

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: P247837

Luminaire Tested: **LD8B200D010 ER8B200930 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200930 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16492.2 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

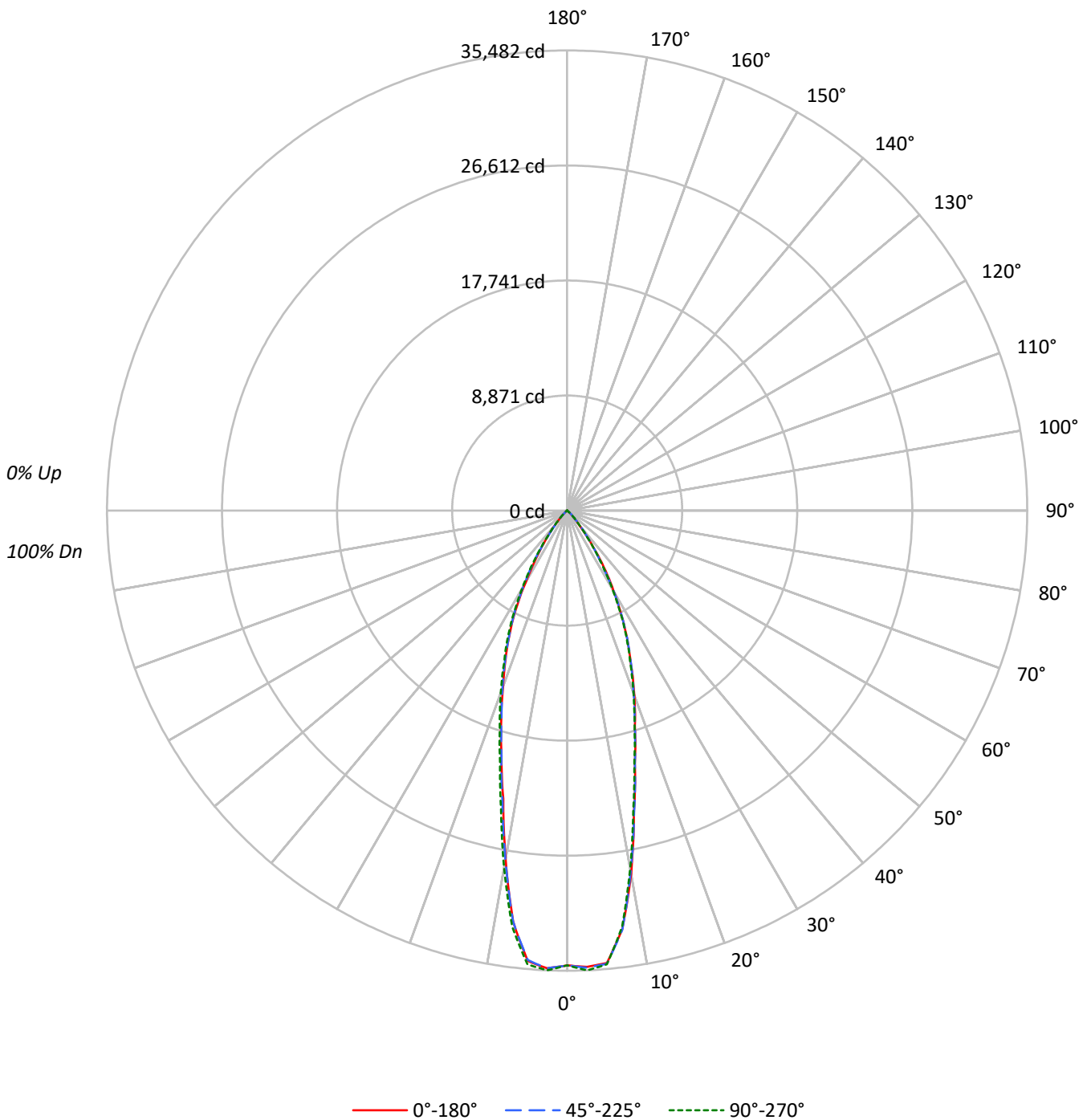
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBNOLI

Luminous Intensity Polar Plot





TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBNOLI

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 | 50 | 30 | 10 | 0 | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | | | |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 97 | 95 | 95 | 95 | 95 | | | |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 90 | 90 | 90 | 90 | | | |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 90 | 88 | 86 | 85 | 85 | 85 | 85 | | | |
| 4 | 100 | 94 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 87 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 80 | 80 | 80 | 80 | | | |
| 5 | 96 | 89 | 83 | 80 | 94 | 88 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 77 | 76 | 76 | 76 | 76 | | | |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 78 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 72 | 72 | 72 | 72 | | | |
| 7 | 88 | 80 | 75 | 71 | 87 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 | 69 | 69 | 69 | | | |
| 8 | 85 | 76 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 | 65 | 65 | 65 | | | |
| 9 | 81 | 73 | 68 | 64 | 80 | 72 | 67 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | 62 | 62 | 62 | | | |
| 10 | 78 | 70 | 65 | 61 | 77 | 69 | 64 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 61 | 60 | 60 | 60 | 60 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--|-----|------|
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBNOLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 3099.5 | 18.8 |
| 10°-20° | 5616.6 | 34.1 |
| 20°-30° | 4893.9 | 29.7 |
| 30°-40° | 2331.0 | 14.1 |
| 40°-50° | 484.3 | 2.9 |
| 50°-60° | 38.5 | 0.2 |
| 60°-70° | 14.9 | 0.1 |
| 70°-80° | 6.6 | 0.0 |
| 80°-90° | 6.9 | 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° | 13609.9 | 82.5 |
| 0°-40° | 15940.9 | 96.7 |
| 0°-60° | 16463.7 | 99.8 |
| 0°-90° | 16492.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 16492.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 35065 | 35065 | 35065 | 35065 | 35065 | |
| 5° | 35024 | 35081 | 35117 | 34787 | 34867 | ### |
| 15° | 20206 | 20208 | 20000 | 19586 | 19539 | 5706 |
| 25° | 10982 | 10972 | 10852 | 10525 | 10490 | 4993 |
| 35° | 3829 | 3699 | 3665 | 3480 | 3355 | 2451 |
| 45° | 548 | 607 | 563 | 504 | 521 | 484 |
| 55° | 38 | 30 | 29 | 26 | 20 | 42 |
| 65° | 10 | 16 | 21 | 7 | 4 | 15 |
| 75° | 19 | 12 | 11 | 13 | 8 | 9 |
| 85° | 7 | 7 | 12 | 8 | 16 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247837

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBNOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 35065.2 | 35065.2 | 35065.2 | 35065.2 | 35065.2 | 35065.2 | 35065.2 | 35065.2 | 35065.2 |
| 2.5° | 35218.0 | 35224.6 | 35279.6 | 35436.7 | 35481.8 | 35446.6 | 35327.9 | 35285.0 | 35327.9 |
| 5° | 35024.5 | 35001.4 | 35080.6 | 35197.2 | 35116.9 | 34973.0 | 34787.2 | 34744.3 | 34867.4 |
| 7.5° | 32545.2 | 32529.9 | 32604.5 | 32595.8 | 32383.7 | 32112.2 | 31957.2 | 31835.2 | 31940.8 |
| 10° | 28430.5 | 28293.1 | 28243.6 | 28330.5 | 27980.9 | 27606.2 | 27383.1 | 27465.5 | 27284.2 |
| 12.5° | 23798.2 | 23779.4 | 23867.3 | 23760.7 | 23558.5 | 23328.8 | 23055.2 | 22907.9 | 22776.0 |
| 15° | 20205.5 | 20254.9 | 20207.6 | 20163.7 | 19999.9 | 19827.4 | 19585.6 | 19483.3 | 19539.4 |
| 17.5° | 17385.4 | 17371.0 | 17321.6 | 17395.2 | 17268.9 | 17021.6 | 16809.5 | 16845.7 | 16907.3 |
| 20° | 15164.2 | 15103.8 | 14987.3 | 15018.0 | 14957.6 | 14765.3 | 14571.9 | 14442.2 | 14464.2 |
| 22.5° | 12875.0 | 12927.7 | 12913.5 | 12822.2 | 12727.7 | 12587.0 | 12492.5 | 12323.3 | 12402.4 |
| 25° | 10982.4 | 10991.3 | 10971.5 | 10958.3 | 10851.7 | 10716.5 | 10525.3 | 10484.6 | 10490.1 |
| 27.5° | 9046.0 | 9087.7 | 9071.2 | 9015.2 | 8907.6 | 8794.4 | 8675.6 | 8582.3 | 8573.4 |
| 30° | 7161.2 | 7220.6 | 7103.0 | 7022.7 | 6961.2 | 6941.3 | 6742.5 | 6602.9 | 6417.2 |
| 32.5° | 5541.2 | 5453.3 | 5078.6 | 5079.7 | 5199.4 | 5246.7 | 5056.6 | 4740.0 | 4688.4 |
| 35° | 3829.0 | 3813.6 | 3699.3 | 3664.1 | 3665.2 | 3619.0 | 3479.5 | 3356.4 | 3355.3 |
| 37.5° | 2400.3 | 2457.5 | 2521.1 | 2506.9 | 2366.2 | 2223.3 | 2156.2 | 2228.8 | 2249.7 |
| 40° | 1440.8 | 1515.6 | 1592.5 | 1601.2 | 1498.0 | 1333.1 | 1312.2 | 1379.3 | 1441.9 |
| 42.5° | 902.3 | 934.1 | 985.8 | 995.7 | 922.0 | 861.6 | 823.2 | 871.5 | 871.5 |
| 45° | 548.4 | 578.1 | 606.7 | 608.8 | 562.7 | 512.2 | 504.4 | 523.2 | 520.9 |
| 47.5° | 323.1 | 324.2 | 335.2 | 327.6 | 312.1 | 288.0 | 278.0 | 288.0 | 290.1 |
| 50° | 151.7 | 148.4 | 153.9 | 168.2 | 149.4 | 126.3 | 128.6 | 120.8 | 108.8 |
| 52.5° | 36.3 | 33.0 | 39.6 | 42.8 | 41.8 | 43.9 | 41.8 | 41.8 | 31.8 |
| 55° | 38.5 | 24.2 | 29.7 | 30.8 | 28.6 | 30.8 | 26.3 | 17.6 | 19.7 |
| 57.5° | 26.3 | 27.5 | 27.5 | 30.8 | 26.3 | 33.0 | 27.5 | 19.7 | 22.0 |
| 60° | 26.3 | 18.7 | 17.6 | 29.7 | 24.2 | 16.5 | 18.7 | 25.2 | 6.6 |
| 62.5° | 19.7 | 18.7 | 20.9 | 29.7 | 20.9 | 24.2 | 18.7 | 29.7 | 19.7 |
| 65° | 9.9 | 16.5 | 16.5 | 16.5 | 20.9 | 18.7 | 6.6 | 13.2 | 4.4 |
| 67.5° | 14.2 | 7.7 | 6.6 | 14.2 | 17.6 | 12.1 | 5.5 | 5.5 | 9.9 |
| 70° | 4.4 | 6.6 | 3.3 | 7.7 | 8.7 | 7.7 | 5.5 | 1.1 | 0.0 |
| 72.5° | 7.7 | 3.3 | 7.7 | 6.6 | 11.0 | 7.7 | 6.6 | 5.5 | 4.4 |
| 75° | 18.7 | 14.2 | 12.1 | 13.2 | 11.0 | 6.6 | 13.2 | 13.2 | 7.7 |
| 77.5° | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 |
| 80° | 9.9 | 7.7 | 7.7 | 7.7 | 4.4 | 6.6 | 3.3 | 1.1 | 12.1 |
| 82.5° | 9.9 | 12.1 | 12.1 | 5.5 | 14.2 | 8.7 | 7.7 | 2.2 | 12.1 |
| 85° | 6.6 | 12.1 | 6.6 | 5.5 | 12.1 | 9.9 | 7.7 | 3.3 | 16.5 |
| 87.5° | 0.0 | 6.6 | 6.6 | 4.4 | 6.6 | 2.2 | 5.5 | 3.3 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)