

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: P245789

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50935 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4650.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

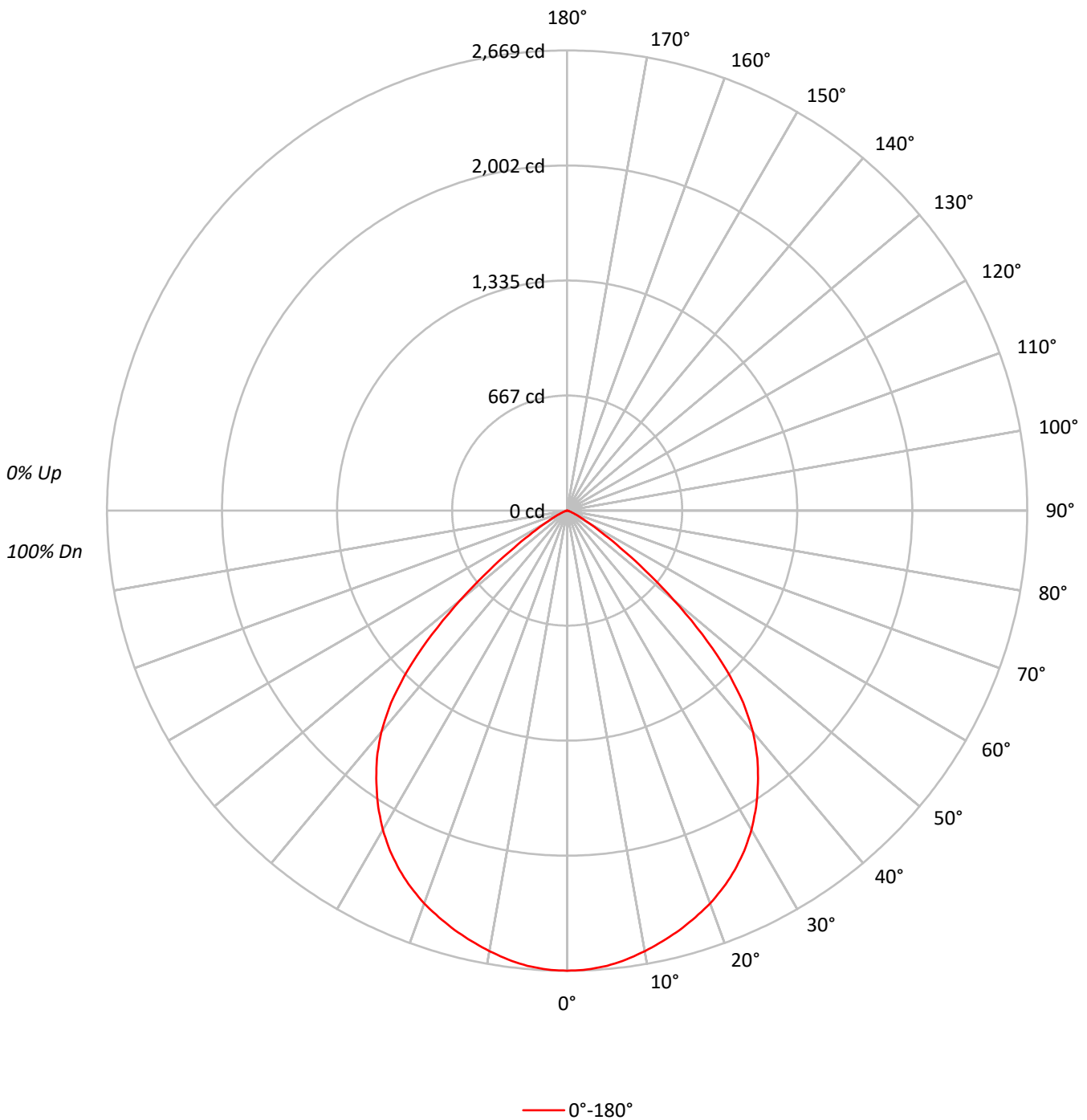
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | | 99 | 97 | 95 | | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | | 91 | 88 | 85 | | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | | 83 | 79 | 76 | | 81 | 77 | 74 | 73 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 69 | | 76 | 72 | 68 | | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | | 70 | 65 | 61 | | 68 | 64 | 60 | 58 |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | | 64 | 59 | 55 | | 63 | 58 | 54 | 53 |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | | 59 | 54 | 50 | | 58 | 53 | 49 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 50 | 46 | 56 | 50 | 45 | | 55 | 49 | 45 | | 54 | 49 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | | 51 | 45 | 41 | | 50 | 45 | 41 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | | 48 | 42 | 38 | | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 82305 |
| 5° | 82056 |
| 10° | 81245 |
| 15° | 80414 |
| 20° | 79571 |
| 25° | 78269 |
| 30° | 76127 |
| 35° | 72657 |
| 40° | 67554 |
| 45° | 57041 |
| 50° | 38728 |
| 55° | 20230 |
| 60° | 9078 |
| 65° | 4429 |
| 70° | 1776 |
| 75° | 1084 |
| 80° | 817 |
| 85° | 531 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 251.2 | 5.4 |
| 10°-20° | 710.5 | 15.3 |
| 20°-30° | 1057.6 | 22.7 |
| 30°-40° | 1202.3 | 25.9 |
| 40°-50° | 983.1 | 21.1 |
| 50°-60° | 366.5 | 7.9 |
| 60°-70° | 67.0 | 1.4 |
| 70°-80° | 10.4 | 0.2 |
| 80°-90° | 1.4 | 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° | 2019.3 | 43.4 |
| 0°-40° | 3221.6 | 69.3 |
| 0°-60° | 4571.2 | 98.3 |
| 0°-90° | 4650.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4650.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2669 | |
| 5° | 2651 | 251 |
| 15° | 2519 | 710 |
| 25° | 2300 | 1058 |
| 35° | 1930 | 1202 |
| 45° | 1308 | 983 |
| 55° | 376 | 366 |
| 65° | 61 | 67 |
| 75° | 9 | 10 |
| 85° | 2 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2669.1 |
| 2.5° | 2664.5 |
| 5° | 2650.9 |
| 7.5° | 2626.6 |
| 10° | 2594.7 |
| 12.5° | 2558.3 |
| 15° | 2518.9 |
| 17.5° | 2473.3 |
| 20° | 2424.8 |
| 22.5° | 2367.1 |
| 25° | 2300.4 |
| 27.5° | 2224.5 |
| 30° | 2138.0 |
| 32.5° | 2039.4 |
| 35° | 1930.1 |
| 37.5° | 1813.3 |
| 40° | 1678.2 |
| 42.5° | 1511.3 |
| 45° | 1308.0 |
| 47.5° | 1063.7 |
| 50° | 807.3 |
| 52.5° | 569.0 |
| 55° | 376.3 |
| 57.5° | 236.7 |
| 60° | 147.2 |
| 62.5° | 94.1 |
| 65° | 60.7 |
| 67.5° | 34.9 |
| 70° | 19.7 |
| 72.5° | 12.1 |
| 75° | 9.1 |
| 77.5° | 6.1 |
| 80° | 4.6 |
| 82.5° | 1.5 |
| 85° | 1.5 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)