

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: 19438A

Luminaire Tested: **464-CF1/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19438A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 464-CF1/26
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE PLASTIC CONE AND WHITE PLASTIC SHADE
Light Source: ONE 26 WATT CPFL LAMP. LUMEN RATING = 1800 LMS.

Ballast/Driver: -

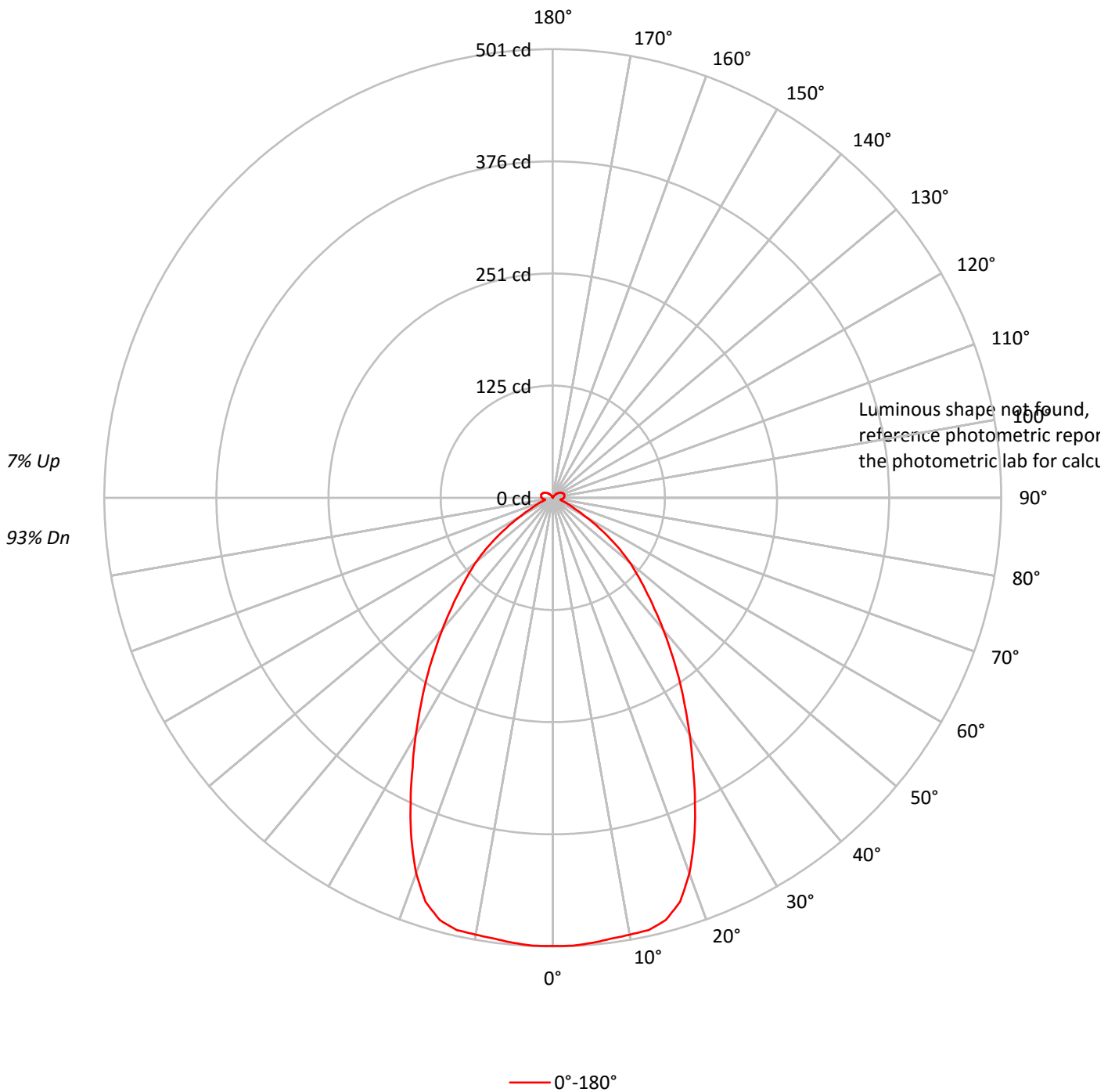
Summary

Lumens per Lamp: 1800 (1 lamp)
Luminaire Lumens: 796.6 lumens
Efficiency: 44.3%
Efficacy: -
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.02
Luminous Opening: (L: 0 ' x W: -1.17 ' 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



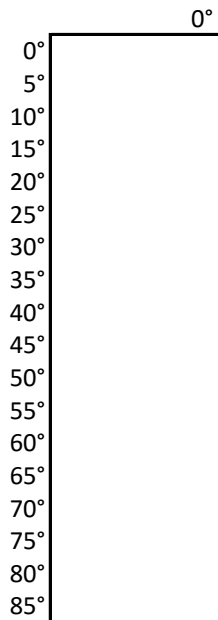


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | 52 | 52 | 52 | 52 | 50 | 50 | 50 | 50 | 47 | 47 | 47 | 45 | 45 | 45 | 42 | 42 | 42 | 41 |
| 1 | 49 | 47 | 45 | 44 | 47 | 46 | 44 | 43 | 43 | 42 | 41 | 41 | 40 | 39 | 39 | 38 | 38 | 37 |
| 2 | 45 | 42 | 40 | 38 | 44 | 41 | 39 | 37 | 39 | 38 | 36 | 37 | 36 | 35 | 36 | 35 | 34 | 33 |
| 3 | 42 | 38 | 36 | 33 | 41 | 38 | 35 | 33 | 36 | 34 | 32 | 34 | 33 | 31 | 33 | 31 | 30 | 29 |
| 4 | 39 | 35 | 32 | 30 | 38 | 34 | 31 | 29 | 33 | 30 | 28 | 32 | 29 | 28 | 30 | 29 | 27 | 26 |
| 5 | 37 | 32 | 29 | 26 | 36 | 31 | 28 | 26 | 30 | 28 | 26 | 29 | 27 | 25 | 28 | 26 | 25 | 24 |
| 6 | 34 | 29 | 26 | 24 | 33 | 29 | 26 | 24 | 28 | 25 | 23 | 27 | 25 | 23 | 26 | 24 | 22 | 22 |
| 7 | 32 | 27 | 24 | 22 | 31 | 27 | 24 | 21 | 26 | 23 | 21 | 25 | 23 | 21 | 24 | 22 | 20 | 20 |
| 8 | 30 | 25 | 22 | 20 | 29 | 25 | 22 | 20 | 24 | 21 | 19 | 23 | 21 | 19 | 23 | 20 | 19 | 18 |
| 9 | 29 | 23 | 20 | 18 | 28 | 23 | 20 | 18 | 22 | 20 | 18 | 22 | 19 | 18 | 21 | 19 | 17 | 17 |
| 10 | 27 | 22 | 19 | 17 | 26 | 22 | 19 | 17 | 21 | 18 | 16 | 20 | 18 | 16 | 20 | 18 | 16 | 15 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 47.5 | 6.0 | 2.6 |
| 10°-20° | 135.8 | 17.0 | 7.5 |
| 20°-30° | 172.1 | 21.6 | 9.6 |
| 30°-40° | 153.4 | 19.3 | 8.5 |
| 40°-50° | 114.7 | 14.4 | 6.4 |
| 50°-60° | 68.1 | 8.5 | 3.8 |
| 60°-70° | 25.2 | 3.2 | 1.4 |
| 70°-80° | 10.6 | 1.3 | 0.6 |
| 80°-90° | 12.2 | 1.5 | 0.7 |
| 90°-100° | 14.1 | 1.8 | 0.8 |
| 100°-110° | 14.0 | 1.8 | 0.8 |
| 110°-120° | 12.1 | 1.5 | 0.7 |
| 120°-130° | 9.0 | 1.1 | 0.5 |
| 130°-140° | 5.3 | 0.7 | 0.3 |
| 140°-150° | 2.1 | 0.3 | 0.1 |
| 150°-160° | 0.4 | 0.1 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 355.4 | 44.6 | 19.7 |
| 0°-40° | 508.8 | 63.9 | 28.3 |
| 0°-60° | 691.6 | 86.8 | 38.4 |
| 0°-90° | 739.6 | 92.8 | 41.1 |
| 90°-120° | 40.2 | 5.0 | 2.2 |
| 90°-150° | 56.6 | 7.1 | 3.1 |
| 90°-180° | 57.0 | 7.2 | 3.2 |
| 0°-180° | 796.6 | 100.0 | 44.3 |

CANDELA DISTRIBUTION:

| 0° | Flux |
|------|------|
| 0° | 500 |
| 5° | 499 |
| 15° | 488 |
| 25° | 376 |
| 35° | 246 |
| 45° | 148 |
| 55° | 76 |
| 65° | 23 |
| 75° | 9 |
| 85° | 11 |
| 90° | 12 |
| 95° | 13 |
| 105° | 13 |
| 115° | 12 |
| 125° | 10 |
| 135° | 7 |
| 145° | 3 |
| 155° | 1 |
| 165° | 0 |
| 175° | 0 |
| 180° | 0 |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-------|
| 0° | 500.4 |
| 2.5° | 500.6 |
| 5° | 499.0 |
| 7.5° | 496.6 |
| 10° | 495.3 |
| 12.5° | 494.4 |
| 15° | 488.1 |
| 17.5° | 472.8 |
| 20° | 446.2 |
| 22.5° | 412.8 |
| 25° | 375.9 |
| 27.5° | 339.2 |
| 30° | 306.1 |
| 32.5° | 274.0 |
| 35° | 245.5 |
| 37.5° | 217.1 |
| 40° | 191.8 |
| 42.5° | 168.0 |
| 45° | 147.5 |
| 47.5° | 129.1 |
| 50° | 112.2 |
| 52.5° | 94.4 |
| 55° | 75.6 |
| 57.5° | 58.5 |
| 60° | 43.2 |
| 62.5° | 31.2 |
| 65° | 23.4 |
| 67.5° | 18.7 |
| 70° | 14.5 |
| 72.5° | 10.6 |
| 75° | 8.9 |
| 77.5° | 8.7 |
| 80° | 9.7 |
| 82.5° | 10.6 |
| 85° | 11.3 |
| 87.5° | 11.8 |
| 90° | 12.2 |
| 92.5° | 12.6 |
| 95° | 13.1 |
| 97.5° | 13.2 |
| 100° | 13.3 |
| 102.5° | 13.2 |
| 105° | 13.4 |
| 107.5° | 13.2 |
| 110° | 13.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 112.5° | 12.6 |
| 115° | 12.3 |
| 117.5° | 11.8 |
| 120° | 11.3 |
| 122.5° | 10.7 |
| 125° | 10.1 |
| 127.5° | 9.2 |
| 130° | 8.5 |
| 132.5° | 7.6 |
| 135° | 6.9 |
| 137.5° | 6.0 |
| 140° | 5.0 |
| 142.5° | 4.2 |
| 145° | 3.2 |
| 147.5° | 2.5 |
| 150° | 1.9 |
| 152.5° | 1.5 |
| 155° | 0.8 |
| 157.5° | 0.3 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)