

Scaled data based on original data using  
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact  
Fluorescent Lamps

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: SHAPER

Report Number: 19450

Luminaire Tested: **416-CF1/26**

Issue Date: 3/3/2020

**Test Information**

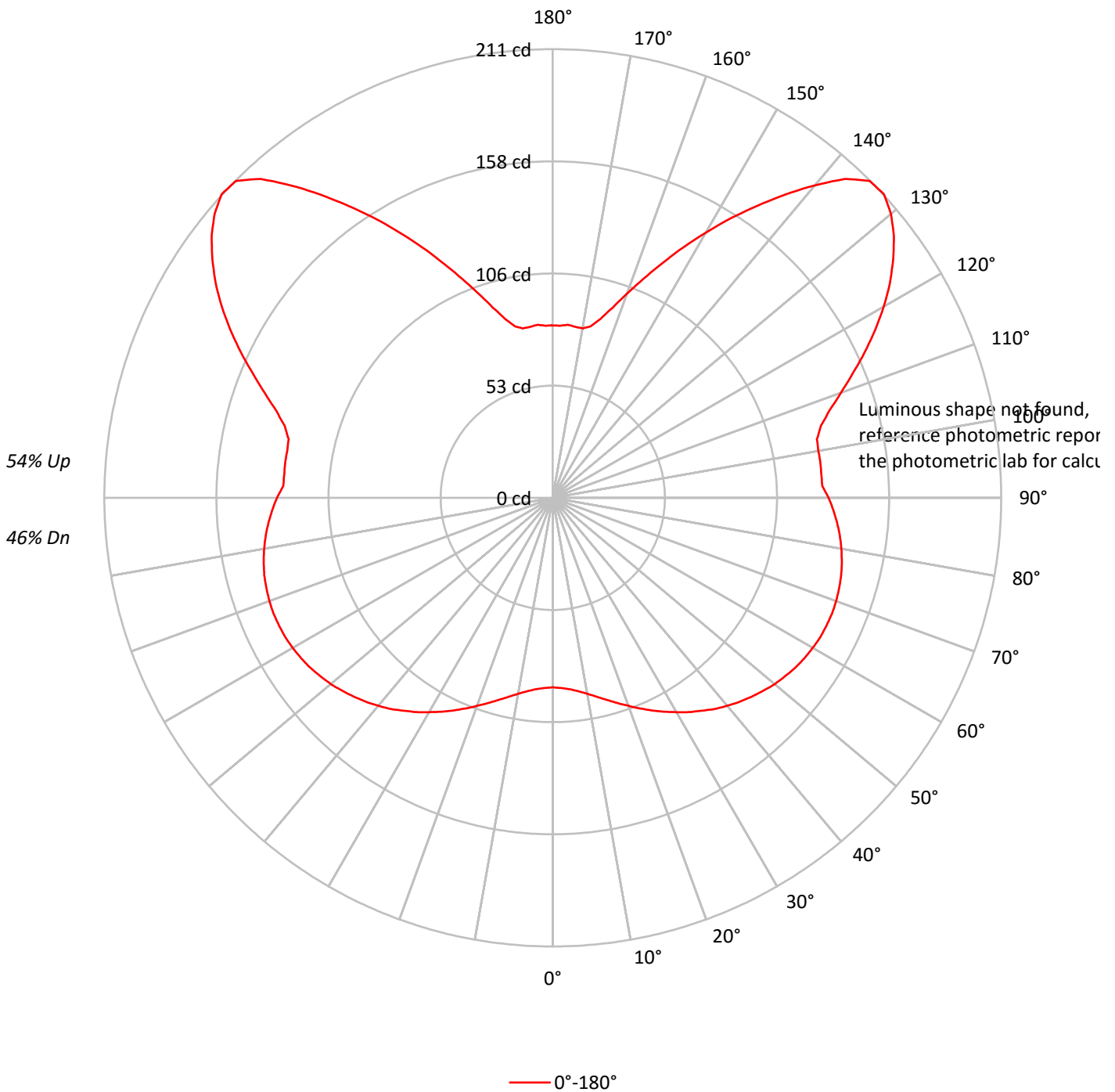
Test Method: LM-66-11  
Report Number: 19450  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 416-CF1/26  
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE PLASTIC CONE LENS  
  
Light Source: ONE SYLVANIA 26 WATT CPFL LAMP  
  
CF26DT/E/IN/841. LUMEN RATING = 1800 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 1798.1 lumens  
Efficiency: 99.9%  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 2.07 / 2.07 / 2.2  
Luminous Opening: (L: 0' x W: -0.08' x H: 0.75'  
CIE Type: General Diffuse  
  
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	93	87	81	76	84	79	74	70	65	61	58	52	49	47	40	38	36	30
2	83	73	66	59	75	67	60	54	55	49	45	43	39	36	33	30	27	22
3	74	63	54	47	67	57	50	43	47	41	36	37	32	29	28	24	21	17
4	68	55	46	39	61	50	42	36	41	34	29	32	27	23	24	20	17	13
5	62	48	39	32	56	44	36	30	36	29	25	28	23	19	21	17	14	11
6	56	43	34	27	51	39	31	25	32	26	21	25	20	16	19	15	12	9
7	52	38	30	24	47	35	27	22	29	22	18	23	18	14	17	13	11	8
8	48	35	26	20	43	32	24	19	26	20	16	21	16	12	16	12	9	7
9	45	31	23	18	40	29	21	16	24	18	14	19	14	11	14	11	8	6
10	42	29	21	16	38	26	19	15	22	16	12	17	13	10	13	10	7	5

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.7	0.5	0.5
10°-20°	28.1	1.6	1.6
20°-30°	51.2	2.8	2.8
30°-40°	76.9	4.3	4.3
40°-50°	102.5	5.7	5.7
50°-60°	124.8	6.9	6.9
60°-70°	140.9	7.8	7.8
70°-80°	148.4	8.3	8.2
80°-90°	146.3	8.1	8.1
90°-100°	138.9	7.7	7.7
100°-110°	140.1	7.8	7.8
110°-120°	160.5	8.9	8.9
120°-130°	174.6	9.7	9.7
130°-140°	159.9	8.9	8.9
140°-150°	106.0	5.9	5.9
150°-160°	57.1	3.2	3.2
160°-170°	25.5	1.4	1.4
170°-180°	7.8	0.4	0.4
0°-30°	88.0	4.9	4.9
0°-40°	165.0	9.2	9.2
0°-60°	392.2	21.8	21.8
0°-90°	827.8	46.0	46.0
90°-120°	439.4	24.4	24.4
90°-150°	879.9	48.9	48.9
90°-180°	970.0	53.9	53.9
0°-180°	1798.1	100.0	99.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	89	
5°	90	9
15°	98	28
25°	110	51
35°	122	77
45°	132	102
55°	139	125
65°	142	141
75°	140	148
85°	134	110
90°	130	71
95°	127	104
105°	131	140
115°	162	160
125°	196	175
135°	211	160
145°	168	106
155°	122	57
165°	87	25
175°	82	8
180°	81	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	89.1
2.5°	89.5
5°	90.3
7.5°	91.7
10°	93.6
12.5°	95.8
15°	98.4
17.5°	101.2
20°	104.1
22.5°	107.2
25°	110.3
27.5°	113.4
30°	116.4
32.5°	119.5
35°	122.2
37.5°	125.2
40°	127.7
42.5°	130.1
45°	132.3
47.5°	134.3
50°	136.3
52.5°	137.8
55°	139.3
57.5°	140.4
60°	141.2
62.5°	141.9
65°	142.1
67.5°	142.2
70°	141.9
72.5°	141.3
75°	140.5
77.5°	139.3
80°	137.9
82.5°	136.2
85°	134.3
87.5°	132.1
90°	129.8
92.5°	126.9
95°	126.8
97.5°	127.0
100°	126.9
102.5°	127.3
105°	130.6
107.5°	136.4
110°	144.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	152.7
115°	161.9
117.5°	171.0
120°	179.8
122.5°	188.1
125°	195.5
127.5°	202.3
130°	207.7
132.5°	211.3
135°	210.8
137.5°	203.4
140°	191.8
142.5°	179.8
145°	167.5
147.5°	155.9
150°	143.9
152.5°	132.7
155°	121.5
157.5°	111.4
160°	102.2
162.5°	93.8
165°	87.2
167.5°	82.6
170°	80.9
172.5°	81.1
175°	81.7
177.5°	81.0
180°	81.1

(END OF REPORT)