

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: P563484

Luminaire Tested: **SQ4-PP3-0U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563484
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-935-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

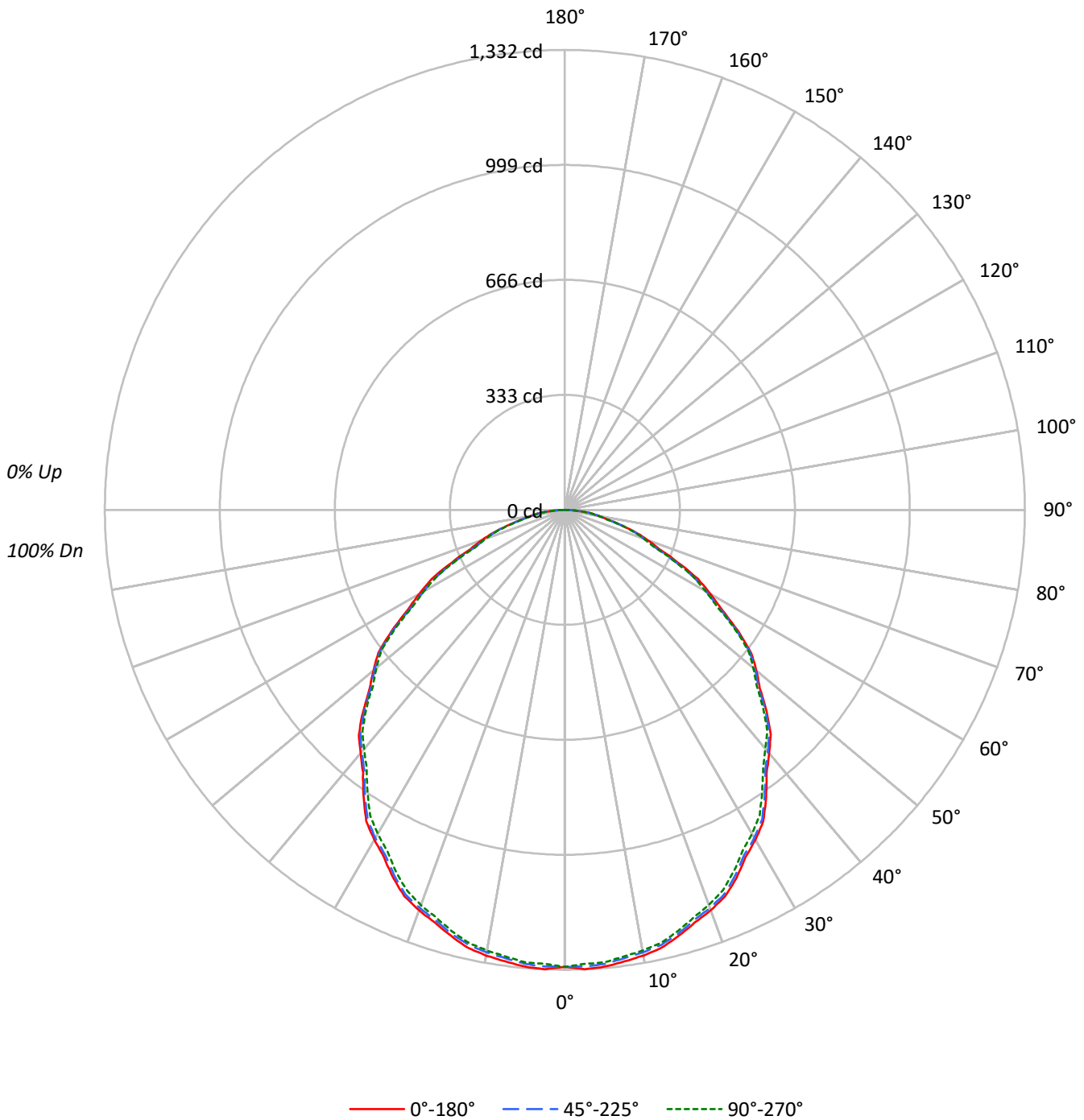
Lumens per Lamp: N/A
Luminaire Lumens: 3387.5 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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: P563484

CATALOG NUMBER: SQ4-PP3-OU-050D-935-1D-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 | 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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | 85 | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | 72 | |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | 61 | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | 53 | |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | 46 | | | 46 | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 43 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 42 | 40 | | | 40 | |
| 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | 36 | |
| 8 | 62 | 49 | 40 | 35 | 60 | 48 | 40 | 34 | 47 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | 32 | |
| 9 | 58 | 45 | 37 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 29 | | | 29 | |
| 10 | 54 | 41 | 34 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | 26 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6105 | 6105 | 6105 |
| 5° | 6151 | 6113 | 6091 |
| 10° | 6140 | 6097 | 6069 |
| 15° | 6099 | 6066 | 6033 |
| 20° | 6059 | 6025 | 5979 |
| 25° | 5987 | 5946 | 5887 |
| 30° | 5876 | 5845 | 5771 |
| 35° | 5722 | 5683 | 5611 |
| 40° | 5540 | 5505 | 5441 |
| 45° | 5388 | 5350 | 5297 |
| 50° | 5195 | 5161 | 5111 |
| 55° | 4926 | 4861 | 4823 |
| 60° | 4484 | 4356 | 4334 |
| 65° | 3950 | 3786 | 3773 |
| 70° | 3411 | 3269 | 3269 |
| 75° | 2936 | 2895 | 2854 |
| 80° | 2588 | 2619 | 2558 |
| 85° | 2027 | 2212 | 2212 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.2 | 3.7 |
| 10°-20° | 357.4 | 10.5 |
| 20°-30° | 535.3 | 15.8 |
| 30°-40° | 627.8 | 18.5 |
| 40°-50° | 629.8 | 18.6 |
| 50°-60° | 537.3 | 15.9 |
| 60°-70° | 350.4 | 10.3 |
| 70°-80° | 175.8 | 5.2 |
| 80°-90° | 48.7 | 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° | 1017.8 | 30.0 |
| 0°-40° | 1645.6 | 48.6 |
| 0°-60° | 2812.7 | 83.0 |
| 0°-90° | 3387.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3387.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1324 | 1324 | 1324 | 1324 | 1324 | |
| 5° | 1328 | 1316 | 1320 | 1315 | 1315 | 126 |
| 15° | 1277 | 1265 | 1270 | 1266 | 1263 | 360 |
| 25° | 1176 | 1163 | 1168 | 1158 | 1156 | 541 |
| 35° | 1016 | 1006 | 1009 | 998 | 996 | 635 |
| 45° | 826 | 820 | 820 | 812 | 812 | 636 |
| 55° | 612 | 610 | 604 | 601 | 600 | 544 |
| 65° | 362 | 355 | 347 | 344 | 346 | 361 |
| 75° | 165 | 165 | 162 | 161 | 160 | 179 |
| 85° | 38 | 42 | 42 | 42 | 42 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P563484

CATALOG NUMBER: SQ4-PP3-OU-050D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1323.5 | 1323.5 | 1323.5 | 1323.5 | 1323.5 |
| 2.5° | 1331.9 | 1321.0 | 1323.5 | 1321.6 | 1316.1 |
| 5° | 1328.2 | 1315.7 | 1320.1 | 1315.4 | 1315.4 |
| 7.5° | 1319.1 | 1305.5 | 1309.9 | 1305.2 | 1305.0 |
| 10° | 1310.8 | 1297.2 | 1301.5 | 1296.8 | 1295.7 |
| 12.5° | 1298.7 | 1285.1 | 1290.4 | 1284.8 | 1284.6 |
| 15° | 1277.1 | 1264.7 | 1270.2 | 1265.5 | 1263.2 |
| 17.5° | 1252.8 | 1239.2 | 1245.8 | 1239.3 | 1238.4 |
| 20° | 1234.2 | 1220.6 | 1227.3 | 1218.0 | 1218.0 |
| 22.5° | 1212.0 | 1198.3 | 1205.9 | 1193.9 | 1193.9 |
| 25° | 1176.2 | 1162.6 | 1168.1 | 1157.6 | 1156.5 |
| 27.5° | 1133.8 | 1120.4 | 1126.1 | 1114.3 | 1114.0 |
| 30° | 1103.1 | 1090.7 | 1097.3 | 1084.6 | 1083.4 |
| 32.5° | 1069.7 | 1058.2 | 1063.0 | 1050.2 | 1049.1 |
| 35° | 1016.1 | 1005.9 | 1009.2 | 997.6 | 996.4 |
| 37.5° | 959.8 | 949.3 | 953.0 | 943.1 | 942.6 |
| 40° | 919.9 | 913.1 | 914.1 | 905.9 | 903.6 |
| 42.5° | 882.7 | 875.0 | 876.0 | 867.9 | 867.4 |
| 45° | 825.9 | 820.2 | 820.1 | 812.0 | 812.0 |
| 47.5° | 765.6 | 761.3 | 760.0 | 753.3 | 753.1 |
| 50° | 723.8 | 720.4 | 719.2 | 713.4 | 712.2 |
| 52.5° | 680.2 | 678.6 | 674.6 | 669.8 | 669.5 |
| 55° | 612.5 | 610.2 | 604.4 | 600.8 | 599.7 |
| 57.5° | 538.9 | 534.4 | 527.8 | 522.7 | 523.6 |
| 60° | 486.0 | 481.5 | 472.1 | 469.8 | 469.8 |
| 62.5° | 435.0 | 429.6 | 420.1 | 416.9 | 418.8 |
| 65° | 361.9 | 355.1 | 346.8 | 344.5 | 345.7 |
| 67.5° | 295.6 | 289.4 | 280.5 | 280.5 | 279.6 |
| 70° | 252.9 | 249.5 | 242.4 | 242.4 | 242.4 |
| 72.5° | 214.8 | 213.2 | 208.1 | 208.1 | 207.2 |
| 75° | 164.7 | 164.7 | 162.4 | 161.2 | 160.1 |
| 77.5° | 123.4 | 123.9 | 122.7 | 121.5 | 119.5 |
| 80° | 97.4 | 99.7 | 98.6 | 97.4 | 96.3 |
| 82.5° | 73.3 | 75.6 | 75.4 | 73.3 | 73.1 |
| 85° | 38.3 | 41.7 | 41.8 | 41.8 | 41.8 |
| 87.5° | 10.2 | 13.8 | 14.8 | 14.9 | 15.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)