

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: P250183

Luminaire Tested: **LD8B80D010 ER8B80950 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80950 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7742.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

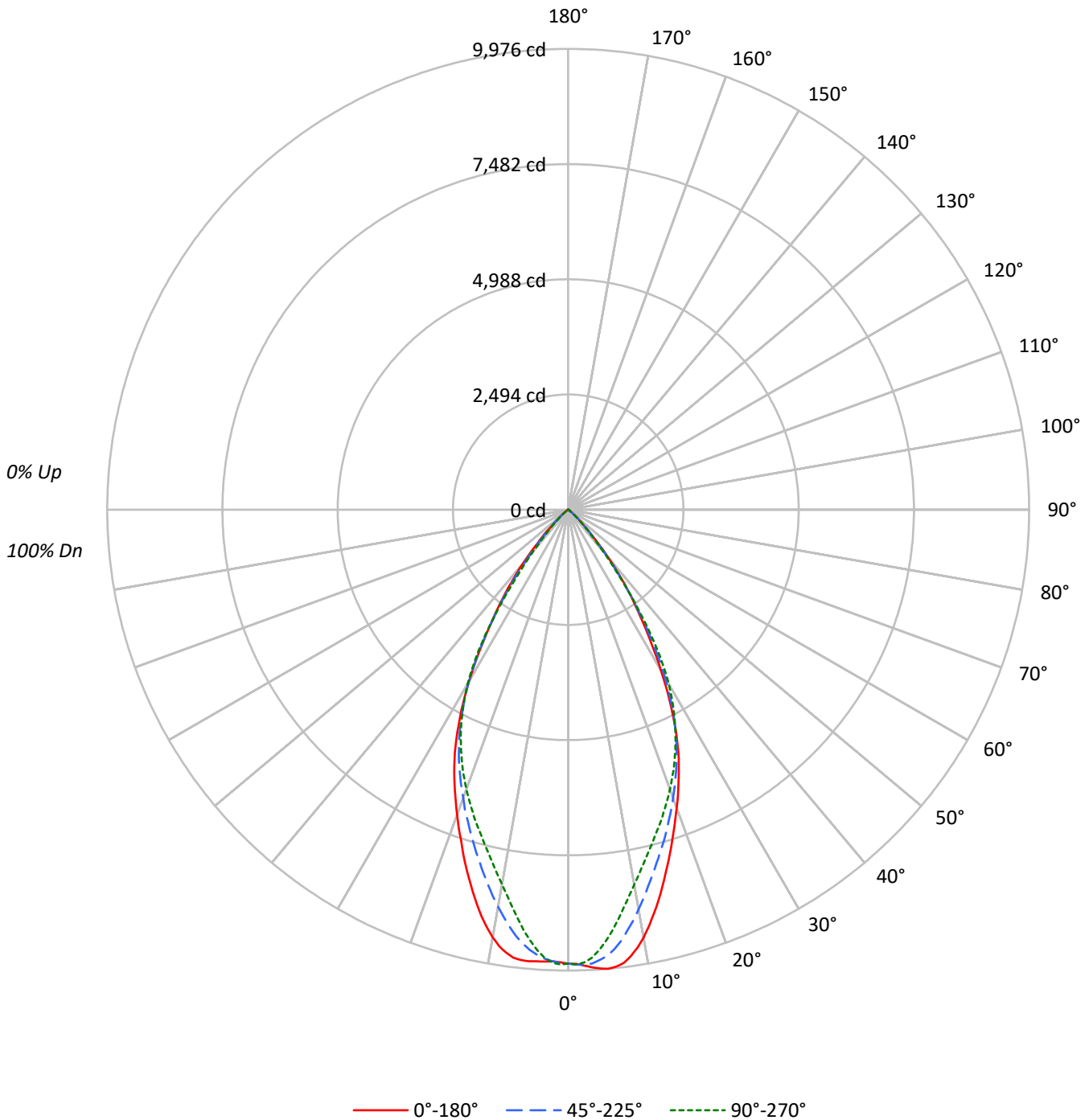
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 | | | | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 | | | | 87 |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | | | 81 |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | | | 76 |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | | | | 71 |
| 6 | 88 | 80 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | | | | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 62 | | | | 62 |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 64 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 | | | | 58 |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 64 | 59 | 56 | 55 | | | | 55 |
| 10 | 73 | 63 | 57 | 54 | 72 | 63 | 57 | 54 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 | | | | 52 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 302976 | 302976 | 302976 |
| 5° | 308792 | 290083 | 303762 |
| 10° | 294411 | 258058 | 294336 |
| 15° | 259974 | 232749 | 264399 |
| 20° | 225294 | 211262 | 230626 |
| 25° | 190355 | 187102 | 197343 |
| 30° | 143068 | 154893 | 152849 |
| 35° | 95771 | 101255 | 103864 |
| 40° | 53659 | 46059 | 61540 |
| 45° | 21565 | 18961 | 25629 |
| 50° | 7445 | 7220 | 8822 |
| 55° | 2054 | 2441 | 2312 |
| 60° | 1178 | 1474 | 1326 |
| 65° | 1043 | 868 | 693 |
| 70° | 0 | 649 | 433 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 426 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 891.9 | 11.5 |
| 10°-20° | 2157.3 | 27.9 |
| 20°-30° | 2528.5 | 32.7 |
| 30°-40° | 1663.6 | 21.5 |
| 40°-50° | 434.1 | 5.6 |
| 50°-60° | 53.4 | 0.7 |
| 60°-70° | 11.1 | 0.1 |
| 70°-80° | 2.1 | 0.0 |
| 80°-90° | 0.1 | 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° | 5577.7 | 72.0 |
| 0°-40° | 7241.3 | 93.5 |
| 0°-60° | 7728.8 | 99.8 |
| 0°-90° | 7742.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7742.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 9825 | 9825 | 9825 | 9825 | 9825 | |
| 5° | 9976 | 9692 | 9371 | 9565 | 9813 | 934 |
| 15° | 8144 | 7682 | 7291 | 7682 | 8282 | 2270 |
| 25° | 5595 | 5540 | 5499 | 5592 | 5800 | 2522 |
| 35° | 2544 | 2601 | 2690 | 2716 | 2759 | 1593 |
| 45° | 494 | 466 | 435 | 504 | 588 | 443 |
| 55° | 38 | 41 | 45 | 45 | 43 | 51 |
| 65° | 14 | 12 | 12 | 10 | 10 | 10 |
| 75° | 0 | 2 | 0 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P250183

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBM0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9825.3 | 9825.3 | 9825.3 | 9825.3 | 9825.3 | 9825.3 | 9825.3 | 9825.3 | 9825.3 |
| 1° | 9832.4 | 9846.8 | 9851.5 | 9865.9 | 9844.4 | 9830.1 | 9811.0 | 9796.6 | 9799.0 |
| 2° | 9875.4 | 9882.6 | 9856.3 | 9846.8 | 9808.6 | 9796.6 | 9782.3 | 9779.9 | 9782.3 |
| 3° | 9920.9 | 9906.5 | 9837.2 | 9772.7 | 9715.4 | 9708.2 | 9734.5 | 9772.7 | 9794.2 |
| 4° | 9956.7 | 9918.5 | 9772.7 | 9653.3 | 9562.5 | 9555.4 | 9660.5 | 9758.4 | 9799.0 |
| 5° | 9975.8 | 9906.5 | 9691.5 | 9490.8 | 9371.4 | 9416.8 | 9564.9 | 9739.3 | 9813.3 |
| 6° | 9949.5 | 9846.8 | 9567.3 | 9299.8 | 9163.6 | 9223.3 | 9440.7 | 9693.9 | 9803.8 |
| 7° | 9882.6 | 9751.2 | 9407.2 | 9091.9 | 8924.7 | 9017.8 | 9295.0 | 9617.4 | 9767.9 |
| 8° | 9758.4 | 9600.7 | 9204.2 | 8850.6 | 8685.8 | 8790.9 | 9115.8 | 9507.6 | 9682.0 |
| 9° | 9595.9 | 9421.6 | 9003.5 | 8630.8 | 8454.1 | 8578.3 | 8929.5 | 9361.8 | 9562.5 |
| 10° | 9402.5 | 9216.1 | 8781.4 | 8401.5 | 8241.5 | 8358.5 | 8728.8 | 9192.2 | 9400.1 |
| 11° | 9175.5 | 8996.3 | 8559.2 | 8186.6 | 8033.7 | 8148.3 | 8528.1 | 8989.2 | 9213.7 |
| 12° | 8929.5 | 8764.6 | 8332.3 | 7978.7 | 7835.4 | 7945.3 | 8313.2 | 8779.0 | 9001.1 |
| 13° | 8683.4 | 8518.6 | 8112.5 | 7778.0 | 7646.7 | 7751.7 | 8102.9 | 8549.7 | 8771.8 |
| 14° | 8418.3 | 8267.8 | 7892.7 | 7586.9 | 7467.5 | 7567.8 | 7887.9 | 8317.9 | 8528.1 |
| 15° | 8143.5 | 8024.1 | 7682.5 | 7403.0 | 7290.7 | 7386.3 | 7682.5 | 8079.0 | 8282.1 |
| 16° | 7885.5 | 7775.7 | 7479.4 | 7221.4 | 7128.3 | 7204.7 | 7474.7 | 7840.2 | 8033.7 |
| 17° | 7622.7 | 7522.4 | 7276.4 | 7042.3 | 6958.7 | 7032.7 | 7262.0 | 7598.9 | 7773.3 |
| 18° | 7360.0 | 7276.4 | 7054.3 | 6853.6 | 6779.5 | 6846.4 | 7051.9 | 7355.2 | 7512.9 |
| 19° | 7116.3 | 7039.9 | 6851.2 | 6681.6 | 6614.7 | 6674.4 | 6867.9 | 7121.1 | 7278.8 |
| 20° | 6865.5 | 6803.4 | 6638.6 | 6500.0 | 6437.9 | 6492.8 | 6643.3 | 6889.4 | 7028.0 |
| 21° | 6624.2 | 6569.3 | 6426.0 | 6308.9 | 6258.7 | 6304.2 | 6442.7 | 6664.9 | 6786.7 |
| 22° | 6373.4 | 6342.4 | 6213.4 | 6115.4 | 6082.0 | 6110.6 | 6237.2 | 6428.4 | 6543.0 |
| 23° | 6127.3 | 6098.7 | 6000.7 | 5919.5 | 5890.8 | 5919.5 | 6031.8 | 6203.8 | 6306.5 |
| 24° | 5878.9 | 5847.9 | 5776.2 | 5723.6 | 5699.8 | 5723.6 | 5819.2 | 5964.9 | 6062.9 |
| 25° | 5594.7 | 5589.9 | 5539.7 | 5511.0 | 5499.1 | 5525.4 | 5592.3 | 5718.9 | 5800.1 |
| 26° | 5322.3 | 5308.0 | 5293.7 | 5288.9 | 5291.3 | 5305.6 | 5360.5 | 5456.1 | 5520.6 |
| 27° | 4987.9 | 5009.4 | 5030.9 | 5059.6 | 5069.1 | 5081.1 | 5107.3 | 5176.6 | 5224.4 |
| 28° | 4667.8 | 4708.4 | 4760.9 | 4818.3 | 4844.6 | 4844.6 | 4846.9 | 4885.1 | 4925.8 |
| 29° | 4350.1 | 4393.0 | 4476.7 | 4562.7 | 4598.5 | 4593.7 | 4574.6 | 4591.3 | 4615.2 |
| 30° | 4018.0 | 4073.0 | 4185.3 | 4297.5 | 4350.1 | 4331.0 | 4295.1 | 4278.4 | 4292.7 |
| 31° | 3693.2 | 3748.1 | 3872.3 | 3994.1 | 4063.4 | 4041.9 | 3979.8 | 3967.9 | 3975.0 |
| 32° | 3382.6 | 3437.5 | 3552.2 | 3681.2 | 3760.0 | 3731.4 | 3666.9 | 3647.7 | 3650.1 |
| 33° | 3081.6 | 3124.6 | 3229.7 | 3349.2 | 3413.6 | 3406.5 | 3353.9 | 3330.1 | 3332.4 |
| 34° | 2797.3 | 2833.2 | 2912.0 | 3002.8 | 3064.9 | 3062.5 | 3024.2 | 3026.6 | 3033.8 |
| 35° | 2544.1 | 2563.2 | 2601.4 | 2651.6 | 2689.8 | 2711.3 | 2716.1 | 2735.2 | 2759.1 |
| 37.5° | 1923.0 | 1930.2 | 1884.8 | 1834.6 | 1825.1 | 1887.2 | 1994.7 | 2087.9 | 2123.7 |
| 40° | 1333.0 | 1316.3 | 1258.9 | 1170.5 | 1144.2 | 1213.6 | 1349.7 | 1481.1 | 1528.8 |
| 42.5° | 828.9 | 821.8 | 785.9 | 719.1 | 695.2 | 735.8 | 838.5 | 938.8 | 986.6 |
| 45° | 494.5 | 484.9 | 465.8 | 439.5 | 434.8 | 451.5 | 504.0 | 561.4 | 587.7 |
| 47.5° | 284.2 | 281.9 | 269.9 | 260.4 | 258.0 | 269.9 | 293.8 | 327.3 | 334.5 |
| 50° | 155.2 | 152.9 | 150.5 | 150.5 | 150.5 | 157.6 | 169.6 | 179.2 | 183.9 |
| 52.5° | 76.5 | 78.8 | 76.5 | 78.8 | 81.2 | 86.0 | 83.6 | 93.2 | 93.2 |
| 55° | 38.2 | 35.8 | 40.6 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 43.0 |
| 57.5° | 28.6 | 31.0 | 26.3 | 28.6 | 26.3 | 26.3 | 23.9 | 26.3 | 28.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 60° | 19.1 | 16.7 | 19.1 | 21.5 | 23.9 | 21.5 | 16.7 | 19.1 | 21.5 |
| 62.5° | 9.5 | 9.5 | 9.5 | 14.3 | 21.5 | 16.7 | 14.3 | 11.9 | 11.9 |
| 65° | 14.3 | 9.5 | 11.9 | 14.3 | 11.9 | 11.9 | 9.5 | 11.9 | 9.5 |
| 67.5° | 7.2 | 11.9 | 7.2 | 4.8 | 7.2 | 9.5 | 7.2 | 4.8 | 4.8 |
| 70° | 0.0 | 2.4 | 2.4 | 7.2 | 7.2 | 7.2 | 7.2 | 4.8 | 4.8 |
| 72.5° | 2.4 | 2.4 | 2.4 | 4.8 | 2.4 | 4.8 | 2.4 | 2.4 | 4.8 |
| 75° | 0.0 | 0.0 | 2.4 | 2.4 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2.4 | 0.0 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 |
| 80° | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)