

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: P247538

Luminaire Tested: **LD8B80D010 ER8B80840 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80840 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8303.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

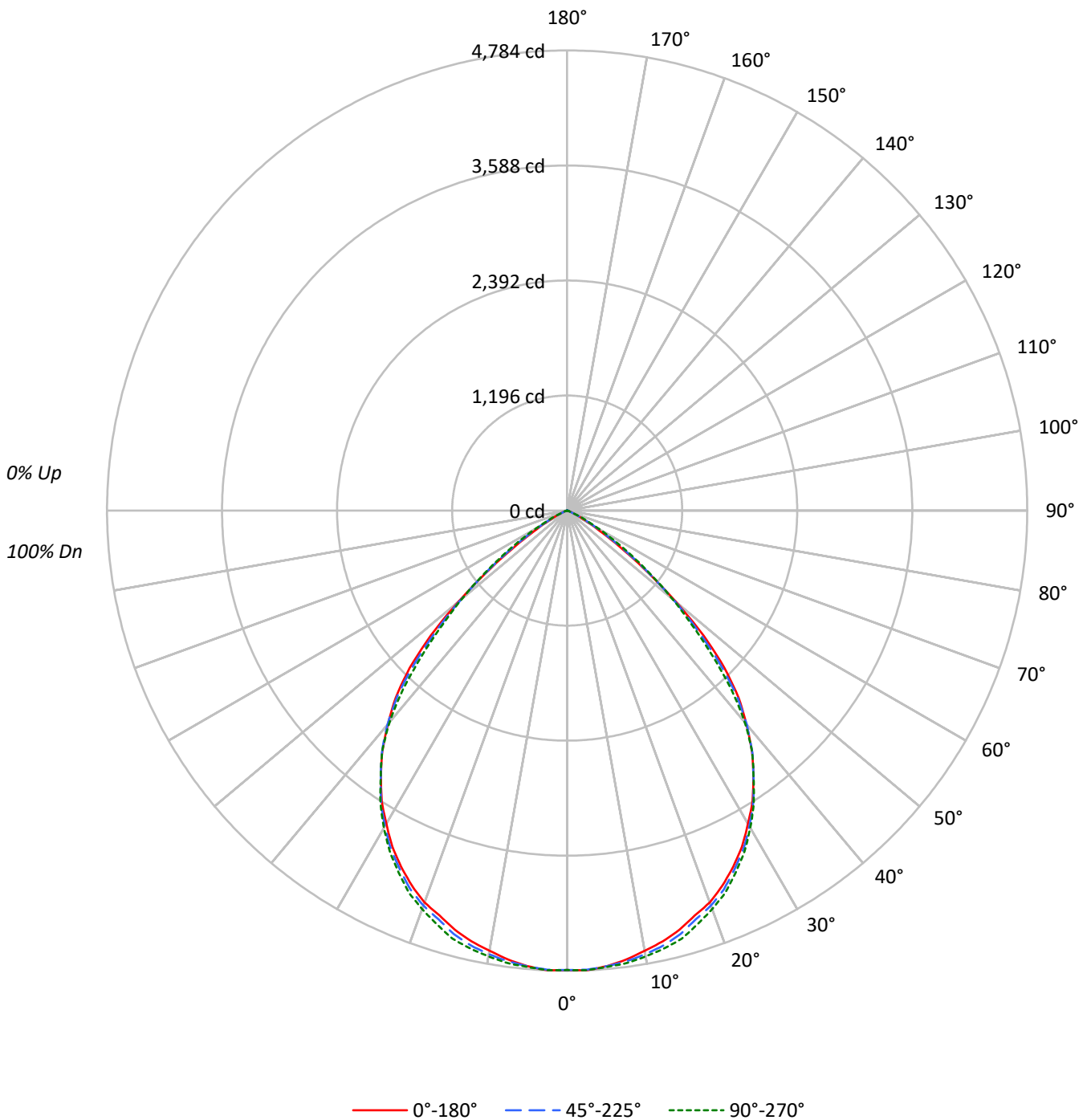
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | | | 81 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | | | | | 73 | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | | | | 65 | | | |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | 58 | | | |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | | | | | 48 | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | | 39 | | | |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 147290 | 147290 | 147290 |
| 5° | 147116 | 147177 | 147391 |
| 10° | 145519 | 146640 | 147386 |
| 15° | 144019 | 145510 | 147097 |
| 20° | 142268 | 143410 | 144650 |
| 25° | 138992 | 140006 | 141156 |
| 30° | 133888 | 134914 | 135622 |
| 35° | 127042 | 127155 | 127188 |
| 40° | 116732 | 116934 | 115734 |
| 45° | 100986 | 97436 | 93101 |
| 50° | 70822 | 69393 | 68486 |
| 55° | 38456 | 41660 | 44385 |
| 60° | 16972 | 20710 | 23466 |
| 65° | 6523 | 8194 | 9785 |
| 70° | 3318 | 2957 | 3850 |
| 75° | 1060 | 2014 | 1775 |
| 80° | 888 | 178 | 1065 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 451.8 | 5.4 |
| 10°-20° | 1283.2 | 15.5 |
| 20°-30° | 1892.3 | 22.8 |
| 30°-40° | 2106.2 | 25.4 |
| 40°-50° | 1695.1 | 20.4 |
| 50°-60° | 720.8 | 8.7 |
| 60°-70° | 135.1 | 1.6 |
| 70°-80° | 16.4 | 0.2 |
| 80°-90° | 2.0 | 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° | 3627.3 | 43.7 |
| 0°-40° | 5733.5 | 69.1 |
| 0°-60° | 8149.4 | 98.2 |
| 0°-90° | 8303.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8303.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4776 | 4776 | 4776 | 4776 | 4776 | |
| 5° | 4753 | 4754 | 4755 | 4763 | 4762 | 450 |
| 15° | 4511 | 4536 | 4558 | 4593 | 4608 | 1271 |
| 25° | 4085 | 4100 | 4115 | 4139 | 4149 | 1877 |
| 35° | 3375 | 3376 | 3378 | 3379 | 3379 | 2102 |
| 45° | 2316 | 2297 | 2234 | 2167 | 2135 | 1741 |
| 55° | 715 | 731 | 775 | 806 | 826 | 681 |
| 65° | 89 | 99 | 112 | 120 | 134 | 116 |
| 75° | 9 | 11 | 17 | 16 | 15 | 14 |
| 85° | 0 | 0 | 0 | 0 | 0 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247538

CATALOG NUMBER: LD8B80D010 ER8B80840 8LBS0GPH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4776.5 | 4776.5 | 4776.5 | 4776.5 | 4776.5 |
| 2.5° | 4784.5 | 4787.5 | 4777.5 | 4779.5 | 4782.5 |
| 5° | 4752.7 | 4753.7 | 4754.7 | 4762.6 | 4761.6 |
| 7.5° | 4708.0 | 4714.9 | 4726.9 | 4741.8 | 4745.7 |
| 10° | 4647.4 | 4665.3 | 4683.2 | 4701.0 | 4707.0 |
| 12.5° | 4587.8 | 4598.7 | 4630.5 | 4648.4 | 4663.3 |
| 15° | 4511.3 | 4536.1 | 4558.0 | 4592.7 | 4607.7 |
| 17.5° | 4413.9 | 4431.8 | 4452.7 | 4487.4 | 4508.3 |
| 20° | 4335.4 | 4340.4 | 4370.2 | 4401.0 | 4408.0 |
| 22.5° | 4219.2 | 4230.1 | 4260.9 | 4281.8 | 4299.7 |
| 25° | 4085.1 | 4100.0 | 4114.9 | 4138.7 | 4148.7 |
| 27.5° | 3938.1 | 3947.0 | 3967.9 | 3984.8 | 3993.7 |
| 30° | 3760.2 | 3780.1 | 3789.0 | 3797.0 | 3808.9 |
| 32.5° | 3587.4 | 3593.3 | 3601.3 | 3606.2 | 3612.2 |
| 35° | 3374.8 | 3375.8 | 3377.8 | 3378.7 | 3378.7 |
| 37.5° | 3157.2 | 3164.2 | 3162.2 | 3156.2 | 3159.2 |
| 40° | 2899.9 | 2911.8 | 2904.9 | 2887.0 | 2875.1 |
| 42.5° | 2640.6 | 2634.6 | 2610.8 | 2557.2 | 2532.3 |
| 45° | 2315.7 | 2296.9 | 2234.3 | 2166.7 | 2134.9 |
| 47.5° | 1926.3 | 1884.6 | 1831.9 | 1779.3 | 1758.4 |
| 50° | 1476.3 | 1470.3 | 1446.5 | 1425.6 | 1427.6 |
| 52.5° | 1058.0 | 1072.9 | 1077.9 | 1097.8 | 1107.7 |
| 55° | 715.3 | 731.2 | 774.9 | 805.7 | 825.6 |
| 57.5° | 435.1 | 465.9 | 512.6 | 563.3 | 589.1 |
| 60° | 275.2 | 293.1 | 335.8 | 368.6 | 380.5 |
| 62.5° | 171.9 | 172.9 | 193.7 | 219.6 | 230.5 |
| 65° | 89.4 | 99.3 | 112.3 | 120.2 | 134.1 |
| 67.5° | 55.6 | 55.6 | 54.6 | 66.6 | 74.5 |
| 70° | 36.8 | 31.8 | 32.8 | 39.7 | 42.7 |
| 72.5° | 12.9 | 21.9 | 19.9 | 19.9 | 13.9 |
| 75° | 8.9 | 10.9 | 16.9 | 15.9 | 14.9 |
| 77.5° | 11.9 | 10.9 | 7.9 | 7.0 | 13.9 |
| 80° | 5.0 | 4.0 | 1.0 | 6.0 | 6.0 |
| 82.5° | 5.0 | 2.0 | 6.0 | 7.9 | 5.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)