

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: 19642A

Luminaire Tested: **415-A-36-CF4/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19642A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 415-A-36-CF4/42
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE INTERIOR AND WHITE PLASTIC LENS
Light Source: FOUR 42 WATT CPFL LAMPS. LUMEN RATING = 12800 LMS.

Ballast/Driver: -

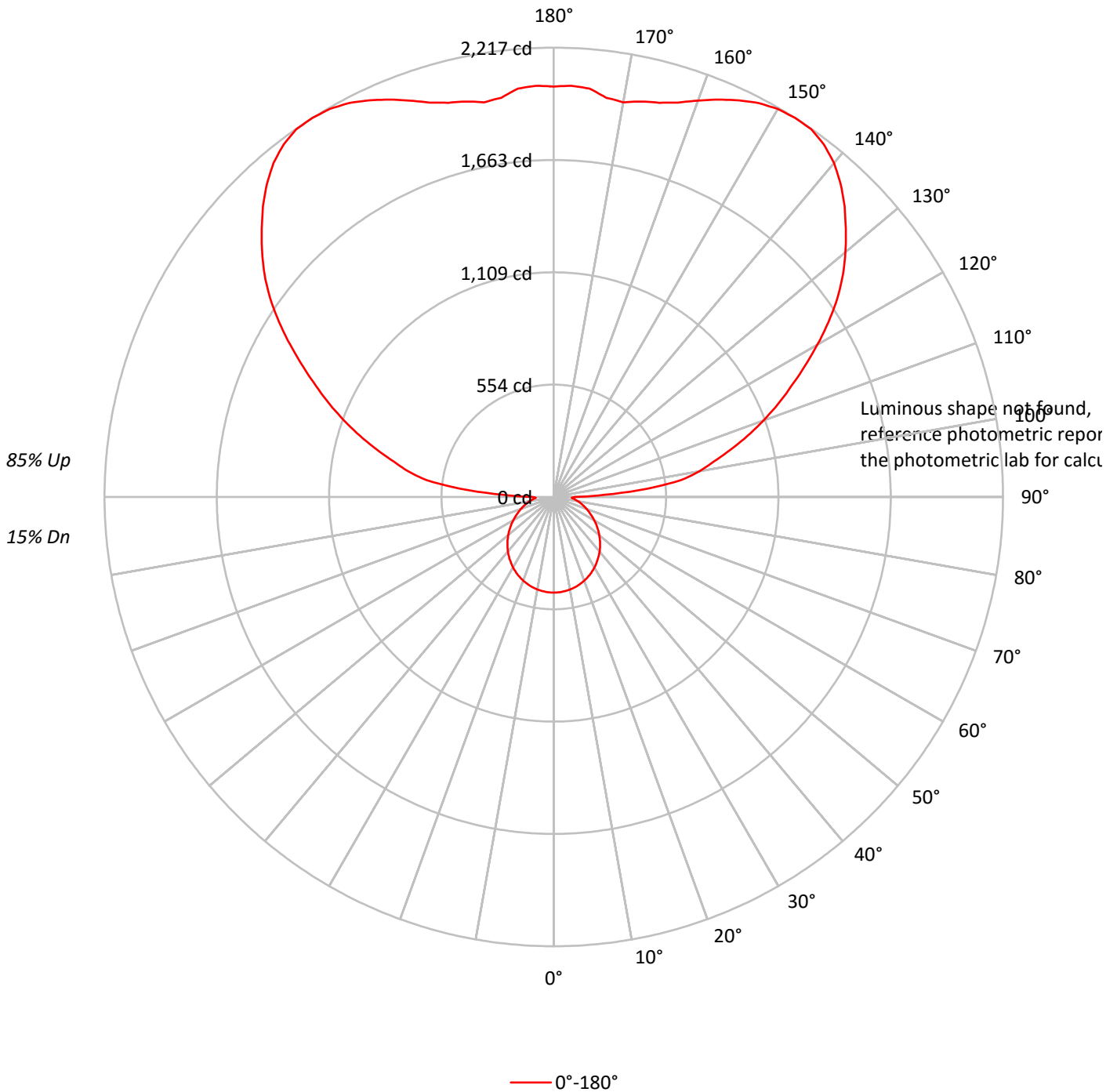
Summary

Lumens per Lamp: 12800 (1 lamp)
Luminaire Lumens: 10510.7 lumens
Efficiency: 82.1%
Efficacy: -
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: (L: 0' x W: -1' x H: 0.58'
CIE Type: Semi-Indirect

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



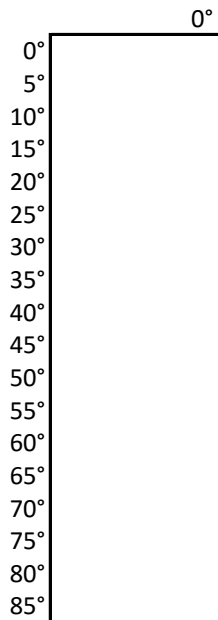


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	81	81	81	81	71	71	71	71	52	52	52	35	35	35	20	20	20	12
1	73	70	67	64	64	61	59	56	45	43	42	30	29	28	17	16	16	9
2	67	61	56	52	58	53	49	46	39	37	34	26	25	23	14	14	13	8
3	61	53	48	43	53	47	42	38	35	31	29	23	21	20	13	12	11	6
4	55	47	41	36	48	41	36	32	31	27	24	21	18	17	11	10	9	5
5	51	42	35	31	44	37	31	27	27	23	21	18	16	14	10	9	8	5
6	46	37	31	26	40	33	27	23	24	21	18	16	14	12	9	8	7	4
7	43	33	27	23	37	29	24	20	22	18	15	15	12	11	8	7	6	4
8	40	30	24	20	35	26	21	18	20	16	14	13	11	9	8	6	5	3
9	37	27	21	17	32	24	19	16	18	14	12	12	10	8	7	6	5	3
10	34	25	19	15	30	22	17	14	16	13	11	11	9	7	6	5	4	3

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	44.6	0.4	0.3
10°-20°	128.0	1.2	1.0
20°-30°	194.7	1.9	1.5
30°-40°	236.5	2.2	1.8
40°-50°	249.6	2.4	2.0
50°-60°	234.8	2.2	1.8
60°-70°	198.6	1.9	1.6
70°-80°	154.6	1.5	1.2
80°-90°	111.7	1.1	0.9
90°-100°	480.8	4.6	3.8
100°-110°	958.7	9.1	7.5
110°-120°	1284.4	12.2	10.0
120°-130°	1523.2	14.5	11.9
130°-140°	1564.3	14.9	12.2
140°-150°	1382.0	13.1	10.8
150°-160°	999.1	9.5	7.8
160°-170°	574.2	5.5	4.5
170°-180°	191.0	1.8	1.5
0°-30°	367.3	3.5	2.9
0°-40°	603.7	5.7	4.7
0°-60°	1088.2	10.4	8.5
0°-90°	1553.1	14.8	12.1
90°-120°	2723.9	25.9	21.3
90°-150°	7193.4	68.4	56.2
90°-180°	8958.0	85.2	70.0
0°-180°	10510.7	100.0	82.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	472	
5°	470	45
15°	454	128
25°	422	195
35°	378	236
45°	324	250
55°	262	235
65°	200	199
75°	146	155
85°	99	85
90°	104	75
95°	464	432
105°	904	959
115°	1293	1284
125°	1709	1523
135°	2029	1564
145°	2215	1382
155°	2159	999
165°	2014	574
175°	2023	191
180°	2025	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	472.0
2.5°	471.4
5°	469.7
7.5°	466.8
10°	463.3
12.5°	458.9
15°	453.5
17.5°	447.0
20°	439.7
22.5°	431.5
25°	422.3
27.5°	412.3
30°	401.6
32.5°	389.9
35°	377.7
37.5°	365.2
40°	351.8
42.5°	337.9
45°	323.6
47.5°	308.4
50°	293.2
52.5°	278.1
55°	262.4
57.5°	246.8
60°	230.9
62.5°	215.0
65°	199.9
67.5°	185.6
70°	171.8
72.5°	158.9
75°	146.0
77.5°	133.5
80°	121.6
82.5°	109.9
85°	98.7
87.5°	88.4
90°	103.9
92.5°	252.0
95°	464.0
97.5°	632.4
100°	731.0
102.5°	808.8
105°	903.7
107.5°	1002.4
110°	1100.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1197.2
115°	1293.4
117.5°	1394.7
120°	1501.7
122.5°	1607.7
125°	1708.7
127.5°	1798.9
130°	1879.1
132.5°	1954.6
135°	2029.4
137.5°	2095.4
140°	2151.4
142.5°	2191.2
145°	2214.7
147.5°	2217.2
150°	2210.5
152.5°	2191.1
155°	2158.8
157.5°	2122.8
160°	2081.6
162.5°	2040.4
165°	2013.7
167.5°	1998.7
170°	1977.6
172.5°	1986.9
175°	2022.8
177.5°	2030.6
180°	2025.1

(END OF REPORT)