

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: P519664

Luminaire Tested: **SQ4-025U-0D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519664
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-025U-0D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

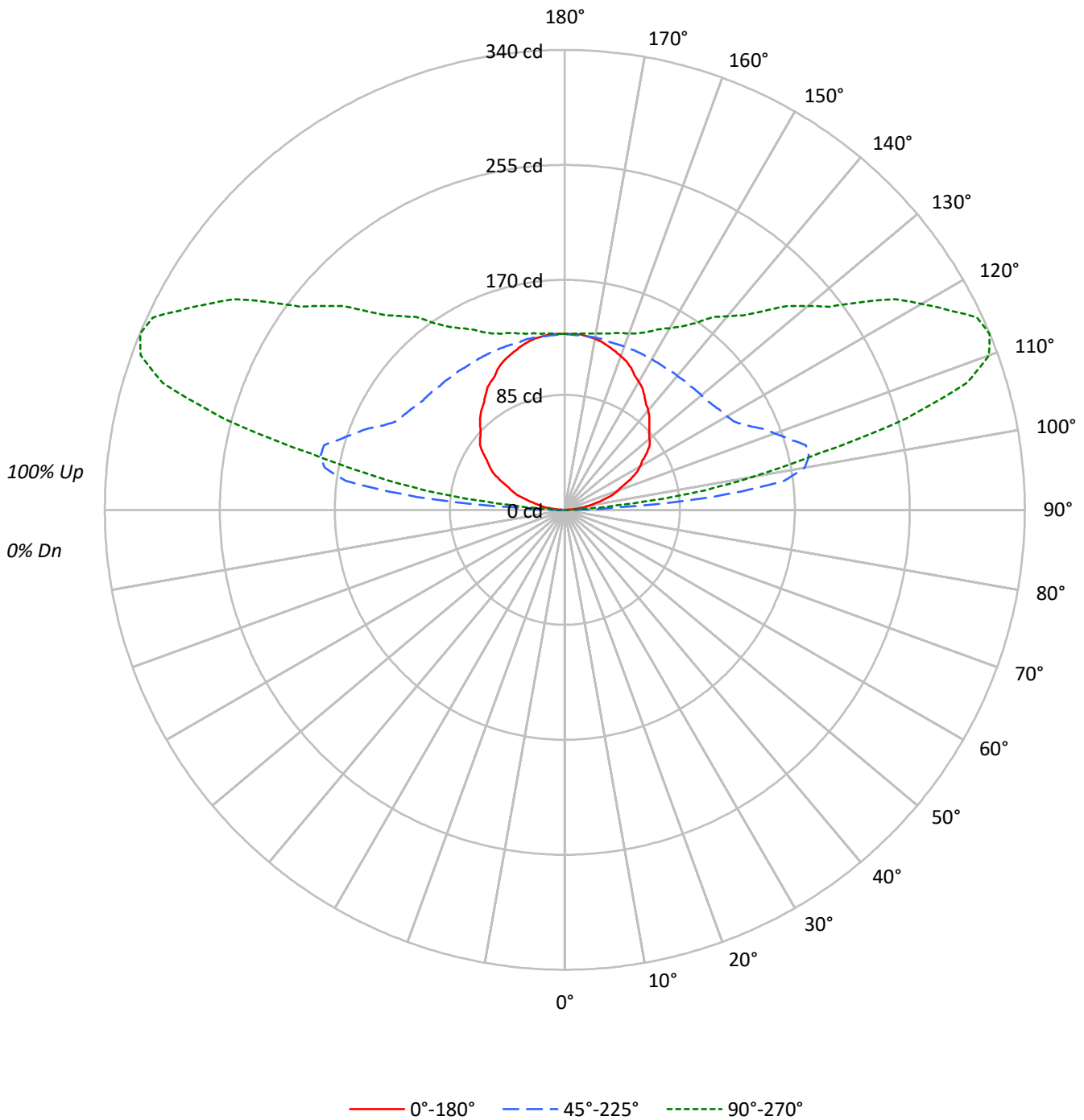
Lumens per Lamp: N/A
Luminaire Lumens: 843.4 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 5.9
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: P519664

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|
| RF | 20 | | | | | | | | 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 | | | | 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° | 879 | 11570 | 4065 |
| 100° | 1020 | 9574 | 7534 |
| 105° | 1069 | 6570 | 9308 |
| 110° | 1125 | 4456 | 9002 |
| 115° | 1166 | 3222 | 7340 |
| 120° | 1185 | 2556 | 5619 |
| 125° | 1194 | 2160 | 4308 |
| 130° | 1173 | 1892 | 3364 |
| 135° | 1153 | 1698 | 2710 |
| 140° | 1155 | 1557 | 2250 |
| 145° | 1156 | 1447 | 1898 |
| 150° | 1164 | 1369 | 1652 |
| 155° | 1180 | 1308 | 1477 |
| 160° | 1187 | 1262 | 1360 |
| 165° | 1195 | 1227 | 1290 |
| 170° | 1204 | 1211 | 1242 |
| 175° | 1205 | 1198 | 1213 |



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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° | 63.4 | 7.5 |
| 100°-110° | 166.7 | 19.8 |
| 110°-120° | 172.9 | 20.5 |
| 120°-130° | 138.7 | 16.4 |
| 130°-140° | 108.8 | 12.9 |
| 140°-150° | 83.5 | 9.9 |
| 150°-160° | 60.2 | 7.1 |
| 160°-170° | 36.8 | 4.4 |
| 170°-180° | 12.4 | 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° | 403.0 | 47.8 |
| 90°-150° | 734.0 | 87.0 |
| 90°-180° | 843.0 | 99.9 |
| 0°-180° | 843.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 90° | 1 | 2 | 7 | 3 | 3 | |
| 95° | 8 | 33 | 109 | 56 | 38 | 10 |
| 105° | 30 | 46 | 184 | 280 | 261 | 32 |
| 115° | 53 | 65 | 148 | 295 | 336 | 53 |
| 125° | 74 | 83 | 134 | 227 | 268 | 66 |
| 135° | 88 | 97 | 130 | 183 | 208 | 68 |
| 145° | 103 | 109 | 128 | 156 | 168 | 64 |
| 155° | 116 | 119 | 128 | 141 | 145 | 53 |
| 165° | 125 | 127 | 128 | 134 | 135 | 35 |
| 175° | 130 | 130 | 129 | 131 | 131 | 12 |
| 180° | 130 | 130 | 130 | 130 | 130 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 90° | 0.8 | 2.5 | 6.7 | 3.3 | 3.3 |
| 92.5° | 3.5 | 16.9 | 37.4 | 16.5 | 10.7 |
| 95° | 8.3 | 32.8 | 109.3 | 56.3 | 38.4 |
| 97.5° | 14.5 | 36.0 | 163.5 | 130.0 | 95.8 |
| 100° | 19.2 | 38.8 | 180.2 | 182.6 | 141.8 |
| 102.5° | 23.2 | 41.5 | 184.8 | 227.4 | 192.5 |
| 105° | 30.0 | 45.5 | 184.3 | 279.8 | 261.1 |
| 107.5° | 37.0 | 51.4 | 173.8 | 307.1 | 311.6 |
| 110° | 41.7 | 54.8 | 165.2 | 314.1 | 333.7 |
| 112.5° | 46.4 | 58.8 | 157.2 | 309.6 | 339.7 |
| 115° | 53.4 | 64.8 | 147.6 | 294.6 | 336.2 |
| 117.5° | 60.2 | 70.7 | 141.1 | 273.6 | 319.8 |
| 120° | 64.2 | 74.0 | 138.5 | 259.6 | 304.5 |
| 122.5° | 68.2 | 78.0 | 136.5 | 245.6 | 289.8 |
| 125° | 74.2 | 83.2 | 134.3 | 227.0 | 267.8 |
| 127.5° | 79.1 | 88.2 | 132.5 | 212.0 | 246.4 |
| 130° | 81.7 | 91.5 | 131.8 | 202.6 | 234.4 |
| 132.5° | 84.4 | 94.2 | 131.1 | 194.5 | 223.0 |
| 135° | 88.4 | 97.4 | 130.1 | 183.2 | 207.7 |
| 137.5° | 92.6 | 101.4 | 130.0 | 174.8 | 194.9 |
| 140° | 95.9 | 104.1 | 129.3 | 168.1 | 186.8 |
| 142.5° | 98.6 | 106.1 | 129.3 | 163.4 | 179.5 |
| 145° | 102.6 | 109.1 | 128.5 | 156.3 | 168.5 |
| 147.5° | 106.6 | 113.0 | 128.5 | 150.4 | 160.5 |
| 150° | 109.3 | 115.0 | 128.5 | 147.0 | 155.1 |
| 152.5° | 111.9 | 116.3 | 128.5 | 144.3 | 150.5 |
| 155° | 115.9 | 119.2 | 128.5 | 141.1 | 145.1 |
| 157.5° | 118.9 | 122.0 | 128.5 | 138.2 | 141.1 |
| 160° | 120.9 | 123.4 | 128.5 | 136.8 | 138.5 |
| 162.5° | 123.0 | 124.7 | 128.5 | 135.5 | 137.1 |
| 165° | 125.1 | 126.8 | 128.5 | 133.5 | 135.1 |
| 167.5° | 127.1 | 127.9 | 129.3 | 132.6 | 133.3 |
| 170° | 128.5 | 129.3 | 129.3 | 132.6 | 132.6 |
| 172.5° | 129.1 | 129.3 | 129.3 | 131.9 | 131.3 |
| 175° | 130.1 | 130.1 | 129.3 | 131.0 | 131.0 |
| 177.5° | 130.1 | 130.1 | 129.5 | 130.8 | 130.1 |
| 180° | 130.1 | 130.1 | 130.1 | 130.1 | 130.1 |

(END OF REPORT)