

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: P244299

Luminaire Tested: **LSR8B30D010 EC8B30930 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30930 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2560.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

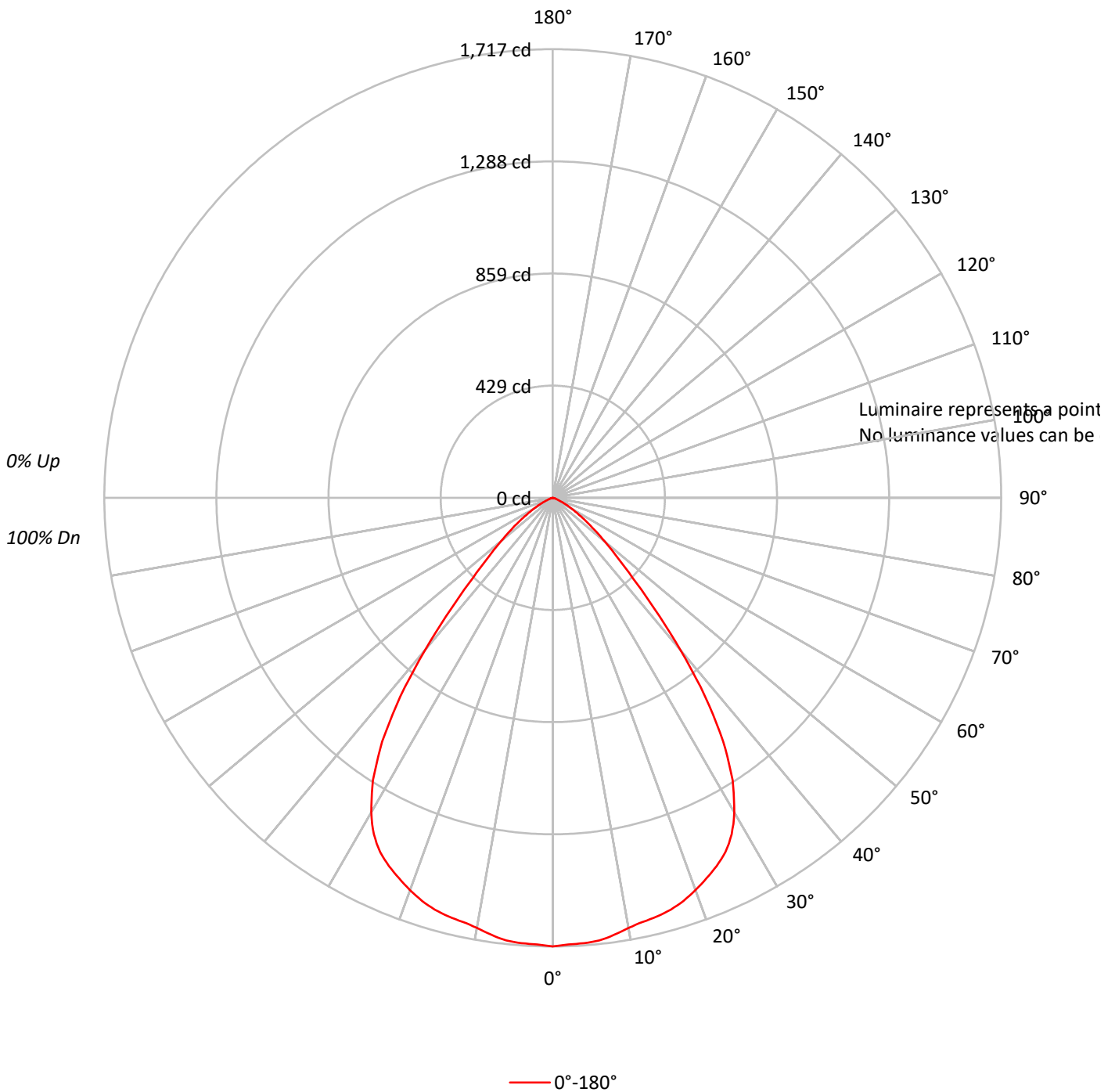
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | | 99 | 98 | 96 | | 96 | 95 | 93 | 92 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | | 92 | 89 | 86 | | 89 | 87 | 85 | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | | 85 | 81 | 78 | | 83 | 79 | 77 | 75 |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 75 | 71 | | 79 | 74 | 71 | | 77 | 73 | 70 | 68 |
| 5 | 87 | 77 | 71 | 66 | 85 | 76 | 70 | 65 | 75 | 69 | 65 | | 73 | 68 | 64 | | 71 | 67 | 63 | 62 |
| 6 | 82 | 71 | 65 | 60 | 80 | 71 | 64 | 59 | 69 | 63 | 59 | | 68 | 62 | 58 | | 66 | 62 | 58 | 56 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | | 63 | 57 | 53 | | 62 | 57 | 53 | 52 |
| 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 | 64 | 53 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | | 51 | 46 | 42 | | 50 | 45 | 42 | 40 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.8 | 6.3 |
| 10°-20° | 464.2 | 18.1 |
| 20°-30° | 698.6 | 27.3 |
| 30°-40° | 691.6 | 27.0 |
| 40°-50° | 351.4 | 13.7 |
| 50°-60° | 141.6 | 5.5 |
| 60°-70° | 42.9 | 1.7 |
| 70°-80° | 7.4 | 0.3 |
| 80°-90° | 0.9 | 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° | 1324.5 | 51.7 |
| 0°-40° | 2016.2 | 78.7 |
| 0°-60° | 2509.2 | 98.0 |
| 0°-90° | 2560.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2560.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1717 | |
| 5° | 1706 | 162 |
| 15° | 1646 | 464 |
| 25° | 1526 | 699 |
| 35° | 1138 | 692 |
| 45° | 431 | 351 |
| 55° | 152 | 142 |
| 65° | 39 | 43 |
| 75° | 6 | 7 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1716.8 |
| 1° | 1713.1 |
| 2° | 1710.2 |
| 3° | 1709.4 |
| 4° | 1708.7 |
| 5° | 1706.5 |
| 6° | 1703.5 |
| 7° | 1697.5 |
| 8° | 1688.7 |
| 9° | 1680.6 |
| 10° | 1671.6 |
| 11° | 1664.2 |
| 12° | 1659.1 |
| 13° | 1655.4 |
| 14° | 1651.0 |
| 15° | 1645.7 |
| 16° | 1639.1 |
| 17° | 1630.9 |
| 18° | 1621.4 |
| 19° | 1610.3 |
| 20° | 1597.6 |
| 21° | 1584.3 |
| 22° | 1571.1 |
| 23° | 1557.0 |
| 24° | 1542.2 |
| 25° | 1525.9 |
| 26° | 1508.2 |
| 27° | 1485.2 |
| 28° | 1458.5 |
| 29° | 1426.7 |
| 30° | 1389.7 |
| 32.5° | 1281.8 |
| 35° | 1138.2 |
| 37.5° | 959.0 |
| 40° | 759.3 |
| 42.5° | 573.5 |
| 45° | 430.7 |
| 47.5° | 329.3 |
| 50° | 258.3 |
| 52.5° | 200.5 |
| 55° | 152.5 |
| 57.5° | 113.2 |
| 60° | 85.1 |
| 62.5° | 60.6 |
| 65° | 39.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 24.4 |
| 70° | 15.6 |
| 72.5° | 9.6 |
| 75° | 5.9 |
| 77.5° | 3.7 |
| 80° | 2.2 |
| 82.5° | 1.5 |
| 85° | 0.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)