

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: CORELITE

Report Number: P844851

Luminaire Tested: **SQ4P-BB-0U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P518604)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-0U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

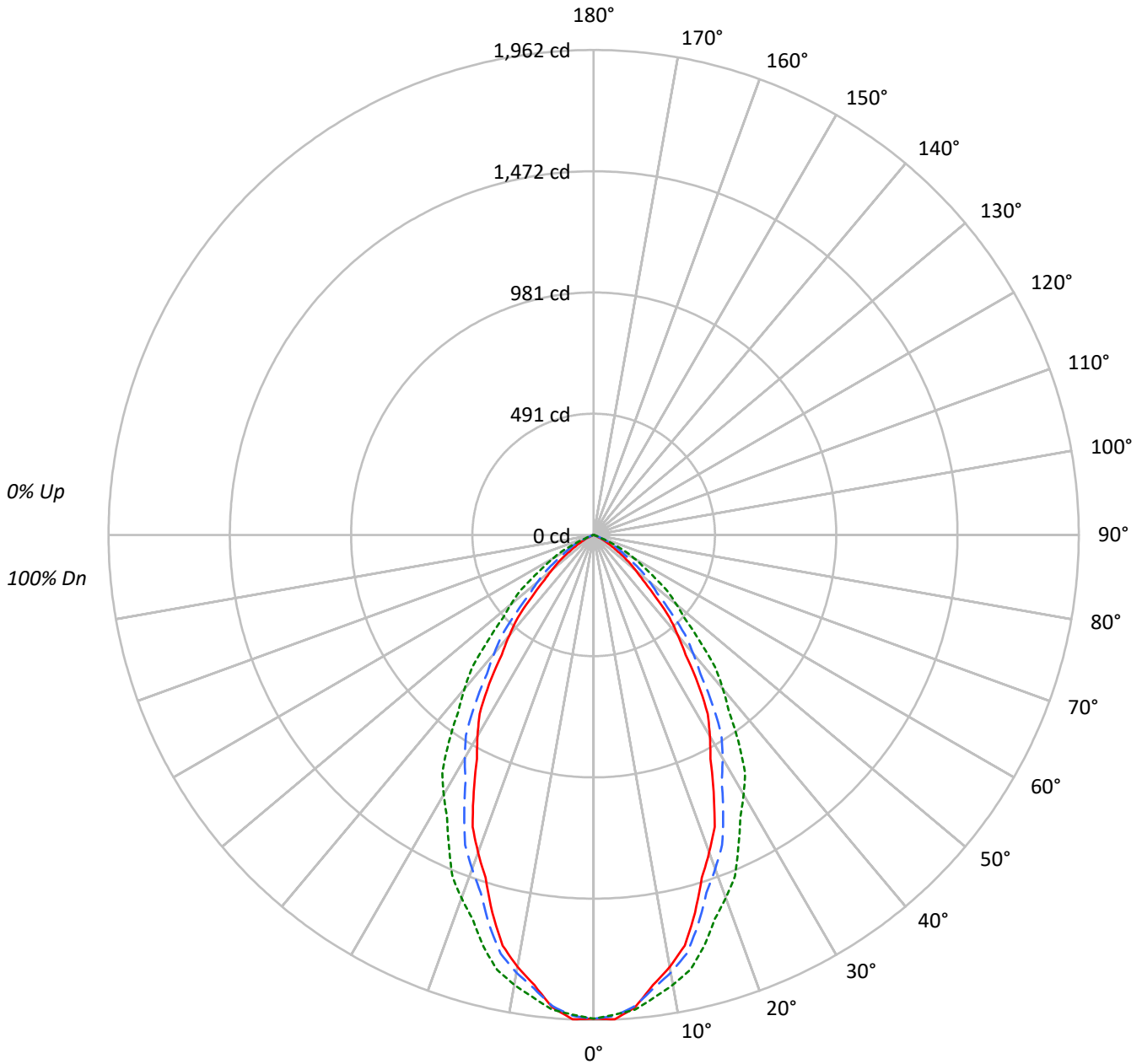
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.5 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.9
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: P844851
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Luminous Intensity Polar Plot





TEST NUMBER: P844851

CATALOG NUMBER: SQ4P-BB-0U-100D-B40-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 82 | | | | | | | | | | | | | | | | | | | |
| 3 | 99 | 91 | 85 | 81 | 97 | 90 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 | | | | | | | | | | | | | | | | | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 44 | | | | | | | | | | | | | | | | | | | |
| 10 | 65 | 54 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 41 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 18056 | 18056 | 18056 |
| 5° | 17765 | 17722 | 17853 |
| 10° | 16622 | 16844 | 17314 |
| 15° | 15112 | 15591 | 16459 |
| 20° | 13415 | 14111 | 15346 |
| 25° | 11681 | 12606 | 14100 |
| 30° | 10007 | 11104 | 12921 |
| 35° | 8295 | 9427 | 11494 |
| 40° | 6374 | 7538 | 9794 |
| 45° | 4608 | 5707 | 7881 |
| 50° | 3138 | 4251 | 6252 |
| 55° | 2041 | 3076 | 4859 |
| 60° | 1172 | 2168 | 3511 |
| 65° | 308 | 1325 | 1779 |
| 70° | 156 | 410 | 510 |
| 75° | 68 | 32 | 0 |
| 80° | 48 | 0 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P844851

CATALOG NUMBER: SQ4P-BB-0U-100D-B40-1D-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.6 | 7.7 |
| 10°-20° | 456.7 | 19.6 |
| 20°-30° | 571.8 | 24.5 |
| 30°-40° | 528.1 | 22.6 |
| 40°-50° | 354.9 | 15.2 |
| 50°-60° | 183.3 | 7.9 |
| 60°-70° | 57.4 | 2.5 |
| 70°-80° | 3.6 | 0.2 |
| 80°-90° | 0.1 | 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° | 1207.1 | 51.7 |
| 0°-40° | 1735.2 | 74.3 |
| 0°-60° | 2273.4 | 97.4 |
| 0°-90° | 2334.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2334.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1957 | 1957 | 1957 | 1957 | 1957 | |
| 5° | 1918 | 1899 | 1914 | 1920 | 1928 | 178 |
| 15° | 1582 | 1577 | 1632 | 1687 | 1723 | 441 |
| 25° | 1147 | 1157 | 1238 | 1323 | 1385 | 526 |
| 35° | 736 | 755 | 837 | 935 | 1020 | 456 |
| 45° | 353 | 374 | 437 | 523 | 604 | 277 |
| 55° | 127 | 148 | 191 | 246 | 302 | 118 |
| 65° | 14 | 27 | 61 | 73 | 82 | 24 |
| 75° | 2 | 2 | 1 | 0 | 0 | 3 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P844851

CATALOG NUMBER: SQ4P-BB-OU-100D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1957.0 | 1957.0 | 1957.0 | 1957.0 | 1957.0 |
| 2.5° | 1961.5 | 1943.1 | 1947.8 | 1947.8 | 1942.6 |
| 5° | 1918.2 | 1898.7 | 1913.5 | 1920.1 | 1927.7 |
| 7.5° | 1837.1 | 1821.9 | 1850.2 | 1871.3 | 1886.7 |
| 10° | 1774.2 | 1761.3 | 1797.9 | 1826.7 | 1848.1 |
| 12.5° | 1701.5 | 1691.4 | 1735.8 | 1775.4 | 1802.7 |
| 15° | 1582.1 | 1576.6 | 1632.3 | 1686.9 | 1723.2 |
| 17.5° | 1454.2 | 1453.9 | 1517.4 | 1585.5 | 1629.0 |
| 20° | 1366.3 | 1369.0 | 1437.2 | 1512.2 | 1563.0 |
| 22.5° | 1278.4 | 1284.8 | 1357.7 | 1436.0 | 1494.2 |
| 25° | 1147.4 | 1156.6 | 1238.3 | 1323.2 | 1385.1 |
| 27.5° | 1021.8 | 1035.3 | 1121.2 | 1209.1 | 1284.8 |
| 30° | 939.3 | 954.9 | 1042.3 | 1135.0 | 1212.8 |
| 32.5° | 858.0 | 876.9 | 962.0 | 1060.2 | 1139.2 |
| 35° | 736.5 | 755.2 | 837.0 | 935.4 | 1020.5 |
| 37.5° | 611.1 | 629.1 | 709.1 | 806.2 | 898.1 |
| 40° | 529.2 | 549.6 | 625.9 | 719.8 | 813.2 |
| 42.5° | 455.1 | 475.4 | 547.0 | 639.4 | 727.7 |
| 45° | 353.2 | 374.4 | 437.4 | 522.6 | 604.0 |
| 47.5° | 268.8 | 291.7 | 347.0 | 424.2 | 498.4 |
| 50° | 218.6 | 241.8 | 296.2 | 364.2 | 435.6 |
| 52.5° | 178.6 | 201.1 | 250.1 | 314.0 | 379.4 |
| 55° | 126.9 | 148.1 | 191.2 | 245.7 | 302.1 |
| 57.5° | 87.7 | 106.1 | 144.7 | 189.9 | 234.3 |
| 60° | 63.5 | 81.0 | 117.5 | 154.1 | 190.3 |
| 62.5° | 42.3 | 58.3 | 93.9 | 122.2 | 146.4 |
| 65° | 14.1 | 27.2 | 60.7 | 73.1 | 81.5 |
| 67.5° | 7.3 | 8.5 | 31.7 | 33.6 | 36.4 |
| 70° | 5.8 | 5.8 | 15.2 | 16.1 | 18.9 |
| 72.5° | 4.1 | 4.1 | 6.0 | 7.8 | 8.3 |
| 75° | 1.9 | 1.9 | 0.9 | 0.0 | 0.0 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 |
| 80° | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)