

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: P247378

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247378
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 EC8B809730 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6605.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

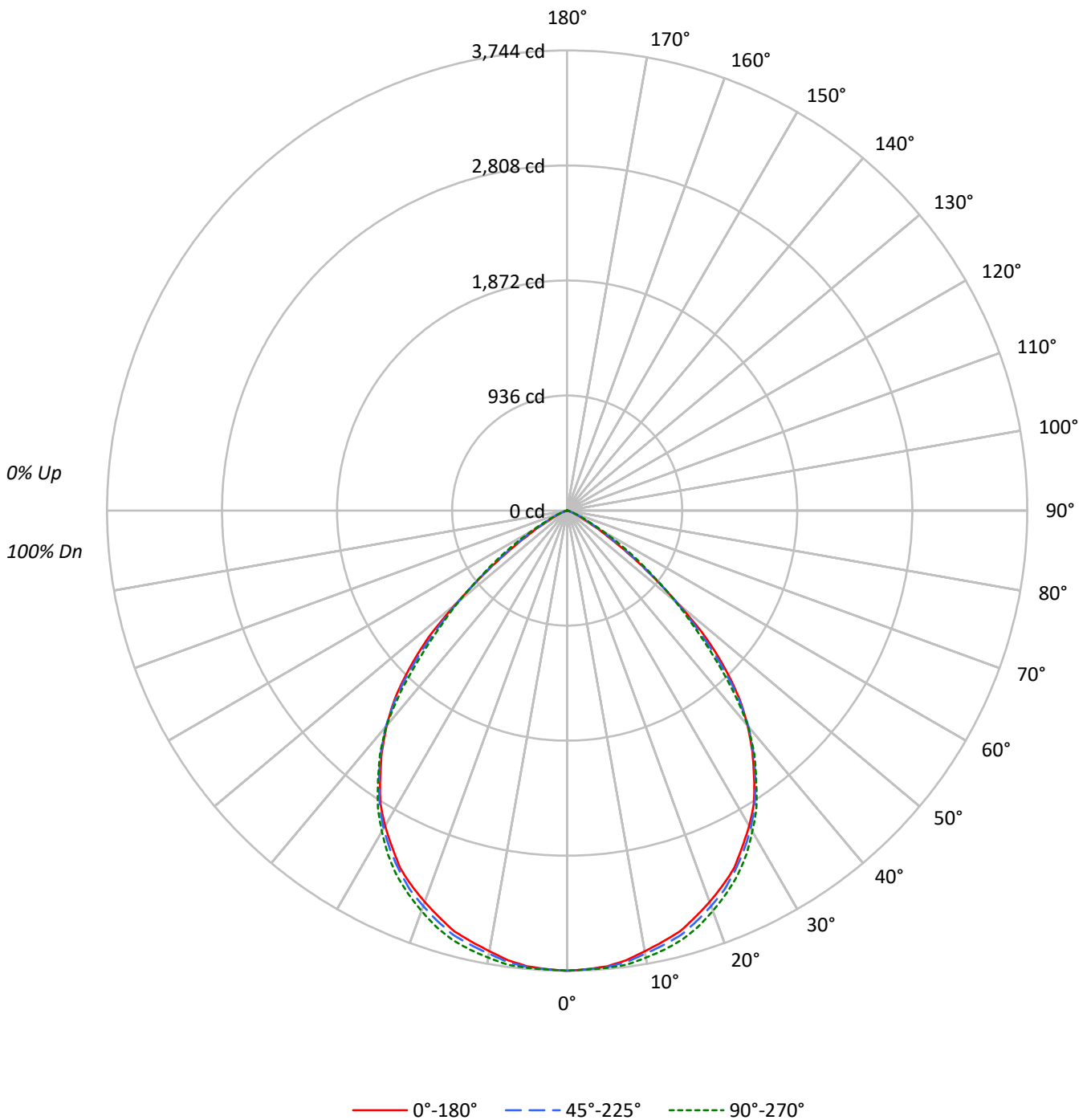
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------------------------------------------------------------|-----|-----|
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 353.7 | 5.4 |
| 10°-20° | 1006.6 | 15.2 |
| 20°-30° | 1487.1 | 22.5 |
| 30°-40° | 1661.7 | 25.2 |
| 40°-50° | 1341.5 | 20.3 |
| 50°-60° | 596.7 | 9.0 |
| 60°-70° | 134.4 | 2.0 |
| 70°-80° | 20.8 | 0.3 |
| 80°-90° | 2.5 | 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° | 2847.4 | 43.1 |
| 0°-40° | 4509.1 | 68.3 |
| 0°-60° | 6447.4 | 97.6 |
| 0°-90° | 6605.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6605.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3744 | 3744 | 3744 | 3744 | 3744 | |
| 5° | 3722 | 3721 | 3728 | 3728 | 3734 | 353 |
| 15° | 3545 | 3547 | 3576 | 3602 | 3614 | 997 |
| 25° | 3212 | 3212 | 3233 | 3259 | 3278 | 1473 |
| 35° | 2652 | 2651 | 2668 | 2671 | 2682 | 1653 |
| 45° | 1817 | 1803 | 1770 | 1707 | 1699 | 1374 |
| 55° | 604 | 613 | 640 | 673 | 693 | 568 |
| 65° | 100 | 112 | 120 | 130 | 138 | 116 |
| 75° | 13 | 18 | 19 | 18 | 22 | 17 |
| 85° | 2 | 2 | 4 | 8 | 2 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3743.8 | 3743.8 | 3743.8 | 3743.8 | 3743.8 |
| 2.5° | 3734.2 | 3732.0 | 3735.7 | 3733.5 | 3737.2 |
| 5° | 3721.7 | 3721.0 | 3727.6 | 3728.3 | 3734.2 |
| 7.5° | 3689.3 | 3690.0 | 3704.0 | 3714.3 | 3726.1 |
| 10° | 3639.9 | 3642.9 | 3661.3 | 3684.1 | 3693.7 |
| 12.5° | 3592.8 | 3596.5 | 3620.1 | 3651.7 | 3659.1 |
| 15° | 3544.9 | 3547.1 | 3575.9 | 3602.4 | 3614.2 |
| 17.5° | 3466.8 | 3481.6 | 3503.7 | 3533.9 | 3549.3 |
| 20° | 3388.7 | 3399.0 | 3424.1 | 3457.2 | 3466.1 |
| 22.5° | 3303.3 | 3314.3 | 3339.4 | 3366.6 | 3376.2 |
| 25° | 3211.9 | 3211.9 | 3232.6 | 3259.1 | 3277.5 |
| 27.5° | 3084.5 | 3100.0 | 3114.7 | 3138.3 | 3156.7 |
| 30° | 2962.9 | 2968.8 | 2986.5 | 3005.7 | 3014.5 |
| 32.5° | 2828.1 | 2828.9 | 2837.0 | 2858.3 | 2866.4 |
| 35° | 2652.1 | 2650.6 | 2668.3 | 2671.2 | 2682.3 |
| 37.5° | 2476.0 | 2483.4 | 2490.0 | 2500.3 | 2501.0 |
| 40° | 2283.7 | 2287.4 | 2294.8 | 2283.7 | 2288.9 |
| 42.5° | 2074.5 | 2069.3 | 2055.3 | 2022.2 | 2008.2 |
| 45° | 1817.4 | 1803.4 | 1769.5 | 1706.9 | 1698.8 |
| 47.5° | 1533.8 | 1499.1 | 1457.9 | 1411.5 | 1402.6 |
| 50° | 1179.4 | 1182.4 | 1161.7 | 1146.3 | 1147.7 |
| 52.5° | 859.7 | 870.0 | 875.2 | 889.9 | 898.0 |
| 55° | 604.1 | 612.9 | 640.2 | 673.3 | 693.2 |
| 57.5° | 391.2 | 408.1 | 443.5 | 481.1 | 495.0 |
| 60° | 249.7 | 260.8 | 292.5 | 319.7 | 338.1 |
| 62.5° | 163.5 | 167.2 | 184.9 | 210.0 | 210.7 |
| 65° | 99.5 | 112.0 | 120.1 | 130.4 | 137.8 |
| 67.5° | 64.8 | 64.8 | 72.2 | 81.8 | 84.0 |
| 70° | 37.6 | 38.3 | 42.0 | 45.7 | 47.9 |
| 72.5° | 20.6 | 22.8 | 25.0 | 28.7 | 32.4 |
| 75° | 13.3 | 18.4 | 19.2 | 18.4 | 22.1 |
| 77.5° | 8.8 | 8.8 | 7.4 | 12.5 | 13.3 |
| 80° | 7.4 | 5.2 | 6.6 | 9.6 | 10.3 |
| 82.5° | 0.0 | 0.7 | 0.7 | 1.5 | 0.0 |
| 85° | 1.5 | 2.2 | 3.7 | 8.1 | 2.2 |
| 87.5° | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)