

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: P244442

Luminaire Tested: **LSR8B20D010 EC8B20930 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20930 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG 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: 1761.1 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

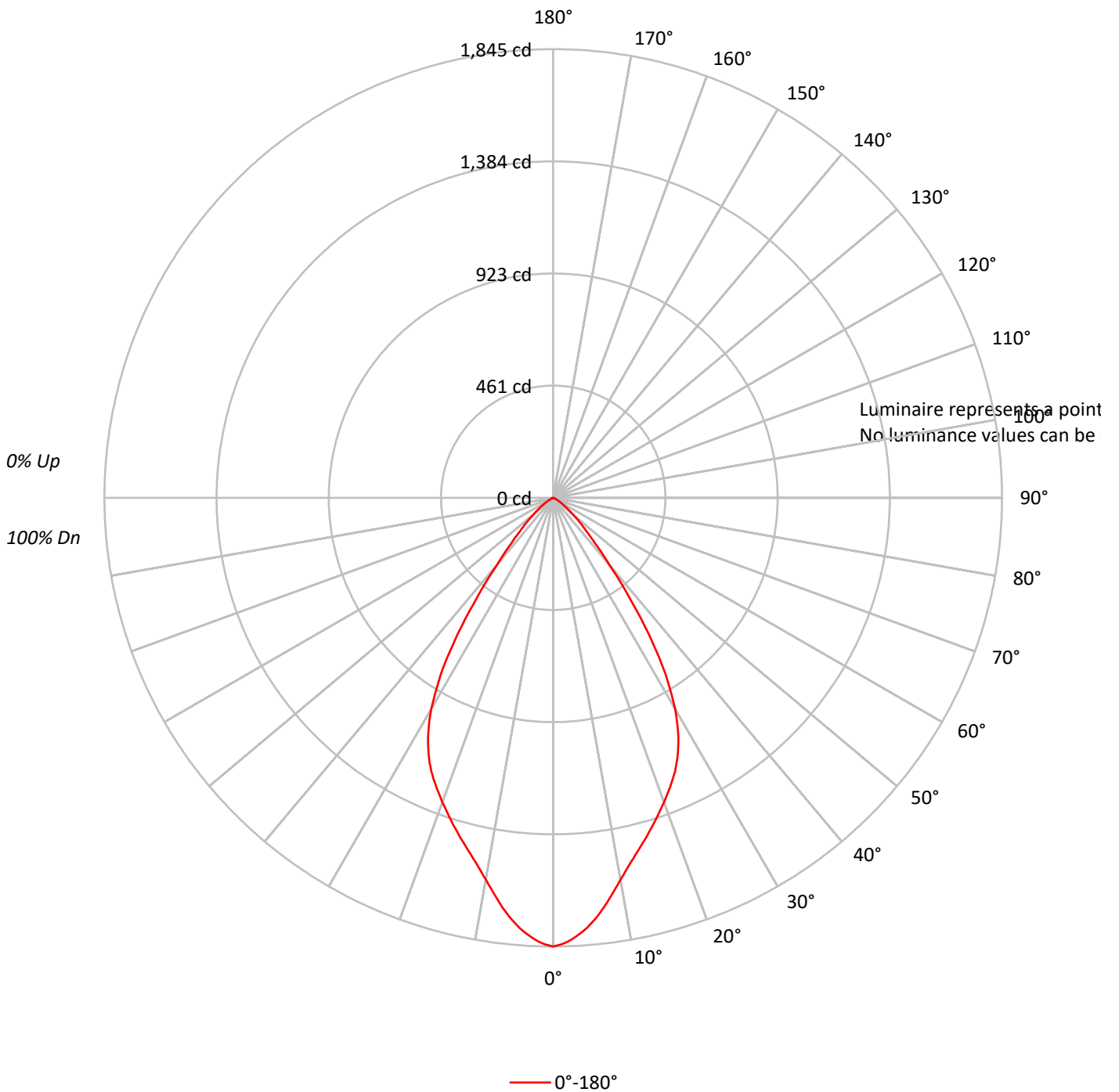
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | | 100 | 99 | 97 | | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | | 94 | 91 | 89 | | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | | 88 | 84 | 82 | | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 77 | 94 | 86 | 81 | 77 | 84 | 80 | 76 | | 82 | 78 | 75 | | 80 | 77 | 74 | 73 |
| 5 | 90 | 82 | 75 | 71 | 89 | 81 | 75 | 70 | 79 | 74 | 70 | | 77 | 73 | 69 | | 75 | 72 | 69 | 67 |
| 6 | 85 | 76 | 70 | 65 | 84 | 75 | 69 | 65 | 74 | 68 | 64 | | 72 | 68 | 64 | | 71 | 67 | 64 | 62 |
| 7 | 81 | 71 | 65 | 60 | 80 | 70 | 64 | 60 | 69 | 64 | 60 | | 68 | 63 | 59 | | 67 | 62 | 59 | 58 |
| 8 | 77 | 67 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | | 64 | 59 | 55 | | 63 | 58 | 55 | 54 |
| 9 | 73 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | | 60 | 55 | 52 | | 59 | 55 | 51 | 50 |
| 10 | 69 | 59 | 53 | 49 | 68 | 58 | 53 | 49 | 58 | 52 | 48 | | 57 | 52 | 48 | | 56 | 51 | 48 | 47 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 162.5 | 9.2 |
| 10°-20° | 409.1 | 23.2 |
| 20°-30° | 545.9 | 31.0 |
| 30°-40° | 420.8 | 23.9 |
| 40°-50° | 156.9 | 8.9 |
| 50°-60° | 51.3 | 2.9 |
| 60°-70° | 11.8 | 0.7 |
| 70°-80° | 2.4 | 0.1 |
| 80°-90° | 0.3 | 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° | 1117.6 | 63.5 |
| 0°-40° | 1538.3 | 87.4 |
| 0°-60° | 1746.5 | 99.2 |
| 0°-90° | 1761.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1761.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1845 | |
| 5° | 1760 | 163 |
| 15° | 1455 | 409 |
| 25° | 1202 | 546 |
| 35° | 685 | 421 |
| 45° | 191 | 157 |
| 55° | 54 | 51 |
| 65° | 10 | 12 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1845.4 |
| 1° | 1837.4 |
| 2° | 1824.0 |
| 3° | 1806.7 |
| 4° | 1785.6 |
| 5° | 1760.4 |
| 6° | 1731.8 |
| 7° | 1699.0 |
| 8° | 1664.0 |
| 9° | 1627.9 |
| 10° | 1594.6 |
| 11° | 1562.7 |
| 12° | 1532.7 |
| 13° | 1505.4 |
| 14° | 1480.2 |
| 15° | 1455.4 |
| 16° | 1430.1 |
| 17° | 1405.7 |
| 18° | 1380.5 |
| 19° | 1355.6 |
| 20° | 1331.6 |
| 21° | 1306.9 |
| 22° | 1282.9 |
| 23° | 1257.6 |
| 24° | 1231.1 |
| 25° | 1201.6 |
| 26° | 1169.2 |
| 27° | 1133.4 |
| 28° | 1094.0 |
| 29° | 1049.7 |
| 30° | 1001.4 |
| 32.5° | 859.6 |
| 35° | 684.6 |
| 37.5° | 507.0 |
| 40° | 358.9 |
| 42.5° | 257.0 |
| 45° | 190.6 |
| 47.5° | 143.5 |
| 50° | 106.0 |
| 52.5° | 75.8 |
| 55° | 53.8 |
| 57.5° | 37.0 |
| 60° | 24.4 |
| 62.5° | 16.0 |
| 65° | 10.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 7.2 |
| 70° | 4.6 |
| 72.5° | 2.9 |
| 75° | 2.1 |
| 77.5° | 1.2 |
| 80° | 0.9 |
| 82.5° | 0.4 |
| 85° | 0.4 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)