

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: P506567

Luminaire Tested: **24PD-30-PL1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-30-PL1-L840
Description: 3000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

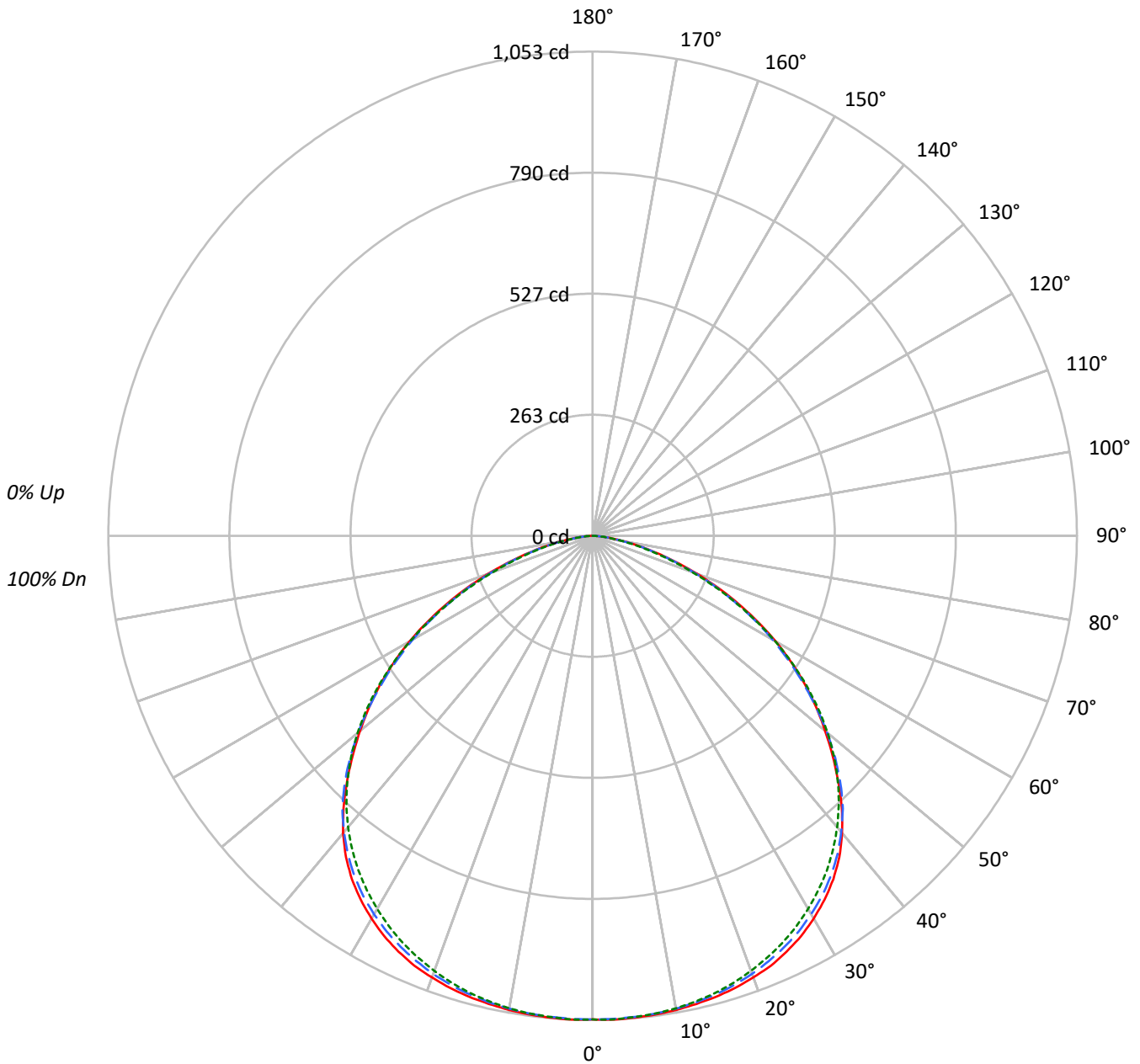
Lumens per Lamp: N/A
Luminaire Lumens: 3017.9 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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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CATALOG NUMBER: 24PD-30-PL1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P506567

CATALOG NUMBER: 24PD-30-PL1-L840

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 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 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 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 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 | 30 | 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° | 1415 | 1415 | 1415 |
| 5° | 1421 | 1419 | 1419 |
| 10° | 1431 | 1427 | 1426 |
| 15° | 1446 | 1439 | 1434 |
| 20° | 1464 | 1452 | 1442 |
| 25° | 1482 | 1465 | 1450 |
| 30° | 1494 | 1476 | 1456 |
| 35° | 1498 | 1483 | 1459 |
| 40° | 1482 | 1477 | 1453 |
| 45° | 1437 | 1450 | 1435 |
| 50° | 1382 | 1392 | 1397 |
| 55° | 1322 | 1312 | 1331 |
| 60° | 1237 | 1216 | 1232 |
| 65° | 1112 | 1090 | 1089 |
| 70° | 947 | 926 | 904 |
| 75° | 746 | 729 | 699 |
| 80° | 533 | 518 | 489 |
| 85° | 316 | 312 | 289 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.1 | 3.3 |
| 10°-20° | 292.0 | 9.7 |
| 20°-30° | 455.2 | 15.1 |
| 30°-40° | 563.3 | 18.7 |
| 40°-50° | 583.9 | 19.3 |
| 50°-60° | 502.7 | 16.7 |
| 60°-70° | 341.1 | 11.3 |
| 70°-80° | 152.2 | 5.0 |
| 80°-90° | 27.4 | 0.9 |
| 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° | 847.3 | 28.1 |
| 0°-40° | 1410.6 | 46.7 |
| 0°-60° | 2497.2 | 82.7 |
| 0°-90° | 3017.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3017.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1052 | 1052 | 1052 | 1052 | 1052 | |
| 5° | 1052 | 1051 | 1050 | 1050 | 1051 | 100 |
| 15° | 1038 | 1035 | 1033 | 1030 | 1030 | 293 |
| 25° | 998 | 994 | 987 | 980 | 977 | 460 |
| 35° | 912 | 910 | 903 | 893 | 888 | 569 |
| 45° | 755 | 759 | 762 | 759 | 754 | 582 |
| 55° | 564 | 564 | 559 | 566 | 568 | 503 |
| 65° | 349 | 351 | 342 | 339 | 342 | 346 |
| 75° | 144 | 145 | 140 | 137 | 134 | 156 |
| 85° | 20 | 21 | 20 | 20 | 19 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24PD-30-PL1-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1052.0 | 1052.0 | 1052.0 | 1052.0 | 1052.0 |
| 2.5° | 1053.4 | 1051.1 | 1051.4 | 1051.7 | 1052.9 |
| 5° | 1052.0 | 1050.6 | 1050.3 | 1050.3 | 1050.6 |
| 7.5° | 1050.3 | 1048.6 | 1048.3 | 1048.0 | 1048.0 |
| 10° | 1047.1 | 1045.4 | 1044.2 | 1043.7 | 1043.4 |
| 12.5° | 1042.8 | 1040.8 | 1039.3 | 1038.2 | 1037.3 |
| 15° | 1037.9 | 1035.0 | 1032.7 | 1030.4 | 1029.5 |
| 17.5° | 1031.0 | 1028.4 | 1024.4 | 1020.6 | 1019.2 |
| 20° | 1022.3 | 1019.7 | 1014.0 | 1008.8 | 1006.8 |
| 22.5° | 1012.3 | 1008.5 | 1001.3 | 995.5 | 992.7 |
| 25° | 998.1 | 994.4 | 986.9 | 979.7 | 976.8 |
| 27.5° | 981.7 | 978.3 | 970.2 | 961.6 | 958.1 |
| 30° | 961.3 | 959.0 | 950.3 | 940.8 | 937.1 |
| 32.5° | 938.5 | 936.2 | 928.7 | 918.1 | 913.7 |
| 35° | 912.3 | 909.7 | 903.1 | 893.3 | 888.1 |
| 37.5° | 881.2 | 880.3 | 874.0 | 863.9 | 859.0 |
| 40° | 844.0 | 845.8 | 840.9 | 832.2 | 827.3 |
| 42.5° | 801.7 | 805.4 | 805.4 | 797.4 | 792.5 |
| 45° | 755.3 | 758.8 | 762.2 | 759.3 | 753.9 |
| 47.5° | 707.8 | 711.5 | 715.5 | 716.7 | 712.1 |
| 50° | 660.0 | 662.3 | 664.9 | 670.0 | 667.2 |
| 52.5° | 612.4 | 613.3 | 612.4 | 619.3 | 618.8 |
| 55° | 563.5 | 563.7 | 559.1 | 565.5 | 567.5 |
| 57.5° | 512.5 | 513.3 | 505.8 | 509.3 | 513.6 |
| 60° | 459.5 | 460.3 | 452.0 | 452.5 | 457.7 |
| 62.5° | 404.7 | 405.9 | 397.5 | 395.5 | 400.1 |
| 65° | 349.4 | 350.9 | 342.5 | 338.8 | 342.2 |
| 67.5° | 294.4 | 296.1 | 288.4 | 283.7 | 284.6 |
| 70° | 240.8 | 242.3 | 235.3 | 231.0 | 229.9 |
| 72.5° | 189.8 | 191.3 | 185.8 | 181.5 | 179.5 |
| 75° | 143.5 | 144.6 | 140.3 | 137.1 | 134.5 |
| 77.5° | 103.1 | 104.0 | 100.5 | 98.2 | 95.6 |
| 80° | 68.8 | 69.1 | 66.8 | 65.4 | 63.1 |
| 82.5° | 41.2 | 41.5 | 40.0 | 39.5 | 37.7 |
| 85° | 20.5 | 20.7 | 20.2 | 20.2 | 18.7 |
| 87.5° | 7.2 | 6.9 | 7.2 | 7.2 | 6.3 |
| 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)