

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: P247134

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B809727 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6546.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

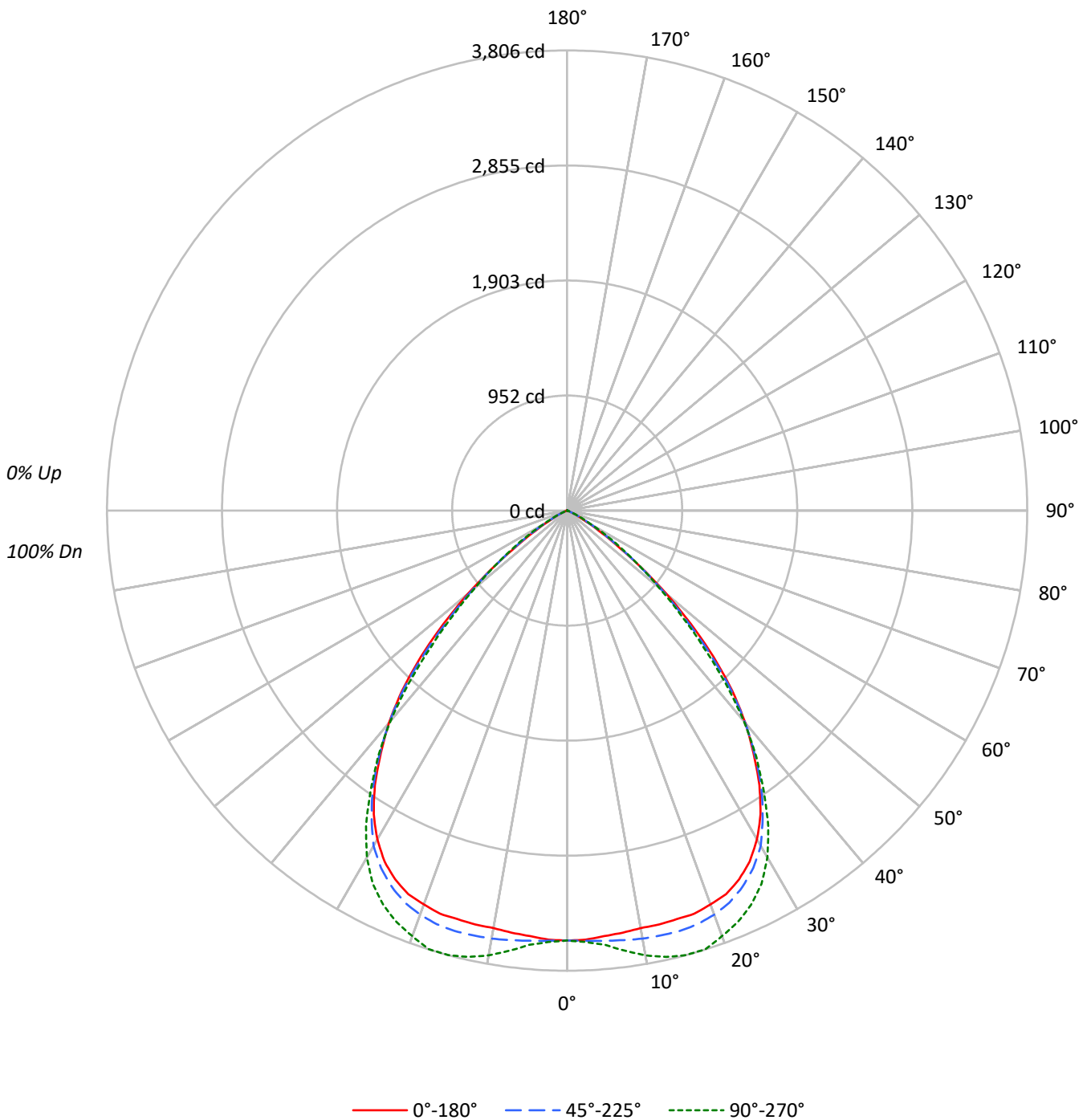
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 50 | 30 | 10 | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | 91 | 91 | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 84 | 82 | 82 | 82 | 82 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | 73 | 73 | 73 | | | |
| 4 | 92 | 82 | 76 | 70 | 90 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 66 | 66 | 66 | 66 | | | |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 72 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 61 | 59 | 59 | 59 | 59 | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | 53 | 53 | 53 | | | |
| 7 | 75 | 64 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 50 | 59 | 54 | 50 | 48 | 48 | 48 | 48 | | | |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 46 | 44 | 44 | 44 | 44 | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | 40 | 40 | 40 | | | |
| 10 | 62 | 50 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 38 | 37 | 37 | 37 | 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° | 342.1 | 5.2 |
| 10°-20° | 1024.4 | 15.6 |
| 20°-30° | 1585.1 | 24.2 |
| 30°-40° | 1736.2 | 26.5 |
| 40°-50° | 1270.2 | 19.4 |
| 50°-60° | 498.4 | 7.6 |
| 60°-70° | 80.7 | 1.2 |
| 70°-80° | 7.4 | 0.1 |
| 80°-90° | 1.5 | 0.0 |
| 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° | 2951.6 | 45.1 |
| 0°-40° | 4687.8 | 71.6 |
| 0°-60° | 6456.4 | 98.6 |
| 0°-90° | 6546.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6546.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3556 | 3556 | 3556 | 3556 | 3556 | |
| 5° | 3533 | 3541 | 3572 | 3598 | 3605 | 337 |
| 15° | 3499 | 3522 | 3600 | 3733 | 3806 | 991 |
| 25° | 3366 | 3376 | 3434 | 3538 | 3598 | 1543 |
| 35° | 2772 | 2777 | 2801 | 2827 | 2834 | 1717 |
| 45° | 1711 | 1709 | 1663 | 1612 | 1590 | 1303 |
| 55° | 491 | 501 | 522 | 541 | 559 | 483 |
| 65° | 58 | 57 | 62 | 68 | 73 | 71 |
| 75° | 4 | 6 | 8 | 6 | 7 | 7 |
| 85° | 0 | 0 | 0 | 0 | 0 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3555.7 | 3555.7 | 3555.7 | 3555.7 | 3555.7 |
| 2.5° | 3552.2 | 3554.3 | 3561.3 | 3568.2 | 3572.4 |
| 5° | 3532.7 | 3541.1 | 3571.7 | 3597.5 | 3605.1 |
| 7.5° | 3520.9 | 3534.8 | 3582.9 | 3647.6 | 3672.7 |
| 10° | 3506.3 | 3526.5 | 3594.7 | 3686.6 | 3735.3 |
| 12.5° | 3507.0 | 3526.5 | 3598.9 | 3718.6 | 3781.3 |
| 15° | 3498.6 | 3521.6 | 3599.6 | 3733.3 | 3805.7 |
| 17.5° | 3496.5 | 3507.7 | 3587.0 | 3722.8 | 3802.9 |
| 20° | 3466.6 | 3481.9 | 3556.4 | 3676.9 | 3745.8 |
| 22.5° | 3433.9 | 3440.8 | 3509.1 | 3627.4 | 3685.9 |
| 25° | 3365.6 | 3376.1 | 3433.9 | 3537.6 | 3598.2 |
| 27.5° | 3271.6 | 3273.7 | 3332.2 | 3428.3 | 3481.2 |
| 30° | 3140.1 | 3150.5 | 3202.7 | 3273.7 | 3311.3 |
| 32.5° | 2977.1 | 2975.7 | 3009.9 | 3071.8 | 3096.2 |
| 35° | 2772.4 | 2777.3 | 2801.0 | 2827.4 | 2834.4 |
| 37.5° | 2532.2 | 2538.5 | 2554.5 | 2563.6 | 2569.8 |
| 40° | 2292.7 | 2292.7 | 2290.6 | 2280.9 | 2273.2 |
| 42.5° | 2019.8 | 2010.8 | 2000.3 | 1957.1 | 1938.3 |
| 45° | 1711.4 | 1708.6 | 1662.6 | 1611.8 | 1589.5 |
| 47.5° | 1386.9 | 1371.6 | 1323.6 | 1282.5 | 1273.4 |
| 50° | 1068.7 | 1052.7 | 1027.7 | 1007.5 | 994.2 |
| 52.5° | 761.7 | 749.9 | 760.3 | 760.3 | 758.9 |
| 55° | 490.9 | 501.3 | 522.2 | 541.0 | 559.1 |
| 57.5° | 311.2 | 325.1 | 357.2 | 381.5 | 387.8 |
| 60° | 178.2 | 188.7 | 211.0 | 232.5 | 236.7 |
| 62.5° | 112.1 | 112.8 | 127.4 | 139.9 | 147.6 |
| 65° | 58.5 | 57.1 | 62.0 | 68.2 | 73.1 |
| 67.5° | 24.4 | 24.4 | 29.2 | 28.5 | 36.2 |
| 70° | 12.5 | 10.4 | 11.8 | 13.9 | 16.0 |
| 72.5° | 9.1 | 7.0 | 9.7 | 12.5 | 5.6 |
| 75° | 4.2 | 6.3 | 7.7 | 5.6 | 7.0 |
| 77.5° | 5.6 | 5.6 | 4.2 | 7.0 | 1.4 |
| 80° | 4.2 | 2.8 | 4.9 | 2.1 | 0.0 |
| 82.5° | 0.7 | 1.4 | 0.7 | 0.7 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.9 | 2.1 | 3.5 | 2.8 | 4.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)