

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: P246342

Luminaire Tested: **LD8B10D010 ER8B10850 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246342
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: LD8B10D010 ER8B10850 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 685.0 lumens
Efficiency: 36.3%
Efficacy: 67.2 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

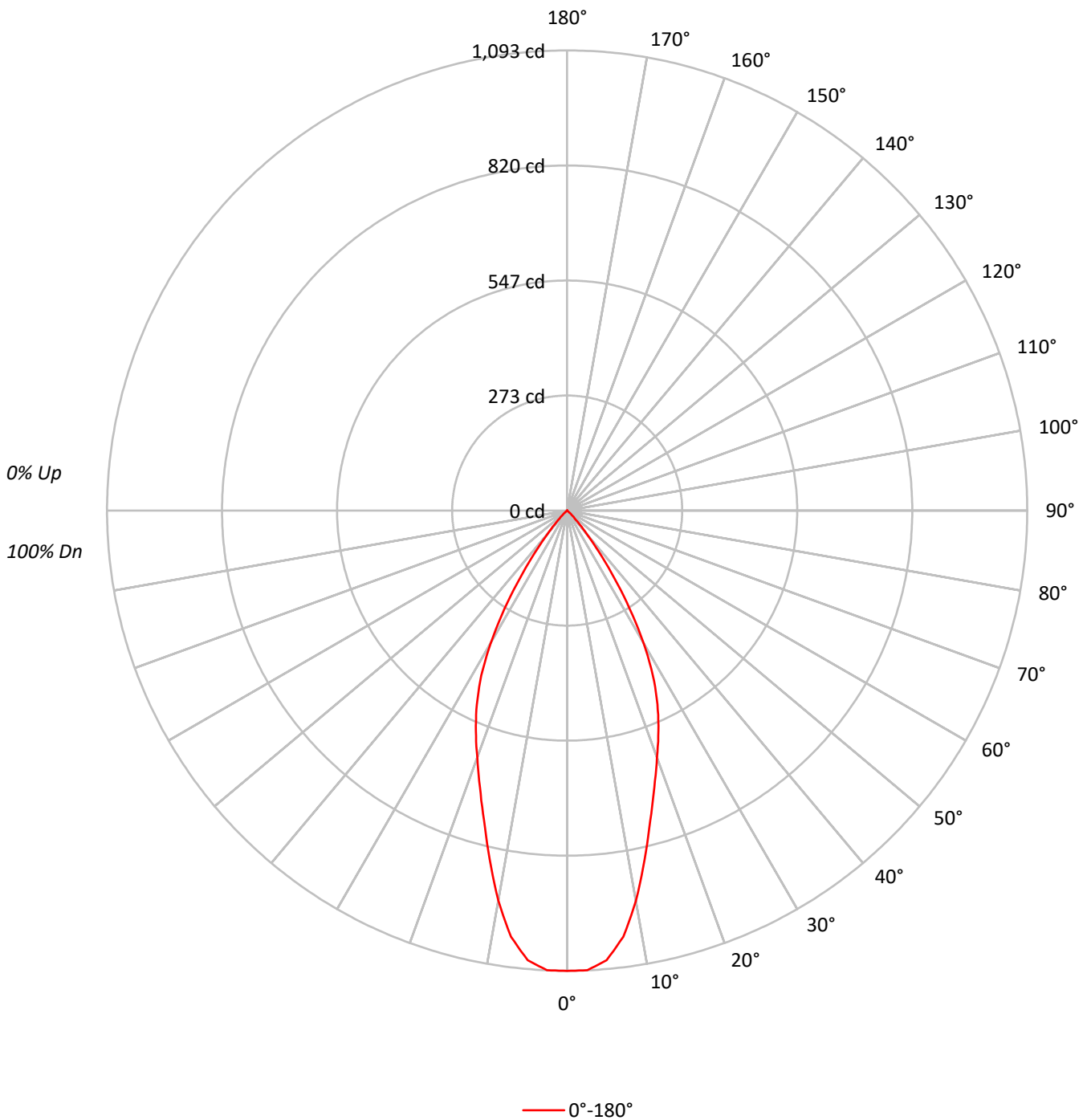
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 43 | 43 | 43 | 43 | 42 | 42 | 42 | 42 | 40 | 40 | 40 | 39 | 39 | 39 | 37 | 37 | 37 | 36 |
| 1 | 41 | 40 | 40 | 39 | 40 | 40 | 39 | 38 | 38 | 38 | 37 | 37 | 36 | 36 | 36 | 35 | 35 | 34 |
| 2 | 40 | 38 | 37 | 35 | 39 | 37 | 36 | 35 | 36 | 35 | 34 | 35 | 34 | 33 | 34 | 33 | 33 | 32 |
| 3 | 38 | 36 | 34 | 33 | 37 | 35 | 34 | 32 | 34 | 33 | 32 | 33 | 32 | 31 | 32 | 32 | 31 | 30 |
| 4 | 36 | 33 | 32 | 30 | 35 | 33 | 31 | 30 | 32 | 31 | 30 | 32 | 30 | 29 | 31 | 30 | 29 | 28 |
| 5 | 34 | 32 | 30 | 28 | 34 | 31 | 29 | 28 | 31 | 29 | 28 | 30 | 29 | 28 | 29 | 28 | 27 | 27 |
| 6 | 33 | 30 | 28 | 26 | 32 | 30 | 28 | 26 | 29 | 27 | 26 | 29 | 27 | 26 | 28 | 27 | 26 | 25 |
| 7 | 31 | 28 | 26 | 25 | 31 | 28 | 26 | 25 | 28 | 26 | 25 | 27 | 26 | 24 | 27 | 25 | 24 | 24 |
| 8 | 30 | 27 | 25 | 23 | 30 | 27 | 25 | 23 | 26 | 24 | 23 | 26 | 24 | 23 | 25 | 24 | 23 | 23 |
| 9 | 29 | 25 | 23 | 22 | 28 | 25 | 23 | 22 | 25 | 23 | 22 | 25 | 23 | 22 | 24 | 23 | 22 | 21 |
| 10 | 27 | 24 | 22 | 21 | 27 | 24 | 22 | 21 | 24 | 22 | 21 | 23 | 22 | 21 | 23 | 22 | 21 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 33716 |
| 5° | 33183 |
| 10° | 29477 |
| 15° | 24323 |
| 20° | 20480 |
| 25° | 17274 |
| 30° | 12939 |
| 35° | 7318 |
| 40° | 2890 |
| 45° | 772 |
| 50° | 154 |
| 55° | 0 |
| 60° | 25 |
| 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° | 98.1 | 14.3 | 5.2 | 0° | 1093 | |
| 10°-20° | 213.8 | 31.2 | 11.3 | 5° | 1072 | 98 |
| 20°-30° | 229.0 | 33.4 | 12.1 | 15° | 762 | 214 |
| 30°-40° | 124.1 | 18.1 | 6.6 | 25° | 508 | 229 |
| 40°-50° | 19.3 | 2.8 | 1.0 | 35° | 194 | 124 |
| 50°-60° | 0.6 | 0.1 | 0.0 | 45° | 18 | 19 |
| 60°-70° | 0.1 | 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° | 540.9 | 79.0 | 28.7 | 165° | 0 | 0 |
| 0°-40° | 665.0 | 97.1 | 35.2 | 175° | 0 | 0 |
| 0°-60° | 684.9 | 100.0 | 36.3 | 180° | 0 | 0 |
| 0°-90° | 685.0 | 100.0 | 36.3 | | | |
| 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° | 685.0 | 100.0 | 36.3 | | | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 1093.4 |
| 2.5° | 1092.7 |
| 5° | 1072.0 |
| 7.5° | 1020.9 |
| 10° | 941.4 |
| 12.5° | 848.9 |
| 15° | 761.9 |
| 17.5° | 688.3 |
| 20° | 624.1 |
| 22.5° | 566.5 |
| 25° | 507.7 |
| 27.5° | 441.4 |
| 30° | 363.4 |
| 32.5° | 277.1 |
| 35° | 194.4 |
| 37.5° | 124.4 |
| 40° | 71.8 |
| 42.5° | 38.4 |
| 45° | 17.7 |
| 47.5° | 9.4 |
| 50° | 3.2 |
| 52.5° | 0.4 |
| 55° | 0.0 |
| 57.5° | 0.4 |
| 60° | 0.4 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 0.4 |
| 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)