

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: P505874

Luminaire Tested: **14PD-30-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P505874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-30-PR1-L840
Description: 3000 LUMEN, 1X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

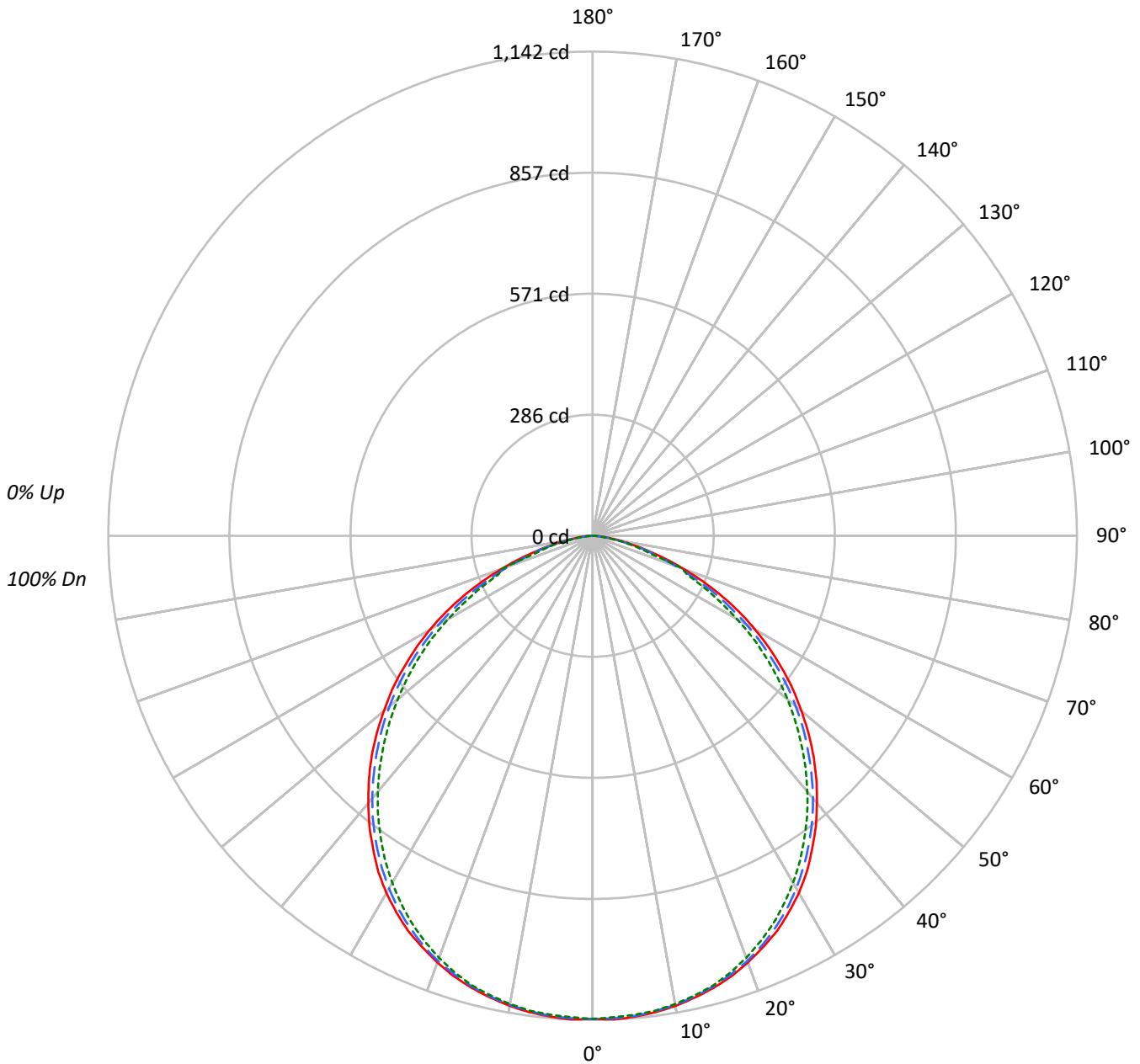
Lumens per Lamp: N/A
Luminaire Lumens: 2932.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | 105 | 101 | 98 | 107 | 103 | 100 | 96 | 99 | 96 | 93 | 95 | 93 | 90 | 91 | 90 | 88 | 86 | | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 | | | |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 54 | 49 | 58 | 53 | 48 | 46 | | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 38 | 48 | 43 | 38 | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 32 | | | |
| 9 | 58 | 45 | 37 | 31 | 57 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | | | |
| 10 | 54 | 41 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3066 | 3066 | 3066 |
| 5° | 3076 | 3071 | 3064 |
| 10° | 3076 | 3070 | 3064 |
| 15° | 3075 | 3066 | 3059 |
| 20° | 3067 | 3056 | 3033 |
| 25° | 3054 | 3028 | 2994 |
| 30° | 3023 | 2984 | 2937 |
| 35° | 2964 | 2920 | 2860 |
| 40° | 2890 | 2840 | 2767 |
| 45° | 2805 | 2736 | 2650 |
| 50° | 2689 | 2617 | 2511 |
| 55° | 2557 | 2457 | 2340 |
| 60° | 2381 | 2257 | 2117 |
| 65° | 2138 | 1987 | 1857 |
| 70° | 1798 | 1638 | 1772 |
| 75° | 1385 | 1332 | 1197 |
| 80° | 996 | 893 | 848 |
| 85° | 611 | 522 | 469 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.0 | 3.7 |
| 10°-20° | 310.3 | 10.6 |
| 20°-30° | 468.6 | 16.0 |
| 30°-40° | 554.4 | 18.9 |
| 40°-50° | 552.8 | 18.9 |
| 50°-60° | 467.0 | 15.9 |
| 60°-70° | 311.2 | 10.6 |
| 70°-80° | 135.2 | 4.6 |
| 80°-90° | 24.5 | 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° | 886.9 | 30.2 |
| 0°-40° | 1441.3 | 49.2 |
| 0°-60° | 2461.1 | 83.9 |
| 0°-90° | 2932.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2932.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1139 | 1139 | 1139 | 1139 | 1139 | |
| 5° | 1139 | 1134 | 1137 | 1136 | 1134 | 108 |
| 15° | 1104 | 1099 | 1100 | 1099 | 1098 | 312 |
| 25° | 1029 | 1022 | 1020 | 1011 | 1008 | 473 |
| 35° | 902 | 896 | 889 | 877 | 871 | 564 |
| 45° | 737 | 730 | 719 | 704 | 696 | 568 |
| 55° | 545 | 541 | 524 | 507 | 499 | 487 |
| 65° | 336 | 332 | 312 | 298 | 292 | 332 |
| 75° | 133 | 130 | 128 | 124 | 115 | 146 |
| 85° | 20 | 20 | 17 | 16 | 15 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1139.3 | 1139.3 | 1139.3 | 1139.3 | 1139.3 |
| 2.5° | 1142.1 | 1137.0 | 1139.3 | 1139.3 | 1136.5 |
| 5° | 1138.7 | 1134.2 | 1137.0 | 1135.9 | 1134.2 |
| 7.5° | 1133.7 | 1129.1 | 1130.8 | 1130.3 | 1129.7 |
| 10° | 1125.8 | 1121.2 | 1123.5 | 1122.4 | 1121.2 |
| 12.5° | 1115.6 | 1111.1 | 1113.3 | 1111.6 | 1110.5 |
| 15° | 1103.7 | 1098.7 | 1100.4 | 1098.7 | 1098.1 |
| 17.5° | 1089.1 | 1084.0 | 1084.6 | 1082.3 | 1080.0 |
| 20° | 1071.0 | 1066.5 | 1067.1 | 1061.4 | 1059.2 |
| 22.5° | 1050.1 | 1045.6 | 1045.1 | 1037.7 | 1034.9 |
| 25° | 1028.7 | 1021.9 | 1019.7 | 1010.6 | 1008.4 |
| 27.5° | 1001.6 | 995.4 | 992.0 | 982.4 | 977.9 |
| 30° | 972.8 | 966.1 | 960.4 | 949.7 | 945.2 |
| 32.5° | 940.1 | 933.3 | 926.0 | 914.7 | 909.6 |
| 35° | 902.3 | 896.1 | 888.8 | 876.9 | 870.7 |
| 37.5° | 864.5 | 857.7 | 850.4 | 836.3 | 831.2 |
| 40° | 822.7 | 816.5 | 808.6 | 793.4 | 787.7 |
| 42.5° | 781.0 | 773.6 | 764.0 | 749.4 | 743.2 |
| 45° | 737.0 | 730.2 | 718.9 | 703.7 | 696.3 |
| 47.5° | 690.7 | 685.0 | 673.2 | 656.8 | 648.9 |
| 50° | 642.2 | 637.6 | 625.2 | 607.2 | 599.8 |
| 52.5° | 595.9 | 589.7 | 575.6 | 557.5 | 549.6 |
| 55° | 545.1 | 541.2 | 523.7 | 506.7 | 498.8 |
| 57.5° | 494.3 | 489.2 | 471.7 | 454.8 | 447.5 |
| 60° | 442.4 | 437.9 | 419.3 | 402.3 | 393.3 |
| 62.5° | 389.9 | 384.8 | 365.1 | 349.9 | 341.4 |
| 65° | 335.8 | 331.8 | 312.1 | 298.5 | 291.7 |
| 67.5° | 281.6 | 278.8 | 257.9 | 246.6 | 241.5 |
| 70° | 228.5 | 224.6 | 208.2 | 203.7 | 225.2 |
| 72.5° | 179.4 | 174.4 | 160.3 | 152.9 | 147.3 |
| 75° | 133.2 | 130.4 | 128.1 | 123.6 | 115.1 |
| 77.5° | 93.7 | 93.1 | 85.2 | 79.0 | 85.2 |
| 80° | 64.3 | 66.6 | 57.6 | 52.5 | 54.7 |
| 82.5° | 39.5 | 44.0 | 34.4 | 30.5 | 29.3 |
| 85° | 19.8 | 20.3 | 16.9 | 15.8 | 15.2 |
| 87.5° | 7.3 | 8.5 | 7.3 | 6.2 | 6.2 |
| 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)