

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: 19379A

Luminaire Tested: **260-CF1/18**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19379A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 260-CF1/18
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH ALUMINUM SHADE

Light Source: ONE 18 WATT CPFL LAMP. LUMEN RATING = 1250 LMS.

Ballast/Driver: -

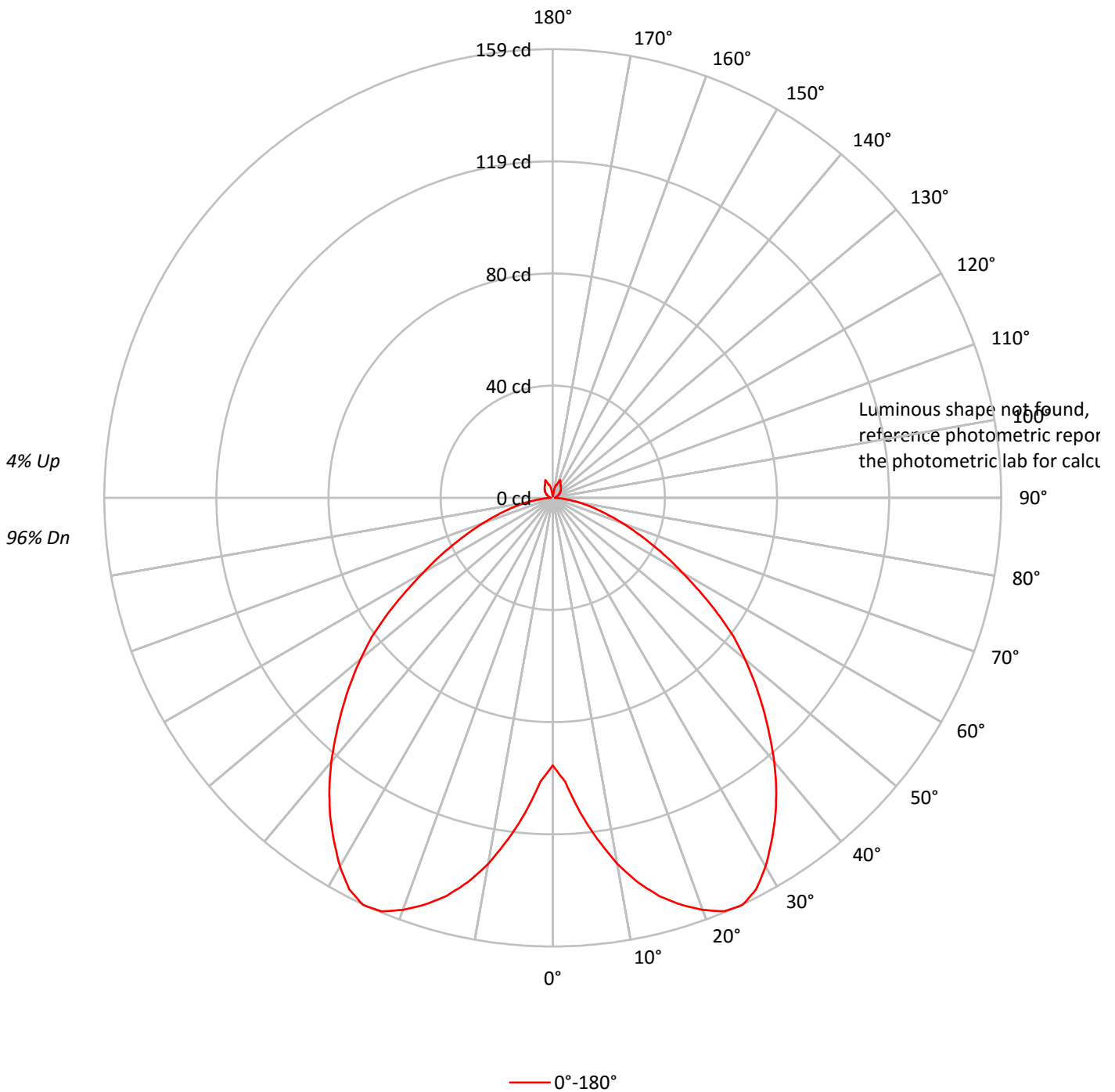
Summary

Lumens per Lamp: 1250 (1 lamp)
Luminaire Lumens: 435.0 lumens
Efficiency: 34.8%
Efficacy: -
Spacing Criteria (0/90/45): 1.8 / 1.8 / 1.68
Luminous Opening: (L: 0 ' x W: -0.5 ' x H: 0 '
CIE Type: Direct

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 | 41 | 41 | 41 | 41 | 40 | 40 | 40 | 40 | 38 | 38 | 38 | 36 | 36 | 36 | 34 | 34 | 34 | 33 |
| 1 | 38 | 36 | 35 | 34 | 37 | 35 | 34 | 33 | 34 | 33 | 32 | 32 | 31 | 31 | 31 | 30 | 29 | 29 |
| 2 | 35 | 32 | 30 | 28 | 34 | 31 | 29 | 28 | 30 | 28 | 27 | 28 | 27 | 26 | 27 | 26 | 25 | 24 |
| 3 | 32 | 28 | 26 | 24 | 31 | 28 | 25 | 23 | 26 | 24 | 23 | 25 | 24 | 22 | 24 | 23 | 22 | 21 |
| 4 | 29 | 25 | 22 | 20 | 28 | 25 | 22 | 20 | 24 | 21 | 19 | 23 | 21 | 19 | 22 | 20 | 19 | 18 |
| 5 | 27 | 23 | 20 | 17 | 26 | 22 | 19 | 17 | 21 | 19 | 17 | 20 | 18 | 17 | 20 | 18 | 16 | 16 |
| 6 | 25 | 20 | 17 | 15 | 24 | 20 | 17 | 15 | 19 | 17 | 15 | 18 | 16 | 15 | 18 | 16 | 14 | 14 |
| 7 | 23 | 18 | 16 | 13 | 22 | 18 | 15 | 13 | 17 | 15 | 13 | 17 | 15 | 13 | 16 | 14 | 13 | 12 |
| 8 | 21 | 17 | 14 | 12 | 21 | 17 | 14 | 12 | 16 | 13 | 12 | 15 | 13 | 12 | 15 | 13 | 11 | 11 |
| 9 | 20 | 15 | 13 | 11 | 19 | 15 | 12 | 11 | 15 | 12 | 11 | 14 | 12 | 10 | 14 | 12 | 10 | 10 |
| 10 | 19 | 14 | 11 | 10 | 18 | 14 | 11 | 10 | 14 | 11 | 10 | 13 | 11 | 9 | 13 | 11 | 9 | 9 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 11.3 | 2.6 | 0.9 |
| 10°-20° | 41.5 | 9.5 | 3.3 |
| 20°-30° | 72.5 | 16.7 | 5.8 |
| 30°-40° | 85.8 | 19.7 | 6.9 |
| 40°-50° | 81.3 | 18.7 | 6.5 |
| 50°-60° | 63.5 | 14.6 | 5.1 |
| 60°-70° | 38.4 | 8.8 | 3.1 |
| 70°-80° | 18.1 | 4.2 | 1.4 |
| 80°-90° | 4.6 | 1.0 | 0.4 |
| 90°-100° | 1.0 | 0.2 | 0.1 |
| 100°-110° | 1.5 | 0.3 | 0.1 |
| 110°-120° | 2.1 | 0.5 | 0.2 |
| 120°-130° | 2.8 | 0.6 | 0.2 |
| 130°-140° | 3.1 | 0.7 | 0.3 |
| 140°-150° | 3.1 | 0.7 | 0.2 |
| 150°-160° | 2.9 | 0.7 | 0.2 |
| 160°-170° | 1.3 | 0.3 | 0.1 |
| 170°-180° | 0.1 | 0.0 | 0.0 |
| 0°-30° | 125.3 | 28.8 | 10.0 |
| 0°-40° | 211.1 | 48.5 | 16.9 |
| 0°-60° | 355.9 | 81.8 | 28.5 |
| 0°-90° | 417.0 | 95.9 | 33.4 |
| 90°-120° | 4.7 | 1.1 | 0.4 |
| 90°-150° | 13.7 | 3.2 | 1.1 |
| 90°-180° | 18.0 | 4.1 | 1.4 |
| 0°-180° | 435.0 | 100.0 | 34.8 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 95 | |
| 5° | 112 | 11 |
| 15° | 146 | 41 |
| 25° | 159 | 73 |
| 35° | 138 | 86 |
| 45° | 105 | 81 |
| 55° | 71 | 64 |
| 65° | 38 | 38 |
| 75° | 17 | 18 |
| 85° | 4 | 4 |
| 90° | 1 | 1 |
| 95° | 1 | 1 |
| 105° | 1 | 2 |
| 115° | 2 | 2 |
| 125° | 3 | 3 |
| 135° | 4 | 3 |
| 145° | 5 | 3 |
| 155° | 6 | 3 |
| 165° | 5 | 1 |
| 175° | 1 | 0 |
| 180° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-------|
| 0° | 94.8 |
| 2.5° | 100.7 |
| 5° | 112.1 |
| 7.5° | 122.1 |
| 10° | 131.7 |
| 12.5° | 139.6 |
| 15° | 146.1 |
| 17.5° | 151.2 |
| 20° | 155.4 |
| 22.5° | 158.6 |
| 25° | 159.2 |
| 27.5° | 156.3 |
| 30° | 150.9 |
| 32.5° | 144.3 |
| 35° | 137.6 |
| 37.5° | 130.1 |
| 40° | 122.2 |
| 42.5° | 113.6 |
| 45° | 105.4 |
| 47.5° | 97.2 |
| 50° | 88.9 |
| 52.5° | 80.8 |
| 55° | 71.2 |
| 57.5° | 61.7 |
| 60° | 52.9 |
| 62.5° | 45.6 |
| 65° | 38.3 |
| 67.5° | 32.0 |
| 70° | 26.3 |
| 72.5° | 21.2 |
| 75° | 16.8 |
| 77.5° | 12.8 |
| 80° | 9.5 |
| 82.5° | 6.3 |
| 85° | 3.8 |
| 87.5° | 1.5 |
| 90° | 0.8 |
| 92.5° | 0.9 |
| 95° | 0.9 |
| 97.5° | 1.0 |
| 100° | 1.2 |
| 102.5° | 1.3 |
| 105° | 1.4 |
| 107.5° | 1.6 |
| 110° | 1.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 1.9 |
| 115° | 2.1 |
| 117.5° | 2.4 |
| 120° | 2.7 |
| 122.5° | 2.9 |
| 125° | 3.1 |
| 127.5° | 3.4 |
| 130° | 3.6 |
| 132.5° | 3.8 |
| 135° | 4.1 |
| 137.5° | 4.3 |
| 140° | 4.5 |
| 142.5° | 4.7 |
| 145° | 5.0 |
| 147.5° | 5.2 |
| 150° | 5.4 |
| 152.5° | 5.9 |
| 155° | 6.5 |
| 157.5° | 6.8 |
| 160° | 5.7 |
| 162.5° | 4.9 |
| 165° | 4.7 |
| 167.5° | 4.2 |
| 170° | 3.0 |
| 172.5° | 1.4 |
| 175° | 0.7 |
| 177.5° | 0.5 |
| 180° | 0.5 |

(END OF REPORT)