

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: 19367

Luminaire Tested: **210-14-CF2/13**

Issue Date: 3/3/2020

**Test Information**

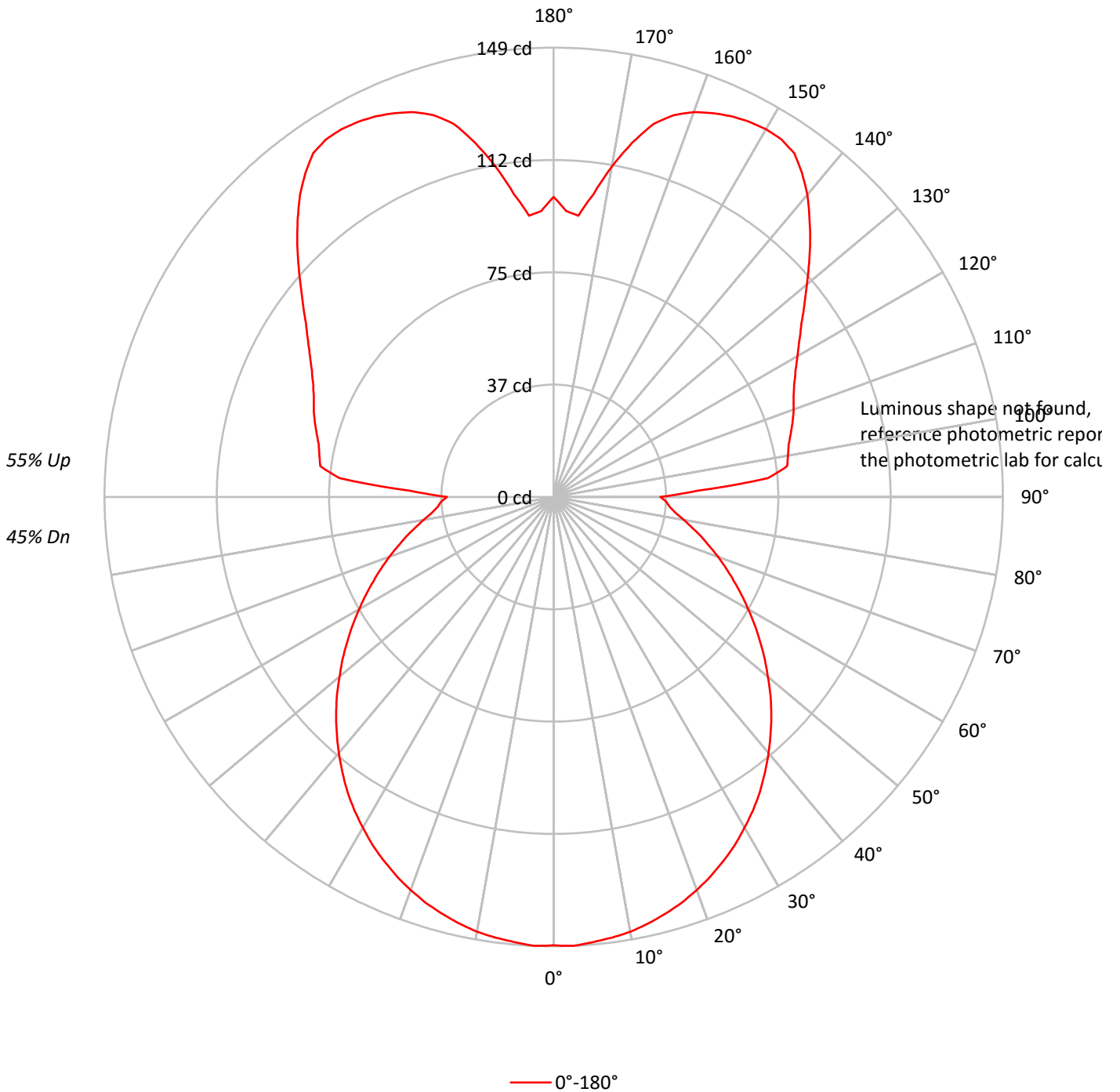
Test Method: LM-66-11  
Report Number: 19367  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 210-14-CF2/13  
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE  
PLASTIC LENS  
Light Source: TWO SYLVANIA 13 WATT CPFL LAMPS  
  
CF13DS/E/830. LUMEN RATING = 1600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1600 (1 lamp)  
Luminaire Lumens: 1128.7 lumens  
Efficiency: 70.5%  
Efficacy: 45.1 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39  
Luminous Opening: (L: 0' x W: -0.08' x H: 0.38'  
CIE Type: General Diffuse  
  
Input Watts (W): 25  
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

TEST NUMBER: 19367  
CATALOG NUMBER: 210-14-CF2/13

### 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	75	75	75	75	68	68	68	68	57	57	57	46	46	46	36	36	36	32
1	67	64	60	58	61	58	55	53	48	46	44	39	37	36	30	29	28	24
2	61	55	50	46	55	50	46	43	42	39	36	34	31	29	26	25	23	20
3	55	48	42	38	50	44	39	35	36	33	30	29	27	24	23	21	19	16
4	50	42	36	32	46	39	34	30	32	28	25	26	23	21	20	18	16	14
5	46	37	32	27	42	34	29	25	29	25	21	23	20	18	18	16	14	12
6	42	34	28	23	38	31	26	22	26	22	19	21	18	15	16	14	12	10
7	39	30	24	20	36	28	23	19	23	19	16	19	16	14	15	13	11	9
8	36	27	22	18	33	25	20	17	21	17	14	17	14	12	14	11	10	8
9	34	25	20	16	31	23	18	15	19	15	13	16	13	11	13	10	9	7
10	31	23	18	14	29	21	16	13	18	14	11	15	12	10	12	9	8	6

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	14.1	1.2	0.9
10°-20°	40.4	3.6	2.5
20°-30°	61.4	5.4	3.8
30°-40°	74.6	6.6	4.7
40°-50°	78.8	7.0	4.9
50°-60°	74.8	6.6	4.7
60°-70°	65.5	5.8	4.1
70°-80°	53.5	4.7	3.3
80°-90°	42.7	3.8	2.7
90°-100°	69.3	6.1	4.3
100°-110°	86.2	7.6	5.4
110°-120°	87.7	7.8	5.5
120°-130°	90.3	8.0	5.6
130°-140°	92.9	8.2	5.8
140°-150°	86.4	7.7	5.4
150°-160°	64.4	5.7	4.0
160°-170°	36.1	3.2	2.3
170°-180°	9.6	0.9	0.6
0°-30°	115.9	10.3	7.2
0°-40°	190.5	16.9	11.9
0°-60°	344.1	30.5	21.5
0°-90°	505.8	44.8	31.6
90°-120°	243.2	21.5	15.2
90°-150°	512.8	45.4	32.0
90°-180°	623.0	55.2	38.9
0°-180°	1128.7	100.0	70.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	149	
5°	148	14
15°	143	40
25°	133	61
35°	119	75
45°	102	79
55°	84	75
65°	66	65
75°	51	54
85°	39	33
90°	35	21
95°	71	58
105°	81	86
115°	88	88
125°	100	90
135°	120	93
145°	139	86
155°	139	64
165°	128	36
175°	94	10
180°	100	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	148.7
2.5°	149.0
5°	148.2
7.5°	147.4
10°	146.4
12.5°	144.9
15°	143.1
17.5°	141.1
20°	138.7
22.5°	136.1
25°	133.2
27.5°	130.1
30°	126.6
32.5°	123.1
35°	119.3
37.5°	115.1
40°	110.9
42.5°	106.5
45°	102.1
47.5°	97.5
50°	92.7
52.5°	88.2
55°	83.5
57.5°	79.1
60°	74.5
62.5°	70.2
65°	65.9
67.5°	61.9
70°	58.0
72.5°	54.1
75°	50.6
77.5°	47.0
80°	43.8
82.5°	40.8
85°	38.7
87.5°	37.4
90°	35.4
92.5°	47.8
95°	71.3
97.5°	78.1
100°	78.9
102.5°	79.8
105°	81.4
107.5°	83.1
110°	84.7

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	86.1
115°	88.0
117.5°	90.4
120°	93.3
122.5°	96.6
125°	100.3
127.5°	104.8
130°	109.6
132.5°	114.9
135°	120.3
137.5°	125.6
140°	130.9
142.5°	135.3
145°	139.1
147.5°	140.6
150°	140.8
152.5°	140.3
155°	139.3
157.5°	137.8
160°	135.8
162.5°	132.8
165°	128.1
167.5°	120.3
170°	111.3
172.5°	101.4
175°	93.6
177.5°	94.9
180°	99.5

(END OF REPORT)