

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: P243807

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30830 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

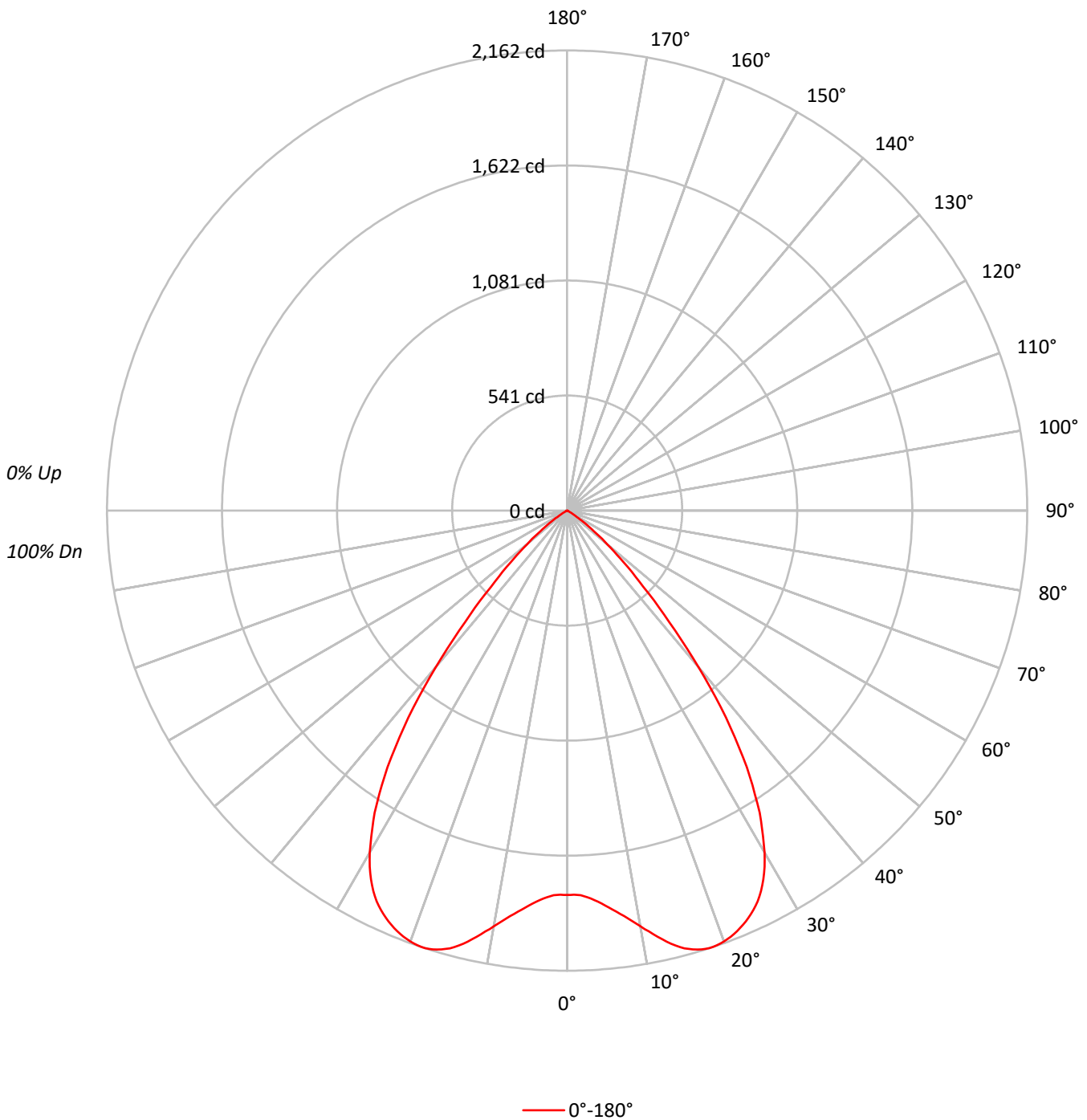
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | | | | | 100 | | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | | 92 | | | |
| 2 | 106 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | | | 84 | | | |
| 3 | 100 | 93 | 87 | 83 | 98 | 92 | 86 | 82 | 89 | 85 | 81 | 86 | 83 | 80 | 84 | 81 | 78 | 77 | | | | | 77 | | | |
| 4 | 94 | 86 | 79 | 75 | 92 | 84 | 79 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 | | | | | 70 | | | |
| 5 | 88 | 79 | 72 | 68 | 87 | 78 | 72 | 67 | 76 | 71 | 67 | 74 | 70 | 66 | 73 | 69 | 65 | 64 | | | | | 64 | | | |
| 6 | 83 | 73 | 66 | 62 | 82 | 72 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 58 | | | | | 58 | | | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 63 | 59 | 55 | 54 | | | | | 54 | | | |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | | | | | 49 | | | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 53 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 43 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 55693 |
| 5° | 57342 |
| 10° | 62120 |
| 15° | 67966 |
| 20° | 70710 |
| 25° | 70450 |
| 30° | 66082 |
| 35° | 55412 |
| 40° | 38579 |
| 45° | 22097 |
| 50° | 11864 |
| 55° | 4892 |
| 60° | 1221 |
| 65° | 314 |
| 70° | 153 |
| 75° | 107 |
| 80° | 160 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.1 | 5.8 |
| 10°-20° | 600.0 | 19.1 |
| 20°-30° | 944.1 | 30.1 |
| 30°-40° | 898.1 | 28.6 |
| 40°-50° | 414.0 | 13.2 |
| 50°-60° | 94.1 | 3.0 |
| 60°-70° | 6.2 | 0.2 |
| 70°-80° | 1.3 | 0.0 |
| 80°-90° | 0.1 | 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° | 1725.3 | 55.0 |
| 0°-40° | 2623.4 | 83.6 |
| 0°-60° | 3131.4 | 99.8 |
| 0°-90° | 3139.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3139.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1806 | |
| 5° | 1852 | 181 |
| 15° | 2129 | 600 |
| 25° | 2071 | 944 |
| 35° | 1472 | 898 |
| 45° | 507 | 414 |
| 55° | 91 | 94 |
| 65° | 4 | 6 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1806.1 |
| 1° | 1805.2 |
| 2° | 1808.7 |
| 3° | 1819.0 |
| 4° | 1834.4 |
| 5° | 1852.5 |
| 6° | 1874.8 |
| 7° | 1898.8 |
| 8° | 1923.7 |
| 9° | 1952.9 |
| 10° | 1983.9 |
| 11° | 2014.8 |
| 12° | 2047.4 |
| 13° | 2078.3 |
| 14° | 2106.7 |
| 15° | 2129.0 |
| 16° | 2145.3 |
| 17° | 2156.5 |
| 18° | 2161.6 |
| 19° | 2160.8 |
| 20° | 2154.8 |
| 21° | 2144.5 |
| 22° | 2131.6 |
| 23° | 2114.4 |
| 24° | 2094.6 |
| 25° | 2070.6 |
| 26° | 2042.3 |
| 27° | 2006.2 |
| 28° | 1963.2 |
| 29° | 1913.4 |
| 30° | 1855.9 |
| 32.5° | 1683.3 |
| 35° | 1472.0 |
| 37.5° | 1226.4 |
| 40° | 958.4 |
| 42.5° | 708.5 |
| 45° | 506.7 |
| 47.5° | 359.0 |
| 50° | 247.3 |
| 52.5° | 158.0 |
| 55° | 91.0 |
| 57.5° | 45.5 |
| 60° | 19.8 |
| 62.5° | 7.7 |
| 65° | 4.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 2.6 |
| 70° | 1.7 |
| 72.5° | 1.7 |
| 75° | 0.9 |
| 77.5° | 0.9 |
| 80° | 0.9 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)