

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: P247366

Luminaire Tested: **LD8B80D010 ER8B80940 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80940 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7986.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

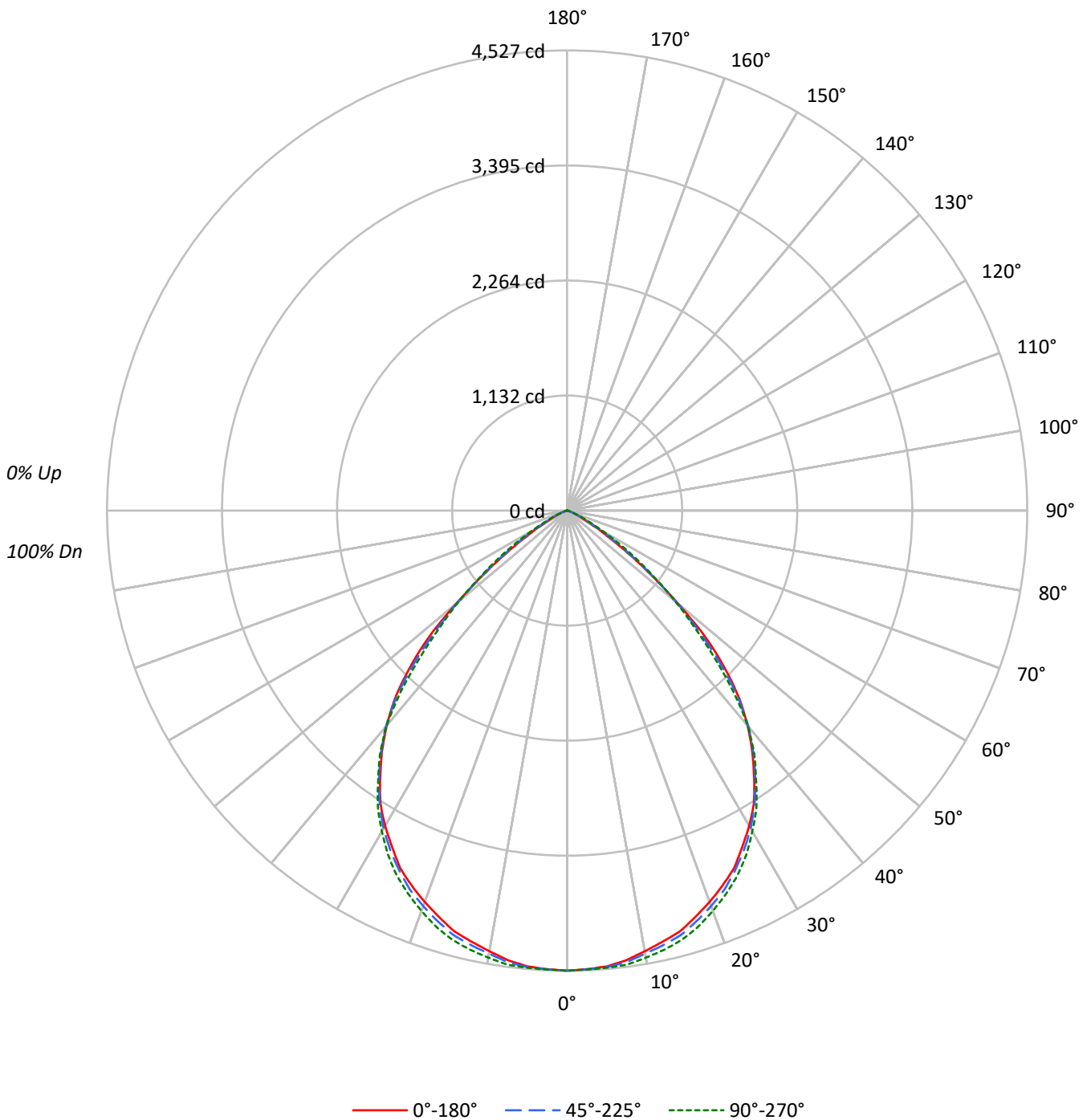
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 91 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 94 | 90 | 86 | 90 | 87 | 85 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 81 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 60 | 58 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 52 |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 43 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 139584 | 139584 | 139584 |
| 5° | 139290 | 139510 | 139758 |
| 10° | 137804 | 138612 | 139839 |
| 15° | 136830 | 138024 | 139502 |
| 20° | 134454 | 135855 | 137522 |
| 25° | 132133 | 132980 | 134831 |
| 30° | 127557 | 128572 | 129779 |
| 35° | 120710 | 121444 | 122084 |
| 40° | 111149 | 111689 | 111399 |
| 45° | 95827 | 93302 | 89573 |
| 50° | 68409 | 67383 | 66572 |
| 55° | 39267 | 41611 | 45063 |
| 60° | 18625 | 21807 | 25212 |
| 65° | 8770 | 10595 | 12156 |
| 70° | 4093 | 4580 | 5220 |
| 75° | 1906 | 2764 | 3181 |
| 80° | 1580 | 1421 | 2220 |
| 85° | 637 | 1592 | 955 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 427.7 | 5.4 |
| 10°-20° | 1217.0 | 15.2 |
| 20°-30° | 1798.0 | 22.5 |
| 30°-40° | 2009.1 | 25.2 |
| 40°-50° | 1622.0 | 20.3 |
| 50°-60° | 721.5 | 9.0 |
| 60°-70° | 162.5 | 2.0 |
| 70°-80° | 25.1 | 0.3 |
| 80°-90° | 3.0 | 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° | 3442.8 | 43.1 |
| 0°-40° | 5451.9 | 68.3 |
| 0°-60° | 7795.4 | 97.6 |
| 0°-90° | 7986.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7986.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4527 | 4527 | 4527 | 4527 | 4527 | |
| 5° | 4500 | 4499 | 4507 | 4508 | 4515 | 426 |
| 15° | 4286 | 4289 | 4324 | 4356 | 4370 | 1205 |
| 25° | 3884 | 3884 | 3908 | 3940 | 3963 | 1780 |
| 35° | 3207 | 3205 | 3226 | 3230 | 3243 | 1999 |
| 45° | 2197 | 2180 | 2140 | 2064 | 2054 | 1661 |
| 55° | 730 | 741 | 774 | 814 | 838 | 687 |
| 65° | 120 | 135 | 145 | 158 | 167 | 140 |
| 75° | 16 | 22 | 23 | 22 | 27 | 21 |
| 85° | 2 | 3 | 4 | 10 | 3 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4526.6 | 4526.6 | 4526.6 | 4526.6 | 4526.6 |
| 2.5° | 4515.0 | 4512.3 | 4516.8 | 4514.1 | 4518.6 |
| 5° | 4499.9 | 4499.0 | 4507.0 | 4507.9 | 4515.0 |
| 7.5° | 4460.7 | 4461.6 | 4478.5 | 4491.0 | 4505.2 |
| 10° | 4401.0 | 4404.6 | 4426.8 | 4454.4 | 4466.0 |
| 12.5° | 4344.0 | 4348.4 | 4376.9 | 4415.2 | 4424.2 |
| 15° | 4286.1 | 4288.8 | 4323.5 | 4355.6 | 4369.8 |
| 17.5° | 4191.7 | 4209.5 | 4236.2 | 4272.7 | 4291.4 |
| 20° | 4097.3 | 4109.7 | 4140.0 | 4180.1 | 4190.8 |
| 22.5° | 3993.9 | 4007.3 | 4037.6 | 4070.5 | 4082.1 |
| 25° | 3883.5 | 3883.5 | 3908.4 | 3940.5 | 3962.8 |
| 27.5° | 3729.4 | 3748.1 | 3765.9 | 3794.4 | 3816.7 |
| 30° | 3582.4 | 3589.6 | 3610.9 | 3634.1 | 3644.8 |
| 32.5° | 3419.4 | 3420.3 | 3430.1 | 3456.0 | 3465.8 |
| 35° | 3206.6 | 3204.8 | 3226.1 | 3229.7 | 3243.1 |
| 37.5° | 2993.7 | 3002.6 | 3010.6 | 3023.1 | 3024.0 |
| 40° | 2761.2 | 2765.7 | 2774.6 | 2761.2 | 2767.4 |
| 42.5° | 2508.2 | 2502.0 | 2485.1 | 2445.0 | 2428.1 |
| 45° | 2197.4 | 2180.5 | 2139.5 | 2063.8 | 2054.0 |
| 47.5° | 1854.5 | 1812.6 | 1762.7 | 1706.6 | 1695.9 |
| 50° | 1426.0 | 1429.6 | 1404.6 | 1385.9 | 1387.7 |
| 52.5° | 1039.5 | 1051.9 | 1058.2 | 1076.0 | 1085.8 |
| 55° | 730.4 | 741.1 | 774.0 | 814.1 | 838.2 |
| 57.5° | 473.0 | 493.5 | 536.2 | 581.6 | 598.6 |
| 60° | 302.0 | 315.3 | 353.6 | 386.6 | 408.8 |
| 62.5° | 197.7 | 202.2 | 223.6 | 253.9 | 254.7 |
| 65° | 120.2 | 135.4 | 145.2 | 157.7 | 166.6 |
| 67.5° | 78.4 | 78.4 | 87.3 | 98.9 | 101.5 |
| 70° | 45.4 | 46.3 | 50.8 | 55.2 | 57.9 |
| 72.5° | 24.9 | 27.6 | 30.3 | 34.7 | 39.2 |
| 75° | 16.0 | 22.3 | 23.2 | 22.3 | 26.7 |
| 77.5° | 10.7 | 10.7 | 8.9 | 15.1 | 16.0 |
| 80° | 8.9 | 6.2 | 8.0 | 11.6 | 12.5 |
| 82.5° | 0.0 | 0.9 | 0.9 | 1.8 | 0.0 |
| 85° | 1.8 | 2.7 | 4.5 | 9.8 | 2.7 |
| 87.5° | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)