

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: P506900

Luminaire Tested: **24PD-90-PR1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-90-PR1-L840
Description: 9000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

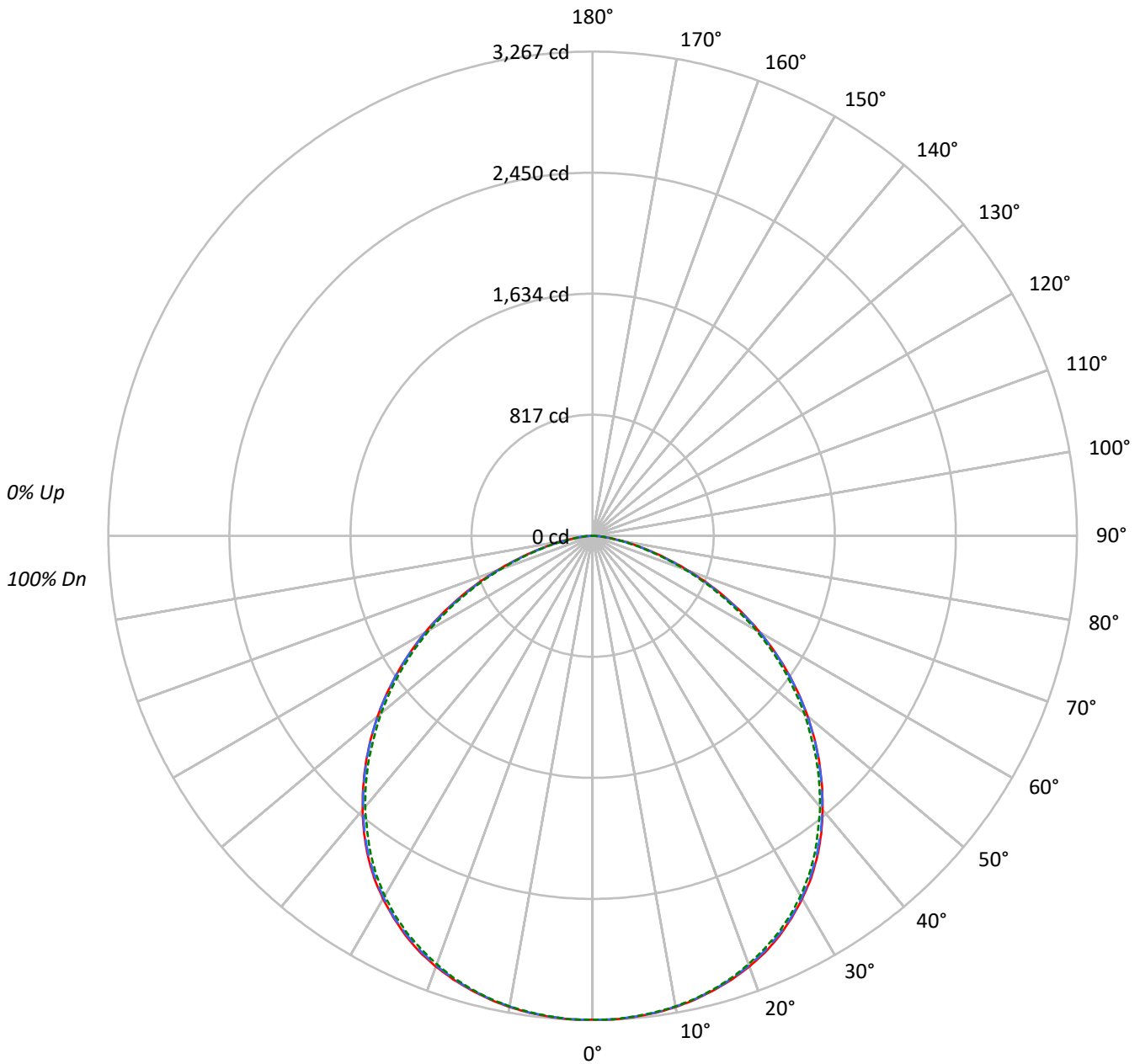
Lumens per Lamp: N/A
Luminaire Lumens: 8792.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P506900

CATALOG NUMBER: 24PD-90-PR1-L840

Luminous Intensity Polar Plot





TEST NUMBER: P506900

CATALOG NUMBER: 24PD-90-PR1-L840

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 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | |
| 3 | 91 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 62 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 52 | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 55 | 49 | 61 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 47 | 42 | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 32 | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4394 | 4394 | 4394 |
| 5° | 4402 | 4399 | 4397 |
| 10° | 4411 | 4407 | 4405 |
| 15° | 4420 | 4414 | 4409 |
| 20° | 4428 | 4418 | 4404 |
| 25° | 4424 | 4411 | 4392 |
| 30° | 4394 | 4382 | 4358 |
| 35° | 4340 | 4326 | 4292 |
| 40° | 4240 | 4229 | 4192 |
| 45° | 4115 | 4109 | 4062 |
| 50° | 3962 | 3960 | 3900 |
| 55° | 3767 | 3759 | 3688 |
| 60° | 3511 | 3497 | 3418 |
| 65° | 3163 | 3125 | 3053 |
| 70° | 2701 | 2661 | 2595 |
| 75° | 2135 | 2087 | 2039 |
| 80° | 1516 | 1477 | 1431 |
| 85° | 911 | 886 | 860 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 309.9 | 3.5 |
| 10°-20° | 894.9 | 10.2 |
| 20°-30° | 1368.1 | 15.6 |
| 30°-40° | 1642.9 | 18.7 |
| 40°-50° | 1660.3 | 18.9 |
| 50°-60° | 1426.6 | 16.2 |
| 60°-70° | 973.1 | 11.1 |
| 70°-80° | 437.5 | 5.0 |
| 80°-90° | 78.7 | 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° | 2572.9 | 29.3 |
| 0°-40° | 4215.8 | 48.0 |
| 0°-60° | 7302.7 | 83.1 |
| 0°-90° | 8792.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8792.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3266 | 3266 | 3266 | 3266 | 3266 | |
| 5° | 3259 | 3258 | 3257 | 3256 | 3256 | 310 |
| 15° | 3173 | 3172 | 3169 | 3166 | 3165 | 896 |
| 25° | 2980 | 2979 | 2971 | 2961 | 2959 | 1372 |
| 35° | 2642 | 2642 | 2634 | 2618 | 2613 | 1650 |
| 45° | 2162 | 2168 | 2159 | 2144 | 2135 | 1667 |
| 55° | 1606 | 1612 | 1602 | 1588 | 1572 | 1433 |
| 65° | 994 | 999 | 982 | 975 | 959 | 983 |
| 75° | 411 | 414 | 402 | 399 | 392 | 445 |
| 85° | 59 | 60 | 57 | 57 | 56 | 80 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3265.7 | 3265.7 | 3265.7 | 3265.7 | 3265.7 |
| 2.5° | 3266.6 | 3265.7 | 3264.9 | 3263.2 | 3265.7 |
| 5° | 3259.0 | 3258.2 | 3257.3 | 3255.6 | 3255.6 |
| 7.5° | 3247.2 | 3245.5 | 3245.5 | 3243.0 | 3242.1 |
| 10° | 3228.6 | 3227.8 | 3225.3 | 3225.3 | 3224.4 |
| 12.5° | 3205.0 | 3203.3 | 3200.8 | 3200.0 | 3198.3 |
| 15° | 3173.0 | 3172.1 | 3168.8 | 3166.2 | 3165.4 |
| 17.5° | 3136.7 | 3134.2 | 3131.6 | 3125.7 | 3125.7 |
| 20° | 3092.8 | 3091.2 | 3085.3 | 3079.3 | 3076.0 |
| 22.5° | 3042.2 | 3038.9 | 3032.1 | 3026.2 | 3019.5 |
| 25° | 2979.8 | 2979.0 | 2971.4 | 2961.3 | 2958.7 |
| 27.5° | 2907.3 | 2909.0 | 2901.4 | 2891.3 | 2886.2 |
| 30° | 2828.0 | 2831.4 | 2820.4 | 2807.8 | 2805.2 |
| 32.5° | 2741.1 | 2742.0 | 2732.7 | 2719.2 | 2714.1 |
| 35° | 2642.5 | 2642.5 | 2634.0 | 2618.0 | 2612.9 |
| 37.5° | 2532.8 | 2532.0 | 2526.9 | 2508.3 | 2499.1 |
| 40° | 2413.9 | 2418.1 | 2408.0 | 2391.1 | 2386.9 |
| 42.5° | 2290.7 | 2295.8 | 2286.5 | 2272.2 | 2262.9 |
| 45° | 2162.5 | 2168.4 | 2159.2 | 2144.0 | 2134.7 |
| 47.5° | 2030.1 | 2034.3 | 2027.6 | 2008.2 | 1995.5 |
| 50° | 1892.6 | 1901.1 | 1891.8 | 1871.6 | 1863.1 |
| 52.5° | 1751.0 | 1760.2 | 1749.3 | 1734.1 | 1718.1 |
| 55° | 1605.9 | 1611.8 | 1602.5 | 1588.2 | 1572.1 |
| 57.5° | 1456.6 | 1468.4 | 1453.2 | 1436.4 | 1422.9 |
| 60° | 1304.8 | 1314.9 | 1299.7 | 1284.5 | 1270.2 |
| 62.5° | 1150.4 | 1157.2 | 1140.3 | 1131.0 | 1114.2 |
| 65° | 993.6 | 998.6 | 981.7 | 975.0 | 959.0 |
| 67.5° | 838.4 | 842.6 | 826.6 | 817.3 | 808.0 |
| 70° | 686.5 | 689.9 | 676.4 | 668.0 | 659.6 |
| 72.5° | 543.2 | 544.0 | 531.4 | 528.8 | 518.7 |
| 75° | 410.7 | 414.1 | 401.5 | 398.9 | 392.2 |
| 77.5° | 295.2 | 296.0 | 287.6 | 285.9 | 280.0 |
| 80° | 195.7 | 196.5 | 190.6 | 189.8 | 184.7 |
| 82.5° | 118.1 | 118.9 | 113.9 | 113.9 | 110.5 |
| 85° | 59.0 | 59.9 | 57.4 | 57.4 | 55.7 |
| 87.5° | 20.2 | 21.1 | 20.2 | 20.2 | 19.4 |
| 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)