

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: P562845

Luminaire Tested: **SQ4-PC3-0U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562845
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

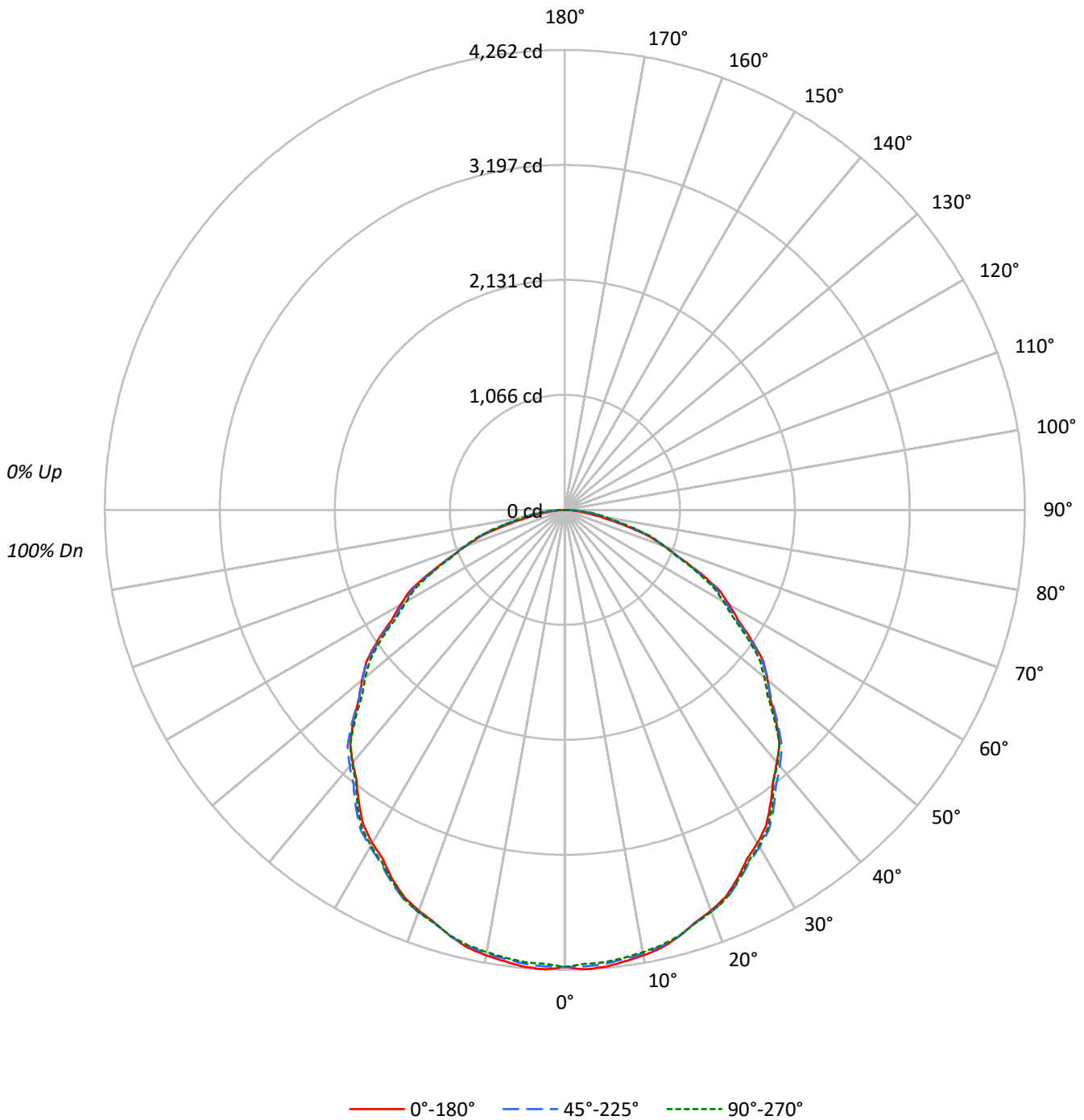
Lumens per Lamp: N/A
Luminaire Lumens: 11561.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 108.2
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



TEST NUMBER: P562845
CATALOG NUMBER: SQ4-PC3-0U-100D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P562845

CATALOG NUMBER: SQ4-PC3-0U-100D-835-1D-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 | 109 | 105 | 100 | 97 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 88 | 87 | 85 |
| 2 | 99 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 78 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 70 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 44 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 54 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13029 | 13029 | 13029 |
| 5° | 13127 | 13042 | 12993 |
| 10° | 13095 | 13034 | 12997 |
| 15° | 13026 | 13026 | 13014 |
| 20° | 12941 | 12979 | 12979 |
| 25° | 12818 | 12911 | 12871 |
| 30° | 12662 | 12815 | 12760 |
| 35° | 12474 | 12665 | 12577 |
| 40° | 12268 | 12441 | 12315 |
| 45° | 12044 | 12130 | 11942 |
| 50° | 11730 | 11730 | 11542 |
| 55° | 11357 | 11210 | 11042 |
| 60° | 10809 | 10592 | 10423 |
| 65° | 9991 | 9791 | 9705 |
| 70° | 8747 | 8817 | 8782 |
| 75° | 7038 | 7784 | 7831 |
| 80° | 5001 | 6599 | 6670 |
| 85° | 3045 | 5536 | 5536 |



TEST NUMBER: P562845

CATALOG NUMBER: SQ4-PC3-0U-100D-835-1D-UNV-STD-W-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 400.9 | 3.5 |
| 10°-20° | 1150.5 | 10.0 |
| 20°-30° | 1742.4 | 15.1 |
| 30°-40° | 2088.9 | 18.1 |
| 40°-50° | 2129.9 | 18.4 |
| 50°-60° | 1859.3 | 16.1 |
| 60°-70° | 1331.1 | 11.5 |
| 70°-80° | 685.6 | 5.9 |
| 80°-90° | 173.4 | 1.5 |
| 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° | 3293.8 | 28.5 |
| 0°-40° | 5382.7 | 46.6 |
| 0°-60° | 9371.9 | 81.1 |
| 0°-90° | 11561.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11561.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4236 | 4236 | 4236 | 4236 | 4236 | |
| 5° | 4252 | 4210 | 4225 | 4213 | 4209 | 404 |
| 15° | 4091 | 4057 | 4091 | 4091 | 4087 | 1154 |
| 25° | 3777 | 3751 | 3805 | 3793 | 3793 | 1738 |
| 35° | 3322 | 3315 | 3373 | 3350 | 3350 | 2078 |
| 45° | 2769 | 2762 | 2789 | 2754 | 2746 | 2132 |
| 55° | 2118 | 2091 | 2091 | 2059 | 2059 | 1888 |
| 65° | 1373 | 1342 | 1345 | 1334 | 1334 | 1358 |
| 75° | 592 | 619 | 655 | 659 | 659 | 640 |
| 85° | 86 | 132 | 157 | 161 | 157 | 121 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P562845

CATALOG NUMBER: SQ4-PC3-OU-100D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4236.4 | 4236.4 | 4236.4 | 4236.4 | 4236.4 |
| 2.5° | 4261.5 | 4224.7 | 4236.4 | 4226.6 | 4211.3 |
| 5° | 4252.1 | 4209.9 | 4224.6 | 4212.8 | 4208.9 |
| 7.5° | 4221.5 | 4179.3 | 4198.7 | 4190.8 | 4187.0 |
| 10° | 4193.2 | 4151.0 | 4173.6 | 4165.7 | 4161.9 |
| 12.5° | 4155.6 | 4116.5 | 4142.2 | 4134.4 | 4133.6 |
| 15° | 4091.2 | 4056.7 | 4091.2 | 4091.2 | 4087.3 |
| 17.5° | 4010.4 | 3979.0 | 4015.9 | 4018.2 | 4015.9 |
| 20° | 3954.0 | 3919.4 | 3965.7 | 3961.9 | 3965.7 |
| 22.5° | 3884.9 | 3856.5 | 3906.1 | 3896.0 | 3899.8 |
| 25° | 3777.4 | 3750.6 | 3804.9 | 3793.1 | 3793.1 |
| 27.5° | 3650.4 | 3631.2 | 3690.4 | 3677.8 | 3677.8 |
| 30° | 3565.6 | 3546.4 | 3608.8 | 3593.1 | 3593.1 |
| 32.5° | 3471.5 | 3458.4 | 3517.8 | 3498.9 | 3498.9 |
| 35° | 3322.4 | 3314.8 | 3373.4 | 3349.9 | 3349.9 |
| 37.5° | 3168.7 | 3161.8 | 3214.9 | 3186.5 | 3177.3 |
| 40° | 3055.7 | 3051.9 | 3098.8 | 3067.5 | 3067.5 |
| 42.5° | 2942.7 | 2938.9 | 2979.6 | 2941.9 | 2941.9 |
| 45° | 2769.3 | 2761.7 | 2789.0 | 2753.5 | 2745.8 |
| 47.5° | 2580.3 | 2572.6 | 2589.7 | 2551.2 | 2547.3 |
| 50° | 2451.6 | 2443.9 | 2451.6 | 2416.2 | 2412.4 |
| 52.5° | 2319.8 | 2306.0 | 2307.3 | 2271.9 | 2271.2 |
| 55° | 2118.2 | 2091.3 | 2090.7 | 2059.4 | 2059.4 |
| 57.5° | 1904.8 | 1869.5 | 1872.6 | 1845.9 | 1842.0 |
| 60° | 1757.3 | 1719.0 | 1722.0 | 1698.4 | 1694.6 |
| 62.5° | 1613.0 | 1568.5 | 1577.7 | 1551.0 | 1550.2 |
| 65° | 1372.9 | 1342.2 | 1345.4 | 1333.7 | 1333.7 |
| 67.5° | 1142.3 | 1113.9 | 1134.4 | 1125.0 | 1124.2 |
| 70° | 972.8 | 953.6 | 980.6 | 980.6 | 976.7 |
| 72.5° | 815.9 | 815.1 | 848.8 | 848.9 | 851.2 |
| 75° | 592.3 | 619.2 | 655.1 | 659.0 | 659.0 |
| 77.5° | 395.4 | 443.0 | 482.5 | 484.0 | 483.3 |
| 80° | 282.4 | 336.1 | 372.6 | 380.4 | 376.6 |
| 82.5° | 191.4 | 248.2 | 278.5 | 286.3 | 282.4 |
| 85° | 86.3 | 132.3 | 156.9 | 160.7 | 156.9 |
| 87.5° | 25.1 | 52.7 | 62.8 | 62.6 | 56.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)