

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: P519745

Luminaire Tested: **SQ4-125U-0D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519745
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-125U-0D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

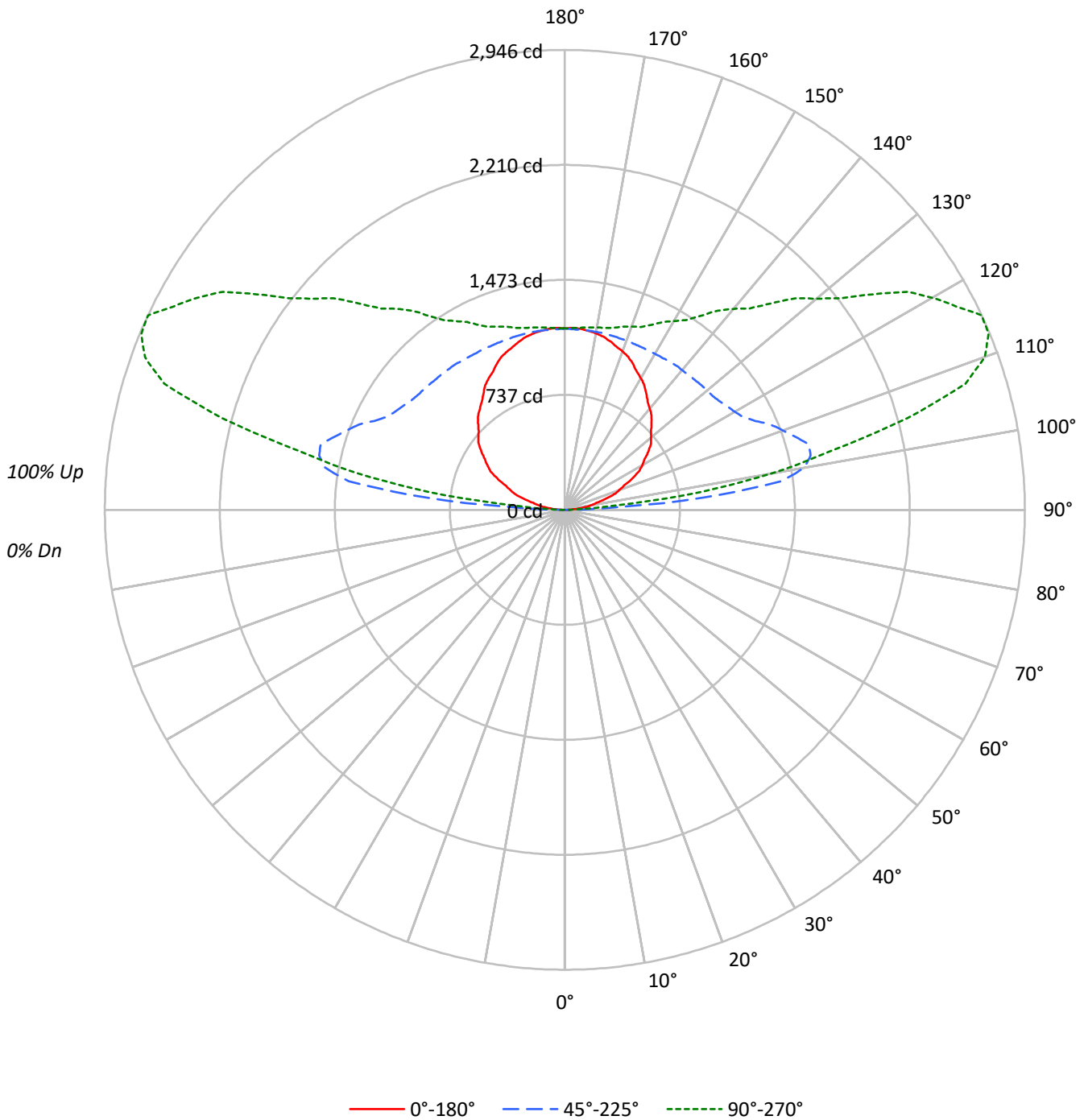
Lumens per Lamp: N/A
Luminaire Lumens: 7499.0 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Indirect

Input Watts (W): 47.5
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



TEST NUMBER: P519745
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Luminous Intensity Polar Plot





TEST NUMBER: P519745

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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 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 | | | | | | | | | | | | | | | | | | | |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 | | | | | | | | | | | | | | | | | | | |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 | | | | | | | | | | | | | | | | | | | |
| 3 | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 | | | | | | | | | | | | | | | | | | | |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 | | | | | | | | | | | | | | | | | | | |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 | | | | | | | | | | | | | | | | | | | |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 | | | | | | | | | | | | | | | | | | | |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 | | | | | | | | | | | | | | | | | | | |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 | | | | | | | | | | | | | | | | | | | |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|------|------|-------|-------|
| 95° | 5850 | 62866 | 22244 |
| 100° | 6029 | 55193 | 47907 |
| 105° | 6436 | 38473 | 54015 |
| 110° | 6679 | 26745 | 51468 |
| 115° | 6957 | 19620 | 42879 |
| 120° | 7064 | 15455 | 33441 |
| 125° | 6998 | 12981 | 25818 |
| 130° | 6910 | 11384 | 20122 |
| 135° | 6835 | 10233 | 16258 |
| 140° | 6796 | 9386 | 13497 |
| 145° | 6822 | 8722 | 11378 |
| 150° | 6916 | 8198 | 9911 |
| 155° | 7000 | 7813 | 8867 |
| 160° | 7070 | 7545 | 8166 |
| 165° | 7124 | 7359 | 7689 |
| 170° | 7172 | 7228 | 7403 |
| 175° | 7181 | 7145 | 7227 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 543.4 | 7.2 |
| 100°-110° | 1463.8 | 19.5 |
| 110°-120° | 1536.2 | 20.5 |
| 120°-130° | 1246.6 | 16.6 |
| 130°-140° | 977.7 | 13.0 |
| 140°-150° | 750.6 | 10.0 |
| 150°-160° | 539.7 | 7.2 |
| 160°-170° | 329.7 | 4.4 |
| 170°-180° | 111.2 | 1.5 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 0.0 | 0.0 |
| 90°-120° | 3543.5 | 47.3 |
| 90°-150° | 6518.4 | 86.9 |
| 90°-180° | 7499.0 | 100.0 |
| 0°-180° | 7499.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 90° | 3 | 9 | 18 | 19 | 19 | |
| 95° | 83 | 296 | 891 | 456 | 315 | 92 |
| 105° | 271 | 421 | 1619 | 2422 | 2273 | 285 |
| 115° | 478 | 585 | 1348 | 2605 | 2946 | 470 |
| 125° | 653 | 750 | 1210 | 2046 | 2408 | 583 |
| 135° | 786 | 877 | 1176 | 1650 | 1869 | 607 |
| 145° | 909 | 980 | 1162 | 1411 | 1515 | 570 |
| 155° | 1031 | 1069 | 1151 | 1266 | 1307 | 475 |
| 165° | 1119 | 1132 | 1156 | 1202 | 1208 | 315 |
| 175° | 1163 | 1162 | 1157 | 1173 | 1170 | 110 |
| 180° | 1162 | 1162 | 1162 | 1162 | 1162 | |

TEST NUMBER: P519745

CATALOG NUMBER: SQ4-125U-0D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 90° | 3.0 | 8.7 | 17.8 | 19.2 | 19.2 |
| 92.5° | 36.1 | 127.6 | 252.2 | 121.4 | 84.3 |
| 95° | 82.9 | 295.6 | 890.8 | 455.5 | 315.2 |
| 97.5° | 132.3 | 338.3 | 1397.2 | 1167.2 | 880.2 |
| 100° | 170.2 | 355.4 | 1558.2 | 1630.3 | 1352.5 |
| 102.5° | 206.9 | 379.3 | 1611.5 | 1977.1 | 1749.1 |
| 105° | 270.8 | 421.3 | 1618.9 | 2422.0 | 2272.9 |
| 107.5° | 331.2 | 465.4 | 1549.9 | 2650.6 | 2689.1 |
| 110° | 371.4 | 498.8 | 1487.2 | 2721.5 | 2861.9 |
| 112.5° | 414.0 | 532.1 | 1426.8 | 2705.8 | 2936.5 |
| 115° | 478.0 | 585.0 | 1348.1 | 2604.8 | 2946.2 |
| 117.5° | 536.3 | 636.7 | 1287.1 | 2443.5 | 2823.7 |
| 120° | 574.2 | 671.1 | 1256.3 | 2327.7 | 2718.4 |
| 122.5° | 607.3 | 703.1 | 1233.8 | 2209.3 | 2598.8 |
| 125° | 652.6 | 749.5 | 1210.5 | 2045.9 | 2407.6 |
| 127.5° | 696.1 | 791.6 | 1195.7 | 1901.8 | 2224.7 |
| 130° | 722.1 | 817.6 | 1189.7 | 1819.2 | 2102.8 |
| 132.5° | 748.2 | 842.5 | 1183.8 | 1746.4 | 2006.9 |
| 135° | 785.8 | 876.9 | 1176.4 | 1650.5 | 1869.0 |
| 137.5° | 821.6 | 909.0 | 1172.6 | 1569.1 | 1748.5 |
| 140° | 846.4 | 930.4 | 1169.0 | 1519.0 | 1681.0 |
| 142.5° | 872.5 | 950.6 | 1166.7 | 1472.2 | 1608.8 |
| 145° | 908.6 | 979.5 | 1161.6 | 1411.1 | 1515.3 |
| 147.5° | 947.7 | 1009.3 | 1156.6 | 1359.7 | 1441.6 |
| 150° | 973.7 | 1027.2 | 1154.2 | 1327.4 | 1395.4 |
| 152.5° | 997.4 | 1044.0 | 1153.0 | 1301.1 | 1356.4 |
| 155° | 1031.4 | 1069.0 | 1151.3 | 1266.1 | 1306.6 |
| 157.5° | 1061.3 | 1090.5 | 1151.6 | 1241.6 | 1268.8 |
| 160° | 1080.2 | 1104.8 | 1152.7 | 1227.2 | 1247.5 |
| 162.5° | 1096.8 | 1116.8 | 1153.9 | 1215.2 | 1229.7 |
| 165° | 1118.7 | 1131.7 | 1155.7 | 1201.7 | 1207.5 |
| 167.5° | 1136.5 | 1144.0 | 1157.2 | 1191.3 | 1193.6 |
| 170° | 1148.3 | 1151.2 | 1157.2 | 1185.3 | 1185.3 |
| 172.5° | 1155.4 | 1156.0 | 1158.4 | 1179.4 | 1179.4 |
| 175° | 1163.1 | 1161.7 | 1157.2 | 1173.4 | 1170.5 |
| 177.5° | 1166.4 | 1164.0 | 1158.1 | 1167.5 | 1165.2 |
| 180° | 1161.6 | 1161.6 | 1161.6 | 1161.6 | 1161.6 |

(END OF REPORT)