

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: P246325

Luminaire Tested: **LSR8B15D010 EC8B15830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B15830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 881.0 lumens
Efficiency: 46.7%
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

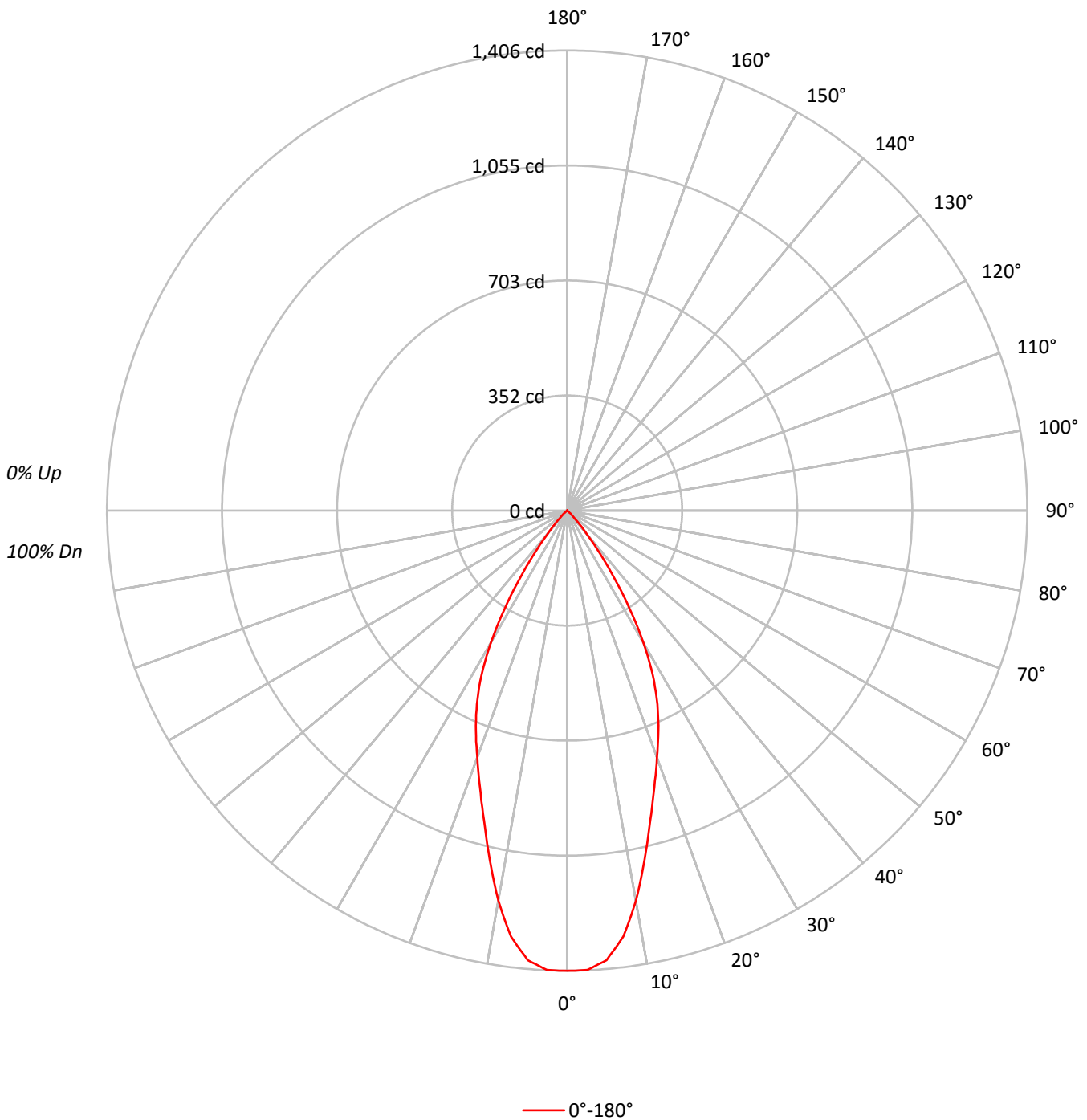
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 56 | 56 | 56 | 56 | 54 | 54 | 54 | 54 | 52 | 52 | 52 | 50 | 50 | 50 | 48 | 48 | 48 | 47 |
| 1 | 53 | 52 | 51 | 50 | 52 | 51 | 50 | 49 | 49 | 48 | 48 | 47 | 47 | 46 | 46 | 45 | 45 | 44 |
| 2 | 51 | 49 | 47 | 45 | 50 | 48 | 46 | 45 | 46 | 45 | 44 | 45 | 44 | 43 | 44 | 43 | 42 | 41 |
| 3 | 49 | 46 | 44 | 42 | 48 | 45 | 43 | 42 | 44 | 42 | 41 | 43 | 41 | 40 | 42 | 41 | 40 | 39 |
| 4 | 46 | 43 | 41 | 39 | 45 | 43 | 40 | 39 | 42 | 40 | 38 | 41 | 39 | 38 | 40 | 38 | 37 | 37 |
| 5 | 44 | 41 | 38 | 36 | 43 | 40 | 38 | 36 | 39 | 37 | 36 | 39 | 37 | 35 | 38 | 36 | 35 | 34 |
| 6 | 42 | 38 | 36 | 34 | 42 | 38 | 36 | 34 | 37 | 35 | 34 | 37 | 35 | 33 | 36 | 34 | 33 | 33 |
| 7 | 40 | 36 | 34 | 32 | 40 | 36 | 34 | 32 | 35 | 33 | 32 | 35 | 33 | 31 | 34 | 33 | 31 | 31 |
| 8 | 39 | 34 | 32 | 30 | 38 | 34 | 32 | 30 | 34 | 31 | 30 | 33 | 31 | 30 | 33 | 31 | 30 | 29 |
| 9 | 37 | 33 | 30 | 28 | 36 | 32 | 30 | 28 | 32 | 30 | 28 | 32 | 30 | 28 | 31 | 29 | 28 | 28 |
| 10 | 35 | 31 | 29 | 27 | 35 | 31 | 29 | 27 | 31 | 28 | 27 | 30 | 28 | 27 | 30 | 28 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 43362 |
| 5° | 42676 |
| 10° | 37913 |
| 15° | 31282 |
| 20° | 26341 |
| 25° | 22218 |
| 30° | 16643 |
| 35° | 9411 |
| 40° | 3715 |
| 45° | 994 |
| 50° | 201 |
| 55° | 0 |
| 60° | 31 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | 0° | Flux | |
|-----------|--------|-----------|--------|------|------|-----|
| 0°-10° | 126.2 | 14.3 | 6.7 | 0° | 1406 | |
| 10°-20° | 275.0 | 31.2 | 14.6 | 5° | 1379 | 126 |
| 20°-30° | 294.6 | 33.4 | 15.6 | 15° | 980 | 275 |
| 30°-40° | 159.6 | 18.1 | 8.5 | 25° | 653 | 295 |
| 40°-50° | 24.8 | 2.8 | 1.3 | 35° | 250 | 160 |
| 50°-60° | 0.7 | 0.1 | 0.0 | 45° | 23 | 25 |
| 60°-70° | 0.2 | 0.0 | 0.0 | 55° | 0 | 1 |
| 70°-80° | 0.0 | 0.0 | 0.0 | 65° | 0 | 0 |
| 80°-90° | 0.0 | 0.0 | 0.0 | 75° | 0 | 0 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 0 | 0 |
| 100°-110° | 0.0 | 0.0 | 0.0 | 90° | 0 | 0 |
| 110°-120° | 0.0 | 0.0 | 0.0 | 95° | 0 | 0 |
| 120°-130° | 0.0 | 0.0 | 0.0 | 105° | 0 | 0 |
| 130°-140° | 0.0 | 0.0 | 0.0 | 115° | 0 | 0 |
| 140°-150° | 0.0 | 0.0 | 0.0 | 125° | 0 | 0 |
| 150°-160° | 0.0 | 0.0 | 0.0 | 135° | 0 | 0 |
| 160°-170° | 0.0 | 0.0 | 0.0 | 145° | 0 | 0 |
| 170°-180° | 0.0 | 0.0 | 0.0 | 155° | 0 | 0 |
| 0°-30° | 695.7 | 79.0 | 36.9 | 165° | 0 | 0 |
| 0°-40° | 855.3 | 97.1 | 45.3 | 175° | 0 | 0 |
| 0°-60° | 880.8 | 100.0 | 46.7 | 180° | 0 | 0 |
| 0°-90° | 881.0 | 100.0 | 46.7 | | | |
| 90°-120° | 0.0 | 0.0 | 0.0 | | | |
| 90°-150° | 0.0 | 0.0 | 0.0 | | | |
| 90°-180° | 0.0 | 0.0 | 0.0 | | | |
| 0°-180° | 881.0 | 100.0 | 46.7 | | | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 1406.2 |
| 2.5° | 1405.3 |
| 5° | 1378.7 |
| 7.5° | 1313.0 |
| 10° | 1210.8 |
| 12.5° | 1091.9 |
| 15° | 979.9 |
| 17.5° | 885.3 |
| 20° | 802.7 |
| 22.5° | 728.5 |
| 25° | 653.0 |
| 27.5° | 567.6 |
| 30° | 467.4 |
| 32.5° | 356.4 |
| 35° | 250.0 |
| 37.5° | 160.0 |
| 40° | 92.3 |
| 42.5° | 49.4 |
| 45° | 22.8 |
| 47.5° | 12.1 |
| 50° | 4.2 |
| 52.5° | 0.5 |
| 55° | 0.0 |
| 57.5° | 0.5 |
| 60° | 0.5 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 0.5 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)