

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: P412924

Luminaire Tested: **24PD-80-PP3-L927**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-80-PP3-L927
Description: 8000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

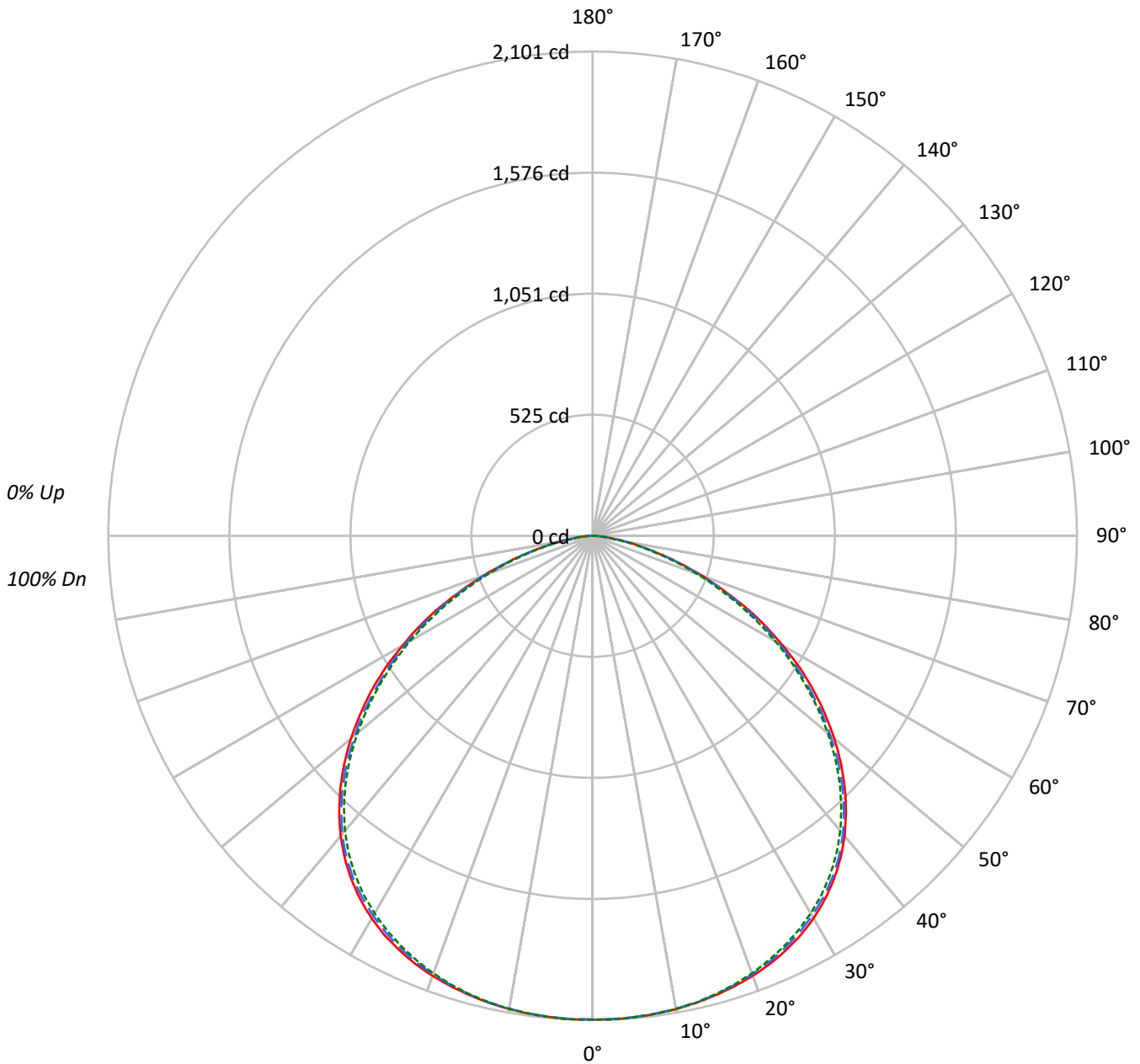
Lumens per Lamp: N/A
Luminaire Lumens: 6108.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
Input Voltage (V): NR
Input Current (A_{in}): 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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 63 | 60 | | | | | | | | | | | | | | | | | | | |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | | | | | | | | | | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2824 | 2824 | 2824 |
| 5° | 2832 | 2831 | 2833 |
| 10° | 2850 | 2846 | 2849 |
| 15° | 2875 | 2870 | 2869 |
| 20° | 2909 | 2900 | 2893 |
| 25° | 2946 | 2931 | 2917 |
| 30° | 2979 | 2958 | 2939 |
| 35° | 2995 | 2977 | 2950 |
| 40° | 2987 | 2969 | 2935 |
| 45° | 2944 | 2915 | 2883 |
| 50° | 2863 | 2817 | 2788 |
| 55° | 2745 | 2679 | 2645 |
| 60° | 2558 | 2513 | 2462 |
| 65° | 2318 | 2272 | 2206 |
| 70° | 1979 | 1943 | 1880 |
| 75° | 1546 | 1529 | 1457 |
| 80° | 1140 | 1093 | 1031 |
| 85° | 689 | 689 | 641 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 199.7 | 3.3 |
| 10°-20° | 582.8 | 9.5 |
| 20°-30° | 910.9 | 14.9 |
| 30°-40° | 1132.1 | 18.5 |
| 40°-50° | 1179.5 | 19.3 |
| 50°-60° | 1023.5 | 16.8 |
| 60°-70° | 703.8 | 11.5 |
| 70°-80° | 317.6 | 5.2 |
| 80°-90° | 58.2 | 1.0 |
| 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° | 1693.4 | 27.7 |
| 0°-40° | 2825.4 | 46.3 |
| 0°-60° | 5028.4 | 82.3 |
| 0°-90° | 6108.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6108.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2099 | 2099 | 2099 | 2099 | 2099 | |
| 5° | 2097 | 2097 | 2096 | 2094 | 2097 | 200 |
| 15° | 2064 | 2064 | 2061 | 2059 | 2060 | 584 |
| 25° | 1984 | 1984 | 1974 | 1966 | 1965 | 915 |
| 35° | 1823 | 1823 | 1812 | 1802 | 1796 | 1139 |
| 45° | 1547 | 1548 | 1532 | 1520 | 1515 | 1191 |
| 55° | 1170 | 1163 | 1142 | 1129 | 1127 | 1043 |
| 65° | 728 | 725 | 714 | 696 | 693 | 719 |
| 75° | 297 | 298 | 294 | 286 | 280 | 324 |
| 85° | 45 | 44 | 45 | 44 | 42 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412924

CATALOG NUMBER: 24PD-80-PP3-L927

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2099.1 | 2099.1 | 2099.1 | 2099.1 | 2099.1 |
| 2.5° | 2099.8 | 2099.8 | 2098.5 | 2096.7 | 2101.0 |
| 5° | 2096.7 | 2097.3 | 2096.1 | 2094.3 | 2097.3 |
| 7.5° | 2092.4 | 2093.0 | 2091.2 | 2089.4 | 2091.8 |
| 10° | 2085.7 | 2085.1 | 2083.3 | 2082.1 | 2085.1 |
| 12.5° | 2075.9 | 2075.3 | 2073.5 | 2072.3 | 2074.7 |
| 15° | 2063.7 | 2063.7 | 2060.7 | 2058.9 | 2059.5 |
| 17.5° | 2049.1 | 2049.1 | 2044.8 | 2040.5 | 2041.8 |
| 20° | 2032.0 | 2031.4 | 2025.3 | 2021.0 | 2020.4 |
| 22.5° | 2010.6 | 2010.6 | 2002.1 | 1996.6 | 1994.8 |
| 25° | 1984.4 | 1983.8 | 1974.0 | 1966.1 | 1964.9 |
| 27.5° | 1954.5 | 1953.3 | 1941.7 | 1933.7 | 1930.7 |
| 30° | 1917.2 | 1916.0 | 1903.8 | 1895.3 | 1891.6 |
| 32.5° | 1873.3 | 1875.1 | 1861.1 | 1851.3 | 1847.7 |
| 35° | 1823.2 | 1823.2 | 1812.3 | 1801.9 | 1795.8 |
| 37.5° | 1765.9 | 1765.9 | 1755.5 | 1745.1 | 1737.8 |
| 40° | 1700.6 | 1701.2 | 1690.2 | 1677.4 | 1671.3 |
| 42.5° | 1627.3 | 1628.5 | 1613.9 | 1603.5 | 1596.8 |
| 45° | 1547.3 | 1548.0 | 1532.1 | 1520.5 | 1515.0 |
| 47.5° | 1460.7 | 1459.4 | 1441.7 | 1432.0 | 1426.5 |
| 50° | 1367.9 | 1365.4 | 1345.9 | 1336.8 | 1331.9 |
| 52.5° | 1270.8 | 1266.0 | 1248.9 | 1235.4 | 1231.2 |
| 55° | 1170.1 | 1163.4 | 1142.0 | 1128.6 | 1127.4 |
| 57.5° | 1065.1 | 1057.2 | 1039.5 | 1026.7 | 1021.8 |
| 60° | 950.4 | 948.6 | 933.9 | 918.6 | 915.0 |
| 62.5° | 843.0 | 837.5 | 824.6 | 806.3 | 804.5 |
| 65° | 728.2 | 725.1 | 713.5 | 696.5 | 692.8 |
| 67.5° | 609.8 | 612.8 | 603.1 | 587.8 | 582.9 |
| 70° | 503.0 | 504.8 | 493.8 | 479.8 | 477.9 |
| 72.5° | 395.5 | 398.6 | 389.4 | 380.3 | 378.4 |
| 75° | 297.3 | 298.5 | 294.2 | 286.3 | 280.2 |
| 77.5° | 211.2 | 215.5 | 210.6 | 205.1 | 200.2 |
| 80° | 147.1 | 140.4 | 141.0 | 138.6 | 133.1 |
| 82.5° | 88.5 | 85.5 | 84.8 | 82.4 | 80.0 |
| 85° | 44.6 | 43.9 | 44.6 | 43.9 | 41.5 |
| 87.5° | 14.6 | 15.9 | 16.5 | 16.5 | 15.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)