

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P701674

Luminaire Tested: **RX-WO-50HB2750-UNV-24\_3500K**

Issue Date: 8/21/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P701674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 8/21/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: RX-WO-50HB2750-UNV-24\_3500K  
Description: 2X4 5000 LUMEN CLASS RX TROFFER WITH BIO UP LEDS AT 3500K CCT AND ROUND LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

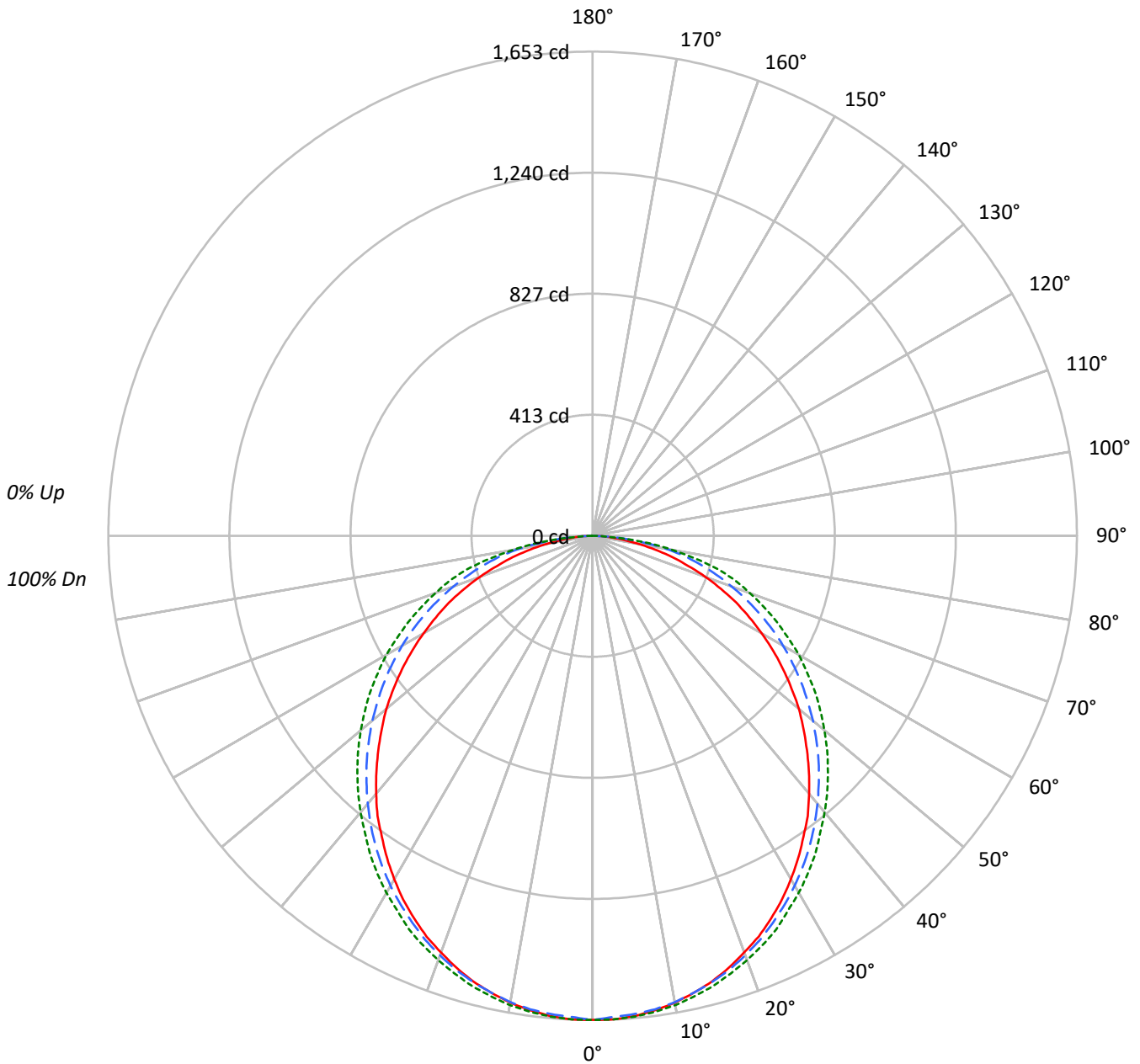
Lumens per Lamp: N/A  
Luminaire Lumens: 4811.0 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 65  | 61  | 68  | 64  | 60  | 57  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 65  | 58  | 52  | 63  | 57  | 52  | 61  | 55  | 51  | 49  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 30  | 25  | 23  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2333 | 2333 | 2333 |
| 5°  | 2332 | 2322 | 2334 |
| 10° | 2319 | 2317 | 2332 |
| 15° | 2302 | 2304 | 2325 |
| 20° | 2273 | 2289 | 2315 |
| 25° | 2245 | 2269 | 2309 |
| 30° | 2206 | 2248 | 2293 |
| 35° | 2161 | 2226 | 2282 |
| 40° | 2118 | 2200 | 2270 |
| 45° | 2064 | 2178 | 2267 |
| 50° | 2018 | 2154 | 2267 |
| 55° | 1953 | 2135 | 2279 |
| 60° | 1882 | 2119 | 2294 |
| 65° | 1807 | 2100 | 2312 |
| 70° | 1687 | 2084 | 2354 |
| 75° | 1537 | 2089 | 2427 |
| 80° | 1270 | 2067 | 2234 |
| 85° | 973  | 1642 | 1585 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 156.3  | 3.2       |
| 10°-20°   | 446.2  | 9.3       |
| 20°-30°   | 673.1  | 14.0      |
| 30°-40°   | 808.1  | 16.8      |
| 40°-50°   | 840.5  | 17.5      |
| 50°-60°   | 773.0  | 16.1      |
| 60°-70°   | 616.0  | 12.8      |
| 70°-80°   | 390.4  | 8.1       |
| 80°-90°   | 107.4  | 2.2       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1275.6 | 26.5      |
| 0°-40°    | 2083.8 | 43.3      |
| 0°-60°    | 3697.2 | 76.8      |
| 0°-90°    | 4811.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4811.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1653 | 1653  | 1653 | 1653  | 1653 |      |
| 5°  | 1646 | 1646  | 1639 | 1648  | 1648 | 156  |
| 15° | 1576 | 1576  | 1577 | 1589  | 1591 | 444  |
| 25° | 1442 | 1448  | 1457 | 1478  | 1483 | 664  |
| 35° | 1254 | 1268  | 1292 | 1316  | 1325 | 786  |
| 45° | 1034 | 1057  | 1091 | 1125  | 1136 | 799  |
| 55° | 794  | 820   | 868  | 911   | 926  | 709  |
| 65° | 541  | 569   | 629  | 677   | 692  | 533  |
| 75° | 282  | 318   | 383  | 431   | 445  | 296  |
| 85° | 60   | 86    | 101  | 100   | 98   | 72   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1652.8 | 1652.8 | 1652.8 | 1652.8 | 1652.8 |
| 2.5°  | 1652.8 | 1652.8 | 1644.2 | 1652.8 | 1652.8 |
| 5°    | 1646.0 | 1646.0 | 1639.1 | 1647.7 | 1647.7 |
| 7.5°  | 1633.9 | 1635.7 | 1630.5 | 1639.1 | 1639.1 |
| 10°   | 1618.5 | 1620.2 | 1616.8 | 1627.1 | 1627.1 |
| 12.5° | 1597.9 | 1599.6 | 1597.9 | 1609.9 | 1609.9 |
| 15°   | 1575.5 | 1575.5 | 1577.2 | 1589.3 | 1591.0 |
| 17.5° | 1546.3 | 1549.7 | 1553.2 | 1566.9 | 1566.9 |
| 20°   | 1513.7 | 1518.8 | 1524.0 | 1541.2 | 1541.2 |
| 22.5° | 1481.0 | 1486.2 | 1493.0 | 1510.2 | 1513.7 |
| 25°   | 1441.5 | 1448.4 | 1457.0 | 1477.6 | 1482.7 |
| 27.5° | 1400.3 | 1405.4 | 1419.2 | 1441.5 | 1443.2 |
| 30°   | 1353.9 | 1362.5 | 1379.7 | 1402.0 | 1407.1 |
| 32.5° | 1305.8 | 1317.8 | 1336.7 | 1362.5 | 1367.6 |
| 35°   | 1254.2 | 1268.0 | 1292.0 | 1316.1 | 1324.7 |
| 37.5° | 1206.1 | 1216.4 | 1243.9 | 1271.4 | 1276.6 |
| 40°   | 1149.4 | 1164.9 | 1194.1 | 1225.0 | 1231.9 |
| 42.5° | 1092.7 | 1109.9 | 1142.6 | 1173.5 | 1185.5 |
| 45°   | 1034.3 | 1056.6 | 1091.0 | 1125.4 | 1135.7 |
| 47.5° | 975.9  | 999.9  | 1036.0 | 1073.8 | 1085.9 |
| 50°   | 919.2  | 941.5  | 981.0  | 1020.6 | 1032.6 |
| 52.5° | 855.6  | 881.4  | 924.3  | 967.3  | 979.3  |
| 55°   | 793.8  | 819.5  | 867.7  | 910.6  | 926.1  |
| 57.5° | 730.2  | 759.4  | 809.2  | 853.9  | 867.7  |
| 60°   | 666.6  | 697.6  | 750.8  | 795.5  | 812.7  |
| 62.5° | 603.1  | 632.3  | 690.7  | 735.4  | 750.8  |
| 65°   | 541.2  | 568.7  | 628.8  | 676.9  | 692.4  |
| 67.5° | 474.2  | 505.1  | 567.0  | 616.8  | 630.6  |
| 70°   | 408.9  | 439.8  | 505.1  | 556.7  | 570.4  |
| 72.5° | 341.9  | 378.0  | 443.3  | 493.1  | 512.0  |
| 75°   | 281.8  | 317.9  | 383.1  | 431.2  | 445.0  |
| 77.5° | 218.2  | 254.3  | 321.3  | 355.7  | 357.4  |
| 80°   | 156.3  | 197.6  | 254.3  | 268.0  | 274.9  |
| 82.5° | 103.1  | 142.6  | 175.2  | 192.4  | 192.4  |
| 85°   | 60.1   | 85.9   | 101.4  | 99.7   | 97.9   |
| 87.5° | 22.3   | 29.2   | 24.1   | 17.2   | 12.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)