

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: P247372

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247372
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: LSR8B100D010 EC8B100950 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10744.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

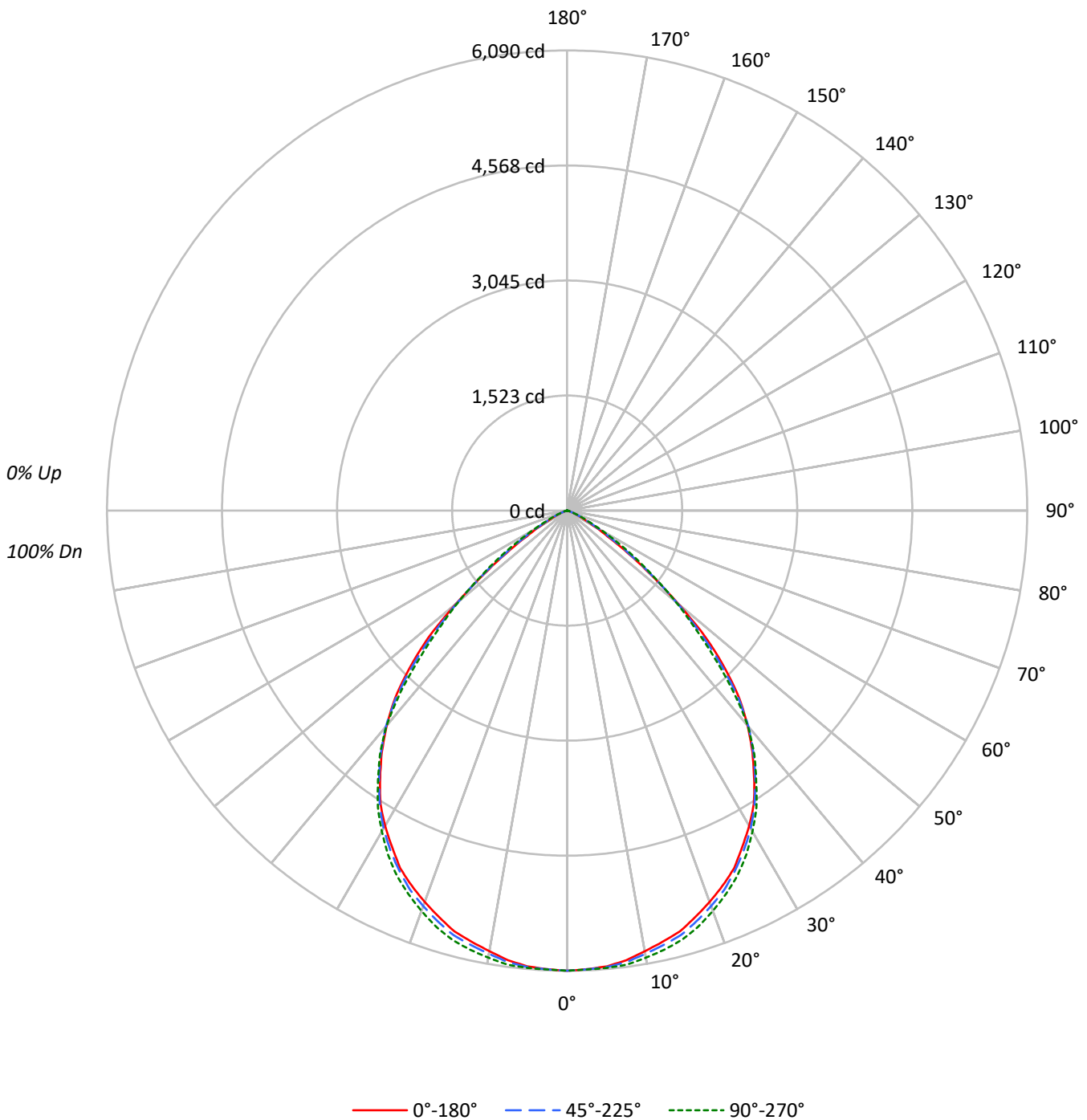
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247372

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBS0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P247372

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBS0WMH

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° | 187790 | 187790 | 187790 |
| 5° | 187393 | 187690 | 188025 |
| 10° | 185395 | 186485 | 188135 |
| 15° | 184084 | 185690 | 187682 |
| 20° | 180888 | 182775 | 185016 |
| 25° | 177766 | 178906 | 181393 |
| 30° | 171610 | 172977 | 174597 |
| 35° | 162397 | 163387 | 164245 |
| 40° | 149535 | 150260 | 149874 |
| 45° | 128922 | 125525 | 120505 |
| 50° | 92036 | 90659 | 89565 |
| 55° | 52826 | 55982 | 60621 |
| 60° | 25051 | 29338 | 33920 |
| 65° | 11806 | 14250 | 16351 |
| 70° | 5509 | 6158 | 7023 |
| 75° | 2573 | 3717 | 4277 |
| 80° | 2131 | 1918 | 2983 |
| 85° | 849 | 2123 | 1274 |



TEST NUMBER: P247372

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBS0WMH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 575.4 | 5.4 |
| 10°-20° | 1637.4 | 15.2 |
| 20°-30° | 2418.9 | 22.5 |
| 30°-40° | 2703.0 | 25.2 |
| 40°-50° | 2182.2 | 20.3 |
| 50°-60° | 970.6 | 9.0 |
| 60°-70° | 218.6 | 2.0 |
| 70°-80° | 33.8 | 0.3 |
| 80°-90° | 4.0 | 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° | 4631.7 | 43.1 |
| 0°-40° | 7334.7 | 68.3 |
| 0°-60° | 10487.6 | 97.6 |
| 0°-90° | 10744.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10744.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6090 | 6090 | 6090 | 6090 | 6090 | |
| 5° | 6054 | 6053 | 6064 | 6065 | 6074 | 574 |
| 15° | 5766 | 5770 | 5817 | 5860 | 5879 | 1622 |
| 25° | 5225 | 5225 | 5258 | 5301 | 5331 | 2395 |
| 35° | 4314 | 4312 | 4340 | 4345 | 4363 | 2689 |
| 45° | 2956 | 2934 | 2878 | 2776 | 2763 | 2235 |
| 55° | 983 | 997 | 1041 | 1095 | 1128 | 924 |
| 65° | 162 | 182 | 195 | 212 | 224 | 188 |
| 75° | 22 | 30 | 31 | 30 | 36 | 28 |
| 85° | 2 | 4 | 6 | 13 | 4 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247372

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBS0WMH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6089.9 | 6089.9 | 6089.9 | 6089.9 | 6089.9 |
| 2.5° | 6074.3 | 6070.7 | 6076.7 | 6073.1 | 6079.1 |
| 5° | 6053.9 | 6052.7 | 6063.5 | 6064.7 | 6074.3 |
| 7.5° | 6001.2 | 6002.4 | 6025.2 | 6041.9 | 6061.1 |
| 10° | 5920.9 | 5925.7 | 5955.7 | 5992.8 | 6008.4 |
| 12.5° | 5844.2 | 5850.2 | 5888.5 | 5940.1 | 5952.1 |
| 15° | 5766.3 | 5769.9 | 5816.6 | 5859.8 | 5879.0 |
| 17.5° | 5639.3 | 5663.3 | 5699.2 | 5748.3 | 5773.5 |
| 20° | 5512.3 | 5529.0 | 5569.8 | 5623.7 | 5638.1 |
| 22.5° | 5373.3 | 5391.2 | 5432.0 | 5476.3 | 5491.9 |
| 25° | 5224.7 | 5224.7 | 5258.2 | 5301.4 | 5331.3 |
| 27.5° | 5017.4 | 5042.5 | 5066.5 | 5104.8 | 5134.8 |
| 30° | 4819.6 | 4829.2 | 4858.0 | 4889.1 | 4903.5 |
| 32.5° | 4600.4 | 4601.5 | 4614.7 | 4649.5 | 4662.7 |
| 35° | 4314.0 | 4311.6 | 4340.3 | 4345.1 | 4363.1 |
| 37.5° | 4027.6 | 4039.5 | 4050.3 | 4067.1 | 4068.3 |
| 40° | 3714.8 | 3720.8 | 3732.8 | 3714.8 | 3723.2 |
| 42.5° | 3374.5 | 3366.1 | 3343.3 | 3289.4 | 3266.6 |
| 45° | 2956.3 | 2933.5 | 2878.4 | 2776.5 | 2763.3 |
| 47.5° | 2494.9 | 2438.6 | 2371.5 | 2296.0 | 2281.6 |
| 50° | 1918.5 | 1923.3 | 1889.8 | 1864.6 | 1867.0 |
| 52.5° | 1398.4 | 1415.2 | 1423.6 | 1447.6 | 1460.8 |
| 55° | 982.6 | 997.0 | 1041.3 | 1095.3 | 1127.6 |
| 57.5° | 636.3 | 663.9 | 721.4 | 782.5 | 805.3 |
| 60° | 406.2 | 424.2 | 475.7 | 520.1 | 550.0 |
| 62.5° | 266.0 | 272.0 | 300.8 | 341.5 | 342.7 |
| 65° | 161.8 | 182.1 | 195.3 | 212.1 | 224.1 |
| 67.5° | 105.5 | 105.5 | 117.4 | 133.0 | 136.6 |
| 70° | 61.1 | 62.3 | 68.3 | 74.3 | 77.9 |
| 72.5° | 33.6 | 37.1 | 40.7 | 46.7 | 52.7 |
| 75° | 21.6 | 30.0 | 31.2 | 30.0 | 35.9 |
| 77.5° | 14.4 | 14.4 | 12.0 | 20.4 | 21.6 |
| 80° | 12.0 | 8.4 | 10.8 | 15.6 | 16.8 |
| 82.5° | 0.0 | 1.2 | 1.2 | 2.4 | 0.0 |
| 85° | 2.4 | 3.6 | 6.0 | 13.2 | 3.6 |
| 87.5° | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)