

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: P220095

Luminaire Tested: **R3-WD-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-6L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4035.1 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

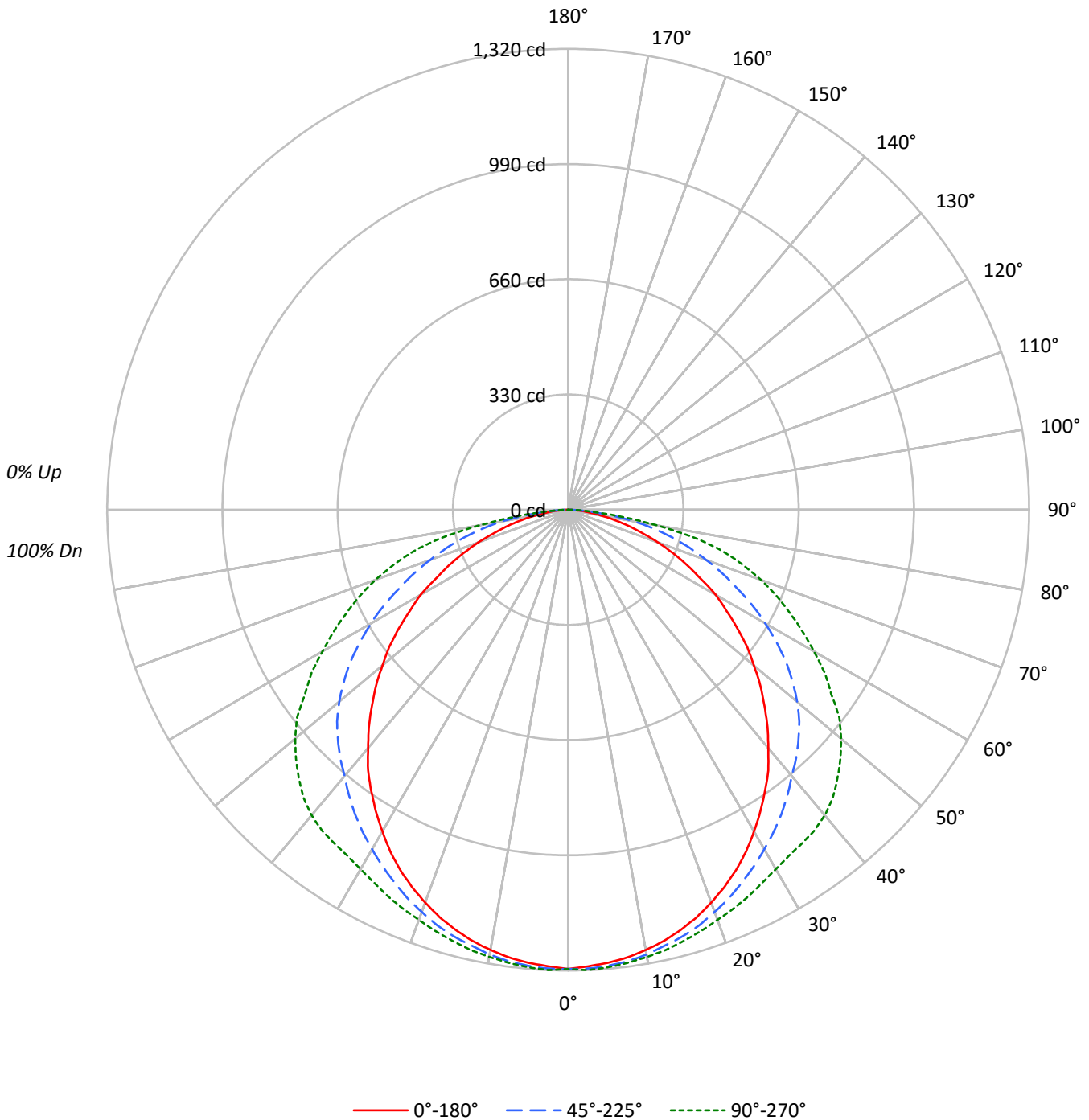
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | | 93 | 90 | 88 | | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 82 | 76 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | | 81 | 76 | 72 | | 78 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 62 | 74 | 67 | 61 | | 71 | 65 | 60 | | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | | 63 | 56 | 51 | | 61 | 55 | 50 | 48 |
| 5 | 75 | 61 | 52 | 45 | 73 | 60 | 52 | 45 | 58 | 50 | 45 | | 56 | 49 | 44 | | 54 | 48 | 44 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | | 51 | 44 | 39 | | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | | 46 | 39 | 34 | | 45 | 38 | 34 | 32 |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 31 | 43 | 36 | 31 | | 42 | 35 | 30 | | 41 | 35 | 30 | 28 |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 27 | | 39 | 32 | 27 | | 38 | 32 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | | 36 | 29 | 25 | | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3541 | 3541 | 3541 |
| 5° | 3519 | 3542 | 3554 |
| 10° | 3500 | 3535 | 3553 |
| 15° | 3470 | 3525 | 3562 |
| 20° | 3429 | 3511 | 3580 |
| 25° | 3380 | 3497 | 3627 |
| 30° | 3306 | 3490 | 3694 |
| 35° | 3229 | 3495 | 3833 |
| 40° | 3130 | 3499 | 4014 |
| 45° | 3024 | 3549 | 4149 |
| 50° | 2905 | 3584 | 4271 |
| 55° | 2773 | 3575 | 4314 |
| 60° | 2627 | 3511 | 4371 |
| 65° | 2397 | 3401 | 4461 |
| 70° | 2153 | 3307 | 4616 |
| 75° | 1843 | 3210 | 4758 |
| 80° | 1492 | 2986 | 3969 |
| 85° | 1081 | 1893 | 2297 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.5 | 3.1 |
| 10°-20° | 356.8 | 8.8 |
| 20°-30° | 543.8 | 13.5 |
| 30°-40° | 669.8 | 16.6 |
| 40°-50° | 723.8 | 17.9 |
| 50°-60° | 677.3 | 16.8 |
| 60°-70° | 532.5 | 13.2 |
| 70°-80° | 328.3 | 8.1 |
| 80°-90° | 78.4 | 1.9 |
| 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° | 1025.1 | 25.4 |
| 0°-40° | 1694.9 | 42.0 |
| 0°-60° | 3095.9 | 76.7 |
| 0°-90° | 4035.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4035.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1316 | 1316 | 1316 | 1316 | 1316 | |
| 5° | 1303 | 1307 | 1311 | 1314 | 1316 | 124 |
| 15° | 1246 | 1252 | 1265 | 1276 | 1278 | 351 |
| 25° | 1138 | 1149 | 1178 | 1211 | 1222 | 524 |
| 35° | 983 | 1003 | 1064 | 1134 | 1167 | 615 |
| 45° | 795 | 832 | 933 | 1049 | 1090 | 613 |
| 55° | 591 | 644 | 762 | 878 | 920 | 529 |
| 65° | 376 | 427 | 534 | 648 | 701 | 373 |
| 75° | 177 | 223 | 309 | 409 | 458 | 190 |
| 85° | 35 | 48 | 61 | 77 | 74 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1315.7 | 1315.7 | 1315.7 | 1315.7 | 1315.7 |
| 2.5° | 1309.2 | 1311.4 | 1315.7 | 1317.9 | 1320.1 |
| 5° | 1302.6 | 1307.0 | 1311.4 | 1313.5 | 1315.7 |
| 7.5° | 1293.8 | 1298.2 | 1304.8 | 1309.2 | 1309.2 |
| 10° | 1280.7 | 1285.1 | 1293.8 | 1300.4 | 1300.4 |
| 12.5° | 1265.4 | 1269.8 | 1278.5 | 1289.5 | 1291.7 |
| 15° | 1245.7 | 1252.2 | 1265.4 | 1276.3 | 1278.5 |
| 17.5° | 1223.8 | 1230.4 | 1247.9 | 1261.0 | 1265.4 |
| 20° | 1197.5 | 1206.3 | 1226.0 | 1245.7 | 1250.1 |
| 22.5° | 1169.1 | 1180.0 | 1204.1 | 1228.2 | 1236.9 |
| 25° | 1138.4 | 1149.4 | 1177.8 | 1210.6 | 1221.6 |
| 27.5° | 1103.4 | 1114.3 | 1151.5 | 1190.9 | 1204.1 |
| 30° | 1064.0 | 1081.5 | 1123.1 | 1169.1 | 1188.8 |
| 32.5° | 1024.6 | 1042.1 | 1094.6 | 1151.5 | 1175.6 |
| 35° | 983.0 | 1002.7 | 1064.0 | 1134.0 | 1166.9 |
| 37.5° | 941.4 | 963.3 | 1031.1 | 1118.7 | 1158.1 |
| 40° | 891.0 | 919.5 | 996.1 | 1103.4 | 1142.8 |
| 42.5° | 845.0 | 875.7 | 965.5 | 1079.3 | 1120.9 |
| 45° | 794.7 | 831.9 | 932.6 | 1048.6 | 1090.2 |
| 47.5° | 746.5 | 783.7 | 897.6 | 1013.6 | 1057.4 |
| 50° | 694.0 | 737.8 | 856.0 | 974.2 | 1020.2 |
| 52.5° | 645.8 | 689.6 | 810.0 | 928.2 | 978.6 |
| 55° | 591.1 | 643.6 | 761.9 | 877.9 | 919.5 |
| 57.5° | 536.4 | 584.5 | 707.1 | 823.2 | 871.3 |
| 60° | 488.2 | 532.0 | 652.4 | 766.2 | 812.2 |
| 62.5° | 426.9 | 479.4 | 595.5 | 707.1 | 757.5 |
| 65° | 376.5 | 426.9 | 534.2 | 648.0 | 700.6 |
| 67.5° | 324.0 | 376.5 | 479.4 | 591.1 | 645.8 |
| 70° | 273.7 | 321.8 | 420.3 | 532.0 | 586.7 |
| 72.5° | 221.1 | 269.3 | 365.6 | 472.9 | 523.2 |
| 75° | 177.3 | 223.3 | 308.7 | 409.4 | 457.6 |
| 77.5° | 135.7 | 175.1 | 251.8 | 339.3 | 370.0 |
| 80° | 96.3 | 129.2 | 192.7 | 240.8 | 256.1 |
| 82.5° | 61.3 | 87.6 | 120.4 | 148.9 | 148.9 |
| 85° | 35.0 | 48.2 | 61.3 | 76.6 | 74.4 |
| 87.5° | 15.3 | 17.5 | 19.7 | 24.1 | 24.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)