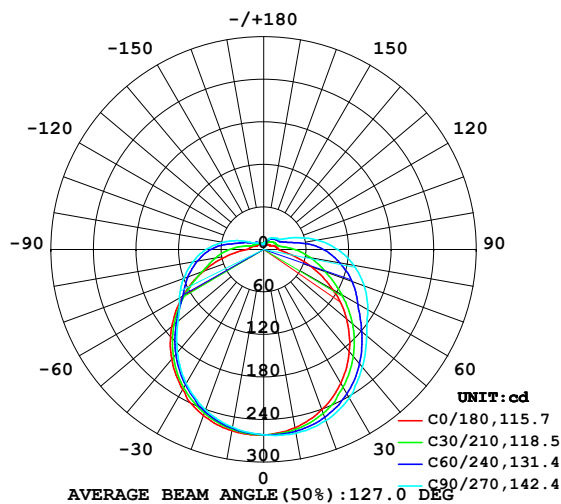


LUMINAIRE PHOTOMETRIC TEST REPORT

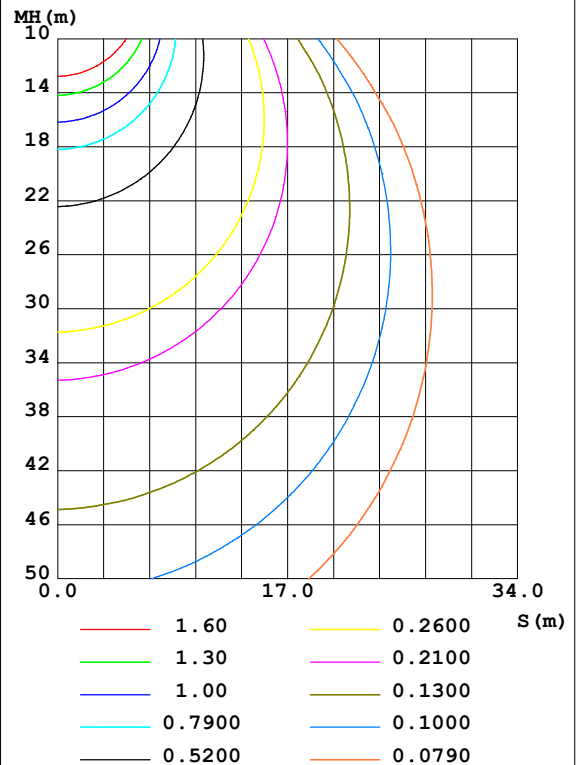
Test:U:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.87 lm/W			
MODEL		I _{max} (cd)	264.0	S/MH (C0/180)	1.30
NOMINAL POWER(W)		LOR(%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1088.9	η UP,DN(C0-180)	8.4,44.8
NOMINAL FLUX(lm)	1088.93	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	6.4,40.4
LAMPS INSIDE	1	η up (%)	14.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down (%)	85.2	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	255.3	259.0	263.1	263.3	259.7	256.7	254.6	254.0	0- 10	24.82	24.82	2.28,2.28
20	240.5	248.9	256.6	256.9	249.2	244.4	240.7	238.6	10- 20	71.64	96.46	8.86,8.86
30	217.6	229.5	241.8	241.8	228.4	223.2	218.5	214.6	20- 30	109.7	206.2	18.9,18.9
40	187.9	203.7	216.7	217.4	201.9	195.7	189.6	185.0	30- 40	134.1	340.3	31.2,31.2
50	152.7	172.2	189.7	188.5	169.3	163.1	158.3	151.3	40- 50	142.4	482.7	44.3,44.3
60	112.2	140.4	169.8	159.5	131.6	130.3	137.2	120.1	50- 60	136.6	619.3	56.9,56.9
70	71.61	112.9	151.0	134.5	90.68	103.5	119.6	98.05	60- 70	123.0	742.3	68.2,68.2
80	36.45	87.99	129.0	111.3	51.48	82.05	101.3	78.35	70- 80	104.2	846.4	77.7,77.7
90	21.23	64.08	104.4	85.99	24.30	61.51	81.22	58.20	80- 90	81.86	928.3	85.2,85.2
100	18.24	39.37	77.11	57.68	18.88	37.40	58.91	34.22	90-100	58.60	986.9	90.6,90.6
110	15.73	25.59	49.60	32.69	14.06	23.14	36.73	21.42	100-110	35.59	1022	93.9,93.9
120	10.87	21.22	28.93	23.99	11.69	16.33	19.60	15.18	110-120	22.18	1045	95.9,95.9
130	9.984	19.38	24.63	21.10	11.29	13.97	14.70	13.02	120-130	15.55	1060	97.4,97.4
140	9.165	17.26	20.95	18.13	10.94	11.68	12.66	11.08	130-140	11.83	1072	98.4,98.4
150	8.252	14.52	18.32	14.79	10.56	9.705	10.48	9.598	140-150	8.278	1080	99.2,99.2
160	7.609	11.82	13.86	10.87	10.06	8.308	8.589	8.917	150-160	5.104	1085	99.7,99.7
170	7.963	9.970	10.85	8.666	9.556	8.124	8.173	8.526	160-170	2.665	1088	99.9,99.9
180	9.799	9.417	8.639	9.068	9.807	9.405	8.620	9.058	170-180	0.8525	1089	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 411.43 lm

%lum = 37.8%

%lamp = 37.8%

Conical surface Flux(120deg): 619.28 lm

%lum = 56.9%

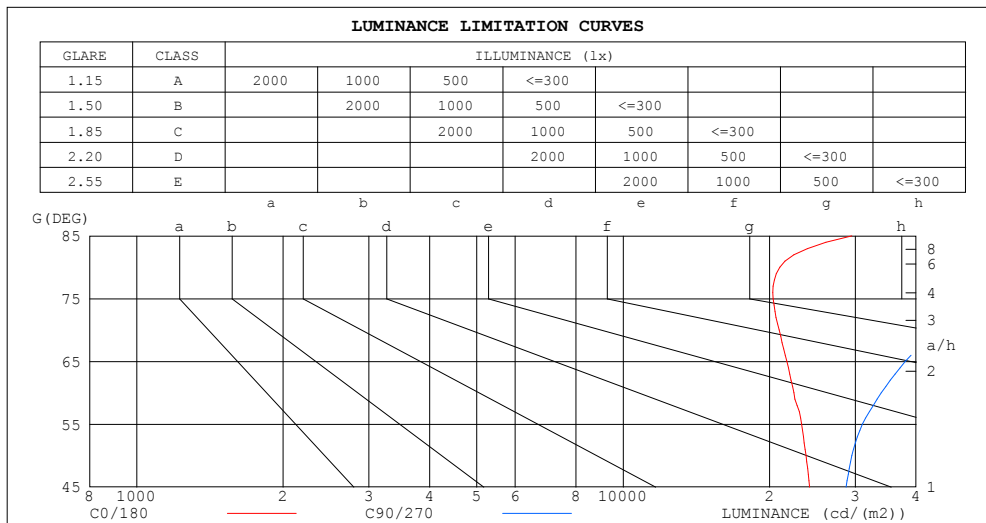
%lamp = 56.9%

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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	29503	134285
80	20990	74299
75	20334	54240
70	20939	44138
65	21717	38014
60	22440	33955
55	23258	31058
50	23756	29510
45	24178	28738

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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm					
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K			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	.089	.026	.164	.085	.025	
8.0	.190	.093	.026	.184	.091	.026	.173	.086	.025	.162	.082	.024	.152	.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	.303	.303	.303	.259	.259	.259	.177	.177	.177	.101	.101	.101	.032	.032	.032	
1.0	.299	.269	.242	.256	.231	.208	.175	.159	.144	.101	.092	.084	.032	.030	.027	
2.0	.292	.246	.207	.250	.212	.179	.171	.146	.125	.099	.085	.073	.032	.028	.024	
3.0	.284	.229	.185	.244	.198	.161	.167	.137	.113	.097	.080	.066	.031	.026	.022	
4.0	.276	.217	.171	.237	.187	.149	.163	.130	.105	.094	.076	.062	.030	.025	.020	
5.0	.268	.207	.161	.231	.179	.140	.159	.125	.099	.092	.073	.059	.030	.024	.019	
6.0	.261	.199	.154	.224	.172	.134	.155	.120	.095	.090	.071	.056	.029	.023	.019	
7.0	.254	.192	.149	.218	.166	.130	.151	.117	.092	.088	.069	.055	.028	.023	.018	
8.0	.247	.186	.145	.213	.162	.126	.147	.113	.089	.086	.067	.053	.028	.022	.018	
9.0	.241	.182	.142	.207	.158	.123	.144	.111	.088	.084	.065	.052	.027	.021	.017	
10.0	.235	.177	.139	.203	.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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm										
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K					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	23.9	25.3	24.3	25.7	26.2
3H	23.9	25.2	24.4	25.7	26.2	26.6	27.9	27.1	28.4	28.9
4H	24.6	25.8	25.1	26.3	26.9	28.1	29.3	28.6	29.8	30.4
6H	25.2	26.4	25.7	26.9	27.5	29.7	30.9	30.2	31.4	32.0
8H	25.5	26.6	26.0	27.1	27.7	30.6	31.7	31.2	32.3	32.9
12H	25.7	26.8	26.3	27.4	28.0	31.7	32.7	32.2	33.3	33.9
4H 2H	23.3	24.5	23.8	25.0	25.6	24.4	25.7	25.0	26.2	26.8
3H	25.1	26.2	25.6	26.7	27.3	27.4	28.5	27.9	29.0	29.6
4H	26.0	27.0	26.6	27.5	28.2	29.1	30.1	29.6	30.6	31.3
6H	26.8	27.7	27.4	28.3	29.0	30.9	31.8	31.5	32.4	33.1
8H	27.2	28.0	27.8	28.6	29.3	31.9	32.8	32.6	33.4	34.1
12H	27.5	28.3	28.2	29.0	29.7	33.1	33.9	33.8	34.5	35.2
8H 4H	26.9	27.7	27.5	28.4	29.1	29.4	30.2	30.0	30.8	31.5
6H	28.1	28.8	28.7	29.4	30.1	31.5	32.3	32.2	32.9	33.6
8H	28.6	29.3	29.3	29.9	30.7	32.8	33.4	33.5	34.1	34.9
12H	29.2	29.8	29.9	30.4	31.2	34.2	34.8	34.9	35.5	36.2
12H 4H	27.2	28.0	27.9	28.6	29.3	29.4	30.2	30.1	30.8	31.5
6H	28.6	29.2	29.2	29.9	30.6	31.7	32.3	32.3	33.0	33.7
8H	29.3	29.8	30.0	30.5	31.3	33.0	33.6	33.7	34.3	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, 1089 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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

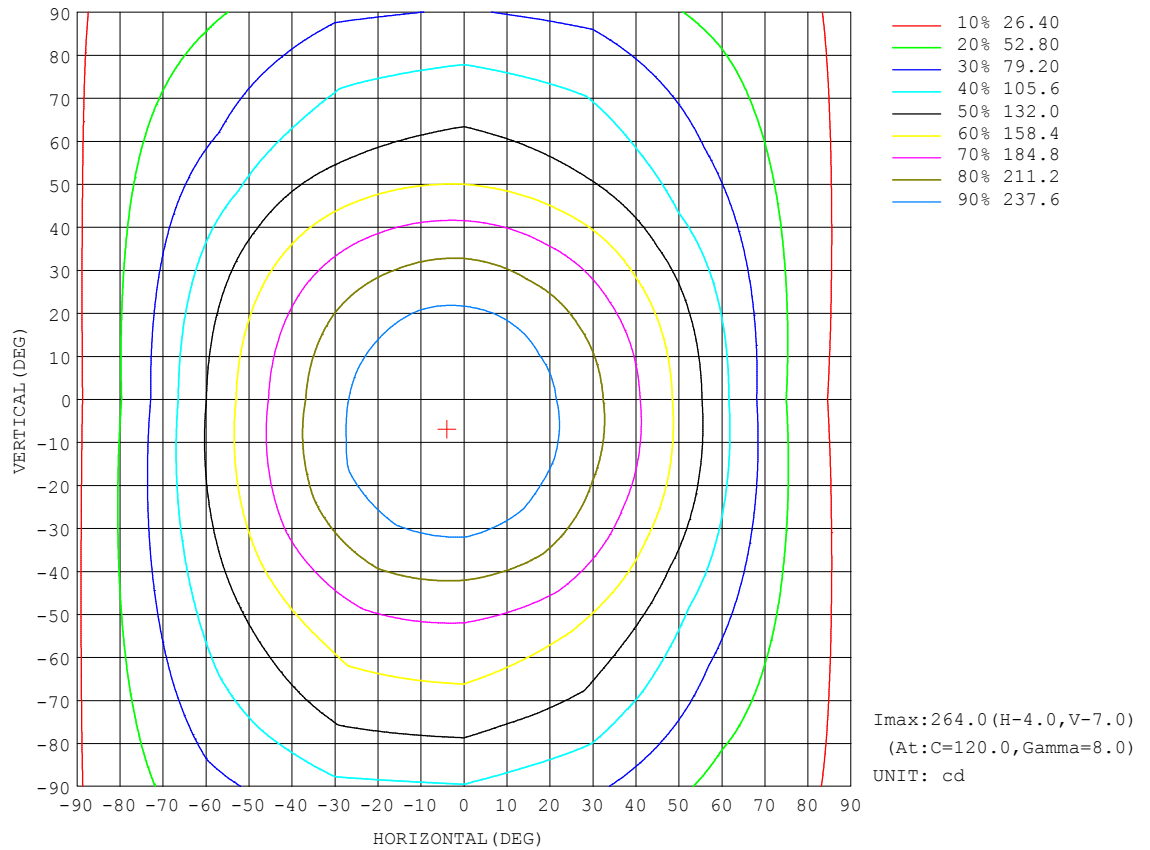
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	37	30	48	37	30	47	36	29	23
0.80	59	46	38	57	45	37	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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

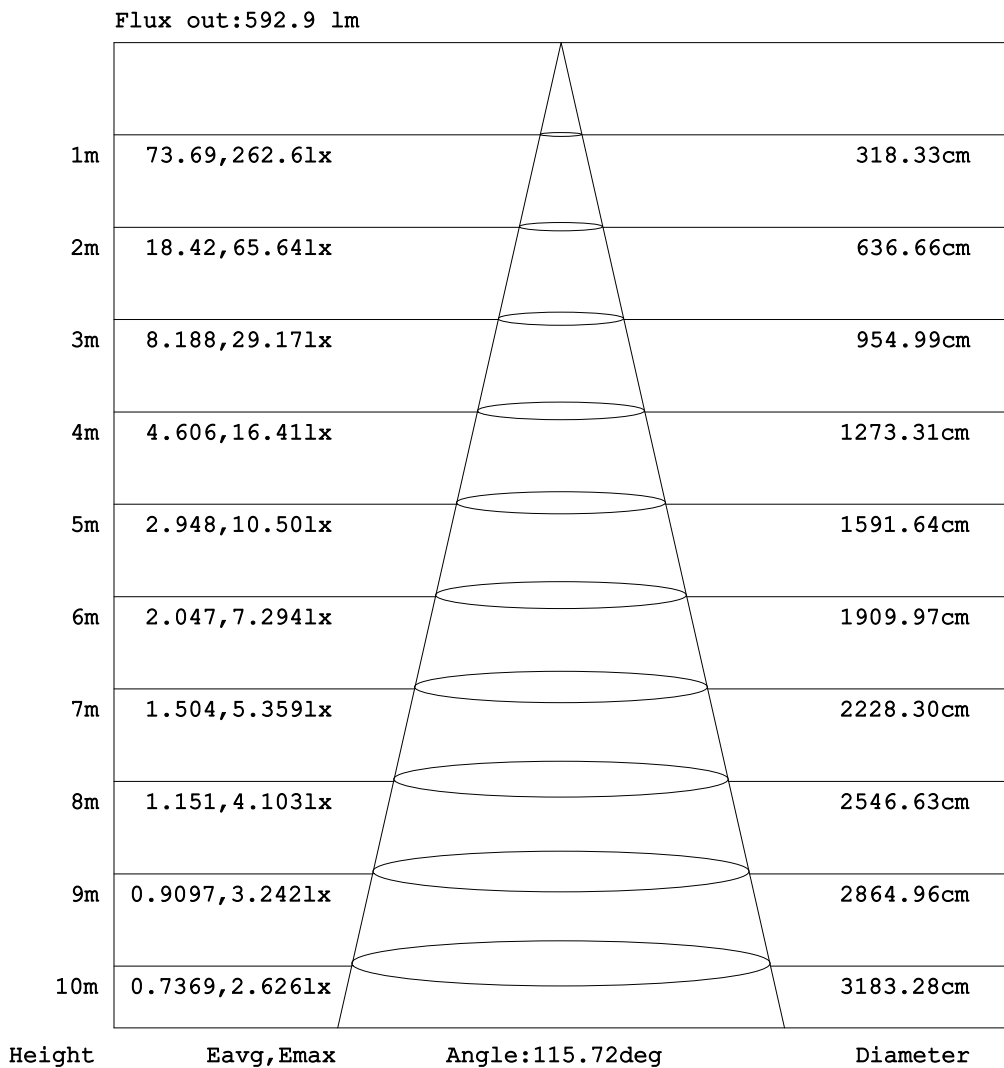


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-11

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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:4寸	Shielding Angle:

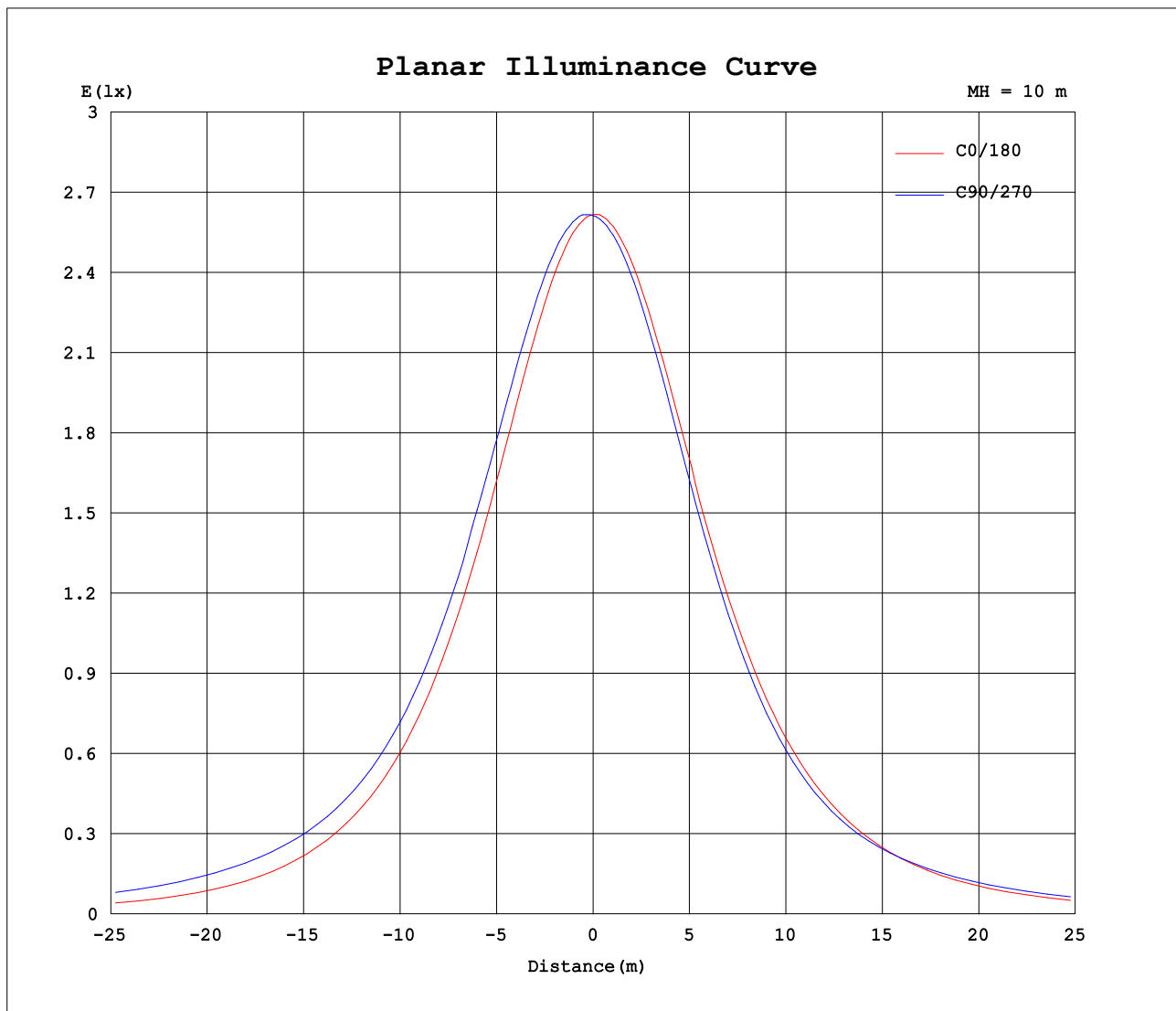


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.5V I:0.1140A P:13.30W PF:0.9720 Freq:60.00Hz Lamp Flux:1088.93x1 lm		
NAME: Naples-16-14W-95C-120D-NS 整灯 4000K	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	262	261	262	261	262	262	262	261	262	261	262	262							
5	259	261	262	263	264	263	262	260	260	259	259	259							
10	255	257	260	263	264	263	260	257	256	255	254	254							
15	249	253	257	261	262	260	256	252	251	249	247	247							
20	240	246	252	257	258	256	249	246	243	241	239	238							
25	230	237	245	250	252	249	241	236	232	230	227	227							
30	218	224	235	242	243	240	228	226	221	219	214	215							
35	204	211	224	229	233	227	216	213	208	205	201	201							
40	188	197	211	217	221	214	202	198	193	190	185	185							
45	171	181	196	203	207	200	186	182	177	174	169	168							
50	153	164	181	190	193	184	169	165	161	158	153	150							
55	133	146	166	178	179	168	151	147	145	145	138	131							
60	112	127	154	170	168	151	132	128	132	137	128	112							
65	91.8	109	143	161	159	135	112	110	123	129	119	97.0							
70	71.6	93.0	133	151	149	120	90.7	93.0	114	120	111	85.4							
75	52.6	79.6	121	140	138	108	70.6	79.6	105	111	102	74.9							
80	36.4	67.0	109	129	126	96.2	51.5	69.0	95.1	101	92.1	64.6							
85	25.7	54.9	96.9	117	113	83.9	35.1	58.6	85.2	91.6	82.3	54.5							
90	21.2	43.8	84.4	104	101	71.3	24.3	48.3	74.7	81.2	71.8	44.6							
95	19.5	34.0	70.9	91.3	87.5	58.8	20.6	38.2	62.5	70.4	58.2	34.7							
100	18.2	25.4	53.3	77.1	70.0	45.4	18.9	28.1	46.7	58.9	42.9	25.6							
105	17.1	21.1	39.0	62.4	50.2	32.3	16.7	20.4	35.9	47.5	33.4	19.1							
110	15.7	20.0	31.2	49.6	41.2	24.2	14.1	17.1	29.2	36.7	26.3	16.5							
115	13.3	18.9	26.1	38.0	33.5	22.0	12.0	15.6	22.9	26.8	20.3	15.2							
120	10.9	18.1	24.3	28.9	27.3	20.7	11.7	14.5	18.1	19.6	16.4	13.9							
125	10.3	17.5	23.4	25.4	25.4	19.4	11.5	13.5	16.4	15.8	15.2	12.8							
130	9.98	16.6	22.1	24.6	23.7	18.5	11.3	12.6	15.3	14.7	14.1	11.9							
135	9.64	15.6	20.8	22.5	22.3	17.4	11.1	11.5	14.3	13.7	13.0	11.1							
140	9.17	14.6	20.0	20.9	20.7	15.6	10.9	10.5	12.8	12.7	11.9	10.3							
145	8.70	13.4	18.5	20.0	19.4	13.6	10.7	9.79	11.6	11.5	10.8	9.62							
150	8.25	12.3	16.7	18.3	17.6	12.0	10.6	9.29	10.1	10.5	9.90	9.29							
155	7.90	11.2	14.7	16.2	14.7	10.6	10.3	8.87	8.86	9.45	9.21	9.21							
160	7.61	10.6	13.0	13.9	12.1	9.61	10.1	8.54	8.07	8.59	8.69	9.14							
165	7.37	10.1	11.2	12.1	10.0	9.02	9.74	8.26	7.75	8.20	8.29	9.05							
170	7.96	9.72	10.2	10.9	8.53	8.80	9.56	8.71	7.54	8.17	7.99	9.06							
175	8.89	9.69	9.40	9.70	8.22	9.01	9.68	9.03	8.28	7.57	8.32	9.28							
180	9.80	9.72	9.11	8.64	8.64	9.49	9.81	9.71	9.10	8.62	8.64	9.48							

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: