

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: 17163

Luminaire Tested: **499-RP-24-PB**

Issue Date: 3/3/2020

**Test Information**

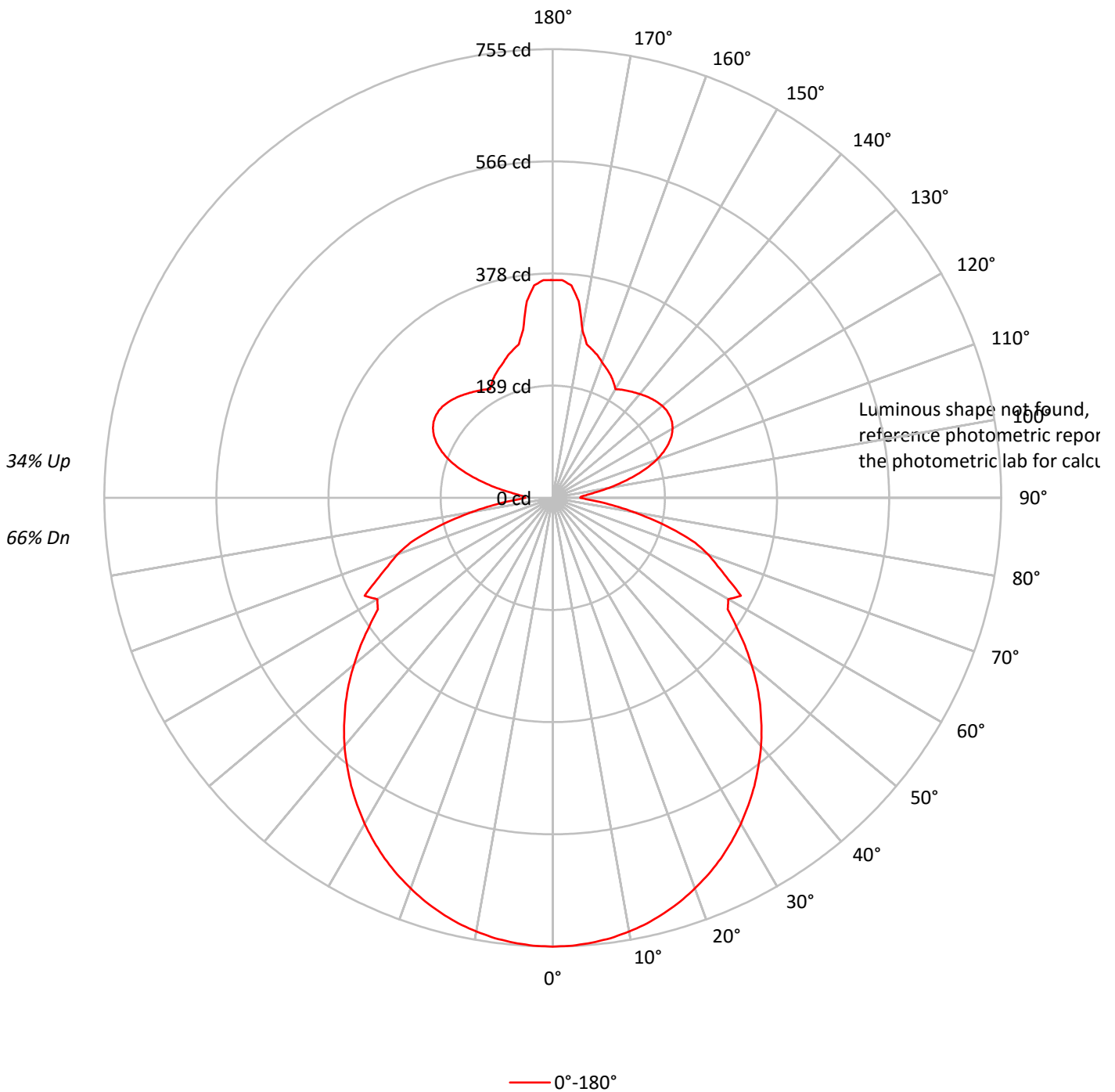
Test Method: LM-66-11  
Report Number: 17163  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 499-RP-24-PB  
Description: RECESSED LUMINAIRE WITH SUSPENDED BOWL WITH SEMI-SPECULAR  
REFLECTOR AND WHITE PLASTIC LENS  
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: 3485.0 lumens  
Efficiency: 54.5%  
Efficacy: 39.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: (L: 0' x W: -2' x H: 0.29'  
CIE Type: Semi-Direct  
  
Input Watts (W): 88  
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

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### Luminous Intensity Polar Plot



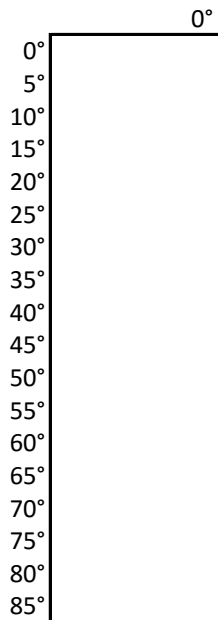


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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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	60	60	60	60	57	57	57	57	50	50	50	44	44	44	39	39	39	36
1	55	52	50	47	51	49	47	45	43	42	40	38	37	36	33	32	32	29
2	49	45	41	38	46	42	39	36	37	35	33	33	31	29	29	27	26	24
3	45	39	35	31	42	37	33	30	33	30	27	29	26	24	25	23	22	20
4	41	35	30	26	38	33	28	25	29	26	23	26	23	21	22	20	19	17
5	38	31	26	23	35	29	25	22	26	22	20	23	20	18	20	18	16	14
6	35	28	23	20	32	26	22	19	23	20	17	21	18	16	18	16	14	13
7	32	25	20	17	30	24	19	16	21	18	15	19	16	14	17	14	12	11
8	30	23	18	15	28	22	17	15	19	16	13	17	14	12	15	13	11	10
9	28	21	16	14	26	20	16	13	18	14	12	16	13	11	14	12	10	9
10	26	19	15	12	24	18	14	12	16	13	11	15	12	10	13	11	9	8

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	71.4	2.0	1.1
10°-20°	204.2	5.9	3.2
20°-30°	308.5	8.9	4.8
30°-40°	370.0	10.6	5.8
40°-50°	380.5	10.9	5.9
50°-60°	340.6	9.8	5.3
60°-70°	320.6	9.2	5.0
70°-80°	223.7	6.4	3.5
80°-90°	91.2	2.6	1.4
90°-100°	68.3	2.0	1.1
100°-110°	149.8	4.3	2.3
110°-120°	211.1	6.1	3.3
120°-130°	214.6	6.2	3.4
130°-140°	182.2	5.2	2.8
140°-150°	138.2	4.0	2.2
150°-160°	105.1	3.0	1.6
160°-170°	73.0	2.1	1.1
170°-180°	32.0	0.9	0.5
0°-30°	584.1	16.8	9.1
0°-40°	954.1	27.4	14.9
0°-60°	1675.2	48.1	26.2
0°-90°	2310.6	66.3	36.1
90°-120°	429.2	12.3	6.7
90°-150°	964.2	27.7	15.1
90°-180°	1174.0	33.7	18.3
0°-180°	3485.0	100.0	54.5

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	755	
5°	752	71
15°	724	204
25°	670	308
35°	592	370
45°	494	380
55°	377	341
65°	326	321
75°	214	224
85°	79	77
90°	46	27
95°	58	55
105°	143	150
115°	215	211
125°	241	215
135°	236	182
145°	220	138
155°	229	105
165°	258	73
175°	359	32
180°	366	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	755.3
2.5°	754.3
5°	751.6
7.5°	747.3
10°	741.1
12.5°	733.5
15°	723.7
17.5°	712.7
20°	699.6
22.5°	685.3
25°	669.6
27.5°	652.0
30°	633.4
32.5°	612.8
35°	591.8
37.5°	568.8
40°	545.6
42.5°	519.8
45°	493.8
47.5°	466.3
50°	436.7
52.5°	407.6
55°	377.0
57.5°	349.1
60°	341.1
62.5°	357.2
65°	326.5
67.5°	300.5
70°	278.2
72.5°	251.1
75°	214.4
77.5°	174.2
80°	138.4
82.5°	105.9
85°	78.9
87.5°	57.6
90°	46.1
92.5°	47.7
95°	57.9
97.5°	74.1
100°	95.5
102.5°	118.7
105°	143.1
107.5°	165.5
110°	185.7



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	201.9
115°	215.1
117.5°	225.5
120°	232.9
122.5°	238.0
125°	240.6
127.5°	241.5
130°	240.8
132.5°	238.5
135°	235.6
137.5°	232.0
140°	227.9
142.5°	223.9
145°	219.9
147.5°	215.7
150°	211.0
152.5°	220.7
155°	229.0
157.5°	235.7
160°	242.7
162.5°	251.1
165°	257.9
167.5°	264.5
170°	286.7
172.5°	333.7
175°	358.7
177.5°	366.6
180°	366.3

(END OF REPORT)