

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: P302177

Luminaire Tested: **RX-WO-34L840-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-34L840-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (196)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

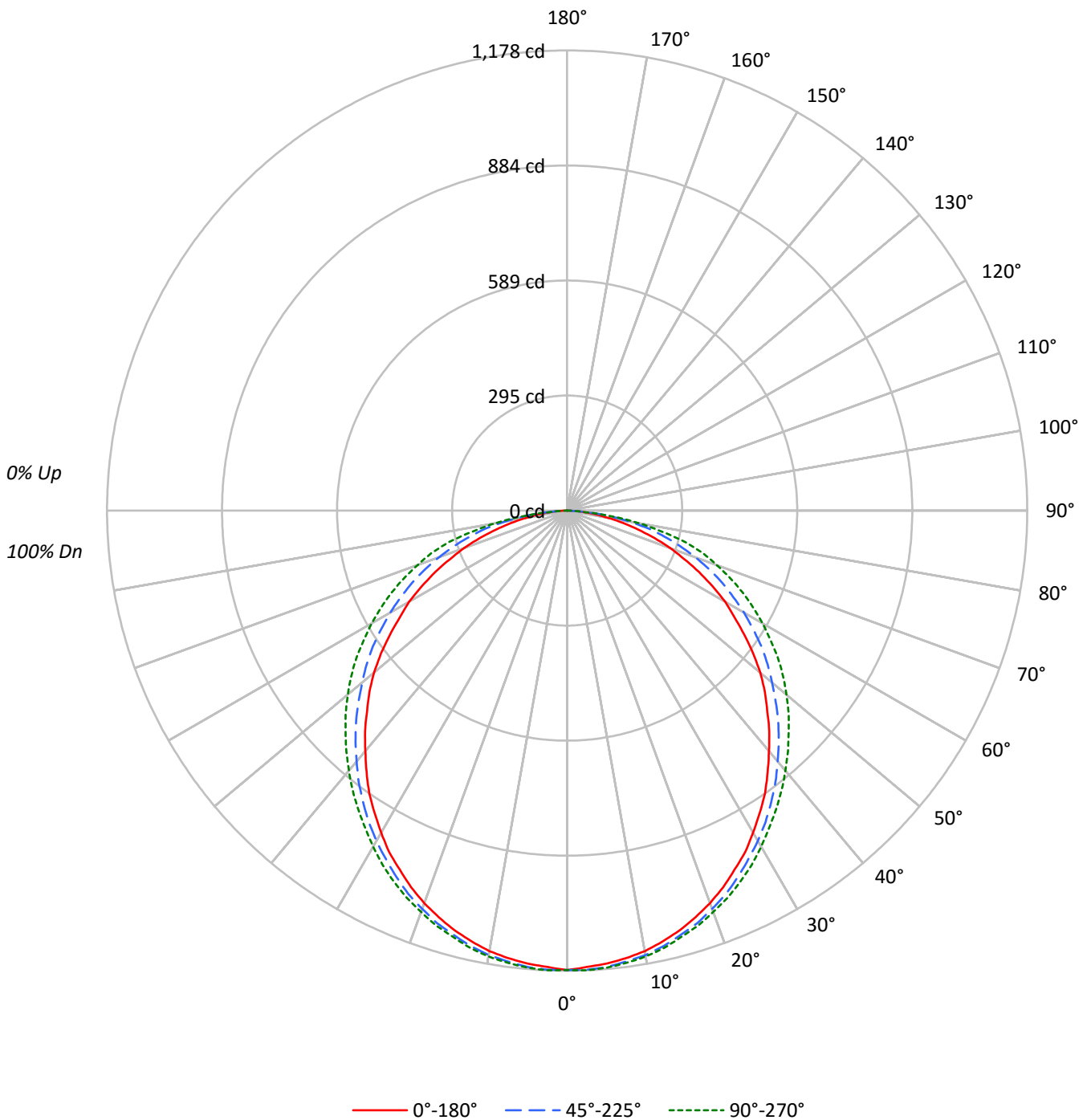
Lumens per Lamp: N/A
Luminaire Lumens: 3367.6 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
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 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3165 | 3165 | 3165 |
| 5° | 3145 | 3168 | 3173 |
| 10° | 3129 | 3158 | 3167 |
| 15° | 3099 | 3133 | 3147 |
| 20° | 3062 | 3107 | 3131 |
| 25° | 3011 | 3072 | 3113 |
| 30° | 2958 | 3033 | 3087 |
| 35° | 2901 | 2992 | 3065 |
| 40° | 2823 | 2944 | 3054 |
| 45° | 2757 | 2908 | 3052 |
| 50° | 2700 | 2866 | 3069 |
| 55° | 2597 | 2848 | 3091 |
| 60° | 2516 | 2813 | 3110 |
| 65° | 2372 | 2790 | 3152 |
| 70° | 2212 | 2741 | 3202 |
| 75° | 1955 | 2690 | 3264 |
| 80° | 1630 | 2512 | 2913 |
| 85° | 1226 | 1704 | 1544 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.2 | 3.3 |
| 10°-20° | 316.9 | 9.4 |
| 20°-30° | 476.1 | 14.1 |
| 30°-40° | 568.9 | 16.9 |
| 40°-50° | 589.9 | 17.5 |
| 50°-60° | 541.8 | 16.1 |
| 60°-70° | 430.3 | 12.8 |
| 70°-80° | 267.1 | 7.9 |
| 80°-90° | 65.3 | 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° | 904.2 | 26.9 |
| 0°-40° | 1473.2 | 43.7 |
| 0°-60° | 2604.9 | 77.4 |
| 0°-90° | 3367.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3367.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1176 | 1176 | 1176 | 1176 | 1176 | |
| 5° | 1164 | 1168 | 1173 | 1174 | 1174 | 111 |
| 15° | 1112 | 1116 | 1124 | 1130 | 1130 | 314 |
| 25° | 1014 | 1021 | 1035 | 1047 | 1049 | 468 |
| 35° | 883 | 892 | 911 | 928 | 933 | 551 |
| 45° | 724 | 735 | 764 | 793 | 802 | 560 |
| 55° | 554 | 567 | 607 | 645 | 659 | 496 |
| 65° | 372 | 390 | 438 | 480 | 495 | 369 |
| 75° | 188 | 212 | 259 | 298 | 314 | 201 |
| 85° | 40 | 48 | 55 | 54 | 50 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: RX-WO-34L840-UNV-22-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1176.3 |
| 2.5° | 1169.4 | 1171.1 | 1176.3 | 1179.7 | 1178.0 |
| 5° | 1164.2 | 1167.6 | 1172.8 | 1174.5 | 1174.5 |
| 7.5° | 1155.6 | 1159.0 | 1164.2 | 1167.6 | 1167.6 |
| 10° | 1145.2 | 1148.7 | 1155.6 | 1159.0 | 1159.0 |
| 12.5° | 1129.7 | 1133.1 | 1141.8 | 1145.2 | 1146.9 |
| 15° | 1112.5 | 1115.9 | 1124.5 | 1129.7 | 1129.7 |
| 17.5° | 1091.8 | 1096.9 | 1107.3 | 1112.5 | 1114.2 |
| 20° | 1069.3 | 1074.5 | 1084.9 | 1091.8 | 1093.5 |
| 22.5° | 1043.5 | 1048.6 | 1062.4 | 1071.1 | 1072.8 |
| 25° | 1014.1 | 1021.0 | 1034.8 | 1046.9 | 1048.6 |
| 27.5° | 986.5 | 991.7 | 1005.5 | 1017.6 | 1022.8 |
| 30° | 952.1 | 960.7 | 976.2 | 990.0 | 993.4 |
| 32.5° | 917.6 | 927.9 | 945.2 | 960.7 | 962.4 |
| 35° | 883.1 | 891.7 | 910.7 | 927.9 | 933.1 |
| 37.5° | 843.4 | 852.0 | 876.2 | 895.1 | 902.0 |
| 40° | 803.7 | 815.8 | 838.2 | 860.6 | 869.3 |
| 42.5° | 765.8 | 777.9 | 802.0 | 827.9 | 836.5 |
| 45° | 724.4 | 734.7 | 764.1 | 793.4 | 802.0 |
| 47.5° | 686.4 | 695.1 | 724.4 | 758.9 | 769.2 |
| 50° | 645.0 | 651.9 | 684.7 | 722.7 | 733.0 |
| 52.5° | 600.2 | 610.6 | 646.8 | 684.7 | 696.8 |
| 55° | 553.6 | 567.4 | 607.1 | 645.0 | 658.8 |
| 57.5° | 507.1 | 522.6 | 564.0 | 605.4 | 617.5 |
| 60° | 467.4 | 477.7 | 522.6 | 564.0 | 577.8 |
| 62.5° | 419.1 | 434.6 | 479.5 | 522.6 | 536.4 |
| 65° | 372.5 | 389.8 | 438.1 | 479.5 | 495.0 |
| 67.5° | 324.2 | 344.9 | 395.0 | 434.6 | 451.9 |
| 70° | 281.1 | 301.8 | 348.4 | 389.8 | 407.0 |
| 72.5° | 234.6 | 257.0 | 303.6 | 346.7 | 365.6 |
| 75° | 188.0 | 212.1 | 258.7 | 298.4 | 313.9 |
| 77.5° | 146.6 | 170.7 | 213.9 | 241.5 | 248.4 |
| 80° | 105.2 | 125.9 | 162.1 | 181.1 | 188.0 |
| 82.5° | 70.7 | 86.2 | 110.4 | 117.3 | 120.7 |
| 85° | 39.7 | 48.3 | 55.2 | 53.5 | 50.0 |
| 87.5° | 17.2 | 13.8 | 12.1 | 5.2 | 3.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)