

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: 19382

Luminaire Tested: **233-12-SP-CF1/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19382
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 233-12-SP-CF1/26
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE GLASS LENS

Light Source: ONE SYLVANIA 26 WATT CPFL LAMP

CF26DT/E/IN/841. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

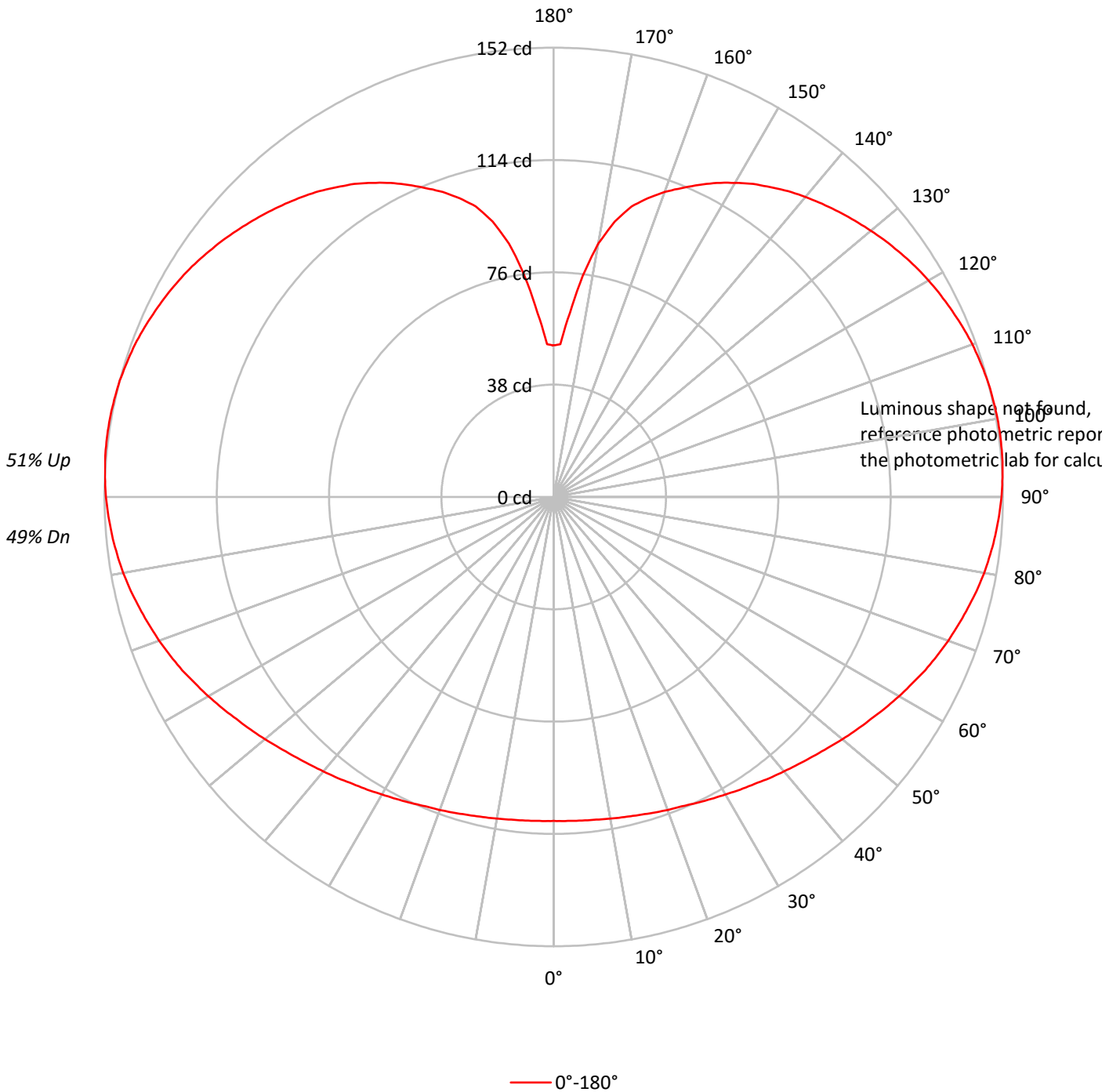
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 1717.2 lumens
Efficiency: 95.4%
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.67 / 1.67 / 1.91
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.5 '
CIE Type: General Diffuse

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): 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	102	102	102	102	94	94	94	94	79	79	79		65	65	65		53	53	53	47
1	89	83	77	72	81	76	71	66	62	59	55		50	48	45		39	37	35	30
2	79	70	62	56	72	64	57	51	52	47	43		42	38	35		32	29	27	22
3	71	60	51	45	64	55	47	41	45	39	34		36	31	27		27	24	21	17
4	64	52	43	37	58	48	40	34	39	33	28		31	26	22		24	20	17	13
5	59	46	37	31	53	42	34	28	35	28	23		28	23	19		21	17	14	11
6	54	41	32	26	49	37	30	24	31	25	20		25	20	16		19	15	12	9
7	50	37	28	22	45	34	26	21	28	22	17		22	17	14		17	13	10	8
8	46	33	25	19	42	30	23	18	25	19	15		20	15	12		16	12	9	7
9	43	30	22	17	39	28	21	16	23	17	13		18	14	11		14	11	8	6
10	40	27	20	15	36	25	18	14	21	15	12		17	13	9		13	10	7	5

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	10.5	0.6	0.6
10°-20°	31.6	1.8	1.8
20°-30°	52.9	3.1	2.9
30°-40°	74.6	4.3	4.1
40°-50°	96.2	5.6	5.3
50°-60°	117.7	6.9	6.5
60°-70°	137.6	8.0	7.6
70°-80°	153.5	8.9	8.5
80°-90°	163.5	9.5	9.1
90°-100°	166.1	9.7	9.2
100°-110°	160.6	9.4	8.9
110°-120°	147.7	8.6	8.2
120°-130°	128.8	7.5	7.2
130°-140°	105.7	6.2	5.9
140°-150°	80.4	4.7	4.5
150°-160°	54.1	3.1	3.0
160°-170°	28.8	1.7	1.6
170°-180°	6.8	0.4	0.4
0°-30°	95.1	5.5	5.3
0°-40°	169.7	9.9	9.4
0°-60°	383.6	22.3	21.3
0°-90°	838.2	48.8	46.6
90°-120°	474.4	27.6	26.4
90°-150°	789.3	46.0	43.9
90°-180°	879.0	51.2	48.8
0°-180°	1717.2	100.0	95.4

CANDELA DISTRIBUTION:

	0°	Flux
0°	110	
5°	110	11
15°	111	32
25°	114	53
35°	118	75
45°	124	96
55°	131	118
65°	139	138
75°	145	153
85°	150	122
90°	152	83
95°	152	124
105°	152	161
115°	149	148
125°	144	129
135°	136	106
145°	128	80
155°	116	54
165°	102	29
175°	62	7
180°	51	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	109.6
2.5°	109.7
5°	109.9
7.5°	110.1
10°	110.5
12.5°	110.9
15°	111.4
17.5°	112.0
20°	112.7
22.5°	113.3
25°	114.2
27.5°	115.2
30°	116.2
32.5°	117.4
35°	118.5
37.5°	119.9
40°	121.2
42.5°	122.6
45°	124.1
47.5°	125.7
50°	127.5
52.5°	129.3
55°	131.0
57.5°	133.0
60°	134.9
62.5°	136.7
65°	138.7
67.5°	140.4
70°	142.1
72.5°	143.6
75°	145.1
77.5°	146.6
80°	147.9
82.5°	149.0
85°	150.0
87.5°	150.8
90°	151.5
92.5°	152.0
95°	152.4
97.5°	152.5
100°	152.5
102.5°	152.3
105°	152.0
107.5°	151.4
110°	150.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	149.9
115°	148.8
117.5°	147.7
120°	146.5
122.5°	145.1
125°	143.5
127.5°	141.9
130°	140.1
132.5°	138.3
135°	136.4
137.5°	134.5
140°	132.5
142.5°	130.4
145°	127.9
147.5°	125.6
150°	122.7
152.5°	119.8
155°	116.5
157.5°	113.1
160°	109.8
162.5°	106.0
165°	101.7
167.5°	95.4
170°	87.0
172.5°	75.4
175°	62.4
177.5°	51.7
180°	51.3

(END OF REPORT)