

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: 19427

Luminaire Tested: **406-28-CF2/32**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19427
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 406-28-CF2/32
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE INTERIOR AND NO LENS

Light Source: TWO SYLVANIA 32 WATT CPFL LAMPS

CF32DT/E/841. LUMEN RATING = 4800 LMS.

Ballast/Driver: -

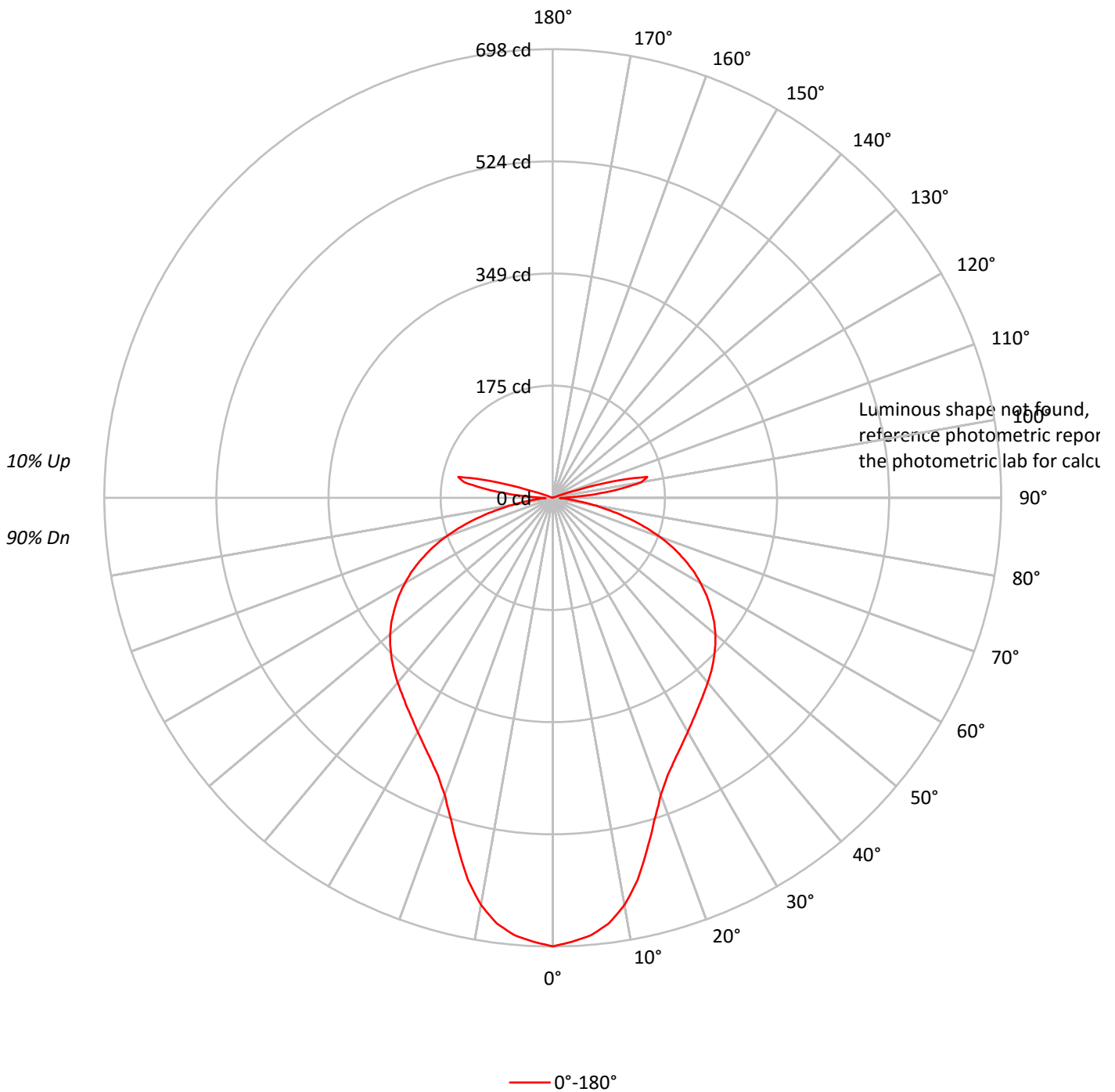
Summary

Lumens per Lamp: 4800 (1 lamp)
Luminaire Lumens: 1777.5 lumens
Efficiency: 37.0%
Efficacy: 30.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 1.16
Luminous Opening: (L: 0 ' x W: -2.33 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 59
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



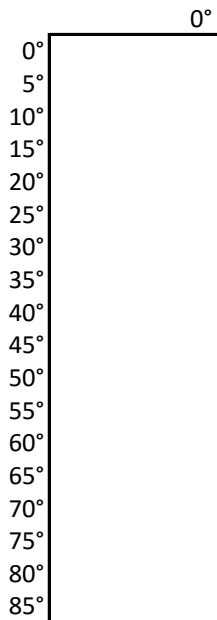


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	43	43	43	43	42	42	42	42	39	39	39	37	37	37	34	34	34	33
1	39	38	36	34	38	36	35	34	34	33	32	32	31	30	30	29	29	28
2	36	33	30	28	34	32	29	27	30	28	26	28	26	25	26	25	24	23
3	32	28	25	23	31	28	25	23	26	24	22	24	23	21	23	21	20	19
4	30	25	22	19	29	24	21	19	23	20	18	22	20	18	21	19	17	16
5	27	22	19	17	26	22	19	16	21	18	16	20	17	15	18	16	15	14
6	25	20	17	15	24	20	17	14	19	16	14	18	15	13	17	15	13	12
7	23	18	15	13	22	18	15	13	17	14	12	16	14	12	15	13	12	11
8	22	17	14	11	21	16	13	11	15	13	11	15	12	11	14	12	10	10
9	20	15	12	10	20	15	12	10	14	12	10	14	11	10	13	11	9	9
10	19	14	11	9	18	14	11	9	13	11	9	13	10	9	12	10	9	8

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	64.0	3.6	1.3
10°-20°	158.5	8.9	3.3
20°-30°	208.1	11.7	4.3
30°-40°	248.6	14.0	5.2
40°-50°	273.6	15.4	5.7
50°-60°	268.4	15.1	5.6
60°-70°	221.8	12.5	4.6
70°-80°	126.7	7.1	2.6
80°-90°	31.1	1.8	0.6
90°-100°	77.2	4.3	1.6
100°-110°	97.2	5.5	2.0
110°-120°	0.7	0.0	0.0
120°-130°	0.4	0.0	0.0
130°-140°	0.4	0.0	0.0
140°-150°	0.3	0.0	0.0
150°-160°	0.2	0.0	0.0
160°-170°	0.1	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	430.6	24.2	9.0
0°-40°	679.2	38.2	14.1
0°-60°	1221.2	68.7	25.4
0°-90°	1600.8	90.1	33.4
90°-120°	175.1	9.9	3.6
90°-150°	176.3	9.9	3.7
90°-180°	177.0	10.0	3.7
0°-180°	1777.5	100.0	37.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	698	
5°	683	64
15°	567	159
25°	449	208
35°	396	249
45°	354	274
55°	300	268
65°	225	222
75°	120	127
85°	24	28
90°	13	10
95°	68	71
105°	102	97
115°	0	1
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	697.8
2.5°	691.2
5°	683.1
7.5°	668.0
10°	643.2
12.5°	609.3
15°	566.6
17.5°	525.9
20°	491.4
22.5°	467.2
25°	449.3
27.5°	433.9
30°	420.3
32.5°	407.4
35°	396.1
37.5°	385.2
40°	375.3
42.5°	365.2
45°	354.4
47.5°	343.0
50°	330.2
52.5°	316.4
55°	300.4
57.5°	284.4
60°	265.8
62.5°	247.0
65°	225.0
67.5°	202.5
70°	177.4
72.5°	148.8
75°	120.5
77.5°	90.7
80°	64.3
82.5°	41.0
85°	23.6
87.5°	11.2
90°	12.9
92.5°	34.7
95°	67.7
97.5°	104.8
100°	140.3
102.5°	150.8
105°	102.2
107.5°	40.5
110°	2.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.5
115°	0.5
117.5°	0.5
120°	0.5
122.5°	0.5
125°	0.5
127.5°	0.5
130°	0.5
132.5°	0.5
135°	0.5
137.5°	0.5
140°	0.5
142.5°	0.5
145°	0.5
147.5°	0.5
150°	0.5
152.5°	0.5
155°	0.5
157.5°	0.5
160°	0.5
162.5°	0.5
165°	0.5
167.5°	0.5
170°	0.5
172.5°	0.5
175°	0.5
177.5°	0.5
180°	0.5

(END OF REPORT)