

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: P219946

Luminaire Tested: **R3-WL-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-3L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

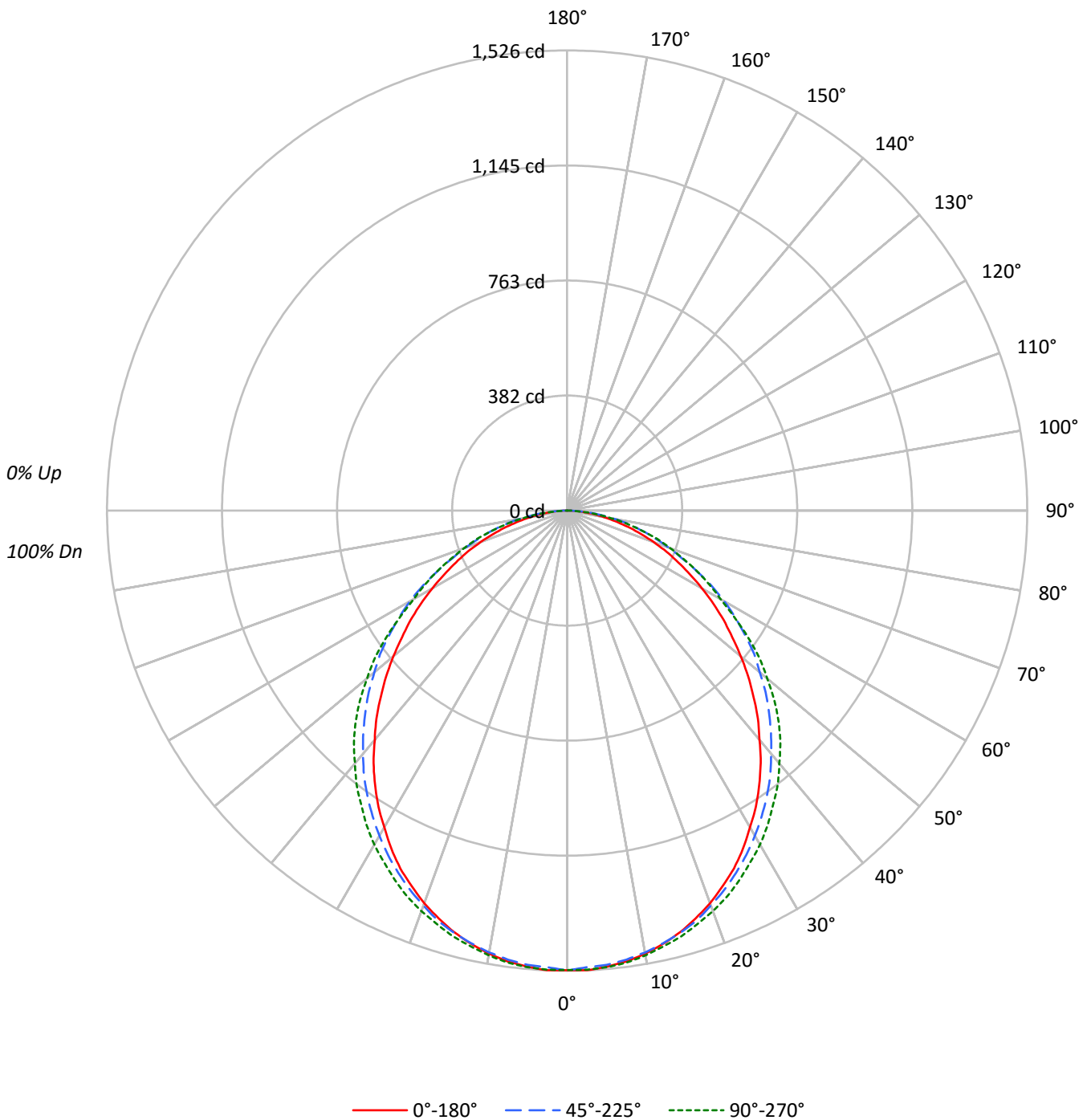
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | | 82 | 78 | 74 | | 79 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | | 73 | 68 | 63 | | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | | 65 | 59 | 54 | | 63 | 58 | 53 | 51 |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | | 59 | 52 | 47 | | 57 | 51 | 47 | 44 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | | 53 | 47 | 41 | | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 51 | 43 | 37 | 50 | 43 | 37 | | 48 | 42 | 37 | | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 39 | 34 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | | 45 | 38 | 33 | | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | | 41 | 35 | 30 | | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | | 38 | 32 | 27 | | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4101 | 4101 | 4101 |
| 5° | 4100 | 4084 | 4106 |
| 10° | 4076 | 4065 | 4093 |
| 15° | 4033 | 4039 | 4072 |
| 20° | 3968 | 3991 | 4048 |
| 25° | 3888 | 3935 | 4013 |
| 30° | 3769 | 3869 | 3975 |
| 35° | 3649 | 3794 | 3913 |
| 40° | 3487 | 3698 | 3846 |
| 45° | 3327 | 3602 | 3777 |
| 50° | 3148 | 3492 | 3626 |
| 55° | 2973 | 3377 | 3434 |
| 60° | 2784 | 3238 | 3162 |
| 65° | 2592 | 3013 | 3026 |
| 70° | 2398 | 2808 | 2855 |
| 75° | 2168 | 2669 | 2669 |
| 80° | 1895 | 2486 | 2331 |
| 85° | 1609 | 2044 | 1794 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.0 | 3.6 |
| 10°-20° | 409.9 | 10.2 |
| 20°-30° | 612.3 | 15.2 |
| 30°-40° | 721.4 | 17.9 |
| 40°-50° | 725.0 | 18.0 |
| 50°-60° | 627.1 | 15.6 |
| 60°-70° | 453.6 | 11.3 |
| 70°-80° | 260.8 | 6.5 |
| 80°-90° | 71.5 | 1.8 |
| 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° | 1166.2 | 29.0 |
| 0°-40° | 1887.7 | 46.9 |
| 0°-60° | 3239.8 | 80.5 |
| 0°-90° | 4025.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4025.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1524 | 1524 | 1524 | 1524 | 1524 | |
| 5° | 1518 | 1518 | 1512 | 1520 | 1520 | 144 |
| 15° | 1448 | 1450 | 1450 | 1462 | 1462 | 408 |
| 25° | 1309 | 1313 | 1325 | 1348 | 1352 | 602 |
| 35° | 1111 | 1125 | 1155 | 1185 | 1191 | 694 |
| 45° | 874 | 900 | 946 | 984 | 993 | 675 |
| 55° | 634 | 664 | 720 | 742 | 732 | 566 |
| 65° | 407 | 435 | 473 | 475 | 475 | 404 |
| 75° | 208 | 231 | 257 | 265 | 257 | 221 |
| 85° | 52 | 62 | 66 | 62 | 58 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 |
| 2.5° | 1525.9 | 1523.9 | 1515.9 | 1523.9 | 1523.9 |
| 5° | 1517.9 | 1517.9 | 1511.9 | 1519.9 | 1519.9 |
| 7.5° | 1507.9 | 1505.9 | 1501.9 | 1509.9 | 1511.9 |
| 10° | 1491.8 | 1491.8 | 1487.8 | 1497.9 | 1497.9 |
| 12.5° | 1471.8 | 1471.8 | 1469.8 | 1481.8 | 1479.8 |
| 15° | 1447.7 | 1449.7 | 1449.7 | 1461.8 | 1461.8 |
| 17.5° | 1417.7 | 1421.7 | 1425.7 | 1439.7 | 1437.7 |
| 20° | 1385.6 | 1389.6 | 1393.6 | 1411.6 | 1413.6 |
| 22.5° | 1347.5 | 1353.5 | 1361.5 | 1383.6 | 1385.6 |
| 25° | 1309.4 | 1313.4 | 1325.4 | 1347.5 | 1351.5 |
| 27.5° | 1263.3 | 1271.3 | 1287.3 | 1313.4 | 1315.4 |
| 30° | 1213.1 | 1227.2 | 1245.2 | 1273.3 | 1279.3 |
| 32.5° | 1165.0 | 1177.0 | 1201.1 | 1231.2 | 1237.2 |
| 35° | 1110.9 | 1124.9 | 1155.0 | 1185.1 | 1191.1 |
| 37.5° | 1054.7 | 1068.8 | 1106.9 | 1138.9 | 1147.0 |
| 40° | 992.6 | 1012.6 | 1052.7 | 1088.8 | 1094.8 |
| 42.5° | 936.4 | 954.5 | 1000.6 | 1036.7 | 1046.7 |
| 45° | 874.3 | 900.3 | 946.4 | 984.5 | 992.6 |
| 47.5° | 814.1 | 838.2 | 892.3 | 928.4 | 932.4 |
| 50° | 751.9 | 782.0 | 834.2 | 870.2 | 866.2 |
| 52.5° | 689.8 | 721.9 | 782.0 | 804.1 | 804.1 |
| 55° | 633.6 | 663.7 | 719.9 | 741.9 | 731.9 |
| 57.5° | 575.5 | 607.6 | 661.7 | 675.7 | 655.7 |
| 60° | 517.3 | 547.4 | 601.6 | 599.5 | 587.5 |
| 62.5° | 459.2 | 491.3 | 539.4 | 535.4 | 531.4 |
| 65° | 407.0 | 435.1 | 473.2 | 475.2 | 475.2 |
| 67.5° | 356.9 | 385.0 | 411.1 | 421.1 | 415.1 |
| 70° | 304.8 | 332.9 | 356.9 | 366.9 | 362.9 |
| 72.5° | 254.7 | 284.7 | 304.8 | 316.8 | 312.8 |
| 75° | 208.5 | 230.6 | 256.7 | 264.7 | 256.7 |
| 77.5° | 162.4 | 184.5 | 208.5 | 212.5 | 204.5 |
| 80° | 122.3 | 140.4 | 160.4 | 156.4 | 150.4 |
| 82.5° | 86.2 | 100.3 | 112.3 | 106.3 | 102.3 |
| 85° | 52.1 | 62.2 | 66.2 | 62.2 | 58.1 |
| 87.5° | 22.1 | 26.1 | 26.1 | 22.1 | 22.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)