

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: P247418

Luminaire Tested: **LD8B80D010 ER8B80950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8024.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

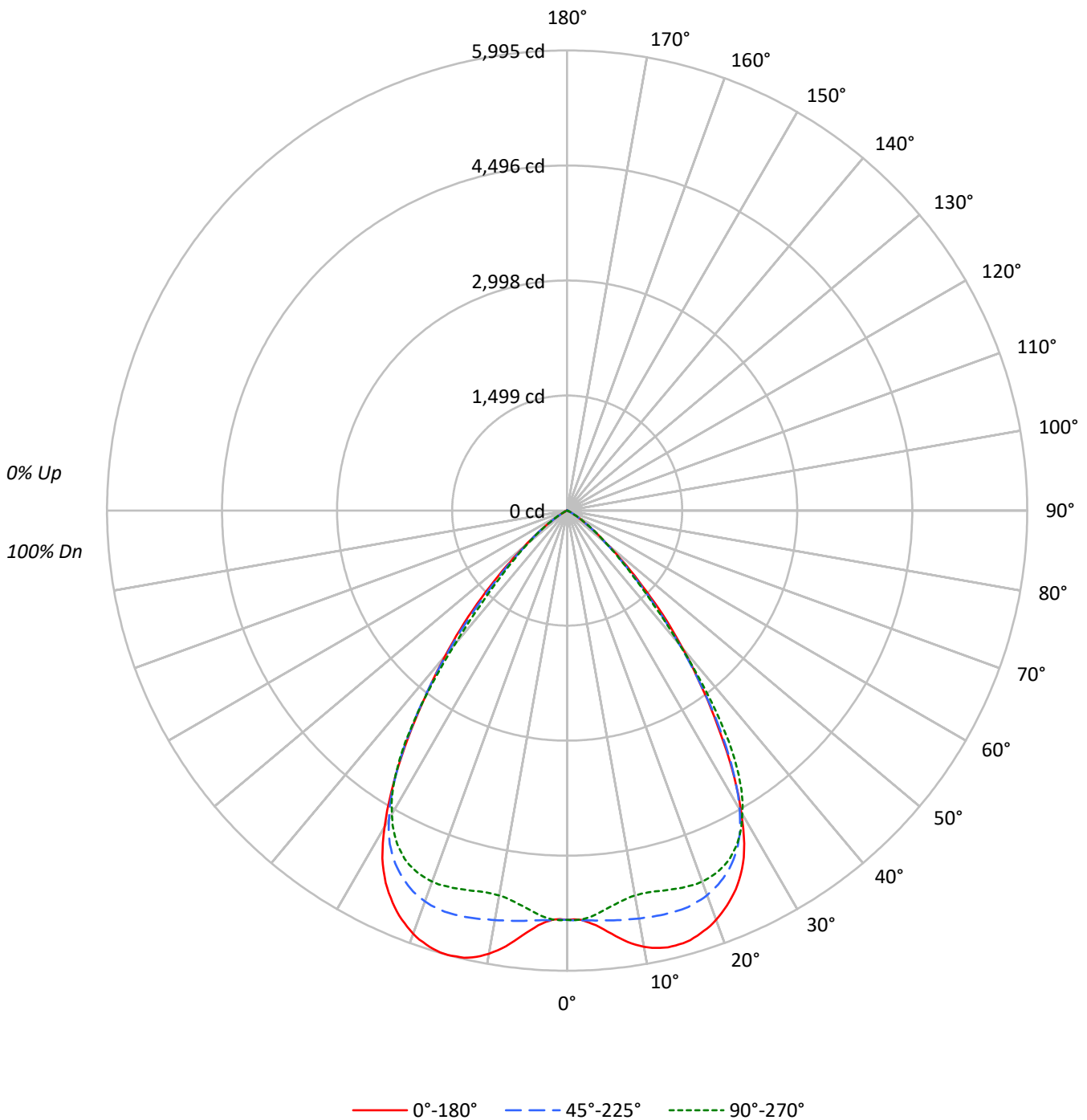
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | | 92 | | | |
| 2 | 106 | 101 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 92 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | | | 84 | | | |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 86 | 83 | 79 | 84 | 81 | 78 | 76 | | | | | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 79 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 | | | | | 70 | | | |
| 5 | 88 | 79 | 72 | 67 | 87 | 78 | 72 | 67 | 76 | 71 | 67 | 74 | 70 | 66 | 73 | 69 | 65 | 64 | | | | | 64 | | | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 58 | | | | | 58 | | | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 63 | 59 | 55 | 53 | | | | | 53 | | | |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | | | | | 49 | | | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 44 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 164469 | 164469 | 164469 |
| 5° | 169514 | 162150 | 169796 |
| 10° | 180699 | 159416 | 183535 |
| 15° | 186258 | 163327 | 191388 |
| 20° | 186250 | 168779 | 192570 |
| 25° | 180546 | 170369 | 187024 |
| 30° | 161594 | 162562 | 169338 |
| 35° | 128705 | 138342 | 135873 |
| 40° | 94033 | 91481 | 99411 |
| 45° | 60072 | 53556 | 65313 |
| 50° | 32497 | 31844 | 34891 |
| 55° | 16688 | 17295 | 16688 |
| 60° | 7265 | 7265 | 5310 |
| 65° | 1488 | 1985 | 1656 |
| 70° | 1019 | 1434 | 1632 |
| 75° | 0 | 810 | 0 |
| 80° | 391 | 391 | 1598 |
| 85° | 0 | 778 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 514.1 | 6.4 |
| 10°-20° | 1546.7 | 19.3 |
| 20°-30° | 2354.2 | 29.3 |
| 30°-40° | 2190.9 | 27.3 |
| 40°-50° | 1066.3 | 13.3 |
| 50°-60° | 303.8 | 3.8 |
| 60°-70° | 39.7 | 0.5 |
| 70°-80° | 6.3 | 0.1 |
| 80°-90° | 1.9 | 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° | 4415.1 | 55.0 |
| 0°-40° | 6606.0 | 82.3 |
| 0°-60° | 7976.1 | 99.4 |
| 0°-90° | 8024.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8024.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 5334 | 5334 | 5334 | 5334 | 5334 | |
| 5° | 5476 | 5356 | 5238 | 5361 | 5485 | 533 |
| 15° | 5834 | 5411 | 5116 | 5463 | 5995 | 1641 |
| 25° | 5306 | 5075 | 5007 | 5186 | 5497 | 2409 |
| 35° | 3419 | 3467 | 3675 | 3636 | 3609 | 2126 |
| 45° | 1378 | 1276 | 1228 | 1375 | 1498 | 1089 |
| 55° | 310 | 310 | 322 | 315 | 310 | 304 |
| 65° | 20 | 25 | 27 | 25 | 23 | 39 |
| 75° | 0 | 2 | 7 | 2 | 0 | 4 |
| 85° | 0 | 2 | 2 | 5 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247418

CATALOG NUMBER: LD8B80D010 ER8B80950 8LBW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5333.6 | 5333.6 | 5333.6 | 5333.6 | 5333.6 | 5333.6 | 5333.6 | 5333.6 | 5333.6 |
| 1° | 5326.7 | 5333.6 | 5338.1 | 5335.9 | 5338.1 | 5335.9 | 5331.3 | 5322.3 | 5322.3 |
| 2° | 5335.9 | 5344.9 | 5342.6 | 5338.1 | 5331.3 | 5331.3 | 5344.9 | 5326.7 | 5331.3 |
| 3° | 5372.1 | 5372.1 | 5344.9 | 5320.0 | 5310.9 | 5320.0 | 5342.6 | 5356.2 | 5367.6 |
| 4° | 5417.4 | 5408.3 | 5354.0 | 5297.4 | 5279.2 | 5301.8 | 5351.7 | 5394.7 | 5417.4 |
| 5° | 5476.3 | 5449.1 | 5356.2 | 5270.1 | 5238.4 | 5272.4 | 5360.8 | 5442.3 | 5485.4 |
| 6° | 5544.3 | 5503.5 | 5369.8 | 5240.7 | 5199.9 | 5247.5 | 5374.4 | 5499.0 | 5564.7 |
| 7° | 5612.3 | 5546.6 | 5376.6 | 5218.0 | 5165.9 | 5231.6 | 5385.7 | 5562.4 | 5648.5 |
| 8° | 5675.7 | 5587.3 | 5383.4 | 5197.7 | 5134.2 | 5202.1 | 5394.7 | 5619.0 | 5732.3 |
| 9° | 5727.9 | 5625.8 | 5387.9 | 5181.8 | 5107.0 | 5184.1 | 5406.1 | 5668.9 | 5802.6 |
| 10° | 5770.9 | 5655.3 | 5397.1 | 5172.7 | 5091.2 | 5175.0 | 5417.4 | 5712.0 | 5861.5 |
| 11° | 5804.9 | 5675.7 | 5399.3 | 5168.2 | 5084.4 | 5168.2 | 5426.4 | 5755.0 | 5911.4 |
| 12° | 5825.2 | 5693.8 | 5406.1 | 5170.4 | 5086.6 | 5175.0 | 5440.1 | 5773.2 | 5952.1 |
| 13° | 5838.8 | 5700.6 | 5410.6 | 5177.2 | 5091.2 | 5179.5 | 5449.1 | 5789.0 | 5979.3 |
| 14° | 5838.8 | 5696.1 | 5410.6 | 5184.1 | 5104.8 | 5188.5 | 5455.9 | 5800.3 | 5986.1 |
| 15° | 5834.4 | 5693.8 | 5410.6 | 5195.3 | 5116.1 | 5197.7 | 5462.7 | 5807.1 | 5995.1 |
| 16° | 5820.7 | 5680.2 | 5408.3 | 5202.1 | 5127.4 | 5206.7 | 5465.0 | 5802.6 | 5988.4 |
| 17° | 5793.5 | 5673.5 | 5399.3 | 5209.0 | 5138.7 | 5215.8 | 5465.0 | 5791.3 | 5972.5 |
| 18° | 5757.2 | 5625.8 | 5376.6 | 5202.1 | 5141.0 | 5213.5 | 5451.4 | 5761.8 | 5943.1 |
| 19° | 5725.5 | 5598.7 | 5360.8 | 5197.7 | 5150.0 | 5220.3 | 5442.3 | 5741.4 | 5911.4 |
| 20° | 5675.7 | 5553.4 | 5333.6 | 5184.1 | 5143.3 | 5206.7 | 5419.7 | 5705.2 | 5868.3 |
| 21° | 5614.5 | 5501.2 | 5295.0 | 5161.4 | 5131.9 | 5188.5 | 5387.9 | 5655.3 | 5809.4 |
| 22° | 5553.4 | 5442.3 | 5254.3 | 5138.7 | 5113.8 | 5172.7 | 5354.0 | 5603.2 | 5748.2 |
| 23° | 5480.8 | 5376.6 | 5202.1 | 5100.2 | 5086.6 | 5136.5 | 5306.4 | 5546.6 | 5675.7 |
| 24° | 5399.3 | 5299.6 | 5145.5 | 5057.1 | 5052.7 | 5098.0 | 5252.0 | 5471.8 | 5589.6 |
| 25° | 5306.4 | 5218.0 | 5075.3 | 5002.8 | 5007.3 | 5045.8 | 5186.3 | 5387.9 | 5496.8 |
| 26° | 5195.3 | 5113.8 | 4993.7 | 4937.1 | 4943.9 | 4982.4 | 5111.5 | 5290.6 | 5394.7 |
| 27° | 5070.7 | 4996.0 | 4898.6 | 4857.7 | 4875.9 | 4909.9 | 5020.9 | 5184.1 | 5267.9 |
| 28° | 4914.4 | 4855.5 | 4785.3 | 4767.2 | 4789.8 | 4828.4 | 4921.2 | 5054.9 | 5129.7 |
| 29° | 4733.1 | 4701.4 | 4647.1 | 4656.1 | 4687.8 | 4719.5 | 4796.6 | 4894.0 | 4953.0 |
| 30° | 4538.3 | 4524.7 | 4493.0 | 4529.3 | 4565.5 | 4592.7 | 4644.8 | 4710.5 | 4755.8 |
| 31° | 4338.9 | 4323.1 | 4327.6 | 4386.5 | 4440.9 | 4459.0 | 4488.4 | 4520.1 | 4554.2 |
| 32° | 4114.6 | 4110.1 | 4128.2 | 4214.3 | 4284.6 | 4293.6 | 4295.8 | 4304.9 | 4323.1 |
| 33° | 3885.8 | 3879.0 | 3915.3 | 4021.8 | 4101.0 | 4107.8 | 4089.6 | 4080.6 | 4094.2 |
| 34° | 3647.9 | 3647.9 | 3695.4 | 3806.5 | 3899.4 | 3906.1 | 3869.9 | 3865.4 | 3851.7 |
| 35° | 3419.0 | 3412.2 | 3466.6 | 3570.8 | 3675.0 | 3677.3 | 3636.5 | 3611.6 | 3609.4 |
| 37.5° | 2852.6 | 2841.3 | 2859.4 | 2913.7 | 2990.8 | 3031.6 | 3027.0 | 3018.0 | 3011.2 |
| 40° | 2336.0 | 2308.8 | 2272.6 | 2249.9 | 2272.6 | 2356.4 | 2428.9 | 2462.9 | 2469.6 |
| 42.5° | 1848.9 | 1810.4 | 1733.3 | 1669.8 | 1679.0 | 1756.0 | 1867.0 | 1944.0 | 1982.5 |
| 45° | 1377.5 | 1339.0 | 1275.6 | 1228.1 | 1228.1 | 1282.4 | 1375.3 | 1454.6 | 1497.7 |
| 47.5° | 983.3 | 958.4 | 922.2 | 901.7 | 915.3 | 938.0 | 990.1 | 1049.1 | 1067.2 |
| 50° | 677.4 | 670.6 | 650.3 | 650.3 | 663.8 | 682.0 | 691.1 | 720.5 | 727.3 |
| 52.5° | 473.6 | 462.2 | 464.4 | 466.8 | 478.1 | 480.4 | 493.9 | 487.1 | 498.5 |
| 55° | 310.4 | 310.4 | 310.4 | 317.2 | 321.7 | 321.7 | 314.9 | 310.4 | 310.4 |
| 57.5° | 197.2 | 192.6 | 194.8 | 199.4 | 199.4 | 192.6 | 181.3 | 179.0 | 167.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|------|--------|------|
| 60° | 117.8 | 117.8 | 120.1 | 120.1 | 117.8 | 111.0 | 99.7 | 90.6 | 86.1 |
| 62.5° | 61.2 | 63.4 | 63.4 | 74.8 | 63.4 | 56.6 | 52.1 | 40.8 | 38.5 |
| 65° | 20.4 | 24.9 | 24.9 | 24.9 | 27.2 | 24.9 | 24.9 | 22.7 | 22.7 |
| 67.5° | 13.6 | 15.9 | 15.9 | 18.1 | 18.1 | 18.1 | 18.1 | 22.7 | 15.9 |
| 70° | 11.3 | 11.3 | 13.6 | 15.9 | 15.9 | 18.1 | 13.6 | 11.3 | 18.1 |
| 72.5° | 6.8 | 9.0 | 6.8 | 11.3 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 75° | 0.0 | 4.6 | 2.2 | 0.0 | 6.8 | 4.6 | 2.2 | 4.6 | 0.0 |
| 77.5° | 2.2 | 2.2 | 2.2 | 2.2 | 4.6 | 4.6 | 4.6 | 4.6 | 2.2 |
| 80° | 2.2 | 2.2 | 4.6 | 2.2 | 2.2 | 4.6 | 0.0 | 0.0 | 9.0 |
| 82.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 0.0 | 2.2 | 2.2 |
| 85° | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 4.6 | 4.6 | 0.0 |
| 87.5° | 0.0 | 2.2 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 4.6 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)