

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: 17161

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 17161
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 WITH SEMI-SPECULAR REFLECTOR
AND WHITE PLASTIC LENS
Light Source: TWO PHILIPS 42 WATT CPFL LAMPS

PL-T 42W/41/4P. LUMEN RATING = 6400 LMS.

Ballast/Driver: -

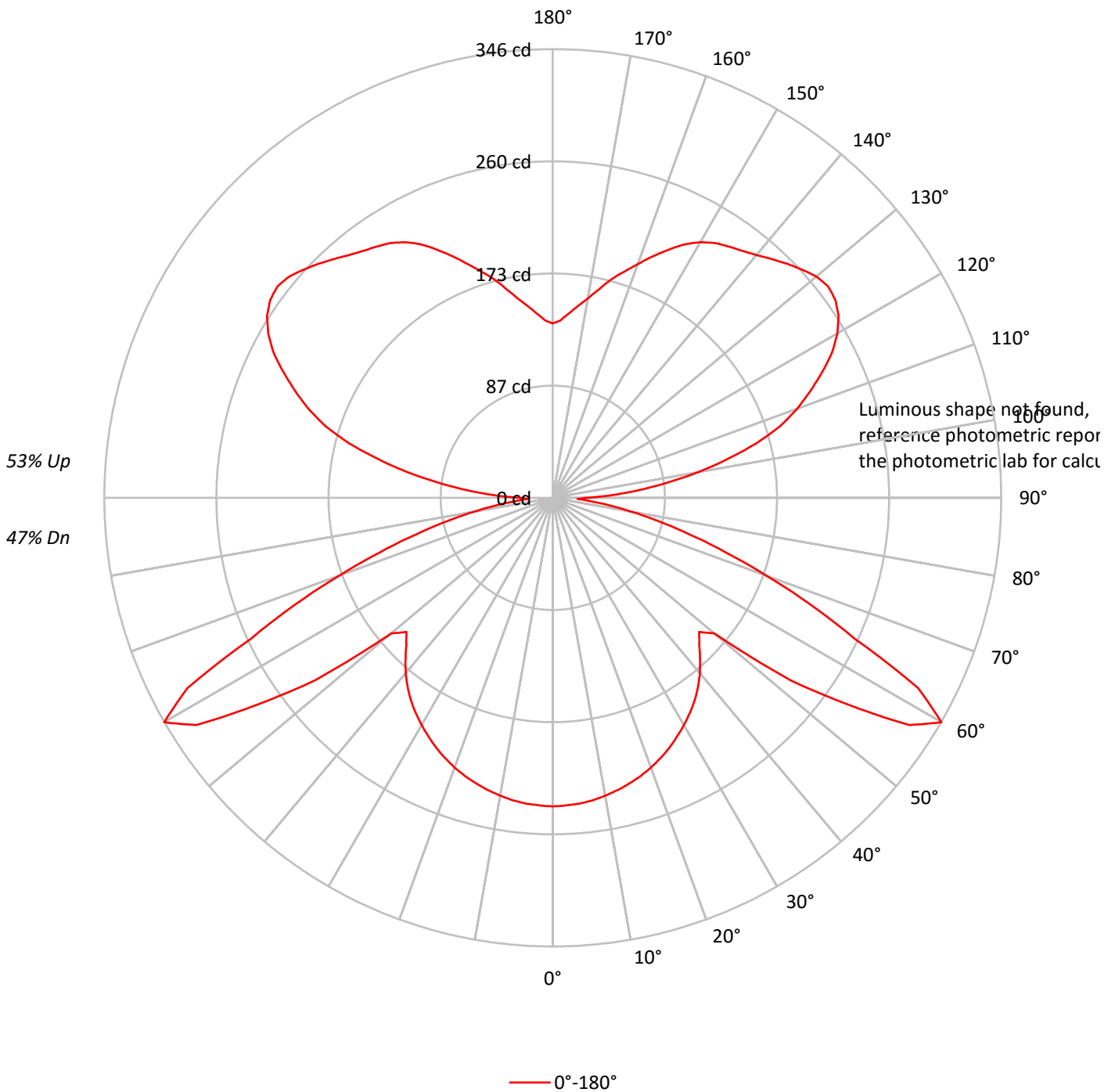
Summary

Lumens per Lamp: 6400 (1 lamp)
Luminaire Lumens: 2304.6 lumens
Efficiency: 36.0%
Efficacy: 26.2 lumens/watt
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): 88
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



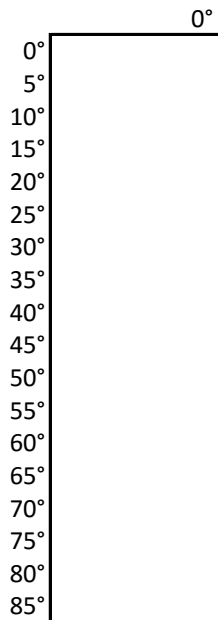


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.5	1.0	0.4
10°-20°	64.4	2.8	1.0
20°-30°	98.0	4.3	1.5
30°-40°	119.2	5.2	1.9
40°-50°	125.7	5.5	2.0
50°-60°	245.9	10.7	3.8
60°-70°	259.4	11.3	4.1
70°-80°	118.9	5.2	1.9
80°-90°	36.6	1.6	0.6
90°-100°	73.2	3.2	1.1
100°-110°	169.4	7.3	2.6
110°-120°	226.5	9.8	3.5
120°-130°	236.5	10.3	3.7
130°-140°	197.8	8.6	3.1
140°-150°	148.7	6.5	2.3
150°-160°	98.0	4.3	1.5
160°-170°	49.8	2.2	0.8
170°-180°	14.0	0.6	0.2
0°-30°	184.9	8.0	2.9
0°-40°	304.1	13.2	4.8
0°-60°	675.8	29.3	10.6
0°-90°	1090.6	47.3	17.0
90°-120°	469.1	20.4	7.3
90°-150°	1052.1	45.7	16.4
90°-180°	1214.0	52.7	19.0
0°-180°	2304.6	100.0	36.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	238	
5°	237	22
15°	228	64
25°	213	98
35°	191	119
45°	160	126
55°	278	246
65°	257	259
75°	110	119
85°	29	31
90°	25	16
95°	66	64
105°	163	169
115°	229	227
125°	266	236
135°	255	198
145°	237	149
155°	211	98
165°	174	50
175°	143	14
180°	134	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	238.0
2.5°	237.4
5°	236.7
7.5°	235.3
10°	233.2
12.5°	230.9
15°	228.1
17.5°	225.0
20°	221.4
22.5°	217.2
25°	212.8
27.5°	207.5
30°	202.4
32.5°	196.7
35°	190.8
37.5°	184.0
40°	176.5
42.5°	168.1
45°	159.8
47.5°	153.1
50°	162.5
52.5°	230.9
55°	278.0
57.5°	326.0
60°	346.2
62.5°	317.7
65°	256.8
67.5°	214.8
70°	175.1
72.5°	139.8
75°	109.5
77.5°	83.4
80°	61.9
82.5°	43.2
85°	28.6
87.5°	19.1
90°	25.0
92.5°	44.5
95°	66.0
97.5°	88.8
100°	113.7
102.5°	138.0
105°	162.8
107.5°	183.8
110°	200.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	215.0
115°	229.3
117.5°	243.0
120°	253.5
122.5°	261.4
125°	266.1
127.5°	267.8
130°	265.5
132.5°	260.6
135°	255.3
137.5°	249.7
140°	244.4
142.5°	240.0
145°	236.6
147.5°	233.0
150°	227.6
152.5°	220.5
155°	211.1
157.5°	201.5
160°	191.8
162.5°	182.8
165°	174.4
167.5°	164.7
170°	156.1
172.5°	149.2
175°	142.8
177.5°	136.9
180°	134.5

(END OF REPORT)