

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: 19376

Luminaire Tested: **233-14-SH-CF2/26**

Issue Date: 3/3/2020

**Test Information**

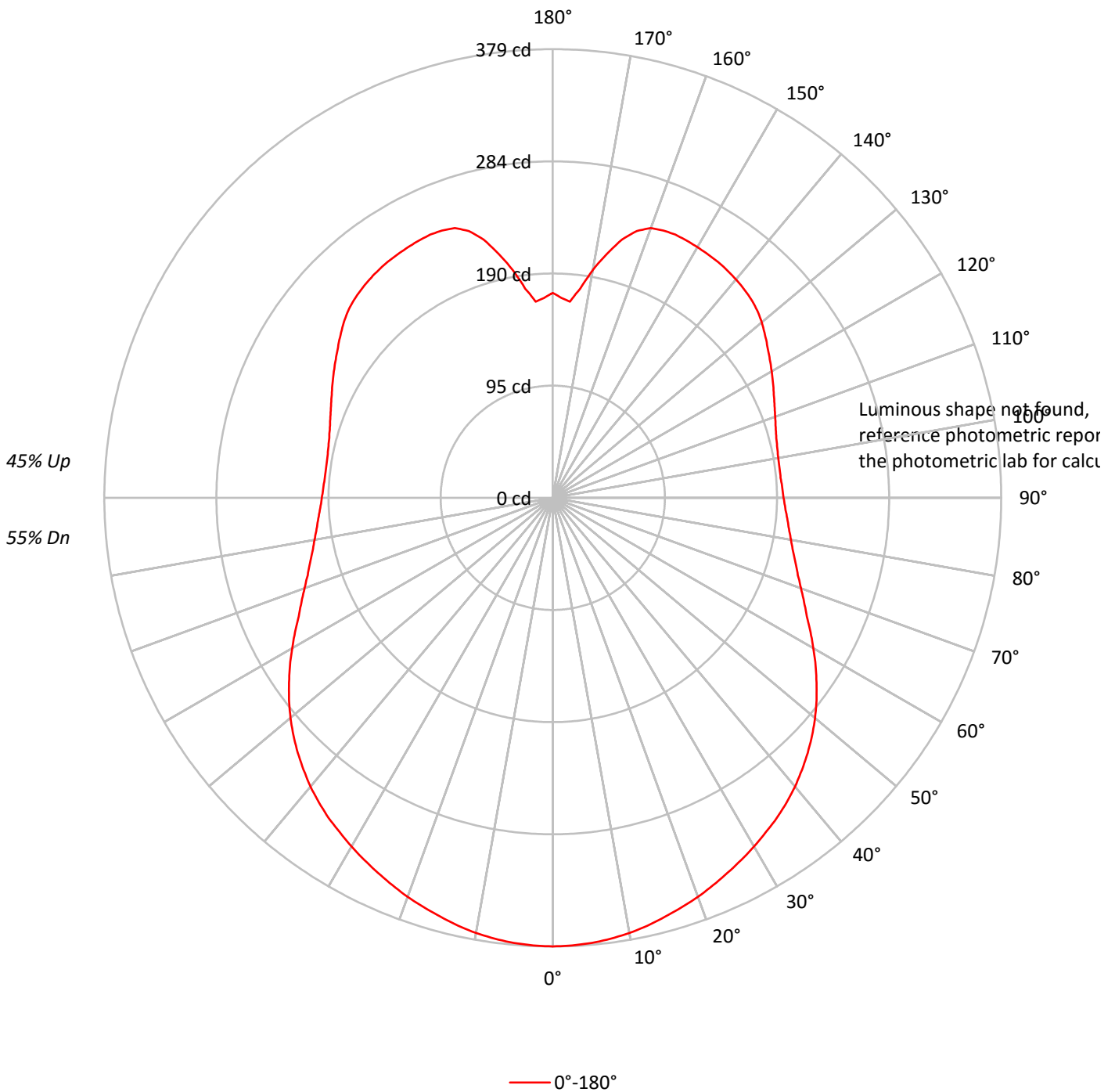
Test Method: LM-66-11  
Report Number: 19376  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 233-14-SH-CF2/26  
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS  
  
Light Source: TWO SYLVANIA 26 WATT CPFL LAMPS  
  
CF26DT/E/IN/841. LUMEN RATING = 3600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3600 (1 lamp)  
Luminaire Lumens: 3017.5 lumens  
Efficiency: 83.8%  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.52  
Luminous Opening: (L: 0' x W: -0.08' x H: 0.46'  
CIE Type: General Diffuse  
  
Input Watts (W): 55  
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	91	91	91	91	84	84	84	84	72	72	72		61	61	61		51	51	51	46
1	80	75	71	67	74	70	66	62	59	56	54		50	47	45		41	39	38	33
2	72	64	58	53	66	60	54	49	51	46	42		42	39	36		34	32	30	26
3	65	56	49	43	60	52	45	40	44	39	35		37	33	29		30	27	24	21
4	59	49	41	36	54	45	39	33	38	33	29		32	28	25		26	23	20	17
5	54	43	36	30	50	40	33	28	34	29	25		29	24	21		23	20	17	15
6	50	39	31	26	46	36	29	24	31	25	21		26	21	18		21	18	15	13
7	46	35	28	22	42	32	26	21	28	22	18		23	19	16		19	16	13	11
8	43	31	24	20	39	29	23	18	25	20	16		21	17	14		18	14	12	10
9	40	29	22	17	36	27	21	16	23	18	14		19	15	12		16	13	10	9
10	37	26	20	16	34	24	19	15	21	16	13		18	14	11		15	12	9	8

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.9	1.2	1.0
10°-20°	103.6	3.4	2.9
20°-30°	161.5	5.4	4.5
30°-40°	206.9	6.9	5.7
40°-50°	235.4	7.8	6.5
50°-60°	243.8	8.1	6.8
60°-70°	235.8	7.8	6.5
70°-80°	225.1	7.5	6.3
80°-90°	217.3	7.2	6.0
90°-100°	211.4	7.0	5.9
100°-110°	207.4	6.9	5.8
110°-120°	204.8	6.8	5.7
120°-130°	198.9	6.6	5.5
130°-140°	183.1	6.1	5.1
140°-150°	152.6	5.1	4.2
150°-160°	113.2	3.8	3.1
160°-170°	63.9	2.1	1.8
170°-180°	17.0	0.6	0.5
0°-30°	301.1	10.0	8.4
0°-40°	507.9	16.8	14.1
0°-60°	987.1	32.7	27.4
0°-90°	1665.2	55.2	46.3
90°-120°	623.5	20.7	17.3
90°-150°	1158.1	38.4	32.2
90°-180°	1352.0	44.8	37.6
0°-180°	3017.5	100.0	83.8

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	379	
5°	378	36
15°	366	104
25°	350	162
35°	330	207
45°	305	235
55°	272	244
65°	237	236
75°	212	225
85°	199	164
90°	195	107
95°	193	158
105°	196	207
115°	206	205
125°	222	199
135°	237	183
145°	243	153
155°	245	113
165°	226	64
175°	166	17
180°	173	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	379.0
2.5°	378.5
5°	377.5
7.5°	375.7
10°	373.3
12.5°	370.3
15°	366.4
17.5°	362.6
20°	358.7
22.5°	354.2
25°	349.5
27.5°	344.9
30°	340.2
32.5°	335.0
35°	330.2
37.5°	324.5
40°	318.5
42.5°	311.7
45°	304.7
47.5°	297.2
50°	289.3
52.5°	280.9
55°	272.1
57.5°	263.4
60°	254.3
62.5°	245.5
65°	236.9
67.5°	229.8
70°	223.2
72.5°	217.2
75°	212.3
77.5°	207.9
80°	204.4
82.5°	201.3
85°	198.9
87.5°	196.6
90°	195.1
92.5°	194.1
95°	193.3
97.5°	193.2
100°	193.4
102.5°	194.3
105°	195.6
107.5°	197.5
110°	200.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	202.8
115°	206.1
117.5°	209.9
120°	213.6
122.5°	217.5
125°	221.6
127.5°	226.1
130°	230.6
132.5°	234.4
135°	237.1
137.5°	239.2
140°	240.9
142.5°	242.2
145°	243.3
147.5°	243.9
150°	244.5
152.5°	245.0
155°	245.3
157.5°	244.4
160°	242.5
162.5°	236.4
165°	225.9
167.5°	210.9
170°	195.5
172.5°	178.3
175°	166.3
177.5°	169.1
180°	173.1

(END OF REPORT)