

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: P250481

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150840 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13980.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

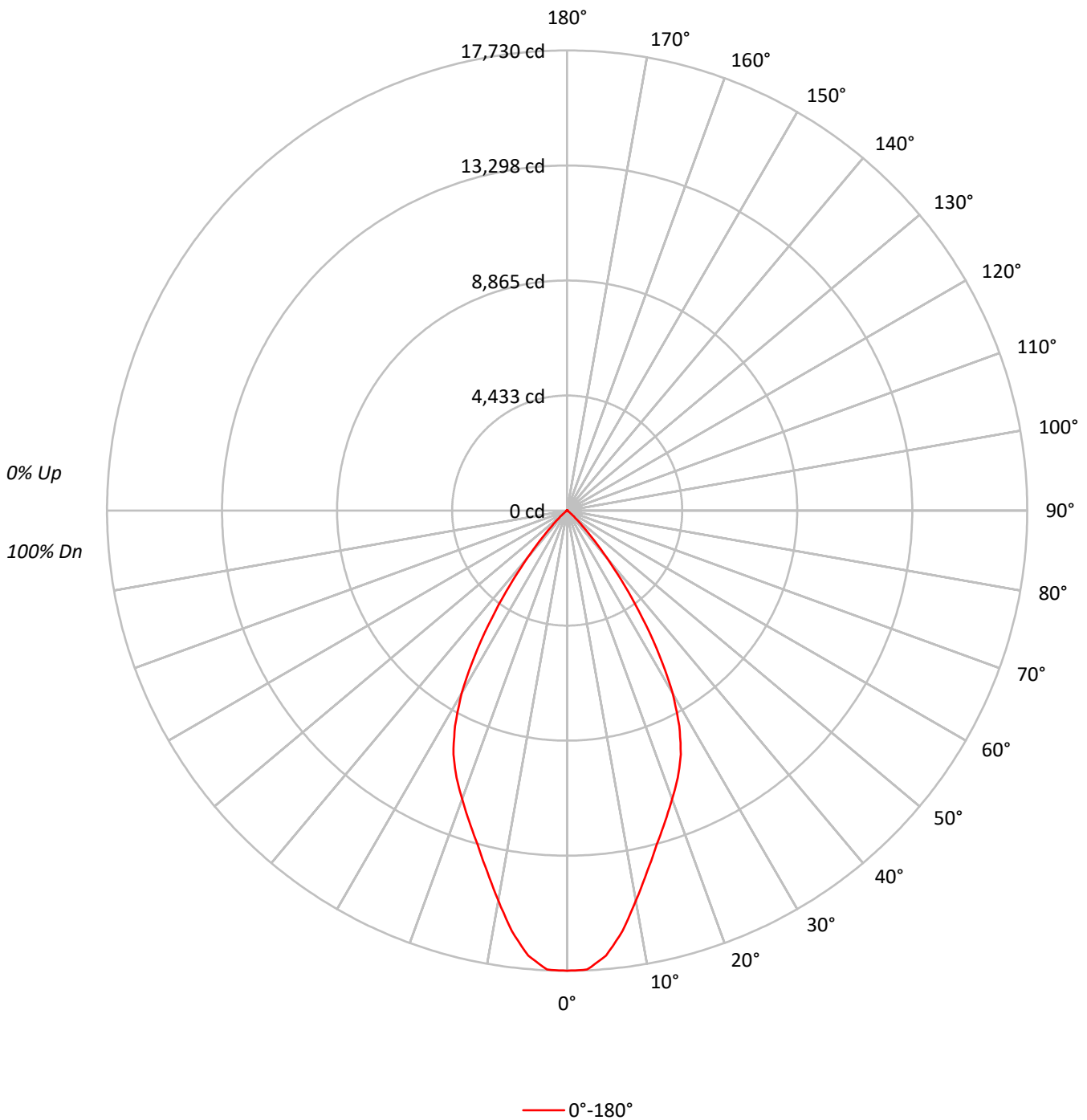
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 96 | 95 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 |
| 3 | 103 | 96 | 92 | 88 | 101 | 95 | 91 | 87 | 92 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 |
| 6 | 88 | 79 | 73 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | 76 | 71 | 68 | 74 | 71 | 68 | 66 |
| 7 | 84 | 75 | 69 | 65 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 72 | 67 | 64 | 70 | 66 | 63 | 62 |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 58 |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 55 |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 546737 |
| 5° | 532915 |
| 10° | 477731 |
| 15° | 425488 |
| 20° | 388149 |
| 25° | 352656 |
| 30° | 289173 |
| 35° | 190310 |
| 40° | 94935 |
| 45° | 35336 |
| 50° | 10732 |
| 55° | 1296 |
| 60° | 746 |
| 65° | 0 |
| 70° | 550 |
| 75° | 2168 |
| 80° | 0 |
| 85° | 2158 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1578.5 | 11.3 |
| 10°-20° | 3753.1 | 26.8 |
| 20°-30° | 4675.7 | 33.4 |
| 30°-40° | 3153.9 | 22.6 |
| 40°-50° | 745.8 | 5.3 |
| 50°-60° | 54.5 | 0.4 |
| 60°-70° | 9.7 | 0.1 |
| 70°-80° | 7.2 | 0.1 |
| 80°-90° | 1.7 | 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° | 10007.3 | 71.6 |
| 0°-40° | 13161.2 | 94.1 |
| 0°-60° | 13961.4 | 99.9 |
| 0°-90° | 13980.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13980.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 17730 | |
| 5° | 17216 | ### |
| 15° | 13328 | 3753 |
| 25° | 10365 | 4676 |
| 35° | 5056 | 3154 |
| 45° | 810 | 746 |
| 55° | 24 | 55 |
| 65° | 0 | 10 |
| 75° | 18 | 7 |
| 85° | 6 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 17730.3 |
| 2.5° | 17700.1 |
| 5° | 17216.3 |
| 7.5° | 16339.4 |
| 10° | 15257.1 |
| 12.5° | 14235.1 |
| 15° | 13328.1 |
| 17.5° | 12547.8 |
| 20° | 11828.3 |
| 22.5° | 11138.9 |
| 25° | 10364.9 |
| 27.5° | 9355.1 |
| 30° | 8121.3 |
| 32.5° | 6627.8 |
| 35° | 5055.5 |
| 37.5° | 3616.3 |
| 40° | 2358.4 |
| 42.5° | 1409.1 |
| 45° | 810.3 |
| 47.5° | 453.5 |
| 50° | 223.7 |
| 52.5° | 102.8 |
| 55° | 24.1 |
| 57.5° | 6.1 |
| 60° | 12.1 |
| 62.5° | 18.2 |
| 65° | 0.0 |
| 67.5° | 12.1 |
| 70° | 6.1 |
| 72.5° | 6.1 |
| 75° | 18.2 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 6.1 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)