

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: P251335

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70840 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

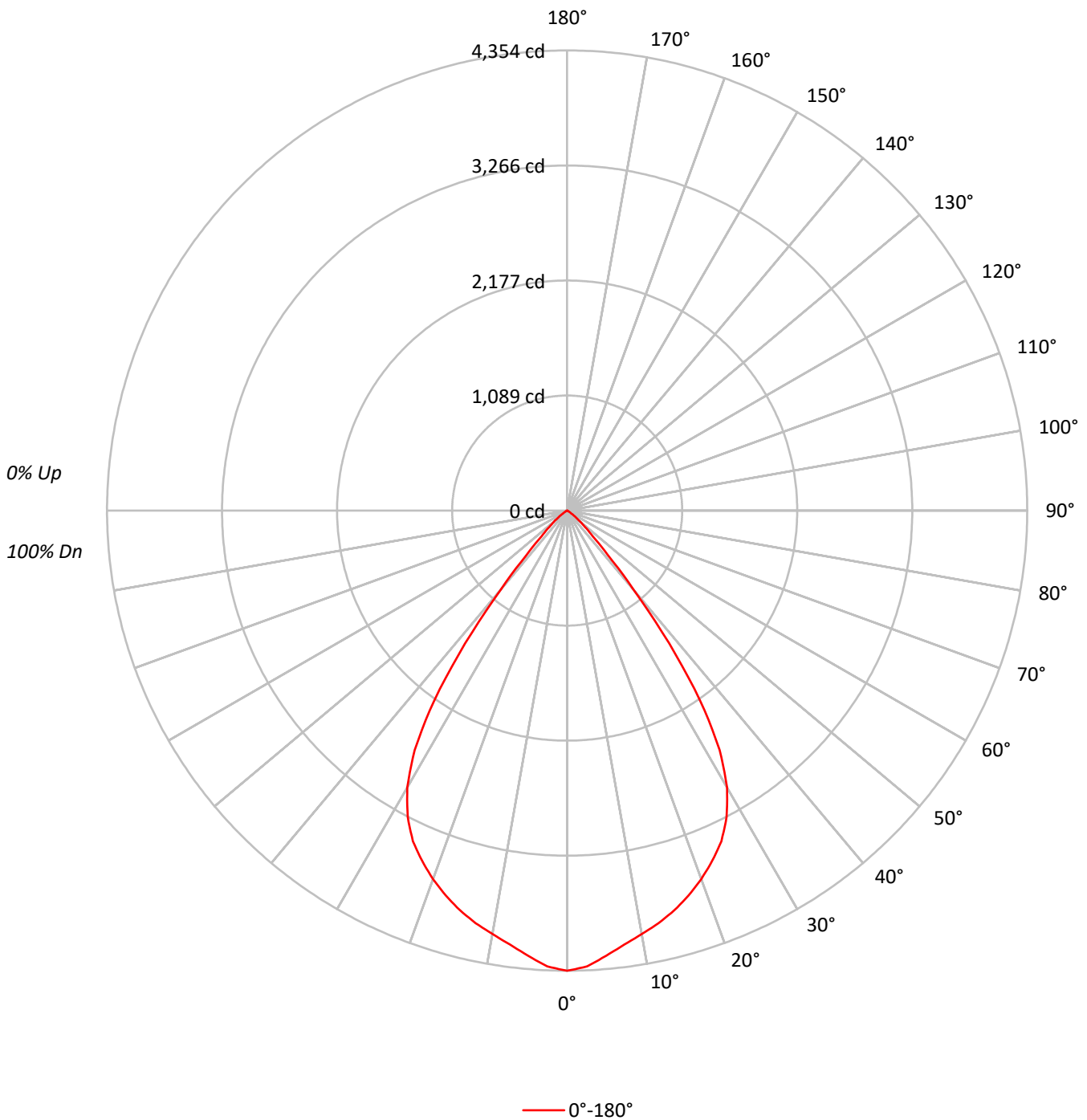
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | | 101 | 99 | 98 | | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | | 94 | 92 | 90 | | 92 | 90 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | | 89 | 85 | 82 | | 86 | 84 | 81 | 80 |
| 4 | 96 | 88 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 80 | 77 | | 83 | 79 | 76 | | 81 | 78 | 75 | 74 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 76 | 71 | 80 | 75 | 71 | | 78 | 74 | 70 | | 76 | 73 | 70 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 74 | 69 | 65 | | 73 | 68 | 65 | | 72 | 68 | 65 | 63 |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 61 | | 69 | 64 | 60 | | 67 | 63 | 60 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 56 | | 65 | 60 | 56 | | 64 | 59 | 56 | 54 |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 52 | | 61 | 56 | 52 | | 60 | 55 | 52 | 51 |
| 10 | 70 | 59 | 53 | 49 | 68 | 59 | 53 | 49 | 58 | 53 | 49 | | 57 | 52 | 49 | | 57 | 52 | 49 | 47 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 134252 |
| 5° | 130874 |
| 10° | 127393 |
| 15° | 125021 |
| 20° | 121768 |
| 25° | 117451 |
| 30° | 107767 |
| 35° | 82629 |
| 40° | 39312 |
| 45° | 14971 |
| 50° | 7306 |
| 55° | 2989 |
| 60° | 746 |
| 65° | 175 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 398.6 | 8.4 |
| 10°-20° | 1102.0 | 23.1 |
| 20°-30° | 1573.6 | 33.1 |
| 30°-40° | 1304.1 | 27.4 |
| 40°-50° | 321.6 | 6.8 |
| 50°-60° | 57.9 | 1.2 |
| 60°-70° | 3.2 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 3074.2 | 64.6 |
| 0°-40° | 4378.3 | 92.0 |
| 0°-60° | 4757.8 | 99.9 |
| 0°-90° | 4761.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4761.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4354 | |
| 5° | 4228 | 399 |
| 15° | 3916 | 1102 |
| 25° | 3452 | 1574 |
| 35° | 2195 | 1304 |
| 45° | 343 | 322 |
| 55° | 56 | 58 |
| 65° | 2 | 3 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4353.7 |
| 2.5° | 4317.5 |
| 5° | 4228.0 |
| 7.5° | 4141.0 |
| 10° | 4068.5 |
| 12.5° | 3998.4 |
| 15° | 3916.2 |
| 17.5° | 3819.5 |
| 20° | 3710.7 |
| 22.5° | 3587.4 |
| 25° | 3452.0 |
| 27.5° | 3268.3 |
| 30° | 3026.6 |
| 32.5° | 2685.7 |
| 35° | 2195.0 |
| 37.5° | 1585.8 |
| 40° | 976.6 |
| 42.5° | 568.1 |
| 45° | 343.3 |
| 47.5° | 227.2 |
| 50° | 152.3 |
| 52.5° | 99.1 |
| 55° | 55.6 |
| 57.5° | 26.6 |
| 60° | 12.1 |
| 62.5° | 4.8 |
| 65° | 2.4 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)