

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: P506242

Luminaire Tested: **22PD-35-PL1-L835**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-35-PL1-L835
Description: 3500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

Summary

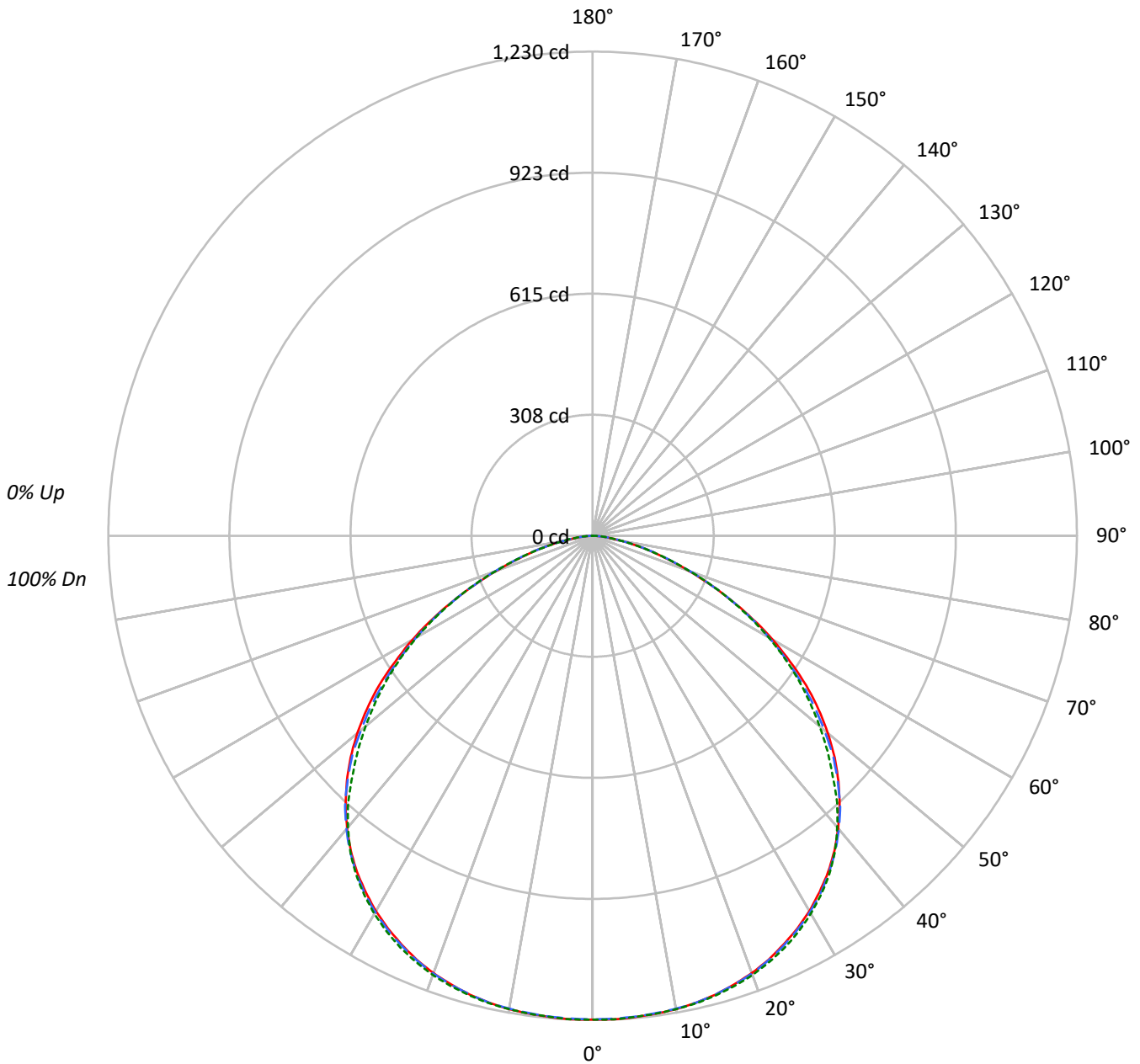
Lumens per Lamp: N/A
Luminaire Lumens: 3480.9 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P506242

CATALOG NUMBER: 22PD-35-PL1-L835

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 | 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 | | | | | 100 | | | |
| 1 | 110 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | 40 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | 35 | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | | | | | 31 | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | 25 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3307 | 3307 | 3307 |
| 5° | 3316 | 3313 | 3314 |
| 10° | 3337 | 3333 | 3337 |
| 15° | 3361 | 3361 | 3368 |
| 20° | 3385 | 3389 | 3400 |
| 25° | 3404 | 3411 | 3428 |
| 30° | 3421 | 3431 | 3445 |
| 35° | 3426 | 3437 | 3444 |
| 40° | 3408 | 3417 | 3396 |
| 45° | 3360 | 3350 | 3282 |
| 50° | 3265 | 3214 | 3149 |
| 55° | 3106 | 3027 | 2992 |
| 60° | 2844 | 2790 | 2774 |
| 65° | 2480 | 2474 | 2466 |
| 70° | 2032 | 2067 | 2060 |
| 75° | 1611 | 1638 | 1611 |
| 80° | 1181 | 1173 | 1167 |
| 85° | 787 | 775 | 827 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.9 | 3.4 |
| 10°-20° | 341.0 | 9.8 |
| 20°-30° | 530.0 | 15.2 |
| 30°-40° | 653.4 | 18.8 |
| 40°-50° | 674.9 | 19.4 |
| 50°-60° | 577.5 | 16.6 |
| 60°-70° | 385.4 | 11.1 |
| 70°-80° | 169.1 | 4.9 |
| 80°-90° | 32.7 | 0.9 |
| 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° | 987.9 | 28.4 |
| 0°-40° | 1641.3 | 47.2 |
| 0°-60° | 2893.7 | 83.1 |
| 0°-90° | 3480.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3480.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1229 | 1229 | 1229 | 1229 | 1229 | |
| 5° | 1228 | 1226 | 1226 | 1226 | 1227 | 117 |
| 15° | 1206 | 1205 | 1206 | 1207 | 1209 | 341 |
| 25° | 1146 | 1146 | 1149 | 1152 | 1154 | 529 |
| 35° | 1043 | 1043 | 1046 | 1048 | 1048 | 652 |
| 45° | 883 | 882 | 880 | 872 | 862 | 680 |
| 55° | 662 | 654 | 645 | 642 | 638 | 588 |
| 65° | 390 | 389 | 389 | 390 | 387 | 386 |
| 75° | 155 | 154 | 158 | 157 | 155 | 168 |
| 85° | 26 | 25 | 25 | 26 | 27 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1228.9 | 1228.9 | 1228.9 | 1228.9 | 1228.9 |
| 2.5° | 1229.8 | 1228.1 | 1227.6 | 1227.6 | 1229.8 |
| 5° | 1227.6 | 1225.9 | 1226.3 | 1225.5 | 1226.8 |
| 7.5° | 1224.6 | 1222.9 | 1223.3 | 1222.9 | 1224.6 |
| 10° | 1221.2 | 1219.4 | 1219.9 | 1219.4 | 1221.2 |
| 12.5° | 1215.1 | 1213.8 | 1214.7 | 1215.1 | 1216.4 |
| 15° | 1206.4 | 1205.1 | 1206.4 | 1207.3 | 1209.0 |
| 17.5° | 1195.2 | 1194.3 | 1195.6 | 1196.9 | 1199.1 |
| 20° | 1182.2 | 1181.3 | 1183.5 | 1184.8 | 1187.4 |
| 22.5° | 1166.2 | 1165.3 | 1167.5 | 1170.5 | 1172.3 |
| 25° | 1146.3 | 1146.3 | 1148.9 | 1152.4 | 1154.5 |
| 27.5° | 1125.1 | 1124.7 | 1127.7 | 1131.1 | 1133.3 |
| 30° | 1100.9 | 1100.0 | 1104.3 | 1107.3 | 1108.6 |
| 32.5° | 1072.7 | 1073.2 | 1077.1 | 1080.1 | 1080.5 |
| 35° | 1042.9 | 1042.9 | 1046.3 | 1048.5 | 1048.5 |
| 37.5° | 1008.7 | 1008.3 | 1011.7 | 1012.6 | 1011.3 |
| 40° | 970.2 | 970.6 | 972.8 | 972.3 | 966.7 |
| 42.5° | 928.6 | 929.1 | 930.8 | 924.7 | 919.1 |
| 45° | 882.8 | 882.3 | 880.2 | 871.9 | 862.4 |
| 47.5° | 833.9 | 831.7 | 828.2 | 815.7 | 808.8 |
| 50° | 779.8 | 776.3 | 767.7 | 757.7 | 752.1 |
| 52.5° | 722.7 | 716.6 | 707.9 | 700.2 | 695.4 |
| 55° | 662.1 | 653.9 | 645.2 | 641.7 | 637.8 |
| 57.5° | 594.6 | 589.4 | 582.0 | 580.3 | 577.7 |
| 60° | 528.4 | 522.7 | 518.4 | 518.4 | 515.4 |
| 62.5° | 459.1 | 455.7 | 453.9 | 454.8 | 451.8 |
| 65° | 389.5 | 388.6 | 388.6 | 389.9 | 387.3 |
| 67.5° | 321.9 | 323.7 | 323.2 | 327.6 | 324.1 |
| 70° | 258.3 | 261.4 | 262.7 | 267.0 | 261.8 |
| 72.5° | 203.4 | 203.8 | 205.5 | 206.8 | 204.2 |
| 75° | 154.9 | 153.6 | 157.5 | 156.6 | 154.9 |
| 77.5° | 112.1 | 111.2 | 112.5 | 113.4 | 111.2 |
| 80° | 76.2 | 75.3 | 75.7 | 77.0 | 75.3 |
| 82.5° | 48.0 | 47.2 | 47.2 | 48.5 | 48.0 |
| 85° | 25.5 | 25.1 | 25.1 | 26.0 | 26.8 |
| 87.5° | 9.1 | 8.7 | 9.1 | 9.1 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)