

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: P247283

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909730 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 6845.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

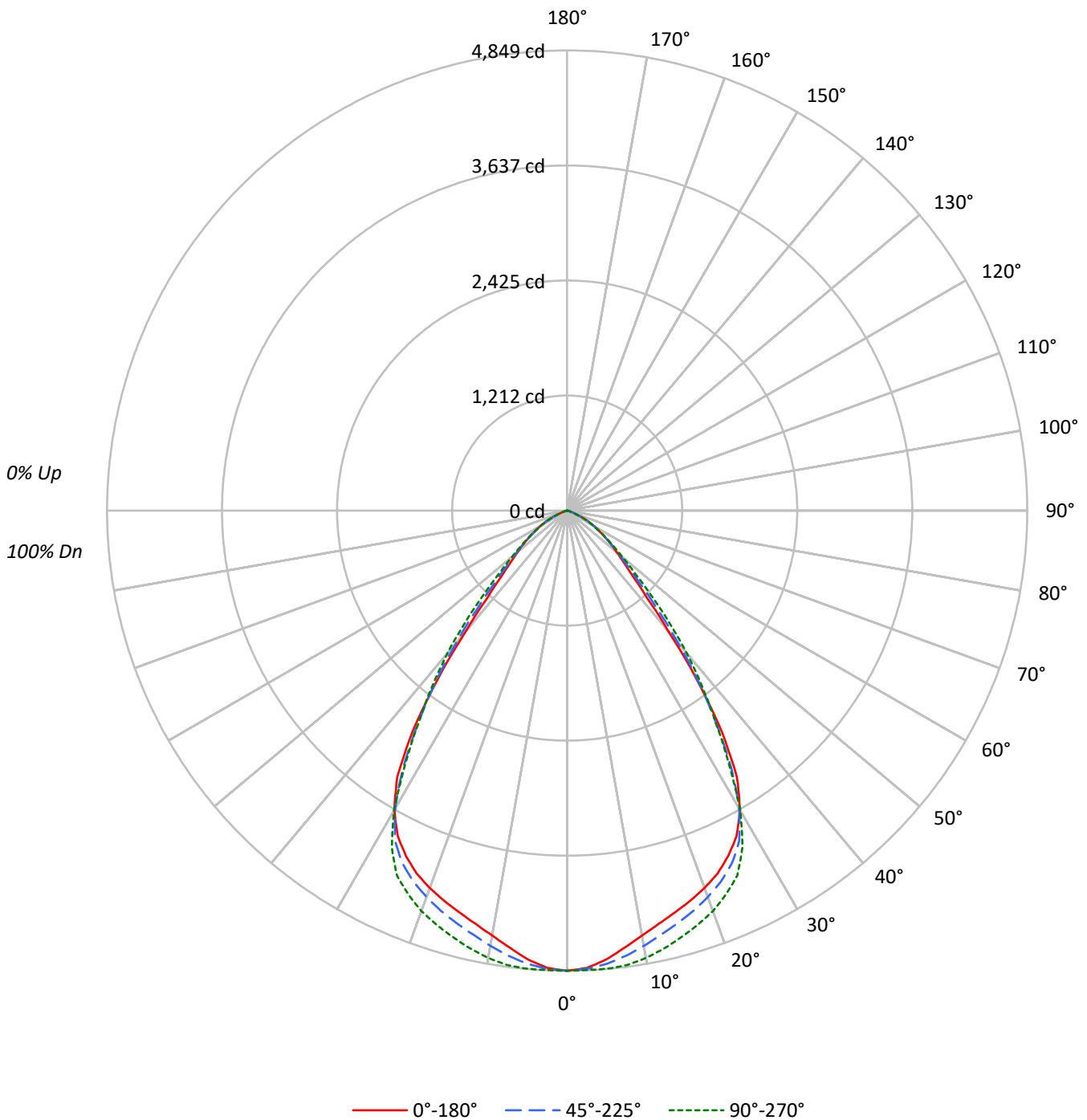
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 83 | | | | | | |
| 3 | 99 | 91 | 85 | 81 | 97 | 90 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 | | | | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 68 | | | | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | | |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 | | | | | | |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 49 | 59 | 54 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | | | | |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 44 | | | | | | |
| 10 | 65 | 53 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 42 | 40 | | | | | | |

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° | 453.4 | 6.6 |
| 10°-20° | 1273.3 | 18.6 |
| 20°-30° | 1875.3 | 27.4 |
| 30°-40° | 1705.7 | 24.9 |
| 40°-50° | 883.0 | 12.9 |
| 50°-60° | 442.3 | 6.5 |
| 60°-70° | 180.1 | 2.6 |
| 70°-80° | 28.7 | 0.4 |
| 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° | 3602.1 | 52.6 |
| 0°-40° | 5307.7 | 77.5 |
| 0°-60° | 6633.0 | 96.9 |
| 0°-90° | 6845.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6845.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4849 | 4849 | 4849 | 4849 | 4849 | |
| 5° | 4748 | 4760 | 4793 | 4830 | 4846 | 447 |
| 15° | 4384 | 4414 | 4500 | 4604 | 4654 | 1239 |
| 25° | 4017 | 4044 | 4105 | 4199 | 4243 | 1839 |
| 35° | 2839 | 2821 | 2739 | 2716 | 2732 | 1712 |
| 45° | 973 | 1007 | 1082 | 1166 | 1218 | 802 |
| 55° | 481 | 480 | 480 | 489 | 497 | 437 |
| 65° | 186 | 185 | 178 | 176 | 173 | 187 |
| 75° | 25 | 24 | 22 | 21 | 21 | 31 |
| 85° | 2 | 2 | 2 | 2 | 2 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4848.9 | 4848.9 | 4848.9 | 4848.9 | 4848.9 |
| 2.5° | 4823.1 | 4825.6 | 4832.3 | 4839.7 | 4845.5 |
| 5° | 4747.6 | 4760.1 | 4793.3 | 4829.8 | 4846.4 |
| 7.5° | 4644.7 | 4672.1 | 4732.7 | 4800.7 | 4830.6 |
| 10° | 4546.8 | 4578.4 | 4657.2 | 4748.5 | 4786.6 |
| 12.5° | 4460.5 | 4491.2 | 4576.7 | 4678.8 | 4726.1 |
| 15° | 4384.2 | 4414.1 | 4500.4 | 4604.1 | 4653.9 |
| 17.5° | 4312.0 | 4339.4 | 4421.5 | 4525.3 | 4575.9 |
| 20° | 4231.5 | 4255.6 | 4333.6 | 4434.0 | 4490.4 |
| 22.5° | 4140.3 | 4158.5 | 4231.5 | 4327.0 | 4376.7 |
| 25° | 4016.6 | 4044.0 | 4105.4 | 4199.2 | 4243.2 |
| 27.5° | 3865.6 | 3883.1 | 3925.4 | 3982.6 | 4000.9 |
| 30° | 3641.6 | 3640.8 | 3626.7 | 3626.7 | 3649.9 |
| 32.5° | 3330.5 | 3290.6 | 3223.4 | 3182.8 | 3179.5 |
| 35° | 2839.3 | 2821.0 | 2738.9 | 2715.7 | 2732.3 |
| 37.5° | 2240.2 | 2252.7 | 2273.4 | 2306.6 | 2336.5 |
| 40° | 1663.6 | 1695.1 | 1812.1 | 1916.6 | 1962.3 |
| 42.5° | 1241.3 | 1281.9 | 1401.4 | 1515.9 | 1571.5 |
| 45° | 973.3 | 1007.3 | 1081.9 | 1165.7 | 1218.0 |
| 47.5° | 804.8 | 822.2 | 862.1 | 918.5 | 945.0 |
| 50° | 681.2 | 689.5 | 707.7 | 736.8 | 757.5 |
| 52.5° | 578.3 | 575.0 | 584.9 | 604.0 | 611.5 |
| 55° | 481.2 | 479.6 | 479.6 | 488.7 | 497.0 |
| 57.5° | 399.1 | 396.6 | 391.6 | 395.8 | 398.3 |
| 60° | 326.9 | 324.4 | 320.3 | 319.4 | 318.6 |
| 62.5° | 263.0 | 258.9 | 250.6 | 248.9 | 248.9 |
| 65° | 185.9 | 185.0 | 178.4 | 175.9 | 173.4 |
| 67.5° | 115.3 | 112.0 | 106.2 | 101.2 | 100.4 |
| 70° | 68.9 | 68.0 | 63.1 | 59.7 | 59.7 |
| 72.5° | 41.5 | 39.8 | 37.3 | 35.7 | 34.8 |
| 75° | 24.9 | 24.1 | 22.4 | 20.7 | 20.7 |
| 77.5° | 14.9 | 14.1 | 13.3 | 12.4 | 12.4 |
| 80° | 8.3 | 8.3 | 7.5 | 7.5 | 7.5 |
| 82.5° | 5.0 | 5.0 | 4.1 | 4.1 | 4.1 |
| 85° | 2.5 | 2.5 | 2.5 | 1.7 | 1.7 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)