

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: P247133

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120950 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12772.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

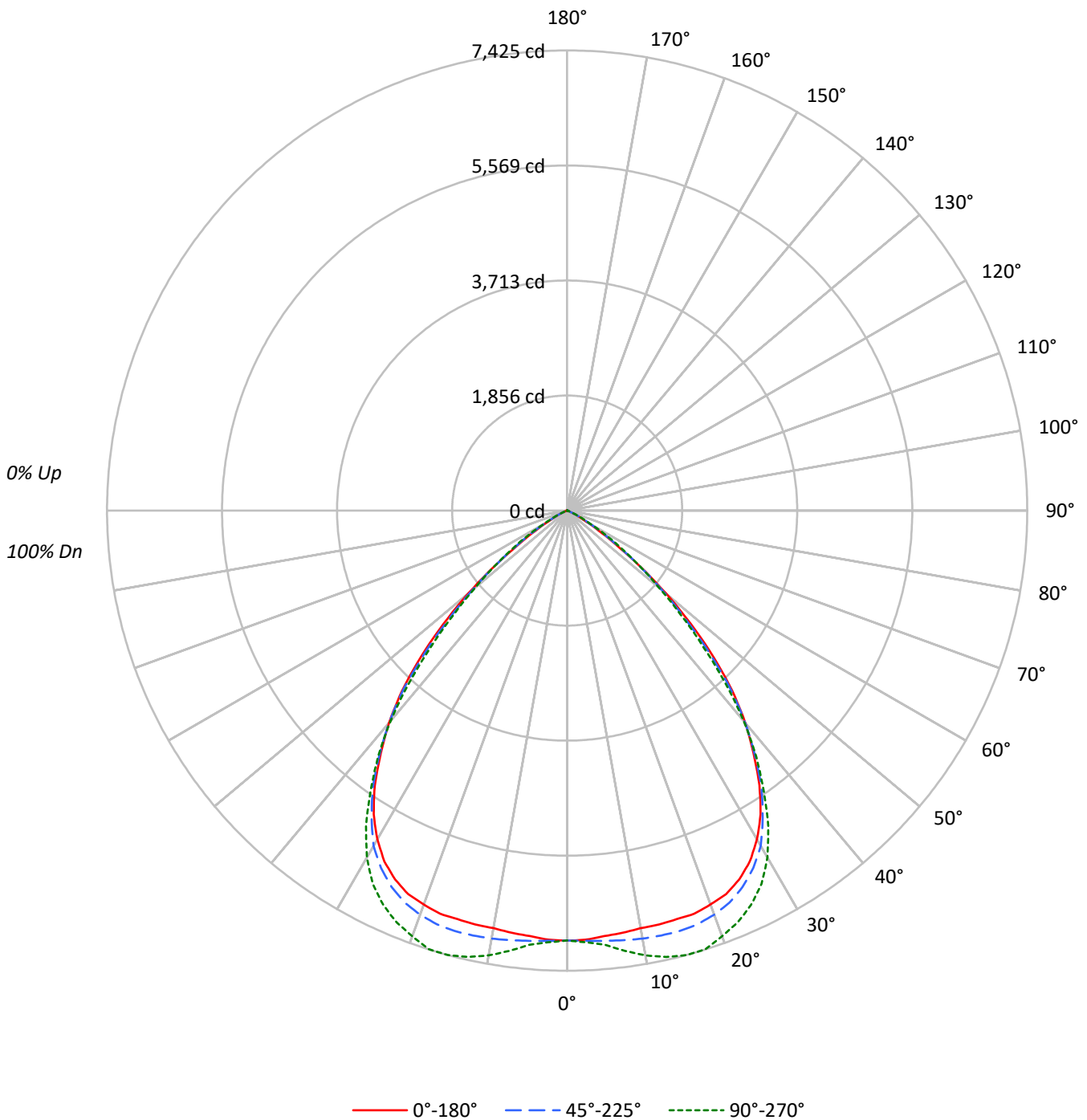
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 84 | 82 | | | | | 82 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | | | 73 | | | |
| 4 | 92 | 82 | 76 | 70 | 90 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 66 | | | | | 66 | | | |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 72 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 61 | 59 | | | | | 59 | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 7 | 75 | 64 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 50 | 59 | 54 | 50 | 48 | | | | | 48 | | | |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 46 | 44 | | | | | 44 | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 38 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 213930 | 213930 | 213930 |
| 5° | 213360 | 215716 | 217734 |
| 10° | 214212 | 219613 | 228205 |
| 15° | 217920 | 224209 | 237046 |
| 20° | 221953 | 227706 | 239831 |
| 25° | 223430 | 227958 | 238866 |
| 30° | 218148 | 222503 | 230048 |
| 35° | 203632 | 205729 | 208184 |
| 40° | 180072 | 179907 | 178538 |
| 45° | 145615 | 141468 | 135245 |
| 50° | 100033 | 96190 | 93062 |
| 55° | 51487 | 54772 | 58643 |
| 60° | 21450 | 25384 | 28487 |
| 65° | 8325 | 8821 | 10405 |
| 70° | 2209 | 2083 | 2813 |
| 75° | 977 | 1775 | 1620 |
| 80° | 1456 | 1687 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 667.6 | 5.2 |
| 10°-20° | 1998.7 | 15.6 |
| 20°-30° | 3092.8 | 24.2 |
| 30°-40° | 3387.5 | 26.5 |
| 40°-50° | 2478.3 | 19.4 |
| 50°-60° | 972.4 | 7.6 |
| 60°-70° | 157.4 | 1.2 |
| 70°-80° | 14.5 | 0.1 |
| 80°-90° | 2.9 | 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° | 5759.0 | 45.1 |
| 0°-40° | 9146.5 | 71.6 |
| 0°-60° | 12597.2 | 98.6 |
| 0°-90° | 12772.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12772.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6938 | 6938 | 6938 | 6938 | 6938 | |
| 5° | 6893 | 6909 | 6969 | 7019 | 7034 | 657 |
| 15° | 6826 | 6871 | 7023 | 7284 | 7425 | 1933 |
| 25° | 6567 | 6587 | 6700 | 6902 | 7020 | 3011 |
| 35° | 5409 | 5419 | 5465 | 5517 | 5530 | 3349 |
| 45° | 3339 | 3334 | 3244 | 3145 | 3101 | 2543 |
| 55° | 958 | 978 | 1019 | 1056 | 1091 | 942 |
| 65° | 114 | 111 | 121 | 133 | 143 | 138 |
| 75° | 8 | 12 | 15 | 11 | 14 | 14 |
| 85° | 0 | 0 | 0 | 0 | 0 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247133

CATALOG NUMBER: LSR8B120D010 EC8B120950 8LBSOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6937.6 | 6937.6 | 6937.6 | 6937.6 | 6937.6 |
| 2.5° | 6930.8 | 6934.9 | 6948.5 | 6962.1 | 6970.2 |
| 5° | 6892.8 | 6909.1 | 6968.9 | 7019.1 | 7034.1 |
| 7.5° | 6869.7 | 6896.9 | 6990.6 | 7116.9 | 7165.8 |
| 10° | 6841.2 | 6880.6 | 7013.7 | 7193.0 | 7288.1 |
| 12.5° | 6842.5 | 6880.6 | 7021.8 | 7255.5 | 7377.8 |
| 15° | 6826.2 | 6871.0 | 7023.2 | 7284.0 | 7425.3 |
| 17.5° | 6822.1 | 6843.9 | 6998.7 | 7263.6 | 7419.9 |
| 20° | 6763.7 | 6793.6 | 6939.0 | 7174.0 | 7308.5 |
| 22.5° | 6699.9 | 6713.5 | 6846.6 | 7077.5 | 7191.6 |
| 25° | 6566.8 | 6587.1 | 6699.9 | 6902.3 | 7020.5 |
| 27.5° | 6383.4 | 6387.4 | 6501.5 | 6689.0 | 6792.3 |
| 30° | 6126.6 | 6147.0 | 6248.9 | 6387.4 | 6460.8 |
| 32.5° | 5808.7 | 5806.0 | 5872.6 | 5993.5 | 6041.0 |
| 35° | 5409.4 | 5418.9 | 5465.1 | 5516.7 | 5530.3 |
| 37.5° | 4940.7 | 4952.9 | 4984.2 | 5001.8 | 5014.0 |
| 40° | 4473.4 | 4473.4 | 4469.3 | 4450.3 | 4435.3 |
| 42.5° | 3940.9 | 3923.2 | 3902.8 | 3818.6 | 3781.9 |
| 45° | 3339.1 | 3333.6 | 3244.0 | 3144.8 | 3101.3 |
| 47.5° | 2706.0 | 2676.1 | 2582.4 | 2502.3 | 2484.6 |
| 50° | 2085.2 | 2054.0 | 2005.1 | 1965.7 | 1939.9 |
| 52.5° | 1486.1 | 1463.1 | 1483.4 | 1483.4 | 1480.7 |
| 55° | 957.7 | 978.1 | 1018.8 | 1055.5 | 1090.8 |
| 57.5° | 607.2 | 634.4 | 696.9 | 744.4 | 756.7 |
| 60° | 347.8 | 368.1 | 411.6 | 453.7 | 461.9 |
| 62.5° | 218.7 | 220.1 | 248.6 | 273.0 | 288.0 |
| 65° | 114.1 | 111.4 | 120.9 | 133.1 | 142.6 |
| 67.5° | 47.5 | 47.5 | 57.1 | 55.7 | 70.6 |
| 70° | 24.5 | 20.4 | 23.1 | 27.2 | 31.2 |
| 72.5° | 17.7 | 13.6 | 19.0 | 24.5 | 10.9 |
| 75° | 8.2 | 12.2 | 14.9 | 10.9 | 13.6 |
| 77.5° | 10.9 | 10.9 | 8.2 | 13.6 | 2.7 |
| 80° | 8.2 | 5.4 | 9.5 | 4.1 | 0.0 |
| 82.5° | 1.4 | 2.7 | 1.4 | 1.4 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.5 | 4.1 | 6.8 | 5.4 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)