

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: P412943

Luminaire Tested: **24PD-90-PP3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412943
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-90-PP3-L930
Description: 9000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

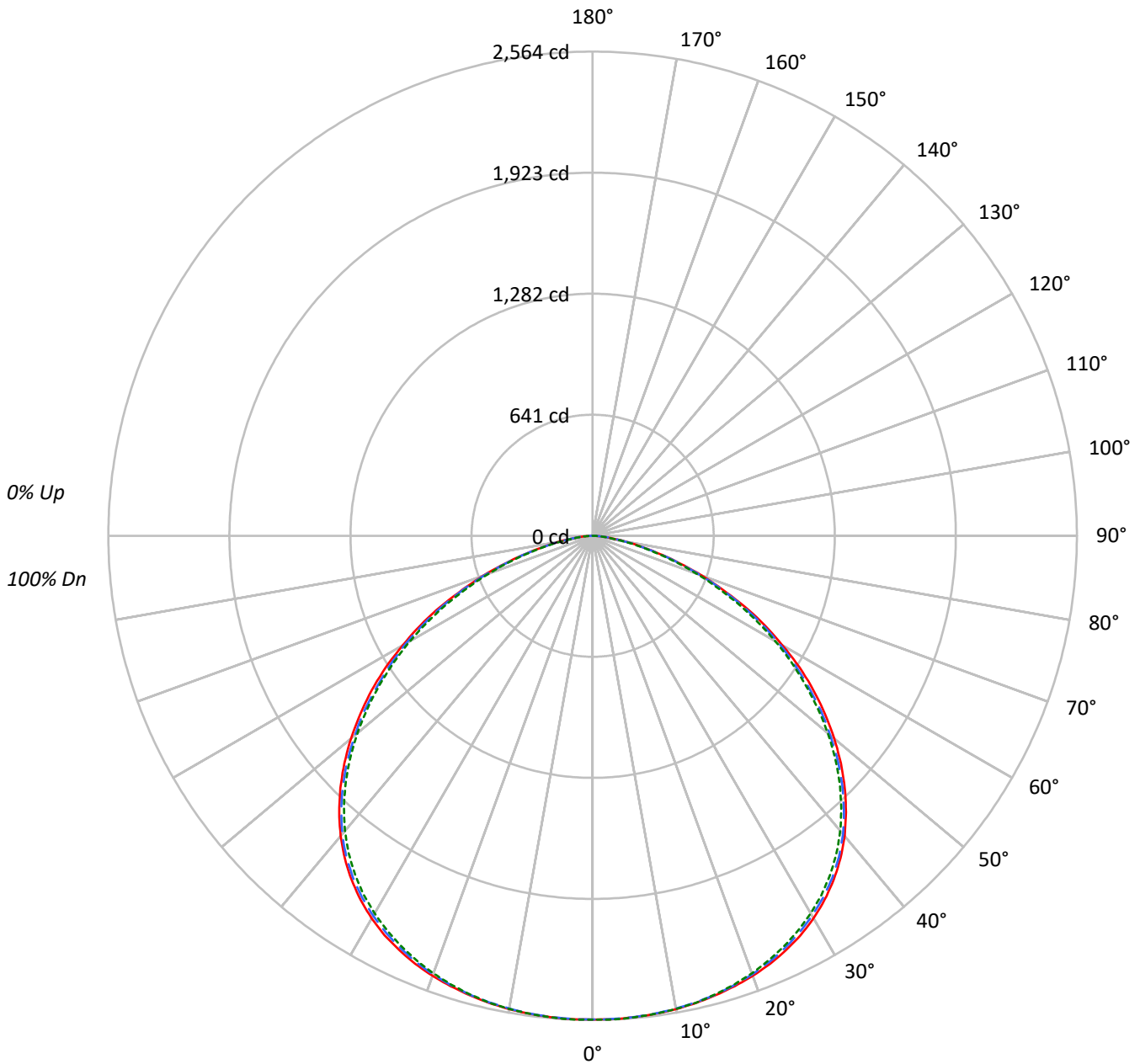
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7454.0 lumens
Efficiency: N/A
Efficacy: 106.9 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): 69.7
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

TEST NUMBER: P412943
CATALOG NUMBER: 24PD-90-PP3-L930

Luminous Intensity Polar Plot





TEST NUMBER: P412943

CATALOG NUMBER: 24PD-90-PP3-L930

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° | 3447 | 3447 | 3447 |
| 5° | 3456 | 3455 | 3457 |
| 10° | 3478 | 3474 | 3477 |
| 15° | 3508 | 3503 | 3501 |
| 20° | 3551 | 3539 | 3530 |
| 25° | 3595 | 3576 | 3560 |
| 30° | 3635 | 3610 | 3587 |
| 35° | 3655 | 3633 | 3600 |
| 40° | 3645 | 3623 | 3582 |
| 45° | 3593 | 3558 | 3518 |
| 50° | 3494 | 3438 | 3402 |
| 55° | 3350 | 3269 | 3227 |
| 60° | 3121 | 3067 | 3005 |
| 65° | 2829 | 2772 | 2692 |
| 70° | 2415 | 2371 | 2295 |
| 75° | 1886 | 1866 | 1777 |
| 80° | 1391 | 1333 | 1258 |
| 85° | 840 | 840 | 783 |



TEST NUMBER: P412943

CATALOG NUMBER: 24PD-90-PP3-L930

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 243.7 | 3.3 |
| 10°-20° | 711.2 | 9.5 |
| 20°-30° | 1111.6 | 14.9 |
| 30°-40° | 1381.5 | 18.5 |
| 40°-50° | 1439.4 | 19.3 |
| 50°-60° | 1249.1 | 16.8 |
| 60°-70° | 858.9 | 11.5 |
| 70°-80° | 387.6 | 5.2 |
| 80°-90° | 71.0 | 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° | 2066.5 | 27.7 |
| 0°-40° | 3448.0 | 46.3 |
| 0°-60° | 6136.5 | 82.3 |
| 0°-90° | 7454.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7454.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2562 | 2562 | 2562 | 2562 | 2562 | |
| 5° | 2559 | 2560 | 2558 | 2556 | 2560 | 244 |
| 15° | 2518 | 2518 | 2515 | 2513 | 2513 | 712 |
| 25° | 2422 | 2421 | 2409 | 2399 | 2398 | 1117 |
| 35° | 2225 | 2225 | 2212 | 2199 | 2192 | 1390 |
| 45° | 1888 | 1889 | 1870 | 1856 | 1849 | 1453 |
| 55° | 1428 | 1420 | 1394 | 1377 | 1376 | 1273 |
| 65° | 889 | 885 | 871 | 850 | 846 | 877 |
| 75° | 363 | 364 | 359 | 349 | 342 | 395 |
| 85° | 54 | 54 | 54 | 54 | 51 | 73 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412943

CATALOG NUMBER: 24PD-90-PP3-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2561.7 | 2561.7 | 2561.7 | 2561.7 | 2561.7 |
| 2.5° | 2562.5 | 2562.5 | 2561.0 | 2558.7 | 2564.0 |
| 5° | 2558.7 | 2559.5 | 2558.0 | 2555.8 | 2559.5 |
| 7.5° | 2553.5 | 2554.3 | 2552.0 | 2549.8 | 2552.8 |
| 10° | 2545.3 | 2544.6 | 2542.4 | 2540.9 | 2544.6 |
| 12.5° | 2533.4 | 2532.7 | 2530.4 | 2528.9 | 2531.9 |
| 15° | 2518.5 | 2518.5 | 2514.8 | 2512.6 | 2513.3 |
| 17.5° | 2500.6 | 2500.6 | 2495.4 | 2490.2 | 2491.7 |
| 20° | 2479.8 | 2479.0 | 2471.6 | 2466.4 | 2465.6 |
| 22.5° | 2453.7 | 2453.7 | 2443.3 | 2436.6 | 2434.3 |
| 25° | 2421.7 | 2420.9 | 2409.0 | 2399.3 | 2397.8 |
| 27.5° | 2385.2 | 2383.7 | 2369.5 | 2359.9 | 2356.1 |
| 30° | 2339.7 | 2338.3 | 2323.4 | 2312.9 | 2308.5 |
| 32.5° | 2286.1 | 2288.3 | 2271.2 | 2259.3 | 2254.8 |
| 35° | 2225.0 | 2225.0 | 2211.6 | 2199.0 | 2191.5 |
| 37.5° | 2155.0 | 2155.0 | 2142.3 | 2129.7 | 2120.7 |
| 40° | 2075.3 | 2076.0 | 2062.6 | 2047.0 | 2039.5 |
| 42.5° | 1985.9 | 1987.4 | 1969.5 | 1956.9 | 1948.7 |
| 45° | 1888.3 | 1889.1 | 1869.7 | 1855.6 | 1848.9 |
| 47.5° | 1782.6 | 1781.1 | 1759.5 | 1747.5 | 1740.8 |
| 50° | 1669.3 | 1666.3 | 1642.5 | 1631.3 | 1625.4 |
| 52.5° | 1550.9 | 1544.9 | 1524.1 | 1507.7 | 1502.5 |
| 55° | 1428.0 | 1419.8 | 1393.7 | 1377.3 | 1375.8 |
| 57.5° | 1299.9 | 1290.2 | 1268.6 | 1252.9 | 1247.0 |
| 60° | 1159.8 | 1157.6 | 1139.7 | 1121.1 | 1116.6 |
| 62.5° | 1028.7 | 1022.0 | 1006.4 | 984.0 | 981.8 |
| 65° | 888.7 | 884.9 | 870.8 | 849.9 | 845.5 |
| 67.5° | 744.2 | 747.9 | 736.0 | 717.3 | 711.4 |
| 70° | 613.8 | 616.0 | 602.6 | 585.5 | 583.3 |
| 72.5° | 482.7 | 486.4 | 475.2 | 464.1 | 461.8 |
| 75° | 362.8 | 364.3 | 359.0 | 349.4 | 341.9 |
| 77.5° | 257.7 | 263.0 | 257.0 | 250.3 | 244.3 |
| 80° | 179.5 | 171.3 | 172.1 | 169.1 | 162.4 |
| 82.5° | 108.0 | 104.3 | 103.5 | 100.6 | 97.6 |
| 85° | 54.4 | 53.6 | 54.4 | 53.6 | 50.7 |
| 87.5° | 17.9 | 19.4 | 20.1 | 20.1 | 18.6 |
| 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)