

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: P251010

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60830 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5834.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

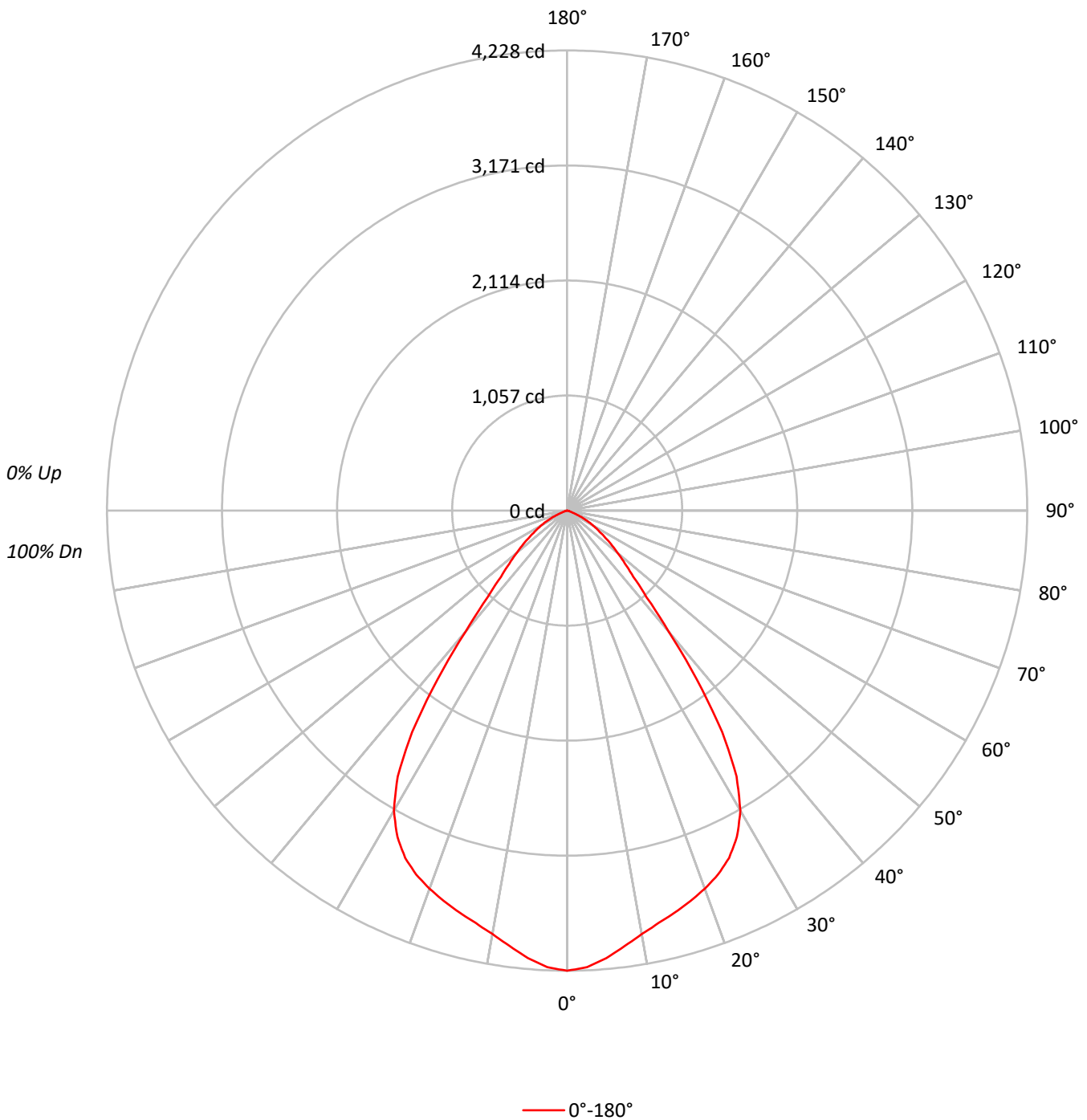
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 84 | 83 |
| 3 | 99 | 91 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 69 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 73 | 68 | 64 | 71 | 67 | 63 | 62 |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 57 | 53 | 49 | 47 |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 44 |
| 10 | 65 | 54 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 41 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 130373 |
| 5° | 127751 |
| 10° | 123704 |
| 15° | 122039 |
| 20° | 121312 |
| 25° | 119778 |
| 30° | 113340 |
| 35° | 93482 |
| 40° | 58368 |
| 45° | 37534 |
| 50° | 29110 |
| 55° | 22408 |
| 60° | 16978 |
| 65° | 11032 |
| 70° | 4715 |
| 75° | 2311 |
| 80° | 1030 |
| 85° | 672 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 388.2 | 6.7 |
| 10°-20° | 1080.0 | 18.5 |
| 20°-30° | 1608.7 | 27.6 |
| 30°-40° | 1493.9 | 25.6 |
| 40°-50° | 705.6 | 12.1 |
| 50°-60° | 379.1 | 6.5 |
| 60°-70° | 152.2 | 2.6 |
| 70°-80° | 23.9 | 0.4 |
| 80°-90° | 2.4 | 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° | 3076.8 | 52.7 |
| 0°-40° | 4570.8 | 78.3 |
| 0°-60° | 5655.5 | 96.9 |
| 0°-90° | 5834.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5834.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4228 | |
| 5° | 4127 | 388 |
| 15° | 3823 | 1080 |
| 25° | 3520 | 1609 |
| 35° | 2483 | 1494 |
| 45° | 861 | 706 |
| 55° | 417 | 379 |
| 65° | 151 | 152 |
| 75° | 19 | 24 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4227.9 |
| 2.5° | 4198.9 |
| 5° | 4127.1 |
| 7.5° | 4036.0 |
| 10° | 3950.7 |
| 12.5° | 3880.9 |
| 15° | 3822.8 |
| 17.5° | 3762.7 |
| 20° | 3696.8 |
| 22.5° | 3621.2 |
| 25° | 3520.4 |
| 27.5° | 3378.9 |
| 30° | 3183.1 |
| 32.5° | 2896.2 |
| 35° | 2483.3 |
| 37.5° | 1956.0 |
| 40° | 1450.0 |
| 42.5° | 1079.8 |
| 45° | 860.7 |
| 47.5° | 719.2 |
| 50° | 606.8 |
| 52.5° | 506.0 |
| 55° | 416.8 |
| 57.5° | 339.2 |
| 60° | 275.3 |
| 62.5° | 215.2 |
| 65° | 151.2 |
| 67.5° | 89.2 |
| 70° | 52.3 |
| 72.5° | 31.0 |
| 75° | 19.4 |
| 77.5° | 11.6 |
| 80° | 5.8 |
| 82.5° | 3.9 |
| 85° | 1.9 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)