	8.78	9.41	8.65	7.52	8.25	7.95	8.94							
175	8.80	9.55	9.21	9.61	8.15	8.96	9.57	8.97	8.22	7.60	8.26	9.19							
180	9.71	9.61	8.97	8.40	8.58	9.40	9.74	9.58	8.98	8.50	8.59	9.39							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-11

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: