

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: P244450

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40827 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 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: 4525.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

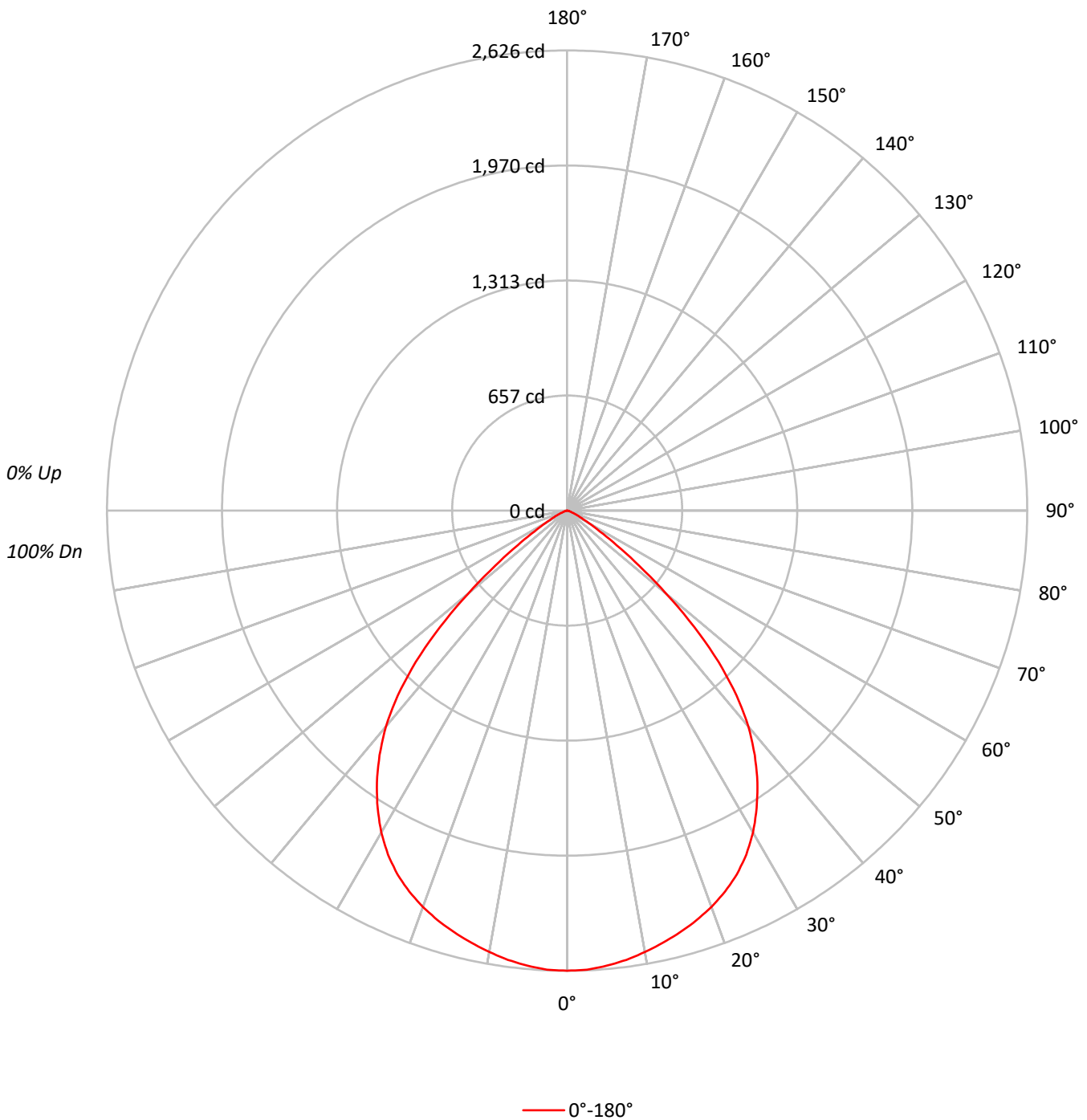
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 89 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 75 | 70 | 79 | 73 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 63 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 60 | 59 |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 56 | 65 | 59 | 55 | 63 | 58 | 55 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 45 | 42 | 40 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 80976 |
| 5° | 80707 |
| 10° | 80093 |
| 15° | 79529 |
| 20° | 78990 |
| 25° | 77953 |
| 30° | 75543 |
| 35° | 71276 |
| 40° | 64777 |
| 45° | 53303 |
| 50° | 35529 |
| 55° | 18510 |
| 60° | 8721 |
| 65° | 4575 |
| 70° | 2290 |
| 75° | 1585 |
| 80° | 1190 |
| 85° | 955 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.3 | 5.5 |
| 10°-20° | 703.1 | 15.5 |
| 20°-30° | 1051.8 | 23.2 |
| 30°-40° | 1176.5 | 26.0 |
| 40°-50° | 923.0 | 20.4 |
| 50°-60° | 336.8 | 7.4 |
| 60°-70° | 68.6 | 1.5 |
| 70°-80° | 14.7 | 0.3 |
| 80°-90° | 3.1 | 0.1 |
| 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° | 2002.3 | 44.2 |
| 0°-40° | 3178.8 | 70.2 |
| 0°-60° | 4438.5 | 98.1 |
| 0°-90° | 4525.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4525.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2626 | |
| 5° | 2607 | 247 |
| 15° | 2491 | 703 |
| 25° | 2291 | 1052 |
| 35° | 1893 | 1176 |
| 45° | 1222 | 923 |
| 55° | 344 | 337 |
| 65° | 63 | 69 |
| 75° | 13 | 15 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2626.0 |
| 2.5° | 2622.0 |
| 5° | 2607.3 |
| 7.5° | 2585.9 |
| 10° | 2557.9 |
| 12.5° | 2525.9 |
| 15° | 2491.2 |
| 17.5° | 2452.5 |
| 20° | 2407.1 |
| 22.5° | 2353.8 |
| 25° | 2291.1 |
| 27.5° | 2213.7 |
| 30° | 2121.6 |
| 32.5° | 2013.5 |
| 35° | 1893.4 |
| 37.5° | 1758.7 |
| 40° | 1609.2 |
| 42.5° | 1431.7 |
| 45° | 1222.3 |
| 47.5° | 986.1 |
| 50° | 740.6 |
| 52.5° | 519.1 |
| 55° | 344.3 |
| 57.5° | 220.2 |
| 60° | 141.4 |
| 62.5° | 93.4 |
| 65° | 62.7 |
| 67.5° | 40.0 |
| 70° | 25.4 |
| 72.5° | 17.3 |
| 75° | 13.3 |
| 77.5° | 9.3 |
| 80° | 6.7 |
| 82.5° | 4.0 |
| 85° | 2.7 |
| 87.5° | 1.3 |
| 90° | 0.0 |

(END OF REPORT)