

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: P244233

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244233
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 EC8B30827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2908.9 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

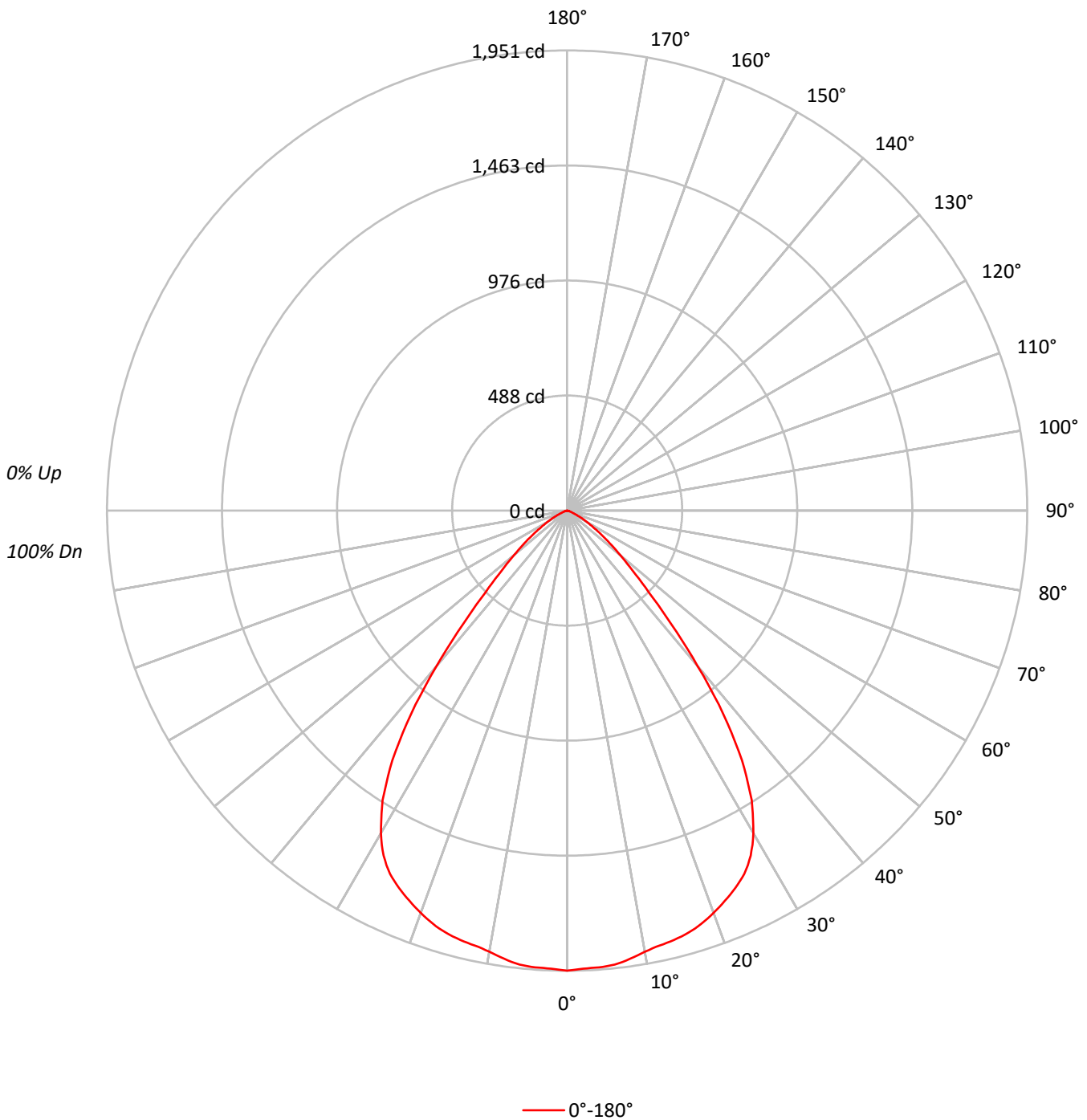
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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):

| | |
|-----|-------|
| | 0° |
| 0° | 60149 |
| 5° | 60014 |
| 10° | 59471 |
| 15° | 59695 |
| 20° | 59566 |
| 25° | 58988 |
| 30° | 56223 |
| 35° | 48678 |
| 40° | 34723 |
| 45° | 21338 |
| 50° | 14075 |
| 55° | 9311 |
| 60° | 5964 |
| 65° | 3254 |
| 70° | 1596 |
| 75° | 798 |
| 80° | 444 |
| 85° | 283 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.8 | 6.3 |
| 10°-20° | 527.4 | 18.1 |
| 20°-30° | 793.7 | 27.3 |
| 30°-40° | 785.8 | 27.0 |
| 40°-50° | 399.3 | 13.7 |
| 50°-60° | 160.9 | 5.5 |
| 60°-70° | 48.7 | 1.7 |
| 70°-80° | 8.4 | 0.3 |
| 80°-90° | 1.0 | 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° | 1504.9 | 51.7 |
| 0°-40° | 2290.7 | 78.7 |
| 0°-60° | 2850.8 | 98.0 |
| 0°-90° | 2908.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2908.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1951 | |
| 5° | 1939 | 184 |
| 15° | 1870 | 527 |
| 25° | 1734 | 794 |
| 35° | 1293 | 786 |
| 45° | 489 | 399 |
| 55° | 173 | 161 |
| 65° | 45 | 49 |
| 75° | 7 | 8 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1950.6 |
| 1° | 1946.4 |
| 2° | 1943.0 |
| 3° | 1942.2 |
| 4° | 1941.4 |
| 5° | 1938.8 |
| 6° | 1935.5 |
| 7° | 1928.7 |
| 8° | 1918.7 |
| 9° | 1909.4 |
| 10° | 1899.3 |
| 11° | 1890.9 |
| 12° | 1885.0 |
| 13° | 1880.8 |
| 14° | 1875.8 |
| 15° | 1869.9 |
| 16° | 1862.3 |
| 17° | 1853.1 |
| 18° | 1842.1 |
| 19° | 1829.5 |
| 20° | 1815.2 |
| 21° | 1800.1 |
| 22° | 1785.0 |
| 23° | 1769.0 |
| 24° | 1752.2 |
| 25° | 1733.7 |
| 26° | 1713.5 |
| 27° | 1687.4 |
| 28° | 1657.2 |
| 29° | 1621.0 |
| 30° | 1579.0 |
| 32.5° | 1456.2 |
| 35° | 1293.1 |
| 37.5° | 1089.6 |
| 40° | 862.6 |
| 42.5° | 651.6 |
| 45° | 489.3 |
| 47.5° | 374.1 |
| 50° | 293.4 |
| 52.5° | 227.9 |
| 55° | 173.2 |
| 57.5° | 128.6 |
| 60° | 96.7 |
| 62.5° | 68.9 |
| 65° | 44.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 27.7 |
| 70° | 17.7 |
| 72.5° | 10.9 |
| 75° | 6.7 |
| 77.5° | 4.2 |
| 80° | 2.5 |
| 82.5° | 1.7 |
| 85° | 0.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)