

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: P246746

Luminaire Tested: **LSR8B20D010 EC8B20930 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20930 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1796.9 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

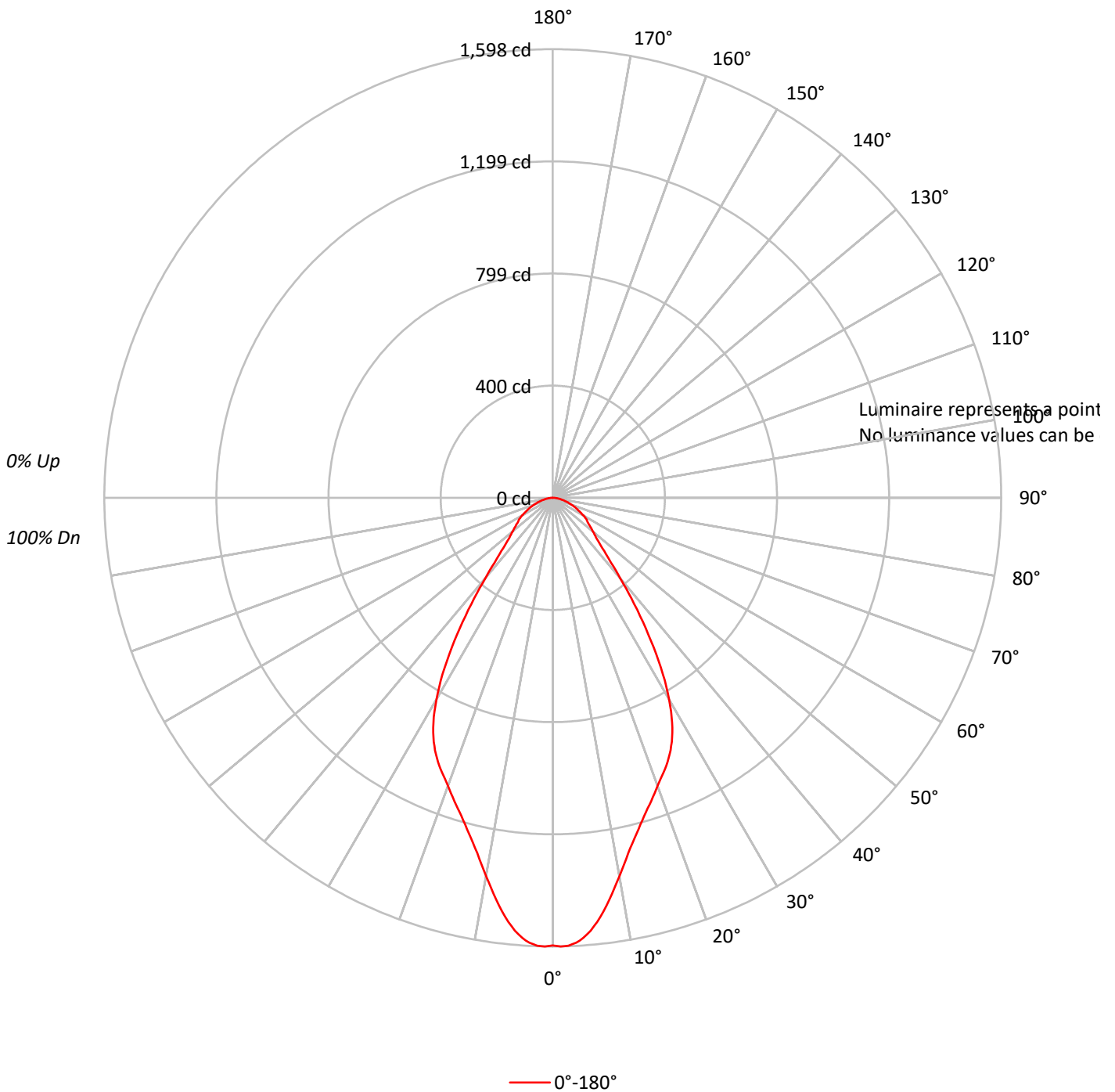
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | 90 | 86 | 83 | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 76 | 73 | 71 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 65 |
| 5 | 85 | 75 | 68 | 63 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 60 | 59 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 44 | 66 | 56 | 49 | 44 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 42 |
| 10 | 64 | 53 | 46 | 41 | 63 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 50 | 45 | 41 | 39 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 141.7 | 7.9 |
| 10°-20° | 340.0 | 18.9 |
| 20°-30° | 450.5 | 25.1 |
| 30°-40° | 369.5 | 20.6 |
| 40°-50° | 196.8 | 11.0 |
| 50°-60° | 138.5 | 7.7 |
| 60°-70° | 95.5 | 5.3 |
| 70°-80° | 49.7 | 2.8 |
| 80°-90° | 14.7 | 0.8 |
| 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° | 932.2 | 51.9 |
| 0°-40° | 1301.7 | 72.4 |
| 0°-60° | 1637.0 | 91.1 |
| 0°-90° | 1796.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1796.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1594 | |
| 5° | 1548 | 142 |
| 15° | 1206 | 340 |
| 25° | 992 | 451 |
| 35° | 594 | 369 |
| 45° | 243 | 197 |
| 55° | 152 | 139 |
| 65° | 96 | 95 |
| 75° | 47 | 50 |
| 85° | 14 | 15 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1594.1 |
| 1° | 1598.5 |
| 2° | 1596.6 |
| 3° | 1587.2 |
| 4° | 1571.0 |
| 5° | 1547.8 |
| 6° | 1518.6 |
| 7° | 1483.8 |
| 8° | 1446.2 |
| 9° | 1406.4 |
| 10° | 1367.8 |
| 11° | 1331.0 |
| 12° | 1293.5 |
| 13° | 1262.2 |
| 14° | 1232.7 |
| 15° | 1205.6 |
| 16° | 1180.2 |
| 17° | 1156.6 |
| 18° | 1134.9 |
| 19° | 1113.2 |
| 20° | 1092.3 |
| 21° | 1071.9 |
| 22° | 1054.3 |
| 23° | 1036.1 |
| 24° | 1014.8 |
| 25° | 992.4 |
| 26° | 967.0 |
| 27° | 938.4 |
| 28° | 906.1 |
| 29° | 870.2 |
| 30° | 829.2 |
| 31° | 786.0 |
| 32° | 740.8 |
| 33° | 692.6 |
| 34° | 644.0 |
| 35° | 594.2 |
| 37.5° | 476.2 |
| 40° | 373.3 |
| 42.5° | 294.7 |
| 45° | 242.8 |
| 47.5° | 208.5 |
| 50° | 187.2 |
| 52.5° | 168.5 |
| 55° | 152.3 |
| 57.5° | 142.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-------|
| 60° | 125.8 |
| 62.5° | 109.7 |
| 65° | 95.6 |
| 67.5° | 83.2 |
| 70° | 69.6 |
| 72.5° | 58.2 |
| 75° | 47.4 |
| 77.5° | 34.3 |
| 80° | 28.0 |
| 82.5° | 20.3 |
| 85° | 13.6 |
| 87.5° | 6.3 |
| 90° | 0.0 |

(END OF REPORT)