

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: 20064

Luminaire Tested: **682-WP-CF2/26**

Issue Date: 3/3/2020

**Test Information**

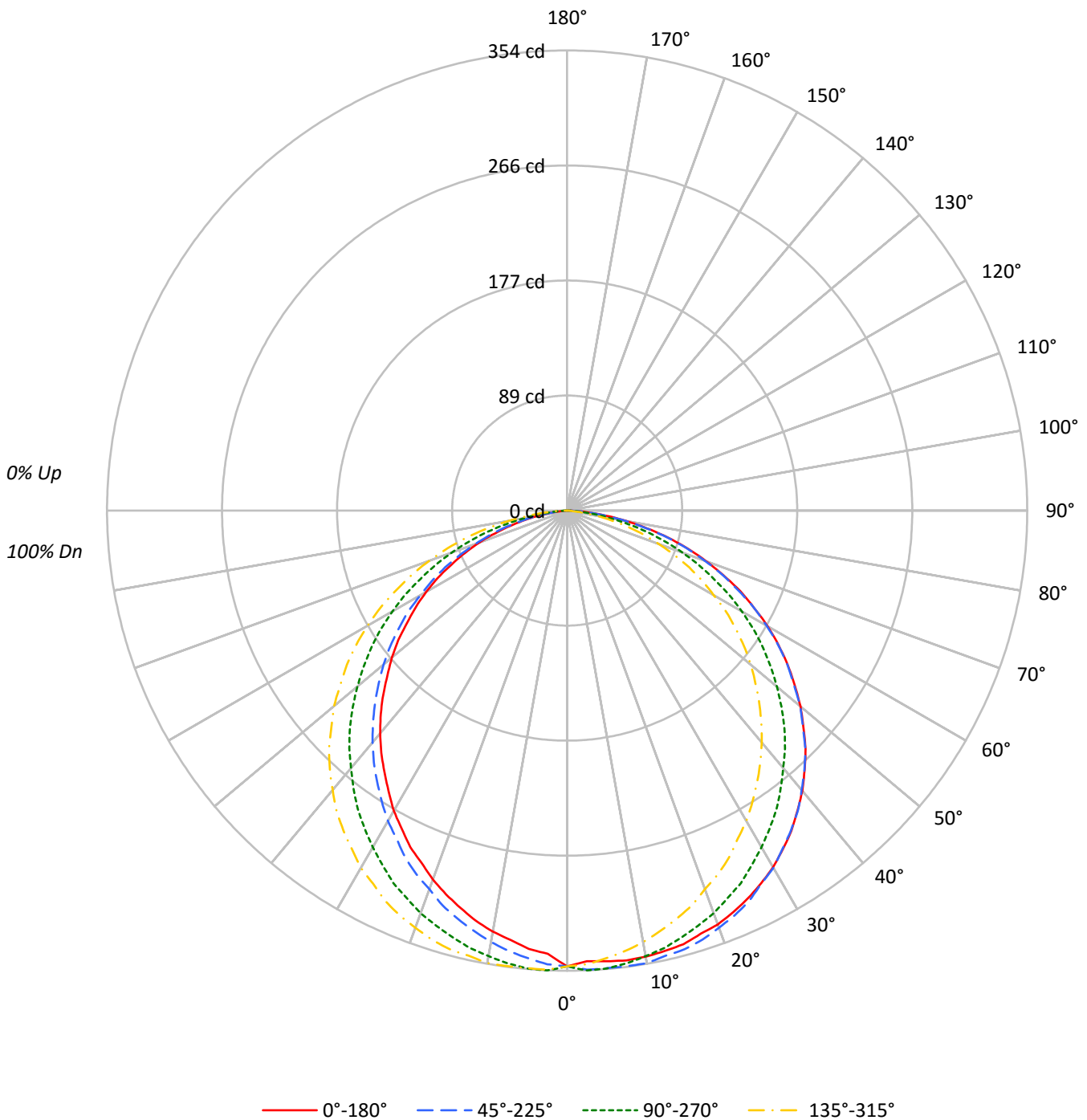
Test Method: LM-66-11  
Report Number: 20064  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 682-WP-CF2/26  
Description: EXTERIOR WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND FLAT WHITE  
PLASTIC LENS  
Light Source: TWO SYLVANIA 26 WATT CPFL LAMP  
  
CF26DT/E/IN/830. LUMEN RATING = 3600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3600 (1 lamp)  
Luminaire Lumens: 991.6 lumens  
Efficiency: 27.5%  
Efficacy: 18.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 0.5' x L: 0.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 53  
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	33	33	33	33	32	32	32	32	31	31	31	29	29	29	28	28	28	28	28	28	28	28	28	28														
1	30	29	28	26	29	28	27	26	27	26	25	26	25	24	25	24	24	25	24	24	25	24	24	23														
2	27	25	23	22	27	24	23	21	24	22	21	23	21	20	22	21	20	22	21	20	22	21	20	19														
3	25	22	20	18	24	22	19	18	21	19	17	20	18	17	19	18	17	19	18	17	19	18	17	16														
4	23	19	17	15	22	19	17	15	18	16	15	18	16	15	17	16	14	17	16	14	17	16	14	14														
5	21	17	15	13	20	17	15	13	16	14	13	16	14	13	15	14	13	15	14	13	15	14	13	12														
6	19	16	13	11	19	15	13	11	15	13	11	14	13	11	14	12	11	14	12	11	14	12	11	10														
7	18	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10	13	11	10	13	11	10	9														
8	17	13	11	9	16	13	10	9	12	10	9	12	10	9	12	10	9	12	10	9	12	10	9	8														
9	16	12	10	8	15	12	10	8	11	9	8	11	9	8	11	9	8	11	9	8	11	9	8	7														
10	15	11	9	7	14	11	9	7	11	9	7	10	8	7	10	8	7	10	8	7	10	8	7	7														

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

	0°	90°	180°	270°
0°	13013	13013	13013	13013
5°	12966	13171	12608	13171
10°	13135	13116	12396	13116
15°	13272	13061	12166	13061
20°	13382	13015	11929	13015
25°	13482	12950	11696	12950
30°	13578	12815	11430	12815
35°	13630	12719	11106	12719
40°	13639	12530	10839	12530
45°	13616	12404	10504	12404
50°	13529	12161	10163	12161
55°	13408	11900	9713	11900
60°	13228	11514	9287	11514
65°	12919	10952	8607	10952
70°	12339	10245	7814	10245
75°	11530	9135	6453	9135
80°	9918	7203	4660	7203
85°	7282	3918	1874	3918



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.2	3.3	0.9
10°-20°	94.9	9.6	2.6
20°-30°	143.8	14.5	4.0
30°-40°	173.4	17.5	4.8
40°-50°	179.9	18.1	5.0
50°-60°	162.5	16.4	4.5
60°-70°	122.8	12.4	3.4
70°-80°	67.1	6.8	1.9
80°-90°	14.0	1.4	0.4
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	271.9	27.4	7.6
0°-40°	445.4	44.9	12.4
0°-60°	787.8	79.4	21.9
0°-90°	991.6	100.0	27.5
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	991.6	100.0	27.5

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	351	351	351	351	351	
5°	348	354	338	354	348	33
15°	345	340	317	340	345	97
25°	329	316	286	316	329	152
35°	301	281	245	281	301	188
45°	259	236	200	236	259	200
55°	207	184	150	184	207	185
65°	147	125	98	125	147	145
75°	80	64	45	64	80	84
85°	17	9	4	9	17	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	350.6	350.6	350.6	350.6	350.6	350.6	350.6	350.6	350.6	350.6	350.6
2.5°	347.0	349.0	353.5	354.7	354.1	352.7	349.3	345.1	341.3	345.1	349.3
5°	348.0	350.2	353.3	355.8	353.5	349.6	345.7	340.3	338.4	340.3	345.7
7.5°	349.0	350.4	353.5	355.4	351.3	346.1	341.8	336.1	333.2	336.1	341.8
10°	348.5	351.1	353.4	353.9	348.0	341.7	337.0	331.0	328.9	331.0	337.0
12.5°	347.0	349.7	350.7	351.8	344.7	336.8	331.2	326.1	323.4	326.1	331.2
15°	345.4	347.5	349.4	348.6	339.9	331.0	325.2	318.7	316.6	318.7	325.2
17.5°	341.4	343.4	346.1	344.2	334.9	324.7	318.6	311.9	309.6	311.9	318.6
20°	338.8	340.7	341.5	340.3	329.5	317.6	309.9	304.9	302.0	304.9	309.9
22.5°	334.2	336.2	336.9	334.8	322.6	309.7	303.0	295.9	293.0	295.9	303.0
25°	329.2	330.5	331.3	328.7	316.2	301.0	294.6	288.5	285.6	288.5	294.6
27.5°	323.2	324.6	323.5	322.1	307.4	292.5	284.4	278.8	275.7	278.8	284.4
30°	316.8	318.1	317.4	314.5	299.0	283.4	275.7	269.5	266.7	269.5	275.7
32.5°	308.9	309.9	308.5	306.2	289.9	272.8	265.4	258.9	255.7	258.9	265.4
35°	300.8	301.8	300.2	297.6	280.7	262.1	254.8	248.5	245.1	248.5	254.8
37.5°	291.0	292.0	291.5	287.3	269.8	251.8	244.2	237.6	234.9	237.6	244.2
40°	281.5	282.4	280.6	277.4	258.6	240.1	232.9	226.6	223.7	226.6	232.9
42.5°	270.4	270.5	270.3	265.2	248.1	229.1	221.0	213.7	212.2	213.7	221.0
45°	259.4	259.9	259.1	254.2	236.3	217.1	209.0	202.1	200.1	202.1	209.0
47.5°	246.5	248.5	245.9	242.9	223.6	204.7	196.5	190.2	187.4	190.2	196.5
50°	234.3	235.1	234.1	228.9	210.6	190.6	184.3	178.6	176.0	178.6	184.3
52.5°	220.6	222.3	219.8	216.6	197.4	178.1	171.6	165.8	163.8	165.8	171.6
55°	207.2	207.4	206.8	201.9	183.9	164.8	158.1	153.0	150.1	153.0	158.1
57.5°	193.0	193.8	192.6	187.4	170.0	151.4	145.2	140.5	138.0	140.5	145.2
60°	178.2	177.7	177.2	173.4	155.1	136.8	130.3	126.7	125.1	126.7	130.3
62.5°	162.1	162.7	162.1	158.4	140.6	122.5	117.3	113.0	112.1	113.0	117.3
65°	147.1	147.5	145.1	141.8	124.7	108.7	103.6	100.0	98.0	100.0	103.6
67.5°	130.1	130.5	129.5	126.5	109.7	94.4	89.0	86.6	85.1	86.6	89.0
70°	113.7	113.7	112.7	110.6	94.4	79.9	75.0	73.1	72.0	73.1	75.0
72.5°	97.3	97.6	96.3	92.7	78.8	64.8	61.8	59.5	58.2	59.5	61.8
75°	80.4	80.5	79.6	76.5	63.7	50.8	48.4	46.5	45.0	46.5	48.4
77.5°	62.6	62.9	61.9	60.2	48.0	36.7	34.7	32.7	32.9	32.7	34.7
80°	46.4	46.5	45.4	44.3	33.7	24.2	23.1	21.6	21.8	21.6	23.1
82.5°	30.1	30.1	29.0	28.9	20.3	13.5	11.7	11.9	11.3	11.9	11.7
85°	17.1	17.1	16.1	15.6	9.2	5.3	4.1	4.6	4.4	4.6	4.1
87.5°	5.8	6.0	6.5	4.5	3.4	0.6	1.0	0.5	0.0	0.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	350.6	350.6	350.6	350.6	350.6	350.6
2.5°	352.7	354.1	354.7	353.5	349.0	347.0
5°	349.6	353.5	355.8	353.3	350.2	348.0
7.5°	346.1	351.3	355.4	353.5	350.4	349.0
10°	341.7	348.0	353.9	353.4	351.1	348.5
12.5°	336.8	344.7	351.8	350.7	349.7	347.0
15°	331.0	339.9	348.6	349.4	347.5	345.4
17.5°	324.7	334.9	344.2	346.1	343.4	341.4
20°	317.6	329.5	340.3	341.5	340.7	338.8
22.5°	309.7	322.6	334.8	336.9	336.2	334.2
25°	301.0	316.2	328.7	331.3	330.5	329.2
27.5°	292.5	307.4	322.1	323.5	324.6	323.2
30°	283.4	299.0	314.5	317.4	318.1	316.8
32.5°	272.8	289.9	306.2	308.5	309.9	308.9
35°	262.1	280.7	297.6	300.2	301.8	300.8
37.5°	251.8	269.8	287.3	291.5	292.0	291.0
40°	240.1	258.6	277.4	280.6	282.4	281.5
42.5°	229.1	248.1	265.2	270.3	270.5	270.4
45°	217.1	236.3	254.2	259.1	259.9	259.4
47.5°	204.7	223.6	242.9	245.9	248.5	246.5
50°	190.6	210.6	228.9	234.1	235.1	234.3
52.5°	178.1	197.4	216.6	219.8	222.3	220.6
55°	164.8	183.9	201.9	206.8	207.4	207.2
57.5°	151.4	170.0	187.4	192.6	193.8	193.0
60°	136.8	155.1	173.4	177.2	177.7	178.2
62.5°	122.5	140.6	158.4	162.1	162.7	162.1
65°	108.7	124.7	141.8	145.1	147.5	147.1
67.5°	94.4	109.7	126.5	129.5	130.5	130.1
70°	79.9	94.4	110.6	112.7	113.7	113.7
72.5°	64.8	78.8	92.7	96.3	97.6	97.3
75°	50.8	63.7	76.5	79.6	80.5	80.4
77.5°	36.7	48.0	60.2	61.9	62.9	62.6
80°	24.2	33.7	44.3	45.4	46.5	46.4
82.5°	13.5	20.3	28.9	29.0	30.1	30.1
85°	5.3	9.2	15.6	16.1	17.1	17.1
87.5°	0.6	3.4	4.5	6.5	6.0	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)