

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: P412805

Luminaire Tested: **22PD-80-PP3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-16)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-80-PP3-L840
Description: 8000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

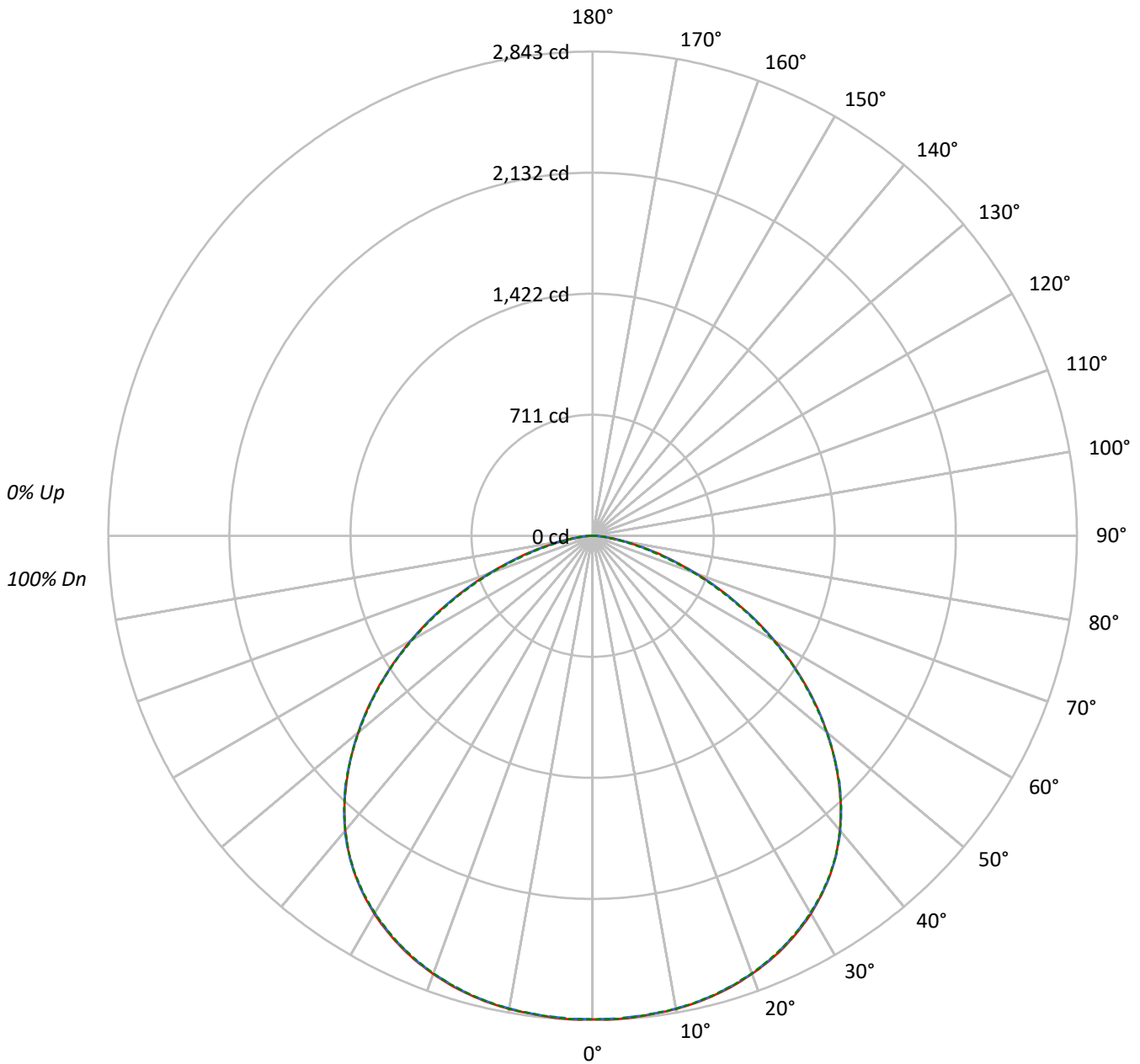
Lumens per Lamp: N/A
Luminaire Lumens: 8146.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 73.4
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 | 87 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 47 | 57 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 | | | | | | | | | | | | | | | | | | | |
| 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° | 7640 | 7640 | 7640 |
| 5° | 7664 | 7654 | 7659 |
| 10° | 7712 | 7701 | 7706 |
| 15° | 7772 | 7765 | 7765 |
| 20° | 7840 | 7832 | 7829 |
| 25° | 7910 | 7895 | 7895 |
| 30° | 7965 | 7950 | 7947 |
| 35° | 7988 | 7988 | 7979 |
| 40° | 7936 | 7952 | 7936 |
| 45° | 7778 | 7800 | 7789 |
| 50° | 7517 | 7528 | 7509 |
| 55° | 7156 | 7138 | 7125 |
| 60° | 6643 | 6627 | 6577 |
| 65° | 5934 | 5927 | 5861 |
| 70° | 5072 | 5042 | 4930 |
| 75° | 4041 | 3923 | 3804 |
| 80° | 2879 | 2820 | 2673 |
| 85° | 1874 | 1874 | 1815 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 270.0 | 3.3 |
| 10°-20° | 787.6 | 9.7 |
| 20°-30° | 1226.4 | 15.1 |
| 30°-40° | 1517.9 | 18.6 |
| 40°-50° | 1573.9 | 19.3 |
| 50°-60° | 1356.6 | 16.7 |
| 60°-70° | 922.3 | 11.3 |
| 70°-80° | 412.7 | 5.1 |
| 80°-90° | 78.6 | 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° | 2284.0 | 28.0 |
| 0°-40° | 3801.8 | 46.7 |
| 0°-60° | 6732.4 | 82.6 |
| 0°-90° | 8146.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8146.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2839 | 2839 | 2839 | 2839 | 2839 | |
| 5° | 2837 | 2832 | 2834 | 2833 | 2836 | 270 |
| 15° | 2790 | 2785 | 2787 | 2785 | 2787 | 789 |
| 25° | 2664 | 2660 | 2659 | 2658 | 2659 | 1228 |
| 35° | 2432 | 2429 | 2432 | 2428 | 2429 | 1519 |
| 45° | 2044 | 2042 | 2050 | 2045 | 2047 | 1573 |
| 55° | 1525 | 1520 | 1522 | 1519 | 1519 | 1360 |
| 65° | 932 | 940 | 931 | 928 | 920 | 925 |
| 75° | 389 | 390 | 377 | 375 | 366 | 418 |
| 85° | 61 | 63 | 61 | 59 | 59 | 80 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412805

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2839.2 | 2839.2 | 2839.2 | 2839.2 | 2839.2 |
| 2.5° | 2843.0 | 2837.3 | 2837.3 | 2838.3 | 2841.1 |
| 5° | 2837.3 | 2831.7 | 2833.6 | 2832.6 | 2835.5 |
| 7.5° | 2829.8 | 2825.0 | 2827.9 | 2826.0 | 2827.9 |
| 10° | 2822.2 | 2817.4 | 2818.4 | 2817.4 | 2820.3 |
| 12.5° | 2808.9 | 2803.2 | 2805.1 | 2805.1 | 2806.1 |
| 15° | 2789.9 | 2785.2 | 2787.1 | 2785.2 | 2787.1 |
| 17.5° | 2767.2 | 2761.5 | 2762.5 | 2761.5 | 2763.4 |
| 20° | 2737.8 | 2734.0 | 2735.0 | 2733.1 | 2734.0 |
| 22.5° | 2704.6 | 2699.9 | 2700.8 | 2698.9 | 2698.9 |
| 25° | 2663.9 | 2660.1 | 2659.1 | 2658.2 | 2659.1 |
| 27.5° | 2616.5 | 2611.7 | 2611.7 | 2610.8 | 2610.8 |
| 30° | 2563.4 | 2558.6 | 2558.6 | 2557.7 | 2557.7 |
| 32.5° | 2500.8 | 2498.9 | 2499.9 | 2498.0 | 2497.0 |
| 35° | 2431.6 | 2428.8 | 2431.6 | 2427.8 | 2428.8 |
| 37.5° | 2351.0 | 2347.2 | 2352.9 | 2349.1 | 2350.1 |
| 40° | 2259.1 | 2257.2 | 2263.8 | 2261.0 | 2259.1 |
| 42.5° | 2156.7 | 2156.7 | 2159.5 | 2160.5 | 2158.6 |
| 45° | 2043.9 | 2042.0 | 2049.6 | 2044.8 | 2046.7 |
| 47.5° | 1922.5 | 1919.7 | 1925.4 | 1924.4 | 1923.5 |
| 50° | 1795.5 | 1793.6 | 1798.3 | 1793.6 | 1793.6 |
| 52.5° | 1663.7 | 1662.8 | 1663.7 | 1659.0 | 1658.0 |
| 55° | 1525.3 | 1519.6 | 1521.5 | 1518.7 | 1518.7 |
| 57.5° | 1381.2 | 1374.6 | 1375.5 | 1374.6 | 1375.5 |
| 60° | 1234.3 | 1232.4 | 1231.4 | 1226.7 | 1222.0 |
| 62.5° | 1083.6 | 1085.5 | 1084.5 | 1077.9 | 1073.1 |
| 65° | 931.9 | 939.5 | 930.9 | 928.1 | 920.5 |
| 67.5° | 788.7 | 791.6 | 785.9 | 779.3 | 770.7 |
| 70° | 644.6 | 650.3 | 640.8 | 634.2 | 626.6 |
| 72.5° | 507.2 | 511.0 | 502.4 | 498.6 | 489.2 |
| 75° | 388.7 | 389.6 | 377.3 | 375.4 | 365.9 |
| 77.5° | 276.8 | 280.6 | 271.1 | 271.1 | 261.6 |
| 80° | 185.8 | 192.4 | 182.0 | 179.2 | 172.5 |
| 82.5° | 116.6 | 117.6 | 114.7 | 111.9 | 109.0 |
| 85° | 60.7 | 62.6 | 60.7 | 58.8 | 58.8 |
| 87.5° | 22.8 | 23.7 | 22.8 | 21.8 | 22.8 |
| 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)