

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563472

Luminaire Tested: **SQ4-PP3-0U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563472
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

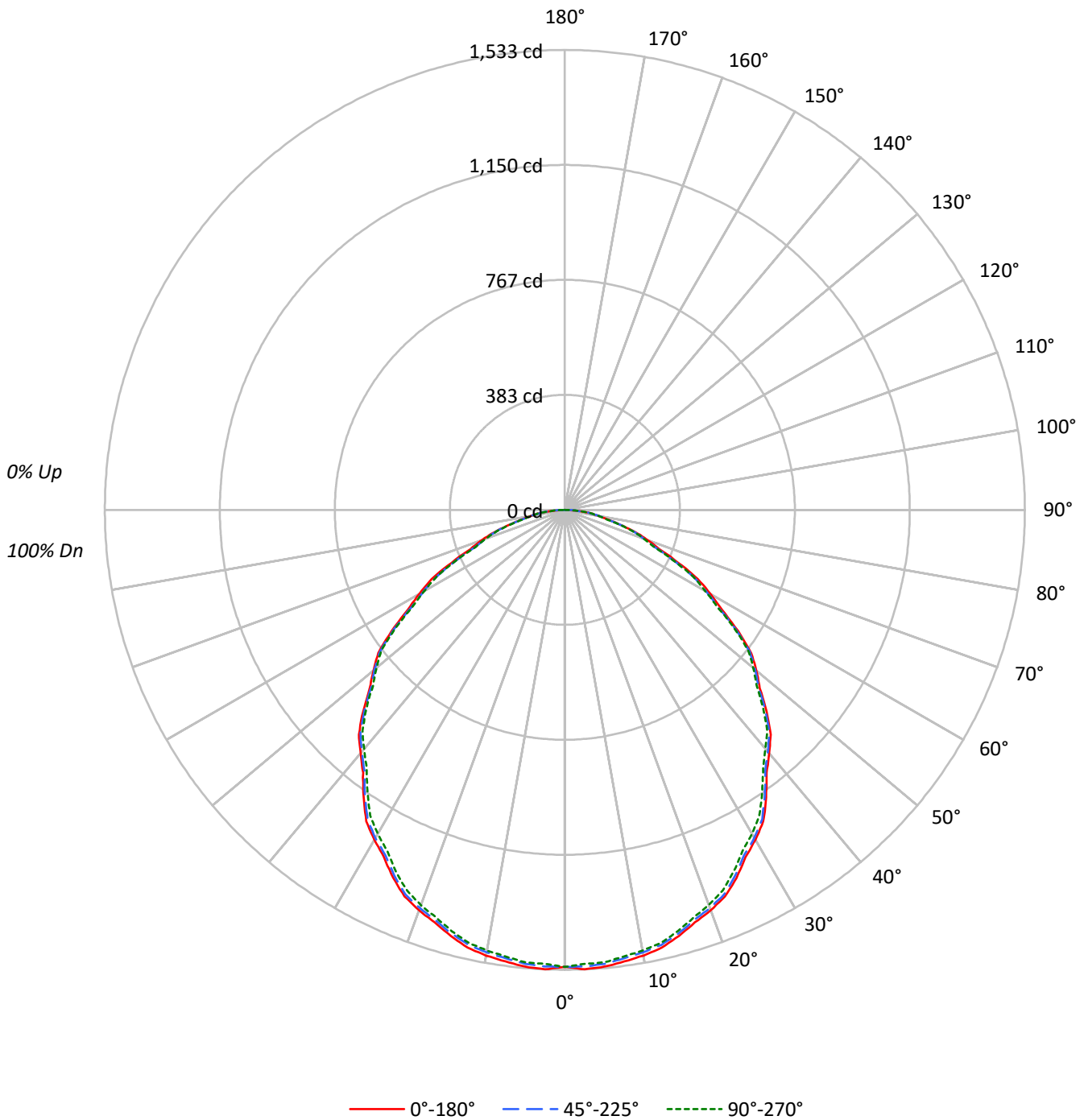
Lumens per Lamp: N/A
Luminaire Lumens: 3898.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): 120
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: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P563472

CATALOG NUMBER: SQ4-PP3-OU-050D-835-1D-UNV-STD-W-8

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | | 95 | 92 | 90 | | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | | 84 | 79 | 76 | | 81 | 77 | 74 | 72 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | | 74 | 69 | 64 | | 72 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | | 66 | 60 | 56 | | 64 | 59 | 55 | 53 |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | | 60 | 53 | 48 | | 58 | 52 | 48 | 46 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 49 | 43 | | 54 | 48 | 43 | | 53 | 47 | 42 | 40 |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | | 49 | 43 | 38 | | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | | 45 | 39 | 34 | | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | | 42 | 35 | 31 | | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | | 39 | 33 | 28 | | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7027 | 7027 | 7027 |
| 5° | 7079 | 7035 | 7010 |
| 10° | 7067 | 7017 | 6985 |
| 15° | 7020 | 6981 | 6943 |
| 20° | 6973 | 6934 | 6882 |
| 25° | 6890 | 6843 | 6775 |
| 30° | 6763 | 6727 | 6642 |
| 35° | 6586 | 6541 | 6458 |
| 40° | 6375 | 6335 | 6263 |
| 45° | 6201 | 6158 | 6097 |
| 50° | 5978 | 5940 | 5883 |
| 55° | 5669 | 5594 | 5551 |
| 60° | 5161 | 5014 | 4989 |
| 65° | 4546 | 4357 | 4342 |
| 70° | 3925 | 3763 | 3763 |
| 75° | 3379 | 3331 | 3283 |
| 80° | 2978 | 3015 | 2943 |
| 85° | 2334 | 2546 | 2546 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.0 | 3.7 |
| 10°-20° | 411.3 | 10.5 |
| 20°-30° | 616.0 | 15.8 |
| 30°-40° | 722.6 | 18.5 |
| 40°-50° | 724.8 | 18.6 |
| 50°-60° | 618.3 | 15.9 |
| 60°-70° | 403.3 | 10.3 |
| 70°-80° | 202.3 | 5.2 |
| 80°-90° | 56.0 | 1.4 |
| 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° | 1171.3 | 30.0 |
| 0°-40° | 1893.9 | 48.6 |
| 0°-60° | 3237.1 | 83.0 |
| 0°-90° | 3898.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3898.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1523 | 1523 | 1523 | 1523 | 1523 | |
| 5° | 1529 | 1514 | 1519 | 1514 | 1514 | 145 |
| 15° | 1470 | 1456 | 1462 | 1456 | 1454 | 415 |
| 25° | 1354 | 1338 | 1344 | 1332 | 1331 | 622 |
| 35° | 1170 | 1158 | 1162 | 1148 | 1147 | 731 |
| 45° | 950 | 944 | 944 | 934 | 934 | 732 |
| 55° | 705 | 702 | 696 | 692 | 690 | 626 |
| 65° | 416 | 409 | 399 | 396 | 398 | 416 |
| 75° | 190 | 190 | 187 | 186 | 184 | 206 |
| 85° | 44 | 48 | 48 | 48 | 48 | 53 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P563472

CATALOG NUMBER: SQ4-PP3-OU-050D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1523.3 | 1523.3 | 1523.3 | 1523.3 | 1523.3 |
| 2.5° | 1532.9 | 1520.3 | 1523.3 | 1521.0 | 1514.7 |
| 5° | 1528.6 | 1514.2 | 1519.2 | 1513.9 | 1513.9 |
| 7.5° | 1518.2 | 1502.5 | 1507.5 | 1502.2 | 1501.9 |
| 10° | 1508.6 | 1492.9 | 1497.9 | 1492.5 | 1491.2 |
| 12.5° | 1494.7 | 1479.0 | 1485.1 | 1478.7 | 1478.4 |
| 15° | 1469.9 | 1455.5 | 1461.8 | 1456.4 | 1453.8 |
| 17.5° | 1441.8 | 1426.2 | 1433.8 | 1426.3 | 1425.3 |
| 20° | 1420.5 | 1404.8 | 1412.4 | 1401.8 | 1401.8 |
| 22.5° | 1394.8 | 1379.2 | 1387.9 | 1374.0 | 1374.0 |
| 25° | 1353.7 | 1338.0 | 1344.4 | 1332.3 | 1331.0 |
| 27.5° | 1304.8 | 1289.4 | 1296.0 | 1282.4 | 1282.1 |
| 30° | 1269.6 | 1255.2 | 1262.9 | 1248.2 | 1246.9 |
| 32.5° | 1231.2 | 1217.8 | 1223.4 | 1208.7 | 1207.4 |
| 35° | 1169.5 | 1157.7 | 1161.5 | 1148.1 | 1146.8 |
| 37.5° | 1104.6 | 1092.6 | 1096.8 | 1085.4 | 1084.8 |
| 40° | 1058.7 | 1050.8 | 1052.0 | 1042.6 | 1040.0 |
| 42.5° | 1015.9 | 1007.1 | 1008.2 | 998.8 | 998.3 |
| 45° | 950.5 | 944.0 | 943.9 | 934.5 | 934.5 |
| 47.5° | 881.1 | 876.1 | 874.7 | 867.0 | 866.7 |
| 50° | 833.0 | 829.1 | 827.7 | 821.0 | 819.7 |
| 52.5° | 782.9 | 781.0 | 776.4 | 770.8 | 770.6 |
| 55° | 704.9 | 702.3 | 695.5 | 691.5 | 690.2 |
| 57.5° | 620.2 | 615.0 | 607.4 | 601.6 | 602.6 |
| 60° | 559.4 | 554.2 | 543.4 | 540.7 | 540.7 |
| 62.5° | 500.6 | 494.4 | 483.5 | 479.9 | 481.9 |
| 65° | 416.5 | 408.7 | 399.2 | 396.5 | 397.8 |
| 67.5° | 340.2 | 333.1 | 322.8 | 322.8 | 321.7 |
| 70° | 291.0 | 287.1 | 279.0 | 279.0 | 279.0 |
| 72.5° | 247.2 | 245.4 | 239.5 | 239.5 | 238.4 |
| 75° | 189.6 | 189.6 | 186.9 | 185.5 | 184.2 |
| 77.5° | 142.0 | 142.6 | 141.2 | 139.9 | 137.5 |
| 80° | 112.1 | 114.8 | 113.5 | 112.1 | 110.8 |
| 82.5° | 84.4 | 87.0 | 86.8 | 84.4 | 84.1 |
| 85° | 44.1 | 48.0 | 48.1 | 48.1 | 48.1 |
| 87.5° | 11.7 | 15.9 | 17.1 | 17.1 | 18.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)