

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: PORTFOLIO

Report Number: P247715

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90930 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8051.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

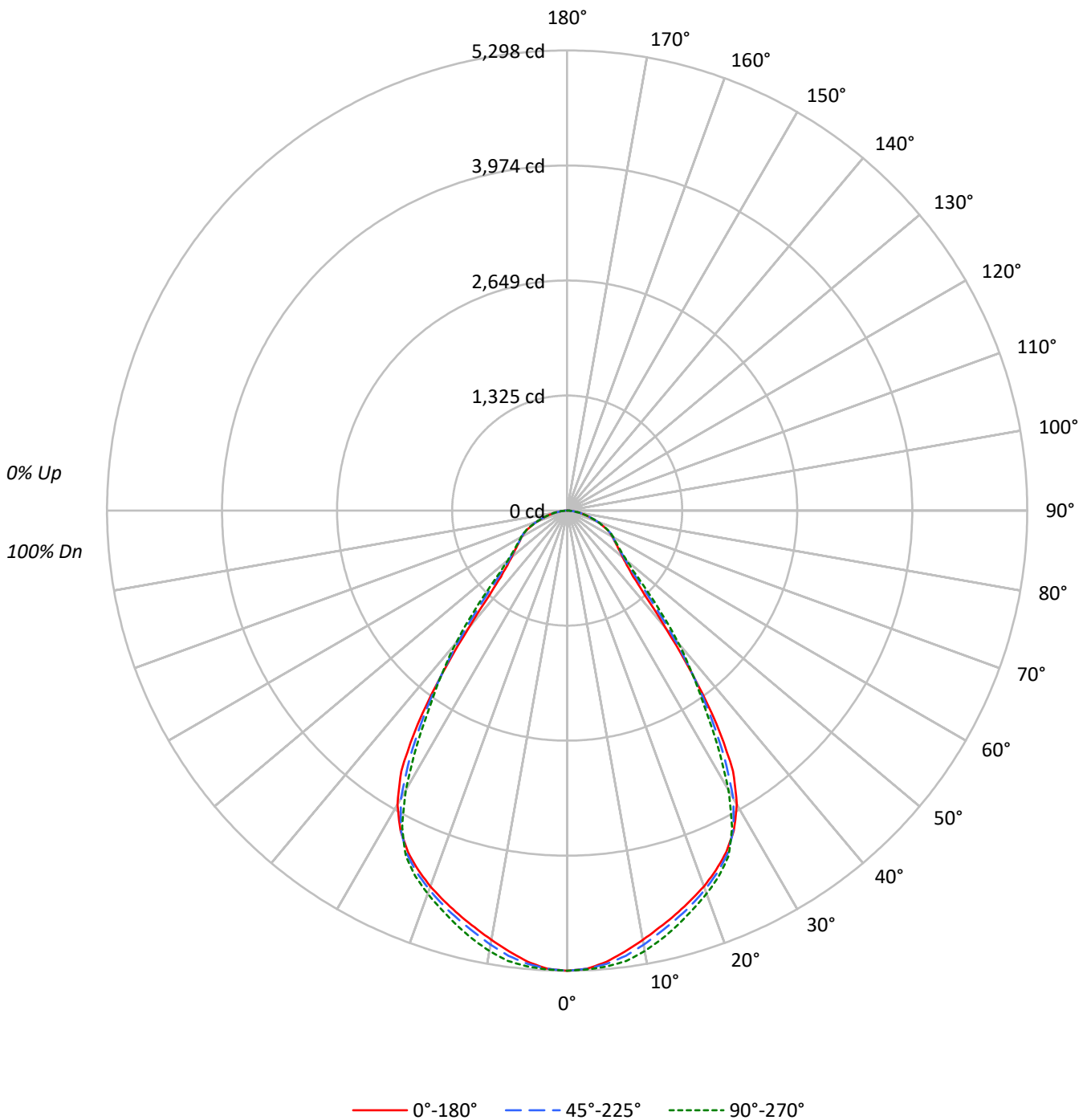
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | | 97 | 95 | 93 | | 94 | 92 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | | 89 | 85 | 82 | | 86 | 83 | 80 | 78 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | | 81 | 77 | 73 | | 79 | 75 | 72 | 70 |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | | 74 | 69 | 65 | | 72 | 68 | 64 | 63 |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | | 68 | 63 | 59 | | 67 | 62 | 58 | 57 |
| 6 | 79 | 67 | 60 | 55 | 77 | 67 | 60 | 54 | 65 | 59 | 54 | | 63 | 58 | 54 | | 62 | 57 | 53 | 51 |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | | 59 | 53 | 49 | | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 51 | 46 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | | 55 | 49 | 45 | | 54 | 49 | 45 | 43 |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | | 51 | 46 | 42 | | 50 | 45 | 41 | 40 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | | 48 | 42 | 38 | | 47 | 42 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | | | |
|-----|--|-----|-----|
| | 0° | 45° | 90° |
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 495.1 | 6.1 |
| 10°-20° | 1373.6 | 17.1 |
| 20°-30° | 1985.7 | 24.7 |
| 30°-40° | 1777.1 | 22.1 |
| 40°-50° | 961.7 | 11.9 |
| 50°-60° | 641.0 | 8.0 |
| 60°-70° | 490.9 | 6.1 |
| 70°-80° | 260.2 | 3.2 |
| 80°-90° | 65.8 | 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° | 3854.4 | 47.9 |
| 0°-40° | 5631.5 | 69.9 |
| 0°-60° | 7234.2 | 89.9 |
| 0°-90° | 8051.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8051.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5298 | 5298 | 5298 | 5298 | 5298 | |
| 5° | 5214 | 5216 | 5239 | 5259 | 5268 | 491 |
| 15° | 4815 | 4825 | 4867 | 4914 | 4936 | 1359 |
| 25° | 4336 | 4347 | 4363 | 4384 | 4392 | 1984 |
| 35° | 3000 | 2969 | 2865 | 2782 | 2755 | 1816 |
| 45° | 1079 | 1111 | 1180 | 1254 | 1281 | 888 |
| 55° | 698 | 700 | 707 | 714 | 717 | 631 |
| 65° | 497 | 498 | 502 | 506 | 506 | 487 |
| 75° | 241 | 241 | 244 | 245 | 245 | 259 |
| 85° | 56 | 56 | 56 | 57 | 56 | 66 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5298.2 | 5298.2 | 5298.2 | 5298.2 | 5298.2 |
| 2.5° | 5280.5 | 5278.6 | 5279.6 | 5285.1 | 5287.9 |
| 5° | 5213.5 | 5216.2 | 5238.7 | 5259.1 | 5268.4 |
| 7.5° | 5119.5 | 5131.6 | 5169.8 | 5209.7 | 5230.2 |
| 10° | 5019.1 | 5031.2 | 5074.9 | 5131.6 | 5149.3 |
| 12.5° | 4915.8 | 4930.7 | 4969.8 | 5027.5 | 5048.9 |
| 15° | 4815.4 | 4824.7 | 4866.6 | 4914.0 | 4936.3 |
| 17.5° | 4712.1 | 4721.4 | 4759.5 | 4796.8 | 4814.5 |
| 20° | 4604.3 | 4614.5 | 4643.3 | 4674.9 | 4694.5 |
| 22.5° | 4480.5 | 4490.7 | 4514.9 | 4542.9 | 4560.6 |
| 25° | 4336.4 | 4346.6 | 4363.4 | 4383.8 | 4392.2 |
| 27.5° | 4154.1 | 4160.6 | 4144.8 | 4128.0 | 4113.2 |
| 30° | 3906.7 | 3886.2 | 3822.9 | 3742.0 | 3710.4 |
| 32.5° | 3555.0 | 3489.0 | 3367.1 | 3268.5 | 3232.3 |
| 35° | 2999.7 | 2969.1 | 2864.8 | 2782.1 | 2755.1 |
| 37.5° | 2352.3 | 2372.8 | 2365.4 | 2359.8 | 2365.4 |
| 40° | 1754.3 | 1801.7 | 1904.0 | 1973.7 | 1996.1 |
| 42.5° | 1328.3 | 1373.8 | 1489.1 | 1585.9 | 1619.4 |
| 45° | 1079.0 | 1110.6 | 1180.4 | 1253.8 | 1280.9 |
| 47.5° | 931.1 | 948.7 | 984.1 | 1023.1 | 1036.1 |
| 50° | 836.2 | 843.7 | 861.3 | 883.7 | 891.1 |
| 52.5° | 760.8 | 764.6 | 774.8 | 786.9 | 788.7 |
| 55° | 697.6 | 700.4 | 706.9 | 714.3 | 717.1 |
| 57.5° | 644.6 | 647.4 | 649.3 | 653.9 | 655.8 |
| 60° | 602.8 | 602.8 | 606.5 | 610.2 | 612.1 |
| 62.5° | 557.1 | 557.1 | 560.8 | 564.6 | 564.6 |
| 65° | 496.7 | 498.5 | 502.3 | 506.0 | 506.0 |
| 67.5° | 430.7 | 431.6 | 434.4 | 438.1 | 437.2 |
| 70° | 364.7 | 364.7 | 367.5 | 369.3 | 370.2 |
| 72.5° | 301.3 | 300.4 | 305.1 | 306.0 | 303.2 |
| 75° | 240.9 | 240.9 | 243.7 | 244.6 | 244.6 |
| 77.5° | 187.9 | 187.0 | 187.0 | 187.9 | 188.8 |
| 80° | 137.7 | 138.6 | 137.7 | 139.6 | 141.4 |
| 82.5° | 95.8 | 94.8 | 94.8 | 94.8 | 93.9 |
| 85° | 55.8 | 55.8 | 55.8 | 56.7 | 55.8 |
| 87.5° | 22.3 | 22.3 | 21.4 | 21.4 | 20.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)