

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: P247334

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247334
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: LSR8B80D010 EC8B80827 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8411.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

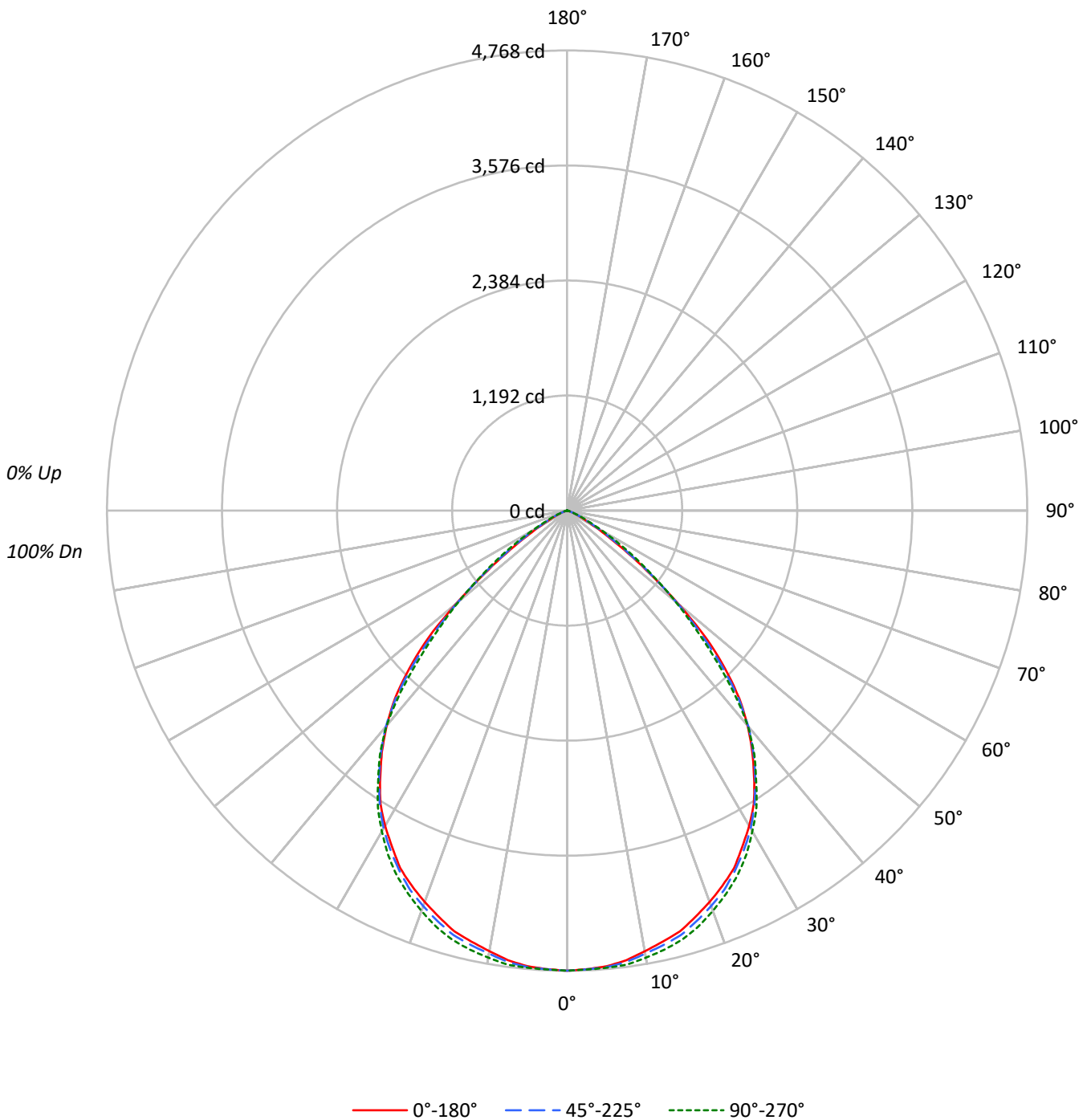
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P247334

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 147012 | 147012 | 147012 |
| 5° | 146701 | 146933 | 147196 |
| 10° | 145137 | 145989 | 147282 |
| 15° | 144112 | 145370 | 146927 |
| 20° | 141608 | 143085 | 144840 |
| 25° | 139165 | 140057 | 142006 |
| 30° | 134348 | 135416 | 136687 |
| 35° | 127132 | 127907 | 128581 |
| 40° | 117063 | 117630 | 117328 |
| 45° | 100925 | 98264 | 94340 |
| 50° | 72050 | 70971 | 70117 |
| 55° | 41359 | 43826 | 47461 |
| 60° | 19612 | 22967 | 26556 |
| 65° | 9237 | 11156 | 12798 |
| 70° | 4310 | 4824 | 5500 |
| 75° | 2014 | 2907 | 3348 |
| 80° | 1669 | 1492 | 2326 |
| 85° | 672 | 1663 | 991 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 450.5 | 5.4 |
| 10°-20° | 1281.8 | 15.2 |
| 20°-30° | 1893.7 | 22.5 |
| 30°-40° | 2116.1 | 25.2 |
| 40°-50° | 1708.3 | 20.3 |
| 50°-60° | 759.9 | 9.0 |
| 60°-70° | 171.2 | 2.0 |
| 70°-80° | 26.5 | 0.3 |
| 80°-90° | 3.1 | 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° | 3626.0 | 43.1 |
| 0°-40° | 5742.0 | 68.3 |
| 0°-60° | 8210.3 | 97.6 |
| 0°-90° | 8411.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8411.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4768 | 4768 | 4768 | 4768 | 4768 | |
| 5° | 4739 | 4738 | 4747 | 4748 | 4755 | 449 |
| 15° | 4514 | 4517 | 4554 | 4587 | 4602 | 1270 |
| 25° | 4090 | 4090 | 4116 | 4150 | 4174 | 1875 |
| 35° | 3377 | 3375 | 3398 | 3402 | 3416 | 2105 |
| 45° | 2314 | 2296 | 2253 | 2174 | 2163 | 1750 |
| 55° | 769 | 780 | 815 | 857 | 883 | 724 |
| 65° | 127 | 143 | 153 | 166 | 175 | 147 |
| 75° | 17 | 24 | 24 | 24 | 28 | 22 |
| 85° | 2 | 3 | 5 | 10 | 3 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247334

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4767.5 | 4767.5 | 4767.5 | 4767.5 | 4767.5 |
| 2.5° | 4755.3 | 4752.5 | 4757.2 | 4754.3 | 4759.0 |
| 5° | 4739.3 | 4738.4 | 4746.8 | 4747.8 | 4755.3 |
| 7.5° | 4698.1 | 4699.0 | 4716.8 | 4730.0 | 4745.0 |
| 10° | 4635.2 | 4639.0 | 4662.4 | 4691.5 | 4703.7 |
| 12.5° | 4575.2 | 4579.9 | 4609.9 | 4650.2 | 4659.6 |
| 15° | 4514.2 | 4517.0 | 4553.6 | 4587.4 | 4602.4 |
| 17.5° | 4414.8 | 4433.5 | 4461.7 | 4500.1 | 4519.8 |
| 20° | 4315.3 | 4328.4 | 4360.3 | 4402.6 | 4413.8 |
| 22.5° | 4206.5 | 4220.6 | 4252.5 | 4287.2 | 4299.4 |
| 25° | 4090.2 | 4090.2 | 4116.4 | 4150.2 | 4173.7 |
| 27.5° | 3927.9 | 3947.6 | 3966.3 | 3996.4 | 4019.8 |
| 30° | 3773.1 | 3780.6 | 3803.1 | 3827.5 | 3838.8 |
| 32.5° | 3601.4 | 3602.3 | 3612.7 | 3639.9 | 3650.2 |
| 35° | 3377.2 | 3375.3 | 3397.8 | 3401.6 | 3415.7 |
| 37.5° | 3153.0 | 3162.4 | 3170.8 | 3184.0 | 3184.9 |
| 40° | 2908.1 | 2912.8 | 2922.2 | 2908.1 | 2914.7 |
| 42.5° | 2641.7 | 2635.2 | 2617.3 | 2575.1 | 2557.3 |
| 45° | 2314.3 | 2296.5 | 2253.3 | 2173.6 | 2163.3 |
| 47.5° | 1953.1 | 1909.1 | 1856.5 | 1797.4 | 1786.2 |
| 50° | 1501.9 | 1505.7 | 1479.4 | 1459.7 | 1461.6 |
| 52.5° | 1094.8 | 1107.9 | 1114.5 | 1133.2 | 1143.6 |
| 55° | 769.3 | 780.5 | 815.2 | 857.4 | 882.8 |
| 57.5° | 498.1 | 519.7 | 564.7 | 612.6 | 630.4 |
| 60° | 318.0 | 332.1 | 372.4 | 407.1 | 430.6 |
| 62.5° | 208.3 | 213.0 | 235.5 | 267.4 | 268.3 |
| 65° | 126.6 | 142.6 | 152.9 | 166.0 | 175.4 |
| 67.5° | 82.6 | 82.6 | 91.9 | 104.1 | 106.9 |
| 70° | 47.8 | 48.8 | 53.5 | 58.2 | 61.0 |
| 72.5° | 26.3 | 29.1 | 31.9 | 36.6 | 41.3 |
| 75° | 16.9 | 23.5 | 24.4 | 23.5 | 28.1 |
| 77.5° | 11.3 | 11.3 | 9.4 | 15.9 | 16.9 |
| 80° | 9.4 | 6.6 | 8.4 | 12.2 | 13.1 |
| 82.5° | 0.0 | 0.9 | 0.9 | 1.9 | 0.0 |
| 85° | 1.9 | 2.8 | 4.7 | 10.3 | 2.8 |
| 87.5° | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)