

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: P248168

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150835 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14521.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

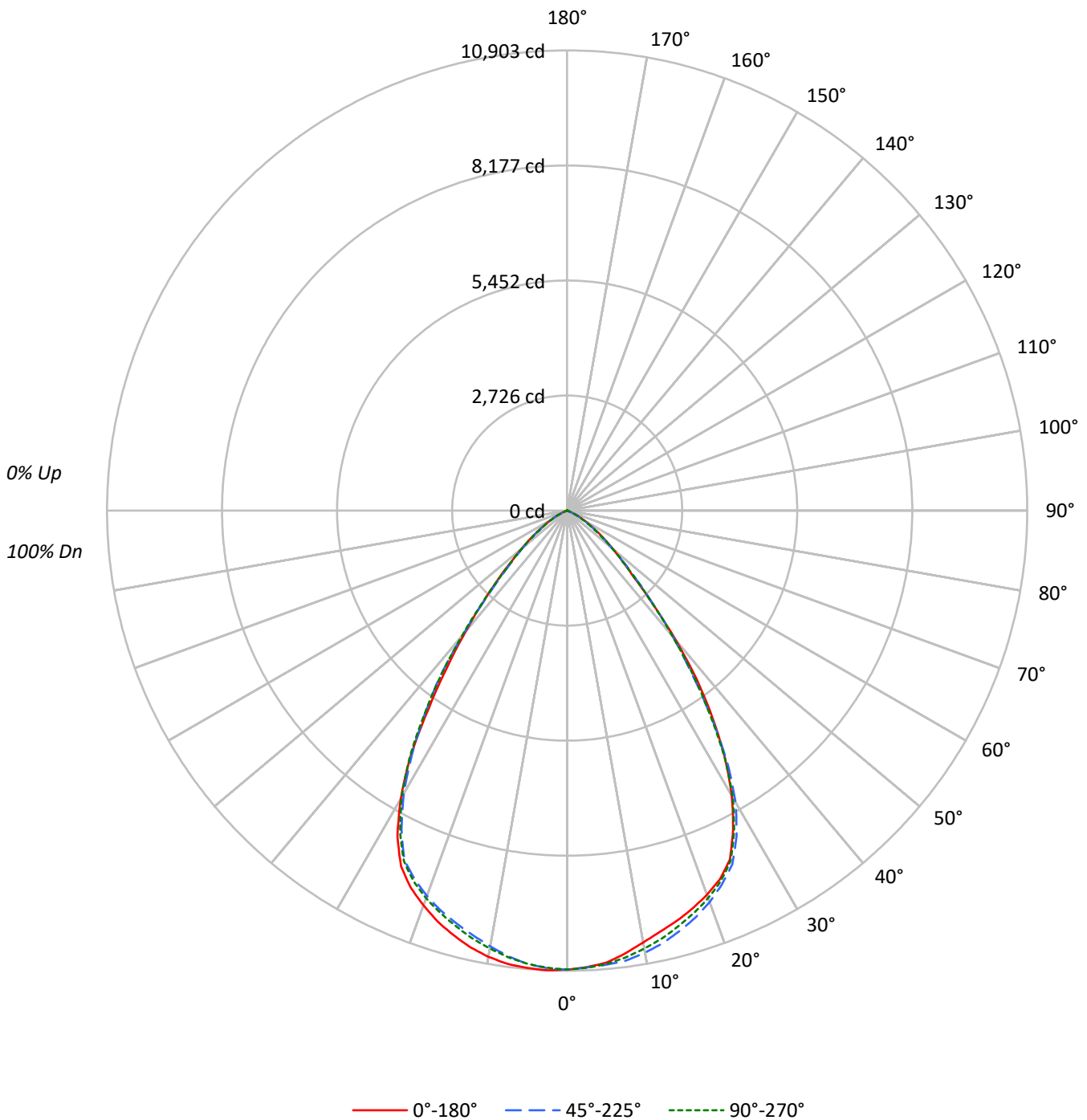
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | | | | | 92 | | | | |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 87 | 85 | | | | | 84 | | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 82 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 80 | 78 | | | | | 76 | | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 75 | 72 | 78 | 74 | 71 | | | | | 69 | | | | |
| 5 | 88 | 79 | 72 | 67 | 86 | 78 | 71 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | | | | | 63 | | | | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 66 | 61 | 70 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 60 | | | | | 58 | | | | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | | | | | 53 | | | | |
| 8 | 74 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | | | | | 49 | | | | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | | | | | 45 | | | | |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 44 | | | | | 42 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 335376 | 335376 | 335376 |
| 5° | 332788 | 333716 | 336750 |
| 10° | 325301 | 329903 | 336166 |
| 15° | 321125 | 325434 | 332426 |
| 20° | 317849 | 320638 | 326644 |
| 25° | 310402 | 311661 | 316628 |
| 30° | 277839 | 279263 | 280830 |
| 35° | 226430 | 221875 | 215325 |
| 40° | 160573 | 156105 | 150349 |
| 45° | 97903 | 99560 | 101566 |
| 50° | 67642 | 66394 | 67786 |
| 55° | 45912 | 42687 | 44031 |
| 60° | 29788 | 25964 | 27259 |
| 65° | 15687 | 12477 | 13426 |
| 70° | 4147 | 3516 | 3156 |
| 75° | 715 | 1430 | 834 |
| 80° | 0 | 0 | 355 |
| 85° | 708 | 708 | 708 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1022.6 | 7.0 |
| 10°-20° | 2880.8 | 19.8 |
| 20°-30° | 4154.2 | 28.6 |
| 30°-40° | 3648.4 | 25.1 |
| 40°-50° | 1844.8 | 12.7 |
| 50°-60° | 755.1 | 5.2 |
| 60°-70° | 198.5 | 1.4 |
| 70°-80° | 14.0 | 0.1 |
| 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° | 8057.7 | 55.5 |
| 0°-40° | 11706.0 | 80.6 |
| 0°-60° | 14306.0 | 98.5 |
| 0°-90° | 14521.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 14521.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10876 | 10876 | 10876 | 10876 | 10876 | |
| 5° | 10751 | 10800 | 10781 | 10781 | 10879 | ### |
| 15° | 10059 | 10308 | 10194 | 10128 | 10413 | 2838 |
| 25° | 9123 | 9254 | 9160 | 9127 | 9306 | 4122 |
| 35° | 6015 | 5912 | 5894 | 5869 | 5720 | 3708 |
| 45° | 2245 | 2350 | 2283 | 2225 | 2329 | 1852 |
| 55° | 854 | 820 | 794 | 792 | 819 | 789 |
| 65° | 215 | 191 | 171 | 169 | 184 | 220 |
| 75° | 6 | 4 | 12 | 4 | 7 | 15 |
| 85° | 2 | 2 | 2 | 1 | 2 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248168

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 10876 | 10876 | 10876 | 10876 | 10876 | 10876 | 10876 | 10876 | 10876 |
| 2.5° | 10826 | 10879 | 10832 | 10860 | 10841 | 10810 | 10853 | 10833 | 10903 |
| 5° | 10751 | 10815 | 10800 | 10835 | 10781 | 10724 | 10781 | 10786 | 10879 |
| 7.5° | 10580 | 10690 | 10753 | 10795 | 10676 | 10583 | 10651 | 10712 | 10832 |
| 10° | 10389 | 10522 | 10636 | 10701 | 10536 | 10400 | 10481 | 10585 | 10736 |
| 12.5° | 10213 | 10360 | 10495 | 10558 | 10384 | 10231 | 10308 | 10437 | 10599 |
| 15° | 10059 | 10180 | 10308 | 10373 | 10194 | 10049 | 10128 | 10247 | 10413 |
| 17.5° | 9883 | 9997 | 10110 | 10161 | 9995 | 9869 | 9941 | 10043 | 10208 |
| 20° | 9686 | 9784 | 9870 | 9930 | 9771 | 9651 | 9716 | 9811 | 9954 |
| 22.5° | 9455 | 9529 | 9585 | 9639 | 9510 | 9391 | 9447 | 9522 | 9673 |
| 25° | 9123 | 9198 | 9254 | 9315 | 9160 | 9058 | 9127 | 9159 | 9306 |
| 27.5° | 8515 | 8610 | 8694 | 8748 | 8571 | 8483 | 8501 | 8554 | 8710 |
| 30° | 7803 | 7849 | 7977 | 7993 | 7843 | 7690 | 7739 | 7795 | 7887 |
| 32.5° | 6957 | 6983 | 7057 | 7065 | 6953 | 6835 | 6836 | 6811 | 6904 |
| 35° | 6015 | 5956 | 5912 | 5942 | 5894 | 5915 | 5869 | 5754 | 5720 |
| 37.5° | 5042 | 5004 | 4811 | 4796 | 4908 | 4976 | 4931 | 4675 | 4657 |
| 40° | 3989 | 3946 | 3874 | 3863 | 3878 | 3917 | 3834 | 3758 | 3735 |
| 42.5° | 2985 | 3008 | 3031 | 3052 | 3009 | 2925 | 2921 | 2907 | 2961 |
| 45° | 2245 | 2294 | 2350 | 2378 | 2283 | 2218 | 2225 | 2256 | 2329 |
| 47.5° | 1775 | 1785 | 1806 | 1830 | 1774 | 1691 | 1713 | 1763 | 1795 |
| 50° | 1410 | 1420 | 1414 | 1411 | 1384 | 1334 | 1365 | 1402 | 1413 |
| 52.5° | 1112 | 1099 | 1088 | 1081 | 1064 | 1044 | 1050 | 1081 | 1098 |
| 55° | 854 | 844 | 820 | 810 | 794 | 789 | 792 | 816 | 819 |
| 57.5° | 642 | 628 | 604 | 585 | 586 | 578 | 582 | 599 | 608 |
| 60° | 483 | 474 | 432 | 435 | 421 | 419 | 428 | 438 | 442 |
| 62.5° | 334 | 337 | 305 | 301 | 294 | 295 | 301 | 309 | 310 |
| 65° | 215 | 202 | 191 | 183 | 171 | 165 | 169 | 191 | 184 |
| 67.5° | 84 | 89 | 72 | 84 | 78 | 66 | 76 | 85 | 81 |
| 70° | 46 | 47 | 39 | 37 | 39 | 36 | 41 | 46 | 35 |
| 72.5° | 29 | 29 | 21 | 21 | 27 | 18 | 21 | 33 | 26 |
| 75° | 6 | 7 | 4 | 2 | 12 | 6 | 4 | 12 | 7 |
| 77.5° | 0 | 7 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 80° | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 2 |
| 82.5° | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 85° | 2 | 8 | 2 | 0 | 2 | 2 | 1 | 6 | 2 |
| 87.5° | 13 | 6 | 1 | 6 | 5 | 6 | 7 | 6 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)