

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: 17162A

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 17162A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 499-RP-24
Description: RECESSED LUMINAIRE WITH SUSPENDED BOWL - PORTFOLIO
WITH SEMI-SPECULAR REFLECTOR AND WHITE PLASTIC LENS

Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

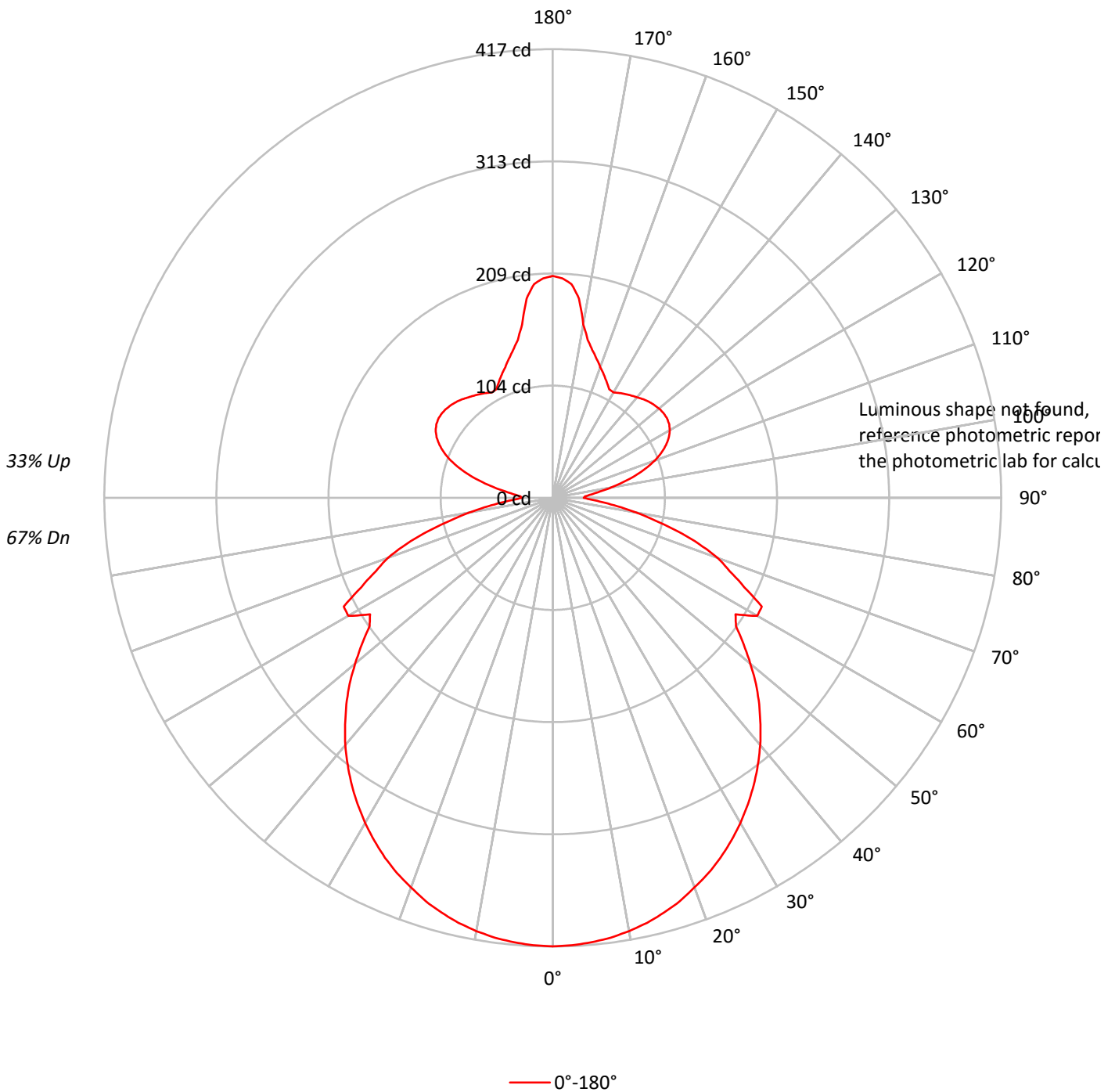
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 1941.0 lumens
Efficiency: 53.9%
Efficacy: -
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: (L: 0' x W: -2' x H: 0.29'
CIE Type: Semi-Direct

Input Watts (W): 0
Input Voltage (V): NR
Input Current (A_{in}): 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	54	51	49	47	51	48	46	44	43	41	40	38	37	35	33	32	31	29
2	49	44	41	38	46	42	39	36	37	35	32	33	31	29	29	27	26	24
3	44	39	34	31	42	37	33	29	32	29	27	29	26	24	25	23	22	20
4	41	34	29	26	38	32	28	25	29	25	23	25	23	20	22	20	18	17
5	37	30	26	22	35	29	24	21	26	22	19	23	20	18	20	18	16	14
6	34	27	23	19	32	26	21	18	23	19	17	20	18	15	18	16	14	12
7	32	25	20	17	30	23	19	16	21	17	15	19	16	14	16	14	12	11
8	29	22	18	15	28	21	17	14	19	16	13	17	14	12	15	13	11	10
9	27	20	16	13	26	19	15	13	17	14	12	16	13	11	14	12	10	9
10	26	19	15	12	24	18	14	11	16	13	11	14	12	10	13	11	9	8

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.4	2.0	1.1
10°-20°	112.6	5.8	3.1
20°-30°	170.0	8.8	4.7
30°-40°	203.8	10.5	5.7
40°-50°	209.1	10.8	5.8
50°-60°	193.2	10.0	5.4
60°-70°	194.4	10.0	5.4
70°-80°	127.0	6.5	3.5
80°-90°	53.0	2.7	1.5
90°-100°	41.2	2.1	1.1
100°-110°	82.9	4.3	2.3
110°-120°	114.1	5.9	3.2
120°-130°	115.4	5.9	3.2
130°-140°	97.7	5.0	2.7
140°-150°	74.0	3.8	2.1
150°-160°	55.0	2.8	1.5
160°-170°	40.2	2.1	1.1
170°-180°	17.9	0.9	0.5
0°-30°	322.0	16.6	8.9
0°-40°	525.8	27.1	14.6
0°-60°	928.1	47.8	25.8
0°-90°	1302.5	67.1	36.2
90°-120°	238.3	12.3	6.6
90°-150°	525.3	27.1	14.6
90°-180°	638.0	32.9	17.7
0°-180°	1941.0	100.0	53.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	417	
5°	415	39
15°	399	113
25°	369	170
35°	326	204
45°	271	209
55°	208	193
65°	196	194
75°	120	127
85°	46	44
90°	29	17
95°	36	33
105°	79	83
115°	116	114
125°	129	115
135°	126	98
145°	118	74
155°	119	55
165°	142	40
175°	199	18
180°	206	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	416.9
2.5°	416.2
5°	414.7
7.5°	412.3
10°	408.9
12.5°	404.6
15°	399.2
17.5°	393.1
20°	385.3
22.5°	377.8
25°	369.1
27.5°	359.3
30°	349.0
32.5°	337.6
35°	325.9
37.5°	313.2
40°	300.1
42.5°	285.8
45°	271.4
47.5°	256.2
50°	239.8
52.5°	223.7
55°	207.8
57.5°	201.5
60°	219.5
62.5°	219.1
65°	196.5
67.5°	178.1
70°	163.2
72.5°	142.5
75°	120.4
77.5°	97.7
80°	78.3
82.5°	60.7
85°	46.0
87.5°	34.5
90°	28.7
92.5°	29.9
95°	35.6
97.5°	44.0
100°	54.9
102.5°	66.6
105°	79.2
107.5°	90.5
110°	100.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	109.3
115°	116.2
117.5°	121.8
120°	125.7
122.5°	128.2
125°	129.4
127.5°	129.6
130°	129.1
132.5°	127.9
135°	126.3
137.5°	124.3
140°	122.0
142.5°	119.8
145°	117.7
147.5°	115.5
150°	113.1
152.5°	113.7
155°	118.7
157.5°	123.9
160°	129.2
162.5°	135.5
165°	142.1
167.5°	150.2
170°	163.6
172.5°	186.7
175°	199.4
177.5°	204.2
180°	206.2

(END OF REPORT)