

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: P251287

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251287
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: LSR8B70D010 EC8B70830 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7170.9 lumens
Efficiency: N/A
Efficacy: 94.5 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

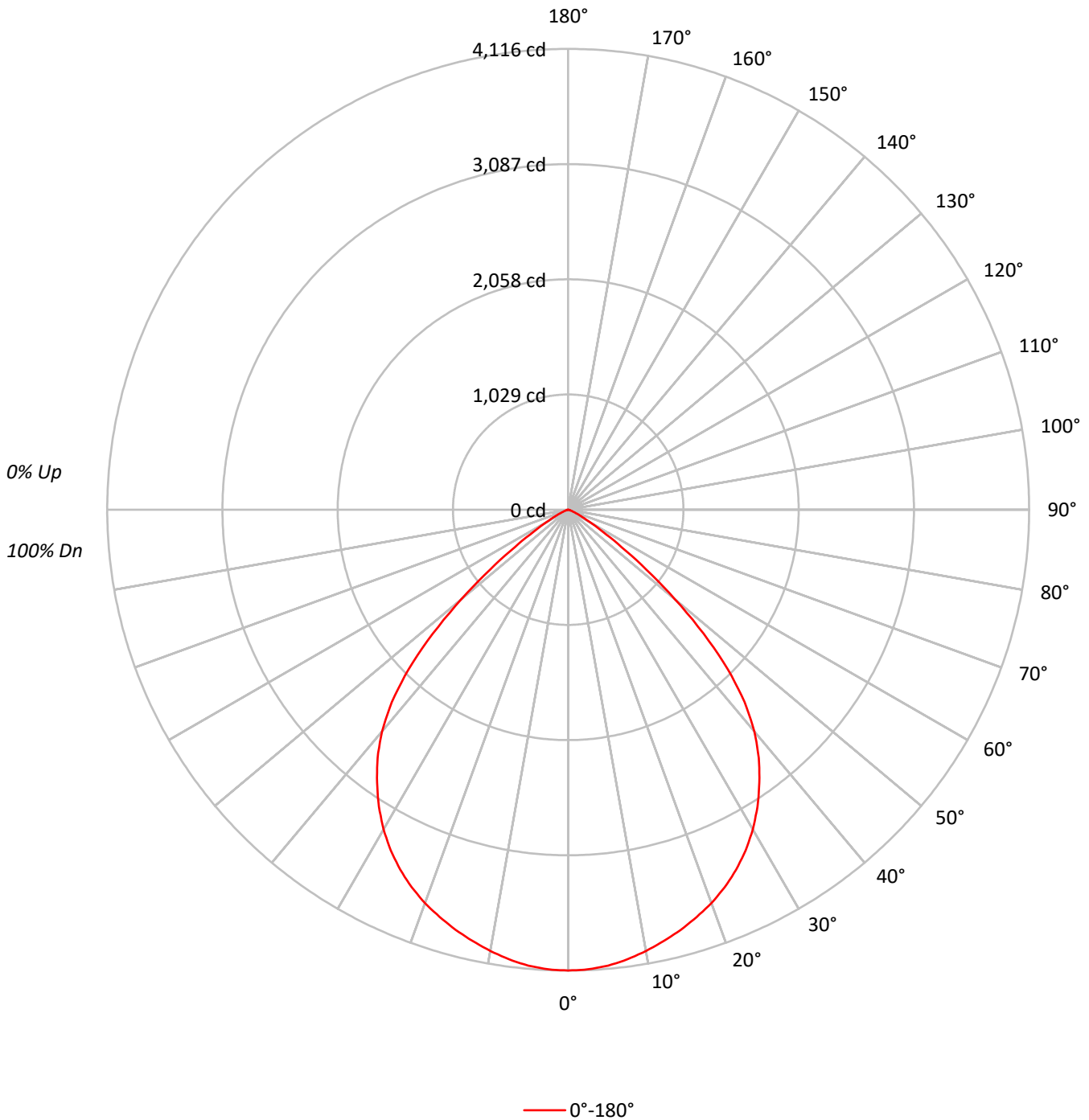
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 126925 |
| 5° | 126543 |
| 10° | 125295 |
| 15° | 124009 |
| 20° | 122710 |
| 25° | 120701 |
| 30° | 117399 |
| 35° | 112048 |
| 40° | 104181 |
| 45° | 87964 |
| 50° | 59721 |
| 55° | 31198 |
| 60° | 14000 |
| 65° | 6830 |
| 70° | 2741 |
| 75° | 1668 |
| 80° | 1243 |
| 85° | 814 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 387.4 | 5.4 |
| 10°-20° | 1095.7 | 15.3 |
| 20°-30° | 1631.0 | 22.7 |
| 30°-40° | 1854.1 | 25.9 |
| 40°-50° | 1516.1 | 21.1 |
| 50°-60° | 565.1 | 7.9 |
| 60°-70° | 103.3 | 1.4 |
| 70°-80° | 16.0 | 0.2 |
| 80°-90° | 2.2 | 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° | 3114.1 | 43.4 |
| 0°-40° | 4968.2 | 69.3 |
| 0°-60° | 7049.4 | 98.3 |
| 0°-90° | 7170.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7170.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4116 | |
| 5° | 4088 | 387 |
| 15° | 3884 | 1096 |
| 25° | 3548 | 1631 |
| 35° | 2976 | 1854 |
| 45° | 2017 | 1516 |
| 55° | 580 | 565 |
| 65° | 94 | 103 |
| 75° | 14 | 16 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4116.1 |
| 2.5° | 4109.1 |
| 5° | 4088.1 |
| 7.5° | 4050.6 |
| 10° | 4001.5 |
| 12.5° | 3945.3 |
| 15° | 3884.5 |
| 17.5° | 3814.3 |
| 20° | 3739.4 |
| 22.5° | 3650.5 |
| 25° | 3547.5 |
| 27.5° | 3430.5 |
| 30° | 3297.1 |
| 32.5° | 3145.0 |
| 35° | 2976.5 |
| 37.5° | 2796.4 |
| 40° | 2588.1 |
| 42.5° | 2330.7 |
| 45° | 2017.1 |
| 47.5° | 1640.4 |
| 50° | 1244.9 |
| 52.5° | 877.5 |
| 55° | 580.3 |
| 57.5° | 365.0 |
| 60° | 227.0 |
| 62.5° | 145.1 |
| 65° | 93.6 |
| 67.5° | 53.8 |
| 70° | 30.4 |
| 72.5° | 18.7 |
| 75° | 14.0 |
| 77.5° | 9.4 |
| 80° | 7.0 |
| 82.5° | 2.3 |
| 85° | 2.3 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)