

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: P247015

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90850 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9090.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

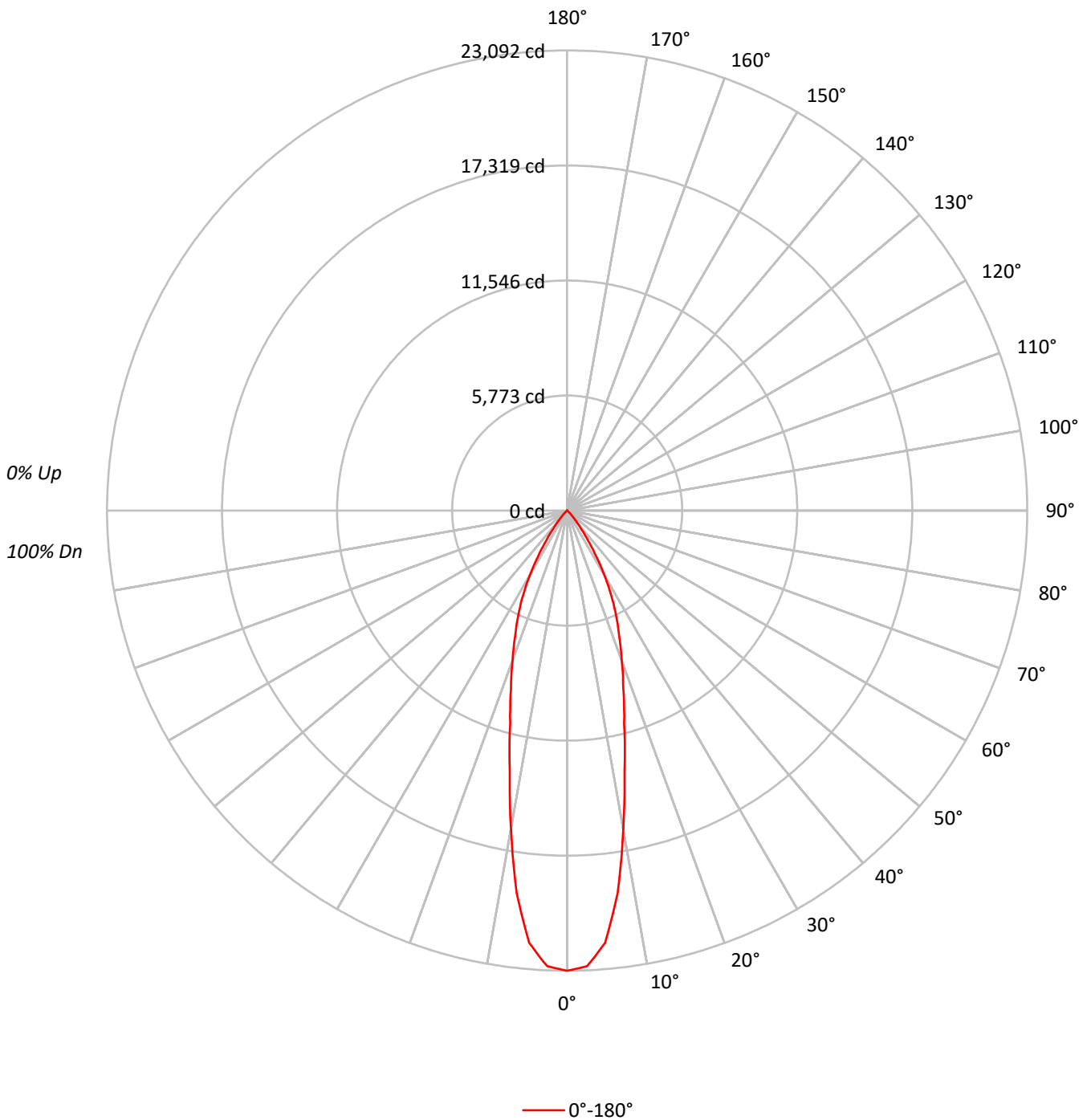
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P247015

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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 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | | 102 | 101 | 100 | | 99 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 107 | 104 | 100 | 98 | 100 | 98 | 96 | | 98 | 95 | 94 | | 95 | 93 | 92 | 90 |
| 3 | 105 | 100 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 92 | 90 | | 93 | 91 | 88 | | 91 | 89 | 87 | 85 |
| 4 | 101 | 94 | 90 | 86 | 99 | 93 | 89 | 85 | 91 | 87 | 84 | | 89 | 86 | 83 | | 87 | 85 | 83 | 81 |
| 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 80 | 87 | 83 | 80 | | 85 | 82 | 79 | | 84 | 81 | 78 | 77 |
| 6 | 93 | 85 | 80 | 76 | 91 | 84 | 80 | 76 | 83 | 79 | 76 | | 82 | 78 | 75 | | 80 | 77 | 75 | 73 |
| 7 | 89 | 81 | 76 | 72 | 88 | 81 | 76 | 72 | 79 | 75 | 72 | | 78 | 74 | 72 | | 77 | 74 | 71 | 70 |
| 8 | 86 | 78 | 72 | 69 | 85 | 77 | 72 | 69 | 76 | 72 | 69 | | 75 | 71 | 68 | | 74 | 71 | 68 | 67 |
| 9 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 65 | | 72 | 68 | 65 | | 71 | 68 | 65 | 64 |
| 10 | 79 | 71 | 66 | 63 | 79 | 71 | 66 | 63 | 70 | 66 | 63 | | 69 | 65 | 62 | | 69 | 65 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 712075 |
| 5° | 674190 |
| 10° | 507746 |
| 15° | 352921 |
| 20° | 263087 |
| 25° | 198024 |
| 30° | 132414 |
| 35° | 69310 |
| 40° | 26773 |
| 45° | 9899 |
| 50° | 2519 |
| 55° | 489 |
| 60° | 68 |
| 65° | 248 |
| 70° | 307 |
| 75° | 0 |
| 80° | 0 |
| 85° | 389 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1893.9 | 20.8 |
| 10°-20° | 3132.0 | 34.5 |
| 20°-30° | 2640.5 | 29.0 |
| 30°-40° | 1198.2 | 13.2 |
| 40°-50° | 209.2 | 2.3 |
| 50°-60° | 11.4 | 0.1 |
| 60°-70° | 1.7 | 0.0 |
| 70°-80° | 1.9 | 0.0 |
| 80°-90° | 1.2 | 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° | 7666.4 | 84.3 |
| 0°-40° | 8864.6 | 97.5 |
| 0°-60° | 9085.1 | 99.9 |
| 0°-90° | 9090.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9090.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 23092 | |
| 5° | 21780 | ### |
| 15° | 11055 | 3132 |
| 25° | 5820 | 2640 |
| 35° | 1841 | 1198 |
| 45° | 227 | 209 |
| 55° | 9 | 11 |
| 65° | 3 | 2 |
| 75° | 0 | 2 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 23092.1 |
| 2.5° | 22887.9 |
| 5° | 21780.3 |
| 7.5° | 19367.6 |
| 10° | 16215.7 |
| 12.5° | 13302.2 |
| 15° | 11055.0 |
| 17.5° | 9366.7 |
| 20° | 8017.2 |
| 22.5° | 6829.7 |
| 25° | 5820.1 |
| 27.5° | 4793.4 |
| 30° | 3718.8 |
| 32.5° | 2707.0 |
| 35° | 1841.2 |
| 37.5° | 1130.5 |
| 40° | 665.1 |
| 42.5° | 390.1 |
| 45° | 227.0 |
| 47.5° | 135.7 |
| 50° | 52.5 |
| 52.5° | 8.0 |
| 55° | 9.1 |
| 57.5° | 8.0 |
| 60° | 1.1 |
| 62.5° | 1.1 |
| 65° | 3.4 |
| 67.5° | 0.0 |
| 70° | 3.4 |
| 72.5° | 5.7 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 1.1 |
| 87.5° | 3.4 |
| 90° | 0.0 |

(END OF REPORT)