

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: P563165

Luminaire Tested: **SQ4-PC3-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563165
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

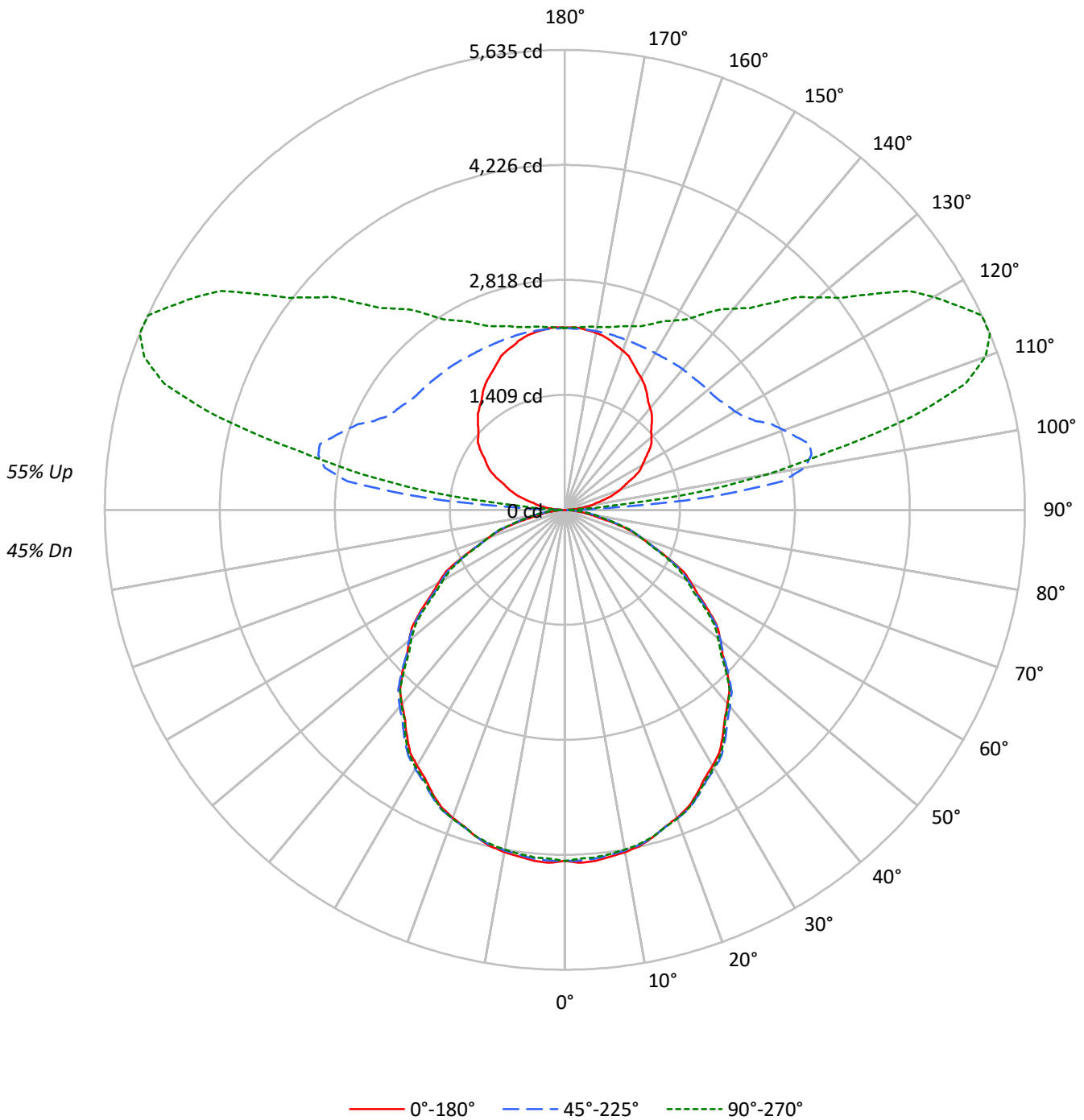
Lumens per Lamp: N/A
Luminaire Lumens: 26126.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 256.3
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





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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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 65 | 65 | 65 | 51 | 51 | 51 | 45 |
| 1 | 97 | 92 | 89 | 85 | 88 | 85 | 82 | 79 | 71 | 68 | 66 | 58 | 56 | 55 | 46 | 45 | 44 | 38 |
| 2 | 88 | 81 | 75 | 70 | 80 | 74 | 69 | 65 | 62 | 58 | 55 | 51 | 48 | 46 | 40 | 38 | 37 | 32 |
| 3 | 80 | 71 | 64 | 58 | 73 | 65 | 59 | 54 | 55 | 50 | 46 | 45 | 41 | 38 | 36 | 33 | 31 | 27 |
| 4 | 73 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 32 | 29 | 27 | 23 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 28 | 29 | 26 | 23 | 20 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 33 | 29 | 32 | 28 | 25 | 26 | 23 | 20 | 18 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 24 | 20 | 18 | 15 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9 | 49 | 37 | 30 | 25 | 45 | 35 | 28 | 23 | 29 | 24 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 12 |
| 10 | 46 | 34 | 27 | 22 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13230 | 13230 | 13230 |
| 5° | 13330 | 13244 | 13195 |
| 10° | 13298 | 13236 | 13198 |
| 15° | 13228 | 13228 | 13215 |
| 20° | 13141 | 13180 | 13180 |
| 25° | 13017 | 13111 | 13071 |
| 30° | 12858 | 13014 | 12957 |
| 35° | 12667 | 12861 | 12772 |
| 40° | 12457 | 12633 | 12506 |
| 45° | 12231 | 12318 | 12127 |
| 50° | 11911 | 11911 | 11721 |
| 55° | 11533 | 11384 | 11213 |
| 60° | 10976 | 10756 | 10584 |
| 65° | 10146 | 9943 | 9855 |
| 70° | 8883 | 8954 | 8919 |
| 75° | 7147 | 7904 | 7952 |
| 80° | 5079 | 6702 | 6773 |
| 85° | 3091 | 5621 | 5621 |



TEST NUMBER: P563165

CATALOG NUMBER: SQ4-PC3-150U-125D-930-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 407.1 | 1.6 |
| 10°-20° | 1168.4 | 4.5 |
| 20°-30° | 1769.3 | 6.8 |
| 30°-40° | 2121.2 | 8.1 |
| 40°-50° | 2162.9 | 8.3 |
| 50°-60° | 1888.1 | 7.2 |
| 60°-70° | 1351.7 | 5.2 |
| 70°-80° | 696.2 | 2.7 |
| 80°-90° | 180.7 | 0.7 |
| 90°-100° | 1036.6 | 4.0 |
| 100°-110° | 2802.7 | 10.7 |
| 110°-120° | 2946.7 | 11.3 |
| 120°-130° | 2393.5 | 9.2 |
| 130°-140° | 1877.5 | 7.2 |
| 140°-150° | 1441.0 | 5.5 |
| 150°-160° | 1036.3 | 4.0 |
| 160°-170° | 633.1 | 2.4 |
| 170°-180° | 213.4 | 0.8 |
| 0°-30° | 3344.9 | 12.8 |
| 0°-40° | 5466.1 | 20.9 |
| 0°-60° | 9517.0 | 36.4 |
| 0°-90° | 11745.6 | 45.0 |
| 90°-120° | 6786.0 | 26.0 |
| 90°-150° | 12497.9 | 47.8 |
| 90°-180° | 14381.0 | 55.0 |
| 0°-180° | 26126.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 4302 | 4302 | 4302 | 4302 | 4302 | |
| 5° | 4318 | 4275 | 4290 | 4278 | 4274 | 410 |
| 15° | 4155 | 4120 | 4155 | 4154 | 4151 | 1171 |
| 25° | 3836 | 3809 | 3864 | 3852 | 3852 | 1765 |
| 35° | 3374 | 3366 | 3426 | 3402 | 3402 | 2110 |
| 45° | 2812 | 2804 | 2832 | 2796 | 2788 | 2165 |
| 55° | 2151 | 2124 | 2123 | 2091 | 2091 | 1917 |
| 65° | 1394 | 1363 | 1366 | 1354 | 1354 | 1379 |
| 75° | 602 | 629 | 665 | 669 | 669 | 650 |
| 85° | 88 | 134 | 159 | 163 | 159 | 119 |
| 90° | 5 | 14 | 31 | 34 | 31 | 14 |
| 95° | 161 | 565 | 1724 | 892 | 531 | 168 |
| 105° | 521 | 805 | 3109 | 4586 | 4398 | 549 |
| 115° | 917 | 1121 | 2579 | 4992 | 5635 | 906 |
| 125° | 1256 | 1439 | 2324 | 3922 | 4607 | 1119 |
| 135° | 1505 | 1684 | 2262 | 3167 | 3585 | 1163 |
| 145° | 1750 | 1882 | 2230 | 2711 | 2917 | 1095 |
| 155° | 1976 | 2054 | 2211 | 2432 | 2511 | 911 |
| 165° | 2151 | 2172 | 2221 | 2308 | 2319 | 606 |
| 175° | 2233 | 2230 | 2223 | 2252 | 2247 | 212 |
| 180° | 2230 | 2230 | 2230 | 2230 | 2230 | |

TEST NUMBER: P563165

CATALOG NUMBER: SQ4-PC3-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 4302.0 | 4302.0 | 4302.0 | 4302.0 | 4302.0 |
| 2.5° | 4327.5 | 4290.1 | 4302.0 | 4292.1 | 4276.5 |
| 5° | 4317.9 | 4275.1 | 4290.1 | 4278.0 | 4274.1 |
| 7.5° | 4286.9 | 4244.0 | 4263.8 | 4255.7 | 4251.8 |
| 10° | 4258.2 | 4215.3 | 4238.3 | 4230.2 | 4226.3 |
| 12.5° | 4219.9 | 4180.2 | 4206.4 | 4198.4 | 4197.6 |
| 15° | 4154.6 | 4119.6 | 4154.6 | 4154.5 | 4150.6 |
| 17.5° | 4072.6 | 4040.6 | 4078.1 | 4080.5 | 4078.1 |
| 20° | 4015.2 | 3980.2 | 4027.2 | 4023.3 | 4027.2 |
| 22.5° | 3945.1 | 3916.3 | 3966.6 | 3956.3 | 3960.2 |
| 25° | 3836.0 | 3808.7 | 3863.8 | 3851.9 | 3851.9 |
| 27.5° | 3706.9 | 3687.4 | 3747.5 | 3734.8 | 3734.8 |
| 30° | 3620.9 | 3601.4 | 3664.7 | 3648.7 | 3648.7 |
| 32.5° | 3525.3 | 3512.0 | 3572.3 | 3553.1 | 3553.1 |
| 35° | 3373.9 | 3366.1 | 3425.7 | 3401.8 | 3401.8 |
| 37.5° | 3217.7 | 3210.7 | 3264.7 | 3235.9 | 3226.5 |
| 40° | 3103.0 | 3099.1 | 3146.8 | 3115.0 | 3115.0 |
| 42.5° | 2988.3 | 2984.4 | 3025.7 | 2987.5 | 2987.5 |
| 45° | 2812.2 | 2804.4 | 2832.2 | 2796.1 | 2788.3 |
| 47.5° | 2620.2 | 2612.5 | 2629.8 | 2590.7 | 2586.8 |
| 50° | 2489.6 | 2481.8 | 2489.6 | 2453.6 | 2449.8 |
| 52.5° | 2355.7 | 2341.7 | 2343.0 | 2307.1 | 2306.4 |
| 55° | 2151.0 | 2123.7 | 2123.1 | 2091.3 | 2091.3 |
| 57.5° | 1934.3 | 1898.5 | 1901.6 | 1874.5 | 1870.6 |
| 60° | 1784.5 | 1745.6 | 1748.7 | 1724.7 | 1720.8 |
| 62.5° | 1637.9 | 1592.8 | 1602.1 | 1575.0 | 1574.2 |
| 65° | 1394.2 | 1363.0 | 1366.3 | 1354.3 | 1354.3 |
| 67.5° | 1159.9 | 1131.1 | 1152.0 | 1142.4 | 1141.6 |
| 70° | 987.9 | 968.4 | 995.8 | 995.7 | 991.9 |
| 72.5° | 828.5 | 827.8 | 862.0 | 862.0 | 864.4 |
| 75° | 601.5 | 628.7 | 665.2 | 669.2 | 669.2 |
| 77.5° | 401.5 | 449.8 | 490.0 | 491.5 | 490.7 |
| 80° | 286.8 | 341.3 | 378.4 | 386.3 | 382.4 |
| 82.5° | 194.4 | 252.0 | 282.8 | 290.7 | 286.8 |
| 85° | 87.6 | 134.4 | 159.3 | 163.2 | 159.3 |
| 87.5° | 26.5 | 56.4 | 70.0 | 70.3 | 63.6 |
| 90° | 4.8 | 14.2 | 31.2 | 33.6 | 31.2 |
| 92.5° | 68.2 | 248.5 | 490.3 | 212.8 | 154.1 |
| 95° | 160.9 | 564.7 | 1723.9 | 892.1 | 530.6 |
| 97.5° | 258.3 | 647.6 | 2687.1 | 2223.8 | 1633.1 |
| 100° | 331.3 | 681.1 | 2986.8 | 3114.9 | 2518.6 |
| 102.5° | 398.6 | 727.7 | 3092.4 | 3790.6 | 3344.5 |
| 105° | 521.0 | 805.1 | 3109.2 | 4586.4 | 4398.5 |
| 107.5° | 634.3 | 893.5 | 2973.3 | 5082.8 | 5145.2 |
| 110° | 722.7 | 957.4 | 2852.3 | 5216.1 | 5481.4 |



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CATALOG NUMBER: SQ4-PC3-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 801.4 | 1021.2 | 2740.9 | 5189.5 | 5635.0 |
| 115° | 917.2 | 1121.4 | 2578.6 | 4991.8 | 5635.0 |
| 117.5° | 1030.5 | 1222.1 | 2471.5 | 4689.8 | 5419.0 |
| 120° | 1099.6 | 1287.4 | 2408.2 | 4473.1 | 5217.3 |
| 122.5° | 1164.9 | 1349.0 | 2369.7 | 4240.8 | 4990.6 |
| 125° | 1255.7 | 1438.8 | 2324.1 | 3921.9 | 4607.4 |
| 127.5° | 1339.3 | 1519.1 | 2297.2 | 3661.7 | 4264.6 |
| 130° | 1385.4 | 1570.8 | 2285.7 | 3501.0 | 4045.6 |
| 132.5° | 1433.4 | 1617.0 | 2274.2 | 3355.9 | 3857.4 |
| 135° | 1505.4 | 1683.8 | 2261.7 | 3166.8 | 3584.6 |
| 137.5° | 1577.9 | 1746.5 | 2251.1 | 3013.2 | 3353.7 |
| 140° | 1627.8 | 1785.1 | 2247.3 | 2914.4 | 3217.3 |
| 142.5° | 1675.9 | 1823.8 | 2239.6 | 2825.2 | 3090.5 |
| 145° | 1750.3 | 1881.8 | 2230.5 | 2710.6 | 2917.2 |
| 147.5° | 1818.0 | 1934.4 | 2219.9 | 2606.7 | 2765.4 |
| 150° | 1867.9 | 1971.2 | 2216.1 | 2550.3 | 2677.1 |
| 152.5° | 1914.0 | 2004.2 | 2214.2 | 2497.9 | 2602.2 |
| 155° | 1976.0 | 2053.5 | 2211.3 | 2431.6 | 2511.4 |
| 157.5° | 2040.3 | 2094.3 | 2211.8 | 2385.3 | 2437.9 |
| 160° | 2076.8 | 2121.4 | 2213.7 | 2356.2 | 2393.8 |
| 162.5° | 2105.6 | 2142.7 | 2215.6 | 2332.9 | 2361.1 |
| 165° | 2151.3 | 2172.4 | 2220.9 | 2307.6 | 2319.3 |
| 167.5° | 2182.5 | 2197.0 | 2221.4 | 2285.8 | 2291.5 |
| 170° | 2201.7 | 2208.7 | 2223.3 | 2276.1 | 2276.1 |
| 172.5° | 2217.0 | 2218.4 | 2223.3 | 2264.5 | 2262.7 |
| 175° | 2232.9 | 2230.5 | 2223.3 | 2252.0 | 2247.3 |
| 177.5° | 2238.2 | 2232.5 | 2222.8 | 2241.9 | 2236.2 |
| 180° | 2230.5 | 2230.5 | 2230.5 | 2230.5 | 2230.5 |

(END OF REPORT)