

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P274247

Luminaire Tested: **R6-WL-30L840-LD5-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-915-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R6-WL-30L840-LD5-UNV-4-STD
Description: CORELITE R6 LINEAR PRISMATIC LENS LED LUMINAIRE
6" x 4'
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3034.8 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

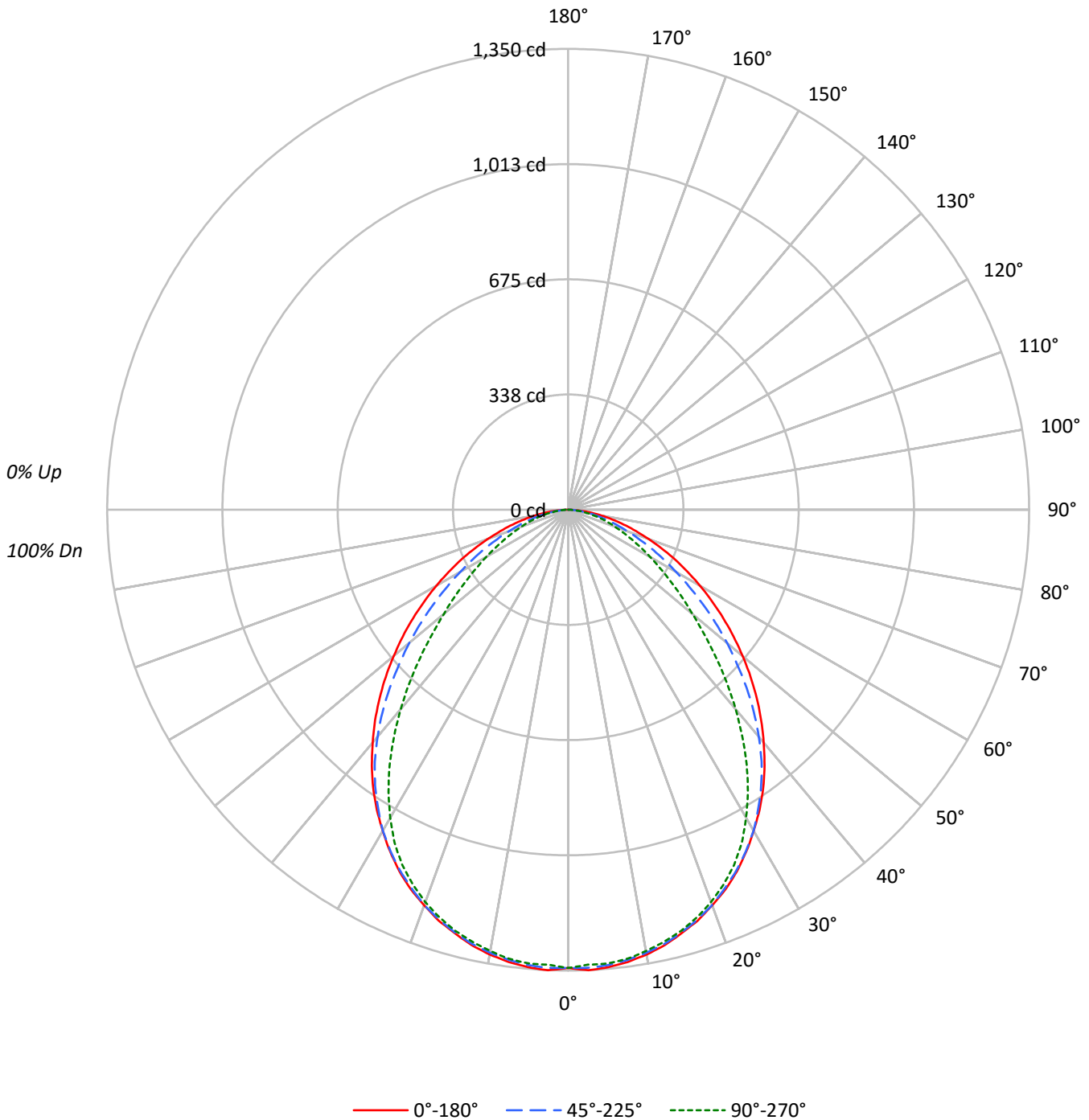
Input Watts (W): 24.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 94 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 66 | 64 |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 67 | 59 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 |
| 6 | 73 | 61 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 43 |
| 7 | 68 | 55 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 38 |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 46 | 41 | 36 | 35 |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 40 | 34 | 30 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8669 | 8669 | 8669 |
| 5° | 8722 | 8683 | 8650 |
| 10° | 8676 | 8643 | 8609 |
| 15° | 8586 | 8573 | 8539 |
| 20° | 8476 | 8469 | 8406 |
| 25° | 8331 | 8309 | 8186 |
| 30° | 8103 | 8095 | 7768 |
| 35° | 7851 | 7771 | 7184 |
| 40° | 7510 | 7321 | 6428 |
| 45° | 7131 | 6749 | 5595 |
| 50° | 6698 | 6104 | 4773 |
| 55° | 6244 | 5406 | 4120 |
| 60° | 5753 | 4713 | 3595 |
| 65° | 5265 | 4097 | 3114 |
| 70° | 4715 | 3484 | 2772 |
| 75° | 4197 | 2977 | 2440 |
| 80° | 3678 | 2466 | 2046 |
| 85° | 3097 | 1815 | 1512 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.9 | 4.2 |
| 10°-20° | 360.3 | 11.9 |
| 20°-30° | 532.5 | 17.5 |
| 30°-40° | 601.9 | 19.8 |
| 40°-50° | 551.7 | 18.2 |
| 50°-60° | 422.3 | 13.9 |
| 60°-70° | 271.6 | 8.9 |
| 70°-80° | 135.1 | 4.5 |
| 80°-90° | 32.6 | 1.1 |
| 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° | 1019.7 | 33.6 |
| 0°-40° | 1621.6 | 53.4 |
| 0°-60° | 2595.6 | 85.5 |
| 0°-90° | 3034.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3034.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1342 | 1342 | 1342 | 1342 | 1342 | |
| 5° | 1345 | 1332 | 1339 | 1334 | 1334 | 128 |
| 15° | 1284 | 1273 | 1282 | 1277 | 1277 | 362 |
| 25° | 1169 | 1158 | 1166 | 1151 | 1149 | 537 |
| 35° | 996 | 989 | 986 | 935 | 911 | 621 |
| 45° | 781 | 776 | 739 | 650 | 613 | 602 |
| 55° | 554 | 547 | 480 | 396 | 366 | 496 |
| 65° | 344 | 327 | 268 | 218 | 204 | 342 |
| 75° | 168 | 150 | 119 | 102 | 98 | 180 |
| 85° | 42 | 31 | 24 | 21 | 20 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1342.3 | 1342.3 | 1342.3 | 1342.3 | 1342.3 |
| 2.5° | 1350.5 | 1336.2 | 1343.3 | 1340.3 | 1334.2 |
| 5° | 1345.4 | 1332.1 | 1339.3 | 1334.2 | 1334.2 |
| 7.5° | 1336.2 | 1323.0 | 1330.1 | 1326.0 | 1327.0 |
| 10° | 1323.0 | 1310.7 | 1317.9 | 1312.8 | 1312.8 |
| 12.5° | 1306.7 | 1293.4 | 1302.6 | 1296.5 | 1296.5 |
| 15° | 1284.2 | 1273.0 | 1282.2 | 1277.1 | 1277.1 |
| 17.5° | 1261.8 | 1249.6 | 1258.8 | 1252.6 | 1252.6 |
| 20° | 1233.3 | 1223.1 | 1232.3 | 1223.1 | 1223.1 |
| 22.5° | 1203.7 | 1192.5 | 1199.6 | 1189.4 | 1188.4 |
| 25° | 1169.1 | 1157.8 | 1166.0 | 1150.7 | 1148.7 |
| 27.5° | 1129.3 | 1121.2 | 1127.3 | 1107.9 | 1100.8 |
| 30° | 1086.5 | 1079.4 | 1085.5 | 1058.0 | 1041.7 |
| 32.5° | 1042.7 | 1035.5 | 1036.6 | 997.8 | 979.5 |
| 35° | 995.8 | 988.7 | 985.6 | 934.6 | 911.2 |
| 37.5° | 944.8 | 938.7 | 930.6 | 866.3 | 837.8 |
| 40° | 890.8 | 885.7 | 868.4 | 796.0 | 762.4 |
| 42.5° | 836.8 | 830.7 | 805.2 | 723.7 | 688.0 |
| 45° | 780.7 | 775.6 | 738.9 | 650.3 | 612.6 |
| 47.5° | 724.7 | 720.6 | 671.7 | 581.0 | 540.2 |
| 50° | 666.6 | 663.5 | 607.5 | 510.6 | 475.0 |
| 52.5° | 610.5 | 604.4 | 543.3 | 451.5 | 419.9 |
| 55° | 554.5 | 547.3 | 480.1 | 395.5 | 365.9 |
| 57.5° | 499.4 | 488.2 | 419.9 | 345.5 | 319.0 |
| 60° | 445.4 | 432.2 | 364.9 | 299.7 | 278.3 |
| 62.5° | 394.4 | 380.2 | 314.9 | 258.9 | 238.5 |
| 65° | 344.5 | 327.2 | 268.1 | 218.1 | 203.8 |
| 67.5° | 296.6 | 278.3 | 224.2 | 185.5 | 173.3 |
| 70° | 249.7 | 231.4 | 184.5 | 154.9 | 146.8 |
| 72.5° | 207.9 | 189.6 | 150.8 | 127.4 | 121.3 |
| 75° | 168.2 | 149.8 | 119.3 | 101.9 | 97.8 |
| 77.5° | 131.5 | 114.2 | 91.7 | 78.5 | 75.4 |
| 80° | 98.9 | 82.6 | 66.3 | 57.1 | 55.0 |
| 82.5° | 69.3 | 54.0 | 43.8 | 37.7 | 36.7 |
| 85° | 41.8 | 30.6 | 24.5 | 21.4 | 20.4 |
| 87.5° | 18.3 | 11.2 | 9.2 | 8.2 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)