

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: 19358A

Luminaire Tested: **210-18-CF2/26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19358A
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 210-18-CF2/26
Description: INTERIOR CEILING MOUNT LUMINAIRE WITH WHITE INTERIOR AND WHITE
PLASTIC BOWL
Light Source: TWO 26 WATT CPFL LAMPS. LUMEN RATING = 3600 LMS.

Ballast/Driver: -

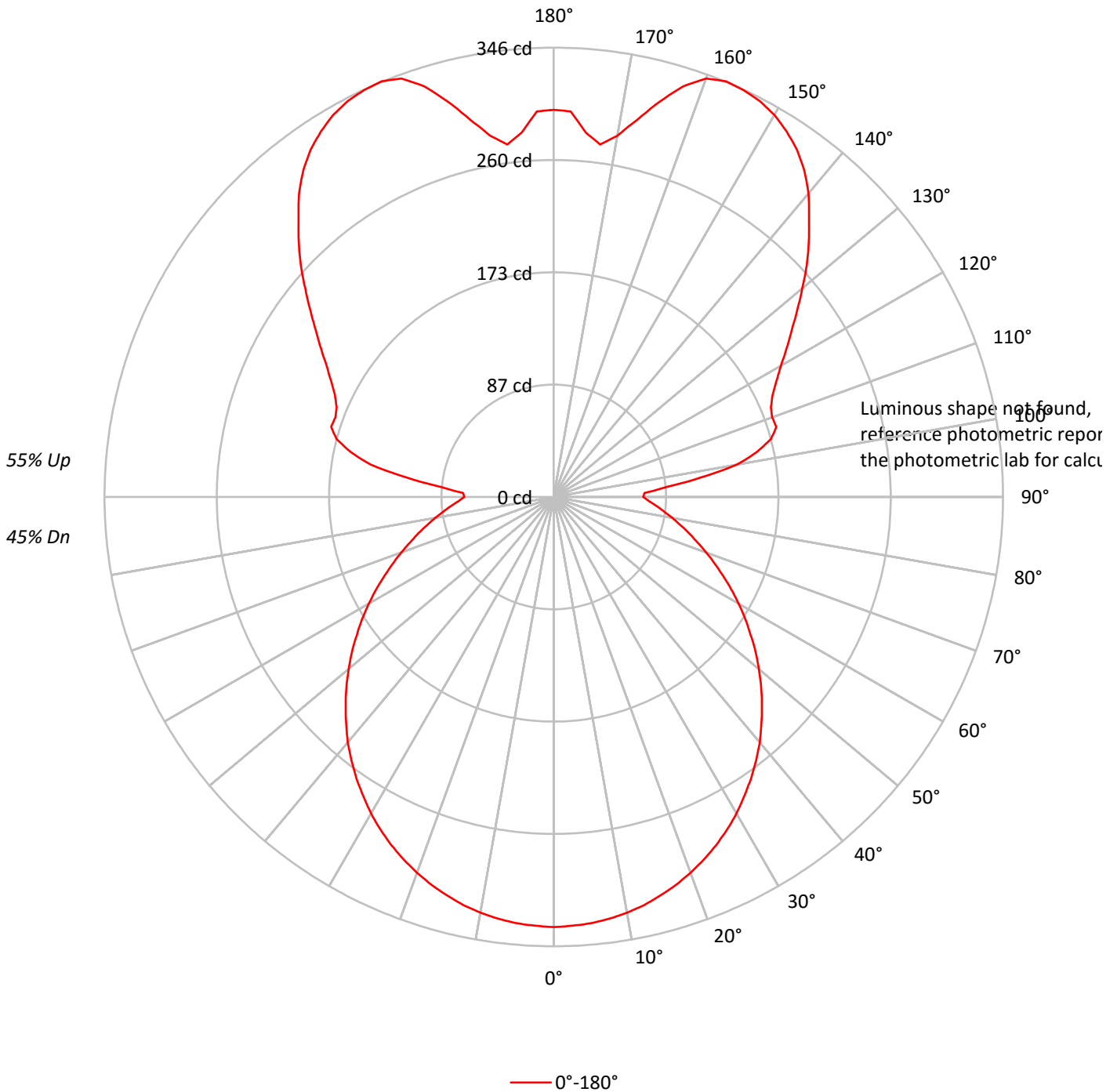
Summary

Lumens per Lamp: 3600 (1 lamp)
Luminaire Lumens: 2470.4 lumens
Efficiency: 68.6%
Efficacy: -
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: (L: 0 ' x W: -1.5 ' x H: 0.46 '
CIE Type: General Diffuse

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 | 73 | 73 | 73 | 73 | 67 | 67 | 67 | 67 | 55 | 55 | 55 | 45 | 45 | 45 | 35 | 35 | 35 | 31 |
| 1 | 65 | 62 | 59 | 56 | 60 | 57 | 54 | 52 | 47 | 45 | 43 | 38 | 37 | 35 | 30 | 29 | 28 | 24 |
| 2 | 59 | 54 | 49 | 45 | 54 | 49 | 45 | 42 | 41 | 38 | 35 | 33 | 31 | 29 | 26 | 24 | 23 | 19 |
| 3 | 54 | 47 | 41 | 37 | 49 | 43 | 38 | 34 | 36 | 32 | 29 | 29 | 26 | 24 | 22 | 21 | 19 | 16 |
| 4 | 49 | 41 | 36 | 31 | 45 | 38 | 33 | 29 | 31 | 28 | 25 | 25 | 23 | 20 | 20 | 18 | 16 | 13 |
| 5 | 45 | 37 | 31 | 27 | 41 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 17 | 18 | 16 | 14 | 12 |
| 6 | 41 | 33 | 27 | 23 | 38 | 30 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 16 | 14 | 12 | 10 |
| 7 | 38 | 29 | 24 | 20 | 35 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 13 | 15 | 12 | 11 | 9 |
| 8 | 35 | 27 | 21 | 18 | 32 | 25 | 20 | 16 | 21 | 17 | 14 | 17 | 14 | 12 | 13 | 11 | 10 | 8 |
| 9 | 33 | 24 | 19 | 16 | 30 | 22 | 18 | 15 | 19 | 15 | 13 | 16 | 13 | 11 | 12 | 10 | 9 | 7 |
| 10 | 31 | 22 | 17 | 14 | 28 | 21 | 16 | 13 | 17 | 14 | 11 | 14 | 11 | 9 | 11 | 9 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 31.3 | 1.3 | 0.9 |
| 10°-20° | 89.7 | 3.6 | 2.5 |
| 20°-30° | 136.4 | 5.5 | 3.8 |
| 30°-40° | 165.7 | 6.7 | 4.6 |
| 40°-50° | 175.1 | 7.1 | 4.9 |
| 50°-60° | 165.9 | 6.7 | 4.6 |
| 60°-70° | 142.9 | 5.8 | 4.0 |
| 70°-80° | 114.2 | 4.6 | 3.2 |
| 80°-90° | 87.0 | 3.5 | 2.4 |
| 90°-100° | 102.5 | 4.2 | 2.8 |
| 100°-110° | 178.2 | 7.2 | 5.0 |
| 110°-120° | 186.1 | 7.5 | 5.2 |
| 120°-130° | 201.1 | 8.1 | 5.6 |
| 130°-140° | 214.4 | 8.7 | 6.0 |
| 140°-150° | 203.7 | 8.2 | 5.7 |
| 150°-160° | 159.3 | 6.4 | 4.4 |
| 160°-170° | 90.0 | 3.6 | 2.5 |
| 170°-180° | 26.9 | 1.1 | 0.7 |
| 0°-30° | 257.4 | 10.4 | 7.1 |
| 0°-40° | 423.1 | 17.1 | 11.8 |
| 0°-60° | 764.1 | 30.9 | 21.2 |
| 0°-90° | 1108.2 | 44.9 | 30.8 |
| 90°-120° | 466.9 | 18.9 | 13.0 |
| 90°-150° | 1086.1 | 44.0 | 30.2 |
| 90°-180° | 1362.0 | 55.1 | 37.8 |
| 0°-180° | 2470.4 | 100.0 | 68.6 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 331 | |
| 5° | 330 | 31 |
| 15° | 318 | 90 |
| 25° | 296 | 136 |
| 35° | 265 | 166 |
| 45° | 227 | 175 |
| 55° | 185 | 166 |
| 65° | 144 | 143 |
| 75° | 108 | 114 |
| 85° | 79 | 68 |
| 90° | 69 | 39 |
| 95° | 87 | 84 |
| 105° | 173 | 178 |
| 115° | 186 | 186 |
| 125° | 224 | 201 |
| 135° | 278 | 214 |
| 145° | 326 | 204 |
| 155° | 346 | 159 |
| 165° | 315 | 90 |
| 175° | 282 | 27 |
| 180° | 298 | |

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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|-------|
| 0° | 331.2 |
| 2.5° | 330.5 |
| 5° | 329.5 |
| 7.5° | 327.6 |
| 10° | 325.1 |
| 12.5° | 321.9 |
| 15° | 317.7 |
| 17.5° | 313.2 |
| 20° | 307.9 |
| 22.5° | 302.2 |
| 25° | 295.8 |
| 27.5° | 288.9 |
| 30° | 281.4 |
| 32.5° | 273.0 |
| 35° | 264.8 |
| 37.5° | 255.9 |
| 40° | 246.8 |
| 42.5° | 236.7 |
| 45° | 226.7 |
| 47.5° | 216.6 |
| 50° | 206.1 |
| 52.5° | 196.0 |
| 55° | 185.1 |
| 57.5° | 175.0 |
| 60° | 164.4 |
| 62.5° | 154.2 |
| 65° | 143.9 |
| 67.5° | 134.1 |
| 70° | 124.9 |
| 72.5° | 115.8 |
| 75° | 107.8 |
| 77.5° | 99.8 |
| 80° | 92.6 |
| 82.5° | 85.6 |
| 85° | 79.4 |
| 87.5° | 73.4 |
| 90° | 68.9 |
| 92.5° | 69.9 |
| 95° | 86.6 |
| 97.5° | 113.8 |
| 100° | 143.1 |
| 102.5° | 160.4 |
| 105° | 173.3 |
| 107.5° | 179.7 |
| 110° | 179.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 181.0 |
| 115° | 185.9 |
| 117.5° | 193.3 |
| 120° | 201.9 |
| 122.5° | 212.5 |
| 125° | 223.6 |
| 127.5° | 236.3 |
| 130° | 249.9 |
| 132.5° | 264.3 |
| 135° | 277.7 |
| 137.5° | 290.9 |
| 140° | 305.2 |
| 142.5° | 317.0 |
| 145° | 326.5 |
| 147.5° | 333.7 |
| 150° | 339.7 |
| 152.5° | 343.6 |
| 155° | 345.7 |
| 157.5° | 346.4 |
| 160° | 342.9 |
| 162.5° | 331.6 |
| 165° | 315.1 |
| 167.5° | 297.6 |
| 170° | 282.4 |
| 172.5° | 273.8 |
| 175° | 281.7 |
| 177.5° | 297.2 |
| 180° | 298.0 |

(END OF REPORT)