

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: P519303

Luminaire Tested: **SQ4-WB-0U-075D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519303
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

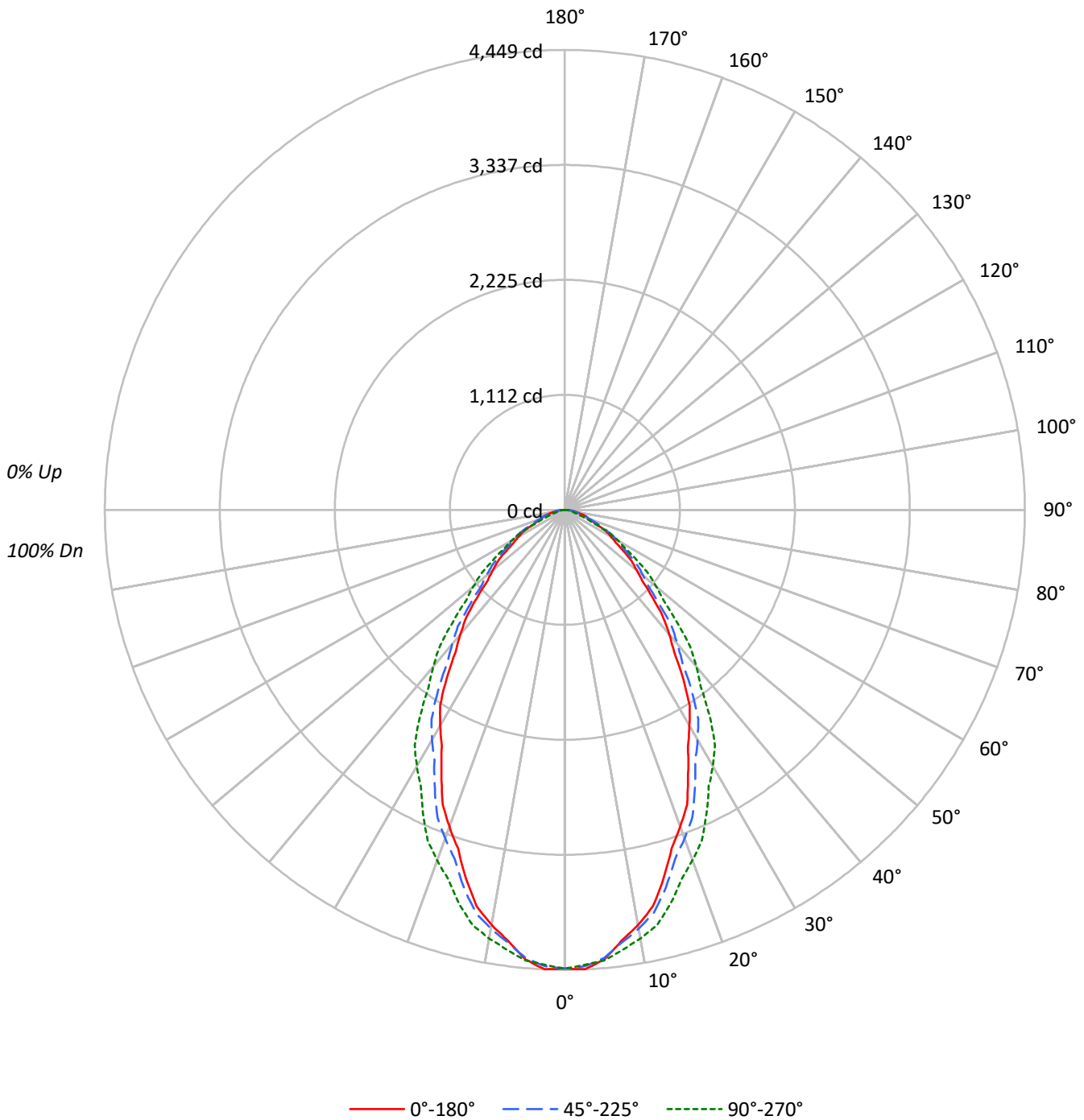
Lumens per Lamp: N/A
Luminaire Lumens: 6466.5 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: P519303

CATALOG NUMBER: SQ4-WB-OU-075D-940-1D-UNV-STD-W-12

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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | | 97 | 95 | 93 | | 94 | 92 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | | 88 | 85 | 82 | | 85 | 83 | 80 | 78 |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | | 80 | 76 | 72 | | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | | 74 | 68 | 64 | | 71 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | | 67 | 62 | 58 | | 66 | 61 | 57 | 55 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 53 | | 62 | 56 | 52 | | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | | 58 | 52 | 47 | | 56 | 51 | 47 | 45 |
| 8 | 68 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | | 53 | 48 | 43 | | 52 | 47 | 43 | 41 |
| 9 | 64 | 53 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | | 50 | 44 | 40 | | 49 | 44 | 40 | 38 |
| 10 | 61 | 49 | 42 | 37 | 60 | 48 | 42 | 37 | 48 | 41 | 37 | | 47 | 41 | 37 | | 46 | 41 | 37 | 35 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13648 | 13648 | 13648 |
| 5° | 13477 | 13429 | 13508 |
| 10° | 12733 | 12849 | 13147 |
| 15° | 11755 | 12027 | 12567 |
| 20° | 10674 | 11076 | 11809 |
| 25° | 9574 | 10096 | 11002 |
| 30° | 8560 | 9121 | 10165 |
| 35° | 7486 | 8027 | 9175 |
| 40° | 6301 | 6801 | 7943 |
| 45° | 5200 | 5649 | 6631 |
| 50° | 4341 | 4733 | 5525 |
| 55° | 3686 | 4062 | 4562 |
| 60° | 3150 | 3521 | 3641 |
| 65° | 2508 | 2962 | 2352 |
| 70° | 2224 | 2311 | 1436 |
| 75° | 2059 | 1874 | 879 |
| 80° | 1897 | 1725 | 758 |
| 85° | 1718 | 1581 | 618 |



TEST NUMBER: P519303

CATALOG NUMBER: SQ4-WB-OU-075D-940-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 407.0 | 6.3 |
| 10°-20° | 1058.7 | 16.4 |
| 20°-30° | 1371.4 | 21.2 |
| 30°-40° | 1342.9 | 20.8 |
| 40°-50° | 1027.9 | 15.9 |
| 50°-60° | 685.0 | 10.6 |
| 60°-70° | 373.8 | 5.8 |
| 70°-80° | 155.7 | 2.4 |
| 80°-90° | 44.1 | 0.7 |
| 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° | 2837.1 | 43.9 |
| 0°-40° | 4180.0 | 64.6 |
| 0°-60° | 5892.9 | 91.1 |
| 0°-90° | 6466.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6466.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4438 | 4438 | 4438 | 4438 | 4438 | |
| 5° | 4366 | 4322 | 4350 | 4360 | 4375 | 406 |
| 15° | 3692 | 3679 | 3778 | 3880 | 3947 | 1031 |
| 25° | 2822 | 2829 | 2975 | 3105 | 3242 | 1298 |
| 35° | 1994 | 2004 | 2138 | 2282 | 2444 | 1240 |
| 45° | 1196 | 1218 | 1299 | 1397 | 1525 | 932 |
| 55° | 687 | 716 | 758 | 786 | 851 | 623 |
| 65° | 345 | 373 | 407 | 356 | 323 | 358 |
| 75° | 173 | 173 | 158 | 108 | 74 | 185 |
| 85° | 49 | 49 | 45 | 29 | 18 | 55 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P519303

CATALOG NUMBER: SQ4-WB-OU-075D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4437.7 | 4437.7 | 4437.7 | 4437.7 | 4437.7 |
| 2.5° | 4448.6 | 4409.0 | 4419.0 | 4418.7 | 4406.5 |
| 5° | 4365.6 | 4321.8 | 4350.1 | 4360.1 | 4375.4 |
| 7.5° | 4203.6 | 4170.5 | 4221.9 | 4260.0 | 4290.9 |
| 10° | 4077.4 | 4048.9 | 4114.4 | 4169.9 | 4209.9 |
| 12.5° | 3931.0 | 3907.0 | 3988.3 | 4062.7 | 4114.8 |
| 15° | 3691.9 | 3678.6 | 3777.6 | 3880.3 | 3947.0 |
| 17.5° | 3436.0 | 3429.6 | 3543.1 | 3663.1 | 3748.4 |
| 20° | 3261.6 | 3259.7 | 3384.2 | 3509.2 | 3608.2 |
| 22.5° | 3085.5 | 3089.7 | 3220.7 | 3350.6 | 3463.3 |
| 25° | 2821.5 | 2829.1 | 2975.3 | 3105.0 | 3242.1 |
| 27.5° | 2577.3 | 2580.7 | 2731.9 | 2868.8 | 3015.1 |
| 30° | 2410.6 | 2420.2 | 2568.4 | 2710.1 | 2862.4 |
| 32.5° | 2244.0 | 2255.0 | 2400.1 | 2546.6 | 2701.9 |
| 35° | 1993.9 | 2003.5 | 2138.0 | 2281.9 | 2443.7 |
| 37.5° | 1736.1 | 1749.1 | 1868.5 | 2004.6 | 2163.7 |
| 40° | 1569.4 | 1588.5 | 1694.1 | 1822.2 | 1978.4 |
| 42.5° | 1409.0 | 1432.6 | 1530.5 | 1652.1 | 1793.0 |
| 45° | 1195.6 | 1218.4 | 1298.8 | 1397.1 | 1524.7 |
| 47.5° | 1011.8 | 1038.0 | 1099.8 | 1184.4 | 1293.3 |
| 50° | 907.4 | 932.1 | 989.2 | 1051.9 | 1154.7 |
| 52.5° | 815.5 | 840.2 | 891.0 | 939.4 | 1027.0 |
| 55° | 687.4 | 715.9 | 757.5 | 786.2 | 850.9 |
| 57.5° | 582.2 | 609.6 | 642.6 | 655.5 | 694.8 |
| 60° | 512.1 | 542.6 | 572.5 | 571.0 | 592.0 |
| 62.5° | 448.2 | 474.1 | 503.9 | 483.3 | 484.5 |
| 65° | 344.7 | 373.2 | 407.0 | 355.6 | 323.2 |
| 67.5° | 278.5 | 284.5 | 319.3 | 248.0 | 209.5 |
| 70° | 247.3 | 247.3 | 257.0 | 192.0 | 159.7 |
| 72.5° | 217.7 | 217.7 | 208.7 | 156.2 | 122.3 |
| 75° | 173.3 | 173.3 | 157.7 | 108.3 | 74.0 |
| 77.5° | 133.6 | 132.1 | 120.7 | 80.8 | 53.7 |
| 80° | 107.1 | 107.1 | 97.4 | 63.8 | 42.8 |
| 82.5° | 83.7 | 83.7 | 75.6 | 49.8 | 31.9 |
| 85° | 48.7 | 48.7 | 44.8 | 28.9 | 17.5 |
| 87.5° | 17.1 | 17.1 | 15.6 | 9.3 | 7.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)