

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: P412533

Luminaire Tested: **24PD-55-PB1-L830**

Issue Date: 9/15/2020



**Test Information**

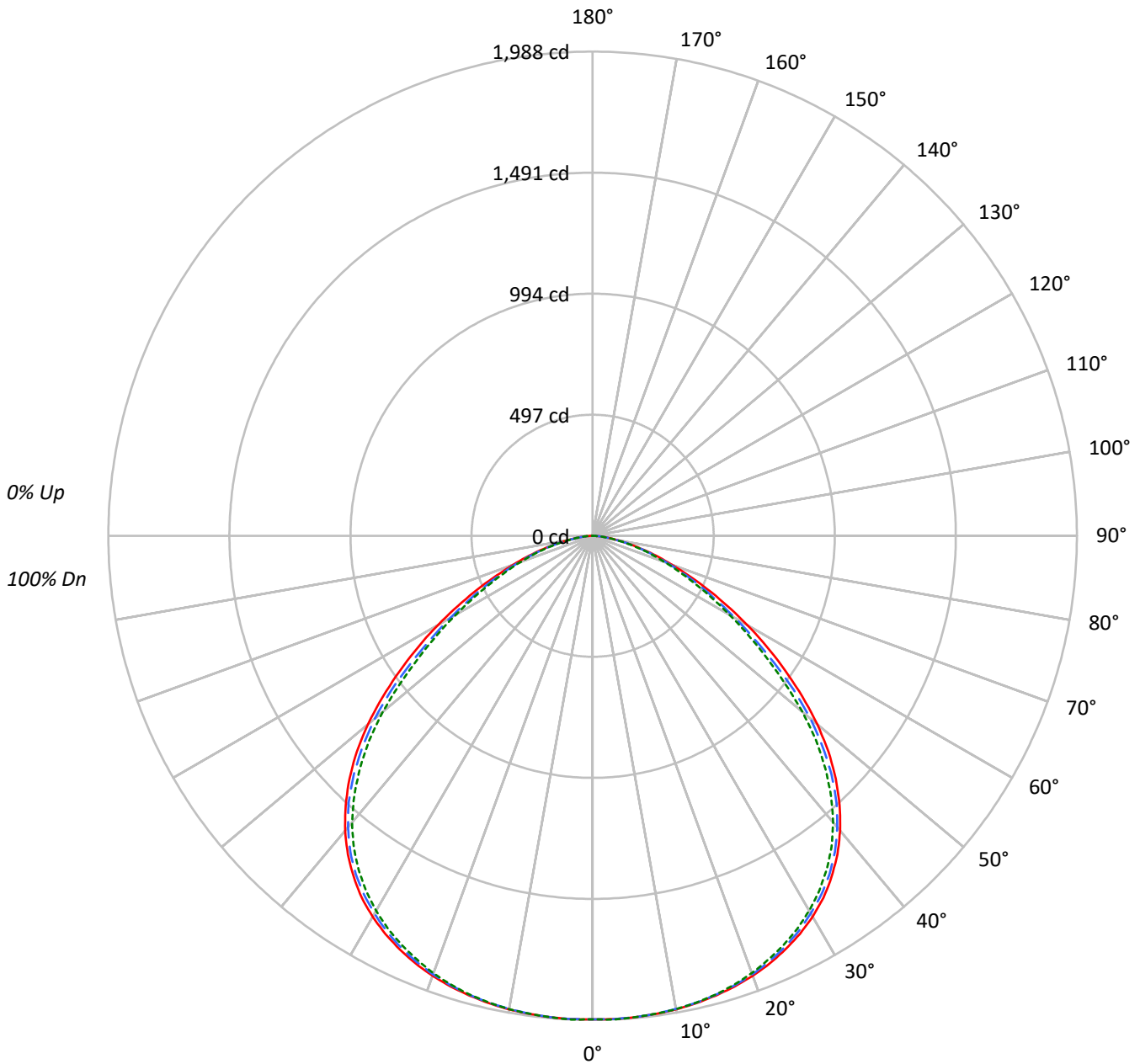
Test Method: LM-79-08  
Report Number: P412533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-55-PB1-L830  
Description: 5500 LUMEN 2X4 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5283.0 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.32 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.2  
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   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 92  | 83  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 63  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 85  | 74  | 65  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 65  | 60  | 56  | 54  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 56  | 50  | 61  | 55  | 50  | 59  | 54  | 49  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 72  | 60  | 51  | 45  | 70  | 59  | 51  | 45  | 57  | 50  | 44  | 55  | 49  | 44  | 54  | 48  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 67  | 54  | 46  | 40  | 65  | 53  | 45  | 40  | 52  | 45  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 63  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2671 | 2671 | 2671 |
| 5°  | 2680 | 2680 | 2680 |
| 10° | 2698 | 2695 | 2696 |
| 15° | 2722 | 2719 | 2717 |
| 20° | 2753 | 2744 | 2737 |
| 25° | 2782 | 2768 | 2752 |
| 30° | 2806 | 2783 | 2762 |
| 35° | 2809 | 2785 | 2750 |
| 40° | 2777 | 2744 | 2698 |
| 45° | 2686 | 2637 | 2569 |
| 50° | 2519 | 2441 | 2352 |
| 55° | 2264 | 2129 | 2042 |
| 60° | 1971 | 1814 | 1745 |
| 65° | 1659 | 1535 | 1468 |
| 70° | 1352 | 1284 | 1232 |
| 75° | 1083 | 1045 | 1001 |
| 80° | 831  | 766  | 746  |
| 85° | 520  | 503  | 503  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 189.0  | 3.6       |
| 10°-20°   | 551.7  | 10.4      |
| 20°-30°   | 859.5  | 16.3      |
| 30°-40°   | 1057.4 | 20.0      |
| 40°-50°   | 1062.1 | 20.1      |
| 50°-60°   | 818.6  | 15.5      |
| 60°-70°   | 486.0  | 9.2       |
| 70°-80°   | 216.4  | 4.1       |
| 80°-90°   | 42.2   | 0.8       |
| 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°    | 1600.3 | 30.3      |
| 0°-40°    | 2657.7 | 50.3      |
| 0°-60°    | 4538.4 | 85.9      |
| 0°-90°    | 5283.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5283.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1985 | 1985  | 1985 | 1985  | 1985 |      |
| 5°  | 1984 | 1985  | 1984 | 1982  | 1984 | 189  |
| 15° | 1954 | 1954  | 1952 | 1949  | 1950 | 553  |
| 25° | 1874 | 1873  | 1864 | 1856  | 1854 | 864  |
| 35° | 1710 | 1708  | 1696 | 1681  | 1674 | 1068 |
| 45° | 1412 | 1408  | 1386 | 1363  | 1350 | 1084 |
| 55° | 965  | 947   | 908  | 880   | 870  | 863  |
| 65° | 521  | 498   | 482  | 464   | 461  | 521  |
| 75° | 208  | 204   | 201  | 194   | 193  | 226  |
| 85° | 34   | 32    | 33   | 31    | 33   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°            | 22.5°         | 45°           | 67.5°         | 90°           |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0°    | 1985.4        | 1985.4        | 1985.4        | 1985.4        | <i>1985.4</i> |
| 2.5°  | <i>1986.5</i> | <i>1985.9</i> | <i>1985.9</i> | <i>1983.8</i> | <i>1988.1</i> |
| 5°    | 1984.4        | 1984.9        | 1984.4        | 1982.3        | <i>1984.4</i> |
| 7.5°  | 1980.2        | 1980.7        | 1979.6        | 1977.5        | <i>1979.6</i> |
| 10°   | 1974.9        | 1974.9        | 1972.8        | 1971.7        | <i>1973.3</i> |
| 12.5° | 1965.9        | 1965.9        | 1963.8        | 1962.3        | <i>1963.8</i> |
| 15°   | 1954.4        | 1954.4        | 1951.7        | 1948.6        | <i>1950.2</i> |
| 17.5° | 1940.2        | 1940.2        | 1936.0        | 1931.7        | <i>1932.8</i> |
| 20°   | 1922.8        | 1922.3        | 1916.5        | 1910.7        | <i>1911.2</i> |
| 22.5° | 1900.7        | 1900.2        | 1892.8        | 1886.0        | <i>1883.9</i> |
| 25°   | 1873.9        | 1873.3        | 1864.4        | 1856.0        | <i>1853.9</i> |
| 27.5° | 1842.8        | 1840.7        | 1830.7        | 1821.2        | <i>1819.1</i> |
| 30°   | 1806.0        | 1804.4        | 1791.2        | 1781.8        | <i>1777.6</i> |
| 32.5° | 1763.4        | 1759.1        | 1747.0        | 1735.5        | <i>1729.7</i> |
| 35°   | 1710.2        | 1707.6        | 1695.5        | 1681.3        | <i>1674.4</i> |
| 37.5° | 1650.2        | 1647.6        | 1634.4        | 1618.6        | <i>1610.8</i> |
| 40°   | 1580.8        | 1578.7        | 1562.3        | 1546.0        | <i>1536.0</i> |
| 42.5° | 1500.8        | 1499.2        | 1481.8        | 1459.2        | <i>1448.7</i> |
| 45°   | 1411.8        | 1408.2        | 1386.1        | 1362.9        | <i>1350.3</i> |
| 47.5° | 1312.9        | 1306.6        | 1279.8        | 1257.7        | <i>1244.0</i> |
| 50°   | 1203.5        | 1195.0        | 1166.1        | 1137.7        | <i>1123.5</i> |
| 52.5° | 1085.1        | 1070.3        | 1040.3        | 1007.7        | <i>994.0</i>  |
| 55°   | 965.1         | 946.7         | 907.7         | 880.4         | <i>870.4</i>  |
| 57.5° | 847.7         | 820.9         | 784.1         | 764.6         | <i>754.6</i>  |
| 60°   | 732.5         | 703.0         | 674.1         | 655.1         | <i>648.3</i>  |
| 62.5° | 622.5         | 597.8         | 573.1         | 554.1         | <i>549.9</i>  |
| 65°   | 521.0         | 498.3         | 482.0         | 463.6         | <i>461.0</i>  |
| 67.5° | 426.2         | 415.7         | 401.0         | 385.2         | <i>383.1</i>  |
| 70°   | 343.6         | 339.4         | 326.3         | 316.8         | <i>313.1</i>  |
| 72.5° | 274.2         | 269.9         | 260.5         | 253.6         | <i>252.6</i>  |
| 75°   | 208.4         | 204.2         | 201.0         | 194.2         | <i>192.6</i>  |
| 77.5° | 148.4         | 148.9         | 146.3         | 142.6         | <i>143.7</i>  |
| 80°   | 107.3         | 101.0         | 98.9          | 96.8          | <i>96.3</i>   |
| 82.5° | 65.8          | 62.1          | 60.5          | 60.0          | <i>61.0</i>   |
| 85°   | 33.7          | 32.1          | 32.6          | 31.0          | <i>32.6</i>   |
| 87.5° | 11.6          | 11.6          | 12.1          | 11.6          | <i>12.6</i>   |
| 90°   | 0.0           | 0.0           | 0.0           | 0.0           | <i>0.0</i>    |



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







(END OF REPORT)