

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: P247670

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8120.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

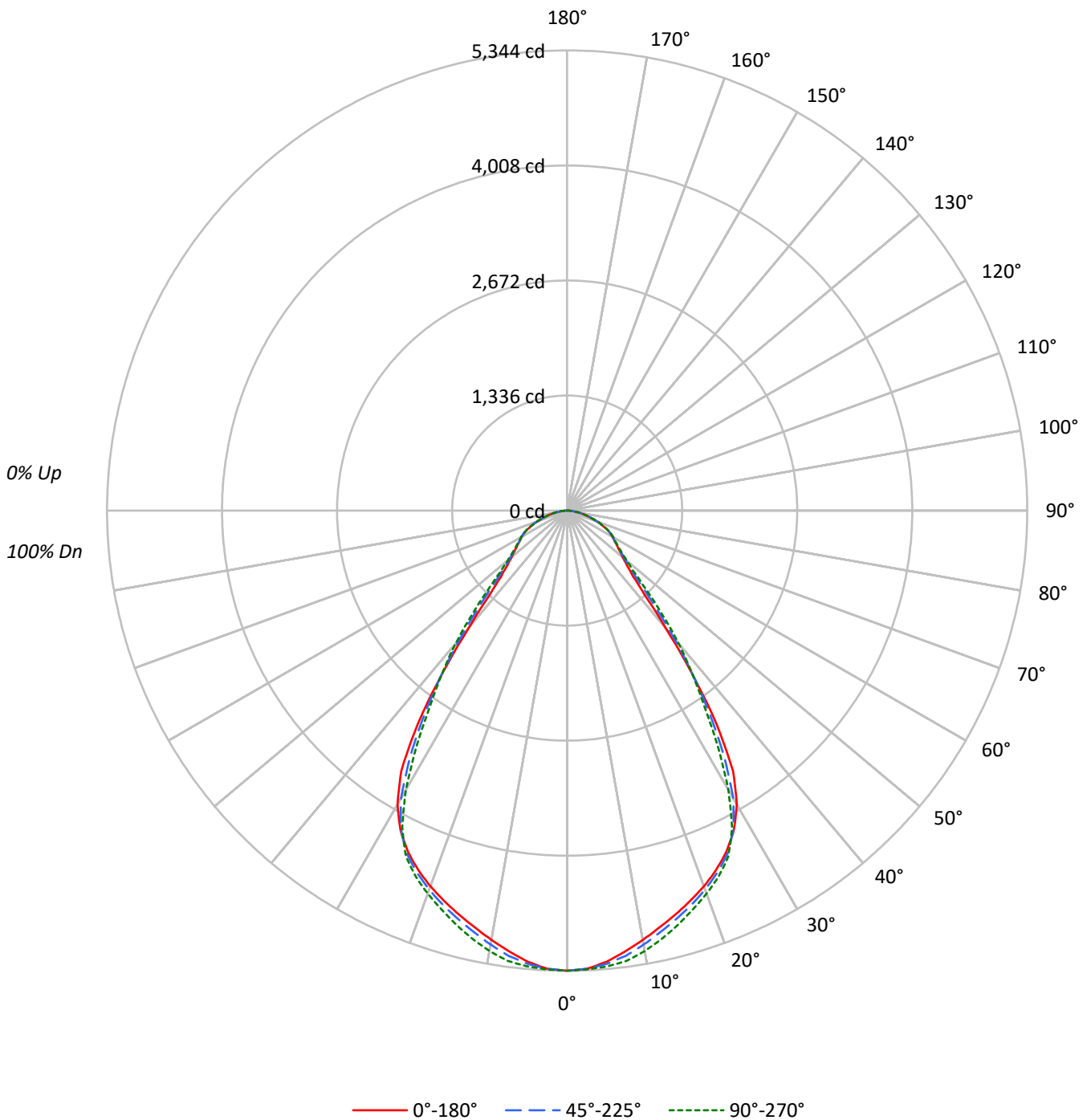
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 63 | | | | | 63 | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 57 | | | | | 57 | | | |
| 6 | 79 | 67 | 60 | 55 | 77 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 51 | | | | | 51 | | | |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 8 | 69 | 58 | 51 | 46 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 41 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 42 | 38 | 47 | 42 | 38 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 164774 | 164774 | 164774 |
| 5° | 162763 | 163546 | 164475 |
| 10° | 158505 | 160267 | 162616 |
| 15° | 155043 | 156690 | 158937 |
| 20° | 152385 | 153677 | 155371 |
| 25° | 148804 | 149730 | 150720 |
| 30° | 140294 | 137289 | 133247 |
| 35° | 113889 | 108769 | 104602 |
| 40° | 71221 | 77300 | 81039 |
| 45° | 47455 | 51917 | 56334 |
| 50° | 40460 | 41674 | 43113 |
| 55° | 37827 | 38332 | 38886 |
| 60° | 37491 | 37725 | 38071 |
| 65° | 36555 | 36964 | 37234 |
| 70° | 33152 | 33413 | 33666 |
| 75° | 28952 | 29285 | 29392 |
| 80° | 24648 | 24648 | 25323 |
| 85° | 19919 | 19919 | 19919 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 499.3 | 6.1 |
| 10°-20° | 1385.3 | 17.1 |
| 20°-30° | 2002.7 | 24.7 |
| 30°-40° | 1792.3 | 22.1 |
| 40°-50° | 970.0 | 11.9 |
| 50°-60° | 646.5 | 8.0 |
| 60°-70° | 495.1 | 6.1 |
| 70°-80° | 262.4 | 3.2 |
| 80°-90° | 66.4 | 0.8 |
| 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° | 3887.4 | 47.9 |
| 0°-40° | 5679.7 | 69.9 |
| 0°-60° | 7296.2 | 89.9 |
| 0°-90° | 8120.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8120.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5344 | 5344 | 5344 | 5344 | 5344 | |
| 5° | 5258 | 5261 | 5284 | 5304 | 5314 | 496 |
| 15° | 4857 | 4866 | 4908 | 4956 | 4979 | 1370 |
| 25° | 4374 | 4384 | 4401 | 4421 | 4430 | 2001 |
| 35° | 3025 | 2994 | 2889 | 2806 | 2779 | 1831 |
| 45° | 1088 | 1120 | 1190 | 1265 | 1292 | 895 |
| 55° | 704 | 706 | 713 | 720 | 723 | 636 |
| 65° | 501 | 503 | 507 | 510 | 510 | 491 |
| 75° | 243 | 243 | 246 | 247 | 247 | 261 |
| 85° | 56 | 56 | 56 | 57 | 56 | 67 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247670

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5343.5 | 5343.5 | 5343.5 | 5343.5 | 5343.5 |
| 2.5° | 5325.7 | 5323.8 | 5324.8 | 5330.4 | 5333.2 |
| 5° | 5258.2 | 5261.0 | 5283.5 | 5304.1 | 5313.5 |
| 7.5° | 5163.4 | 5175.6 | 5214.1 | 5254.4 | 5275.0 |
| 10° | 5062.1 | 5074.3 | 5118.4 | 5175.6 | 5193.4 |
| 12.5° | 4958.0 | 4973.0 | 5012.4 | 5070.5 | 5092.1 |
| 15° | 4856.6 | 4866.0 | 4908.2 | 4956.1 | 4978.6 |
| 17.5° | 4752.5 | 4761.9 | 4800.4 | 4837.9 | 4855.7 |
| 20° | 4643.7 | 4654.0 | 4683.1 | 4715.0 | 4734.7 |
| 22.5° | 4518.9 | 4529.2 | 4553.6 | 4581.8 | 4599.6 |
| 25° | 4373.5 | 4383.8 | 4400.7 | 4421.4 | 4429.8 |
| 27.5° | 4189.6 | 4196.2 | 4180.3 | 4163.4 | 4148.4 |
| 30° | 3940.1 | 3919.5 | 3855.7 | 3774.1 | 3742.2 |
| 32.5° | 3585.5 | 3518.9 | 3396.0 | 3296.6 | 3260.0 |
| 35° | 3025.4 | 2994.5 | 2889.4 | 2805.9 | 2778.7 |
| 37.5° | 2372.5 | 2393.1 | 2385.6 | 2380.0 | 2385.6 |
| 40° | 1769.3 | 1817.1 | 1920.3 | 1990.7 | 2013.2 |
| 42.5° | 1339.6 | 1385.6 | 1501.9 | 1599.5 | 1633.3 |
| 45° | 1088.2 | 1120.1 | 1190.5 | 1264.6 | 1291.8 |
| 47.5° | 939.1 | 956.9 | 992.5 | 1031.9 | 1045.1 |
| 50° | 843.4 | 850.9 | 868.7 | 891.2 | 898.7 |
| 52.5° | 767.4 | 771.1 | 781.5 | 793.6 | 795.5 |
| 55° | 703.6 | 706.4 | 713.0 | 720.5 | 723.3 |
| 57.5° | 650.1 | 652.9 | 654.8 | 659.5 | 661.4 |
| 60° | 607.9 | 607.9 | 611.7 | 615.4 | 617.3 |
| 62.5° | 561.9 | 561.9 | 565.7 | 569.4 | 569.4 |
| 65° | 501.0 | 502.8 | 506.6 | 510.3 | 510.3 |
| 67.5° | 434.3 | 435.3 | 438.1 | 441.9 | 440.9 |
| 70° | 367.7 | 367.7 | 370.6 | 372.4 | 373.4 |
| 72.5° | 304.0 | 303.0 | 307.7 | 308.6 | 305.8 |
| 75° | 243.0 | 243.0 | 245.8 | 246.7 | 246.7 |
| 77.5° | 189.5 | 188.6 | 188.6 | 189.5 | 190.4 |
| 80° | 138.8 | 139.8 | 138.8 | 140.7 | 142.6 |
| 82.5° | 96.6 | 95.7 | 95.7 | 95.7 | 94.8 |
| 85° | 56.3 | 56.3 | 56.3 | 57.2 | 56.3 |
| 87.5° | 22.5 | 22.5 | 21.6 | 21.6 | 20.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)