

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: 17161B

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

Issue Date: 3/3/2020

**Test Information**

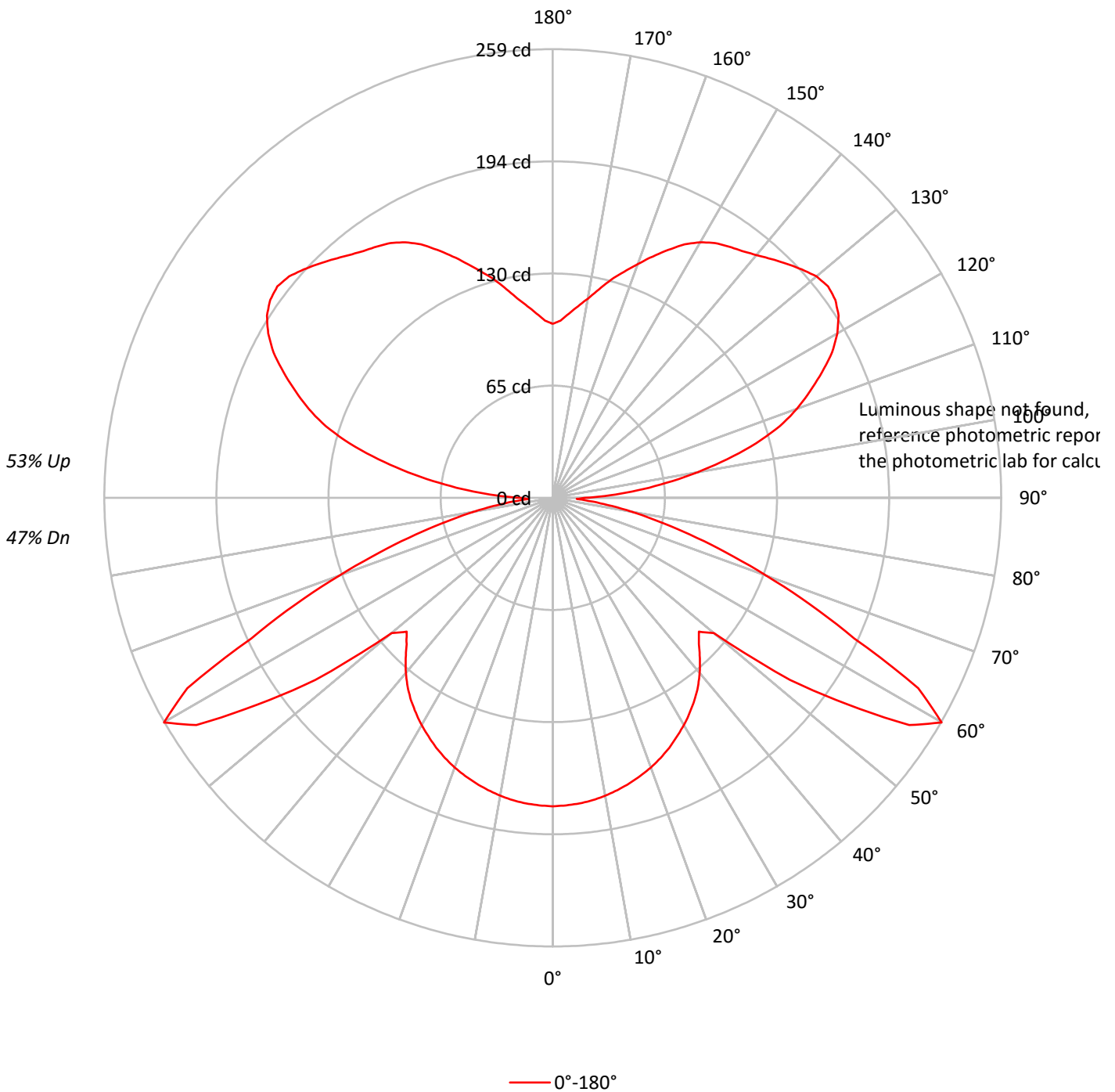
Test Method: LM-66-11  
Report Number: 17161B  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 494-RP-22  
Description: RECESSED LUMINAIRE W/SUSPENDED BOWL - PORTFOLIO  
WITH SEMI-SPECULAR REFLECTOR AND WHITE PLASTIC LENS  
  
Light Source: TWO 32 WATT CPFL LAMPS. LUMEN RATING = 4800 LMS.  
  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 4800 (1 lamp)  
Luminaire Lumens: 1723.8 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



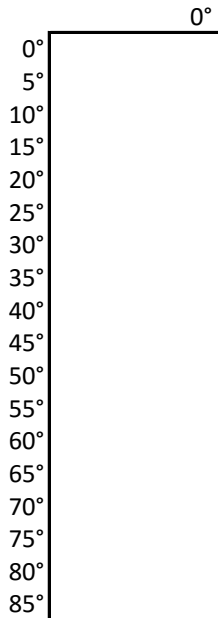


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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°	16.8	1.0	0.4
10°-20°	48.2	2.8	1.0
20°-30°	73.4	4.3	1.5
30°-40°	89.2	5.2	1.9
40°-50°	94.0	5.5	2.0
50°-60°	184.1	10.7	3.8
60°-70°	194.2	11.3	4.0
70°-80°	88.8	5.2	1.9
80°-90°	27.0	1.6	0.6
90°-100°	54.5	3.2	1.1
100°-110°	126.6	7.3	2.6
110°-120°	169.6	9.8	3.5
120°-130°	177.0	10.3	3.7
130°-140°	148.1	8.6	3.1
140°-150°	111.3	6.5	2.3
150°-160°	73.3	4.3	1.5
160°-170°	37.3	2.2	0.8
170°-180°	10.5	0.6	0.2
0°-30°	138.4	8.0	2.9
0°-40°	227.6	13.2	4.7
0°-60°	505.6	29.3	10.5
0°-90°	815.6	47.3	17.0
90°-120°	350.6	20.3	7.3
90°-150°	787.0	45.7	16.4
90°-180°	908.0	52.7	18.9
0°-180°	1723.8	100.0	35.9

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	178	
5°	177	17
15°	171	48
25°	159	73
35°	143	89
45°	119	94
55°	208	184
65°	192	194
75°	82	89
85°	21	23
90°	18	11
95°	49	47
105°	122	127
115°	172	170
125°	199	177
135°	191	148
145°	177	111
155°	158	73
165°	130	37
175°	107	10
180°	100	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	178.1
2.5°	177.7
5°	177.1
7.5°	176.1
10°	174.6
12.5°	172.8
15°	170.7
17.5°	168.3
20°	165.7
22.5°	162.6
25°	159.2
27.5°	155.3
30°	151.5
32.5°	147.2
35°	142.7
37.5°	137.7
40°	132.0
42.5°	125.7
45°	119.4
47.5°	114.4
50°	121.5
52.5°	172.8
55°	208.1
57.5°	244.1
60°	259.3
62.5°	237.9
65°	192.2
67.5°	160.7
70°	131.0
72.5°	104.5
75°	81.8
77.5°	62.2
80°	46.1
82.5°	32.0
85°	21.1
87.5°	13.9
90°	18.4
92.5°	33.0
95°	49.1
97.5°	66.2
100°	84.9
102.5°	103.1
105°	121.7
107.5°	137.5
110°	150.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	160.9
115°	171.6
117.5°	181.9
120°	189.8
122.5°	195.7
125°	199.2
127.5°	200.5
130°	198.8
132.5°	195.1
135°	191.1
137.5°	186.9
140°	182.9
142.5°	179.6
145°	177.1
147.5°	174.4
150°	170.3
152.5°	165.0
155°	157.9
157.5°	150.8
160°	143.5
162.5°	136.8
165°	130.4
167.5°	123.2
170°	116.7
172.5°	111.5
175°	106.7
177.5°	102.3
180°	100.5

(END OF REPORT)