

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: 17161A

Luminaire Tested: **494-RP-22**

Issue Date: 3/3/2020

**Test Information**

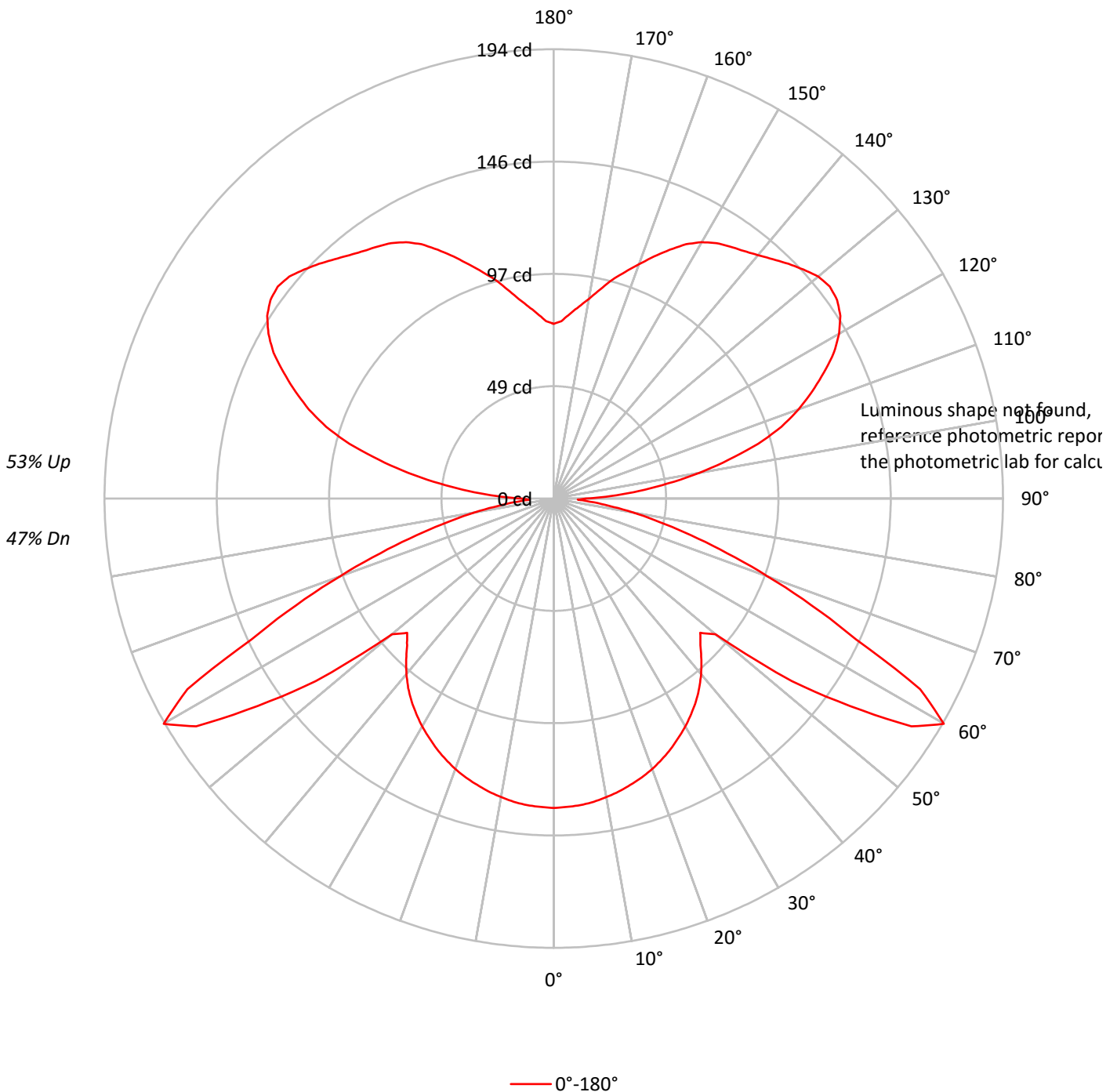
Test Method: LM-66-11  
Report Number: 17161A  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 494-RP-22  
Description: RECESSED LUMINAIRE W/SUSPENDED BOWL - PORTFOLIO  
WITH SEMI-SPECULAR REFLECTOR AND WHITE PLASTIC LENS  
  
Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 3600 (1 lamp)  
Luminaire Lumens: 1292.8 lumens  
Efficiency: 35.9%  
Efficacy: -  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: (L: 0 ' x W: -1.5 ' x H: 0.08 '  
CIE Type: General Diffuse  
  
Input Watts (W): 0  
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



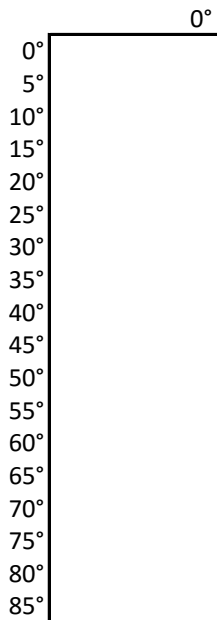


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	38	38	38	38	35	35	35	35	29	29	29	24	24	24	19	19	19	17
1	34	33	31	30	32	30	29	27	25	24	23	20	20	19	16	16	15	13
2	31	28	25	23	28	26	23	22	21	20	18	17	16	15	14	13	12	10
3	28	24	21	19	25	22	20	17	18	16	15	15	13	12	12	11	10	8
4	25	21	18	15	23	19	16	14	16	14	12	13	11	10	10	9	8	7
5	23	18	15	13	21	17	14	12	14	12	10	11	10	8	9	8	7	5
6	21	16	13	11	19	15	12	10	12	10	9	10	8	7	8	7	6	5
7	19	15	12	9	18	13	11	9	11	9	7	9	7	6	7	6	5	4
8	18	13	10	8	16	12	10	8	10	8	7	8	7	5	6	5	4	3
9	17	12	9	7	15	11	8	7	9	7	6	8	6	5	6	5	4	3
10	15	11	8	6	14	10	8	6	8	6	5	7	5	4	5	4	3	3

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.6	1.0	0.4
10°-20°	36.2	2.8	1.0
20°-30°	55.0	4.3	1.5
30°-40°	66.9	5.2	1.9
40°-50°	70.5	5.5	2.0
50°-60°	138.1	10.7	3.8
60°-70°	145.6	11.3	4.0
70°-80°	66.6	5.2	1.8
80°-90°	20.3	1.6	0.6
90°-100°	40.8	3.2	1.1
100°-110°	95.0	7.3	2.6
110°-120°	127.2	9.8	3.5
120°-130°	132.7	10.3	3.7
130°-140°	111.0	8.6	3.1
140°-150°	83.5	6.5	2.3
150°-160°	55.0	4.3	1.5
160°-170°	28.0	2.2	0.8
170°-180°	7.9	0.6	0.2
0°-30°	103.8	8.0	2.9
0°-40°	170.7	13.2	4.7
0°-60°	379.2	29.3	10.5
0°-90°	611.7	47.3	17.0
90°-120°	263.0	20.3	7.3
90°-150°	590.2	45.7	16.4
90°-180°	681.0	52.7	18.9
0°-180°	1292.8	100.0	35.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	134	
5°	133	13
15°	128	36
25°	119	55
35°	107	67
45°	90	70
55°	156	138
65°	144	146
75°	61	67
85°	16	17
90°	14	9
95°	37	36
105°	91	95
115°	129	127
125°	149	133
135°	143	111
145°	133	83
155°	118	55
165°	98	28
175°	80	8
180°	75	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	133.6
2.5°	133.3
5°	132.9
7.5°	132.1
10°	130.9
12.5°	129.6
15°	128.0
17.5°	126.3
20°	124.3
22.5°	121.9
25°	119.4
27.5°	116.5
30°	113.6
32.5°	110.4
35°	107.0
37.5°	103.2
40°	99.0
42.5°	94.3
45°	89.6
47.5°	85.8
50°	91.1
52.5°	129.6
55°	156.1
57.5°	183.1
60°	194.5
62.5°	178.4
65°	144.1
67.5°	120.5
70°	98.2
72.5°	78.4
75°	61.3
77.5°	46.6
80°	34.6
82.5°	24.0
85°	15.8
87.5°	10.4
90°	13.8
92.5°	24.7
95°	36.9
97.5°	49.6
100°	63.7
102.5°	77.4
105°	91.3
107.5°	103.1
110°	112.5



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	120.7
115°	128.7
117.5°	136.4
120°	142.3
122.5°	146.7
125°	149.4
127.5°	150.3
130°	149.1
132.5°	146.3
135°	143.3
137.5°	140.1
140°	137.2
142.5°	134.7
145°	132.8
147.5°	130.8
150°	127.8
152.5°	123.8
155°	118.5
157.5°	113.1
160°	107.6
162.5°	102.6
165°	97.8
167.5°	92.4
170°	87.5
172.5°	83.6
175°	80.0
177.5°	76.7
180°	75.4

(END OF REPORT)