

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: P506301

Luminaire Tested: **22PD-45-PL1-L935**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506301
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-45-PL1-L935
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

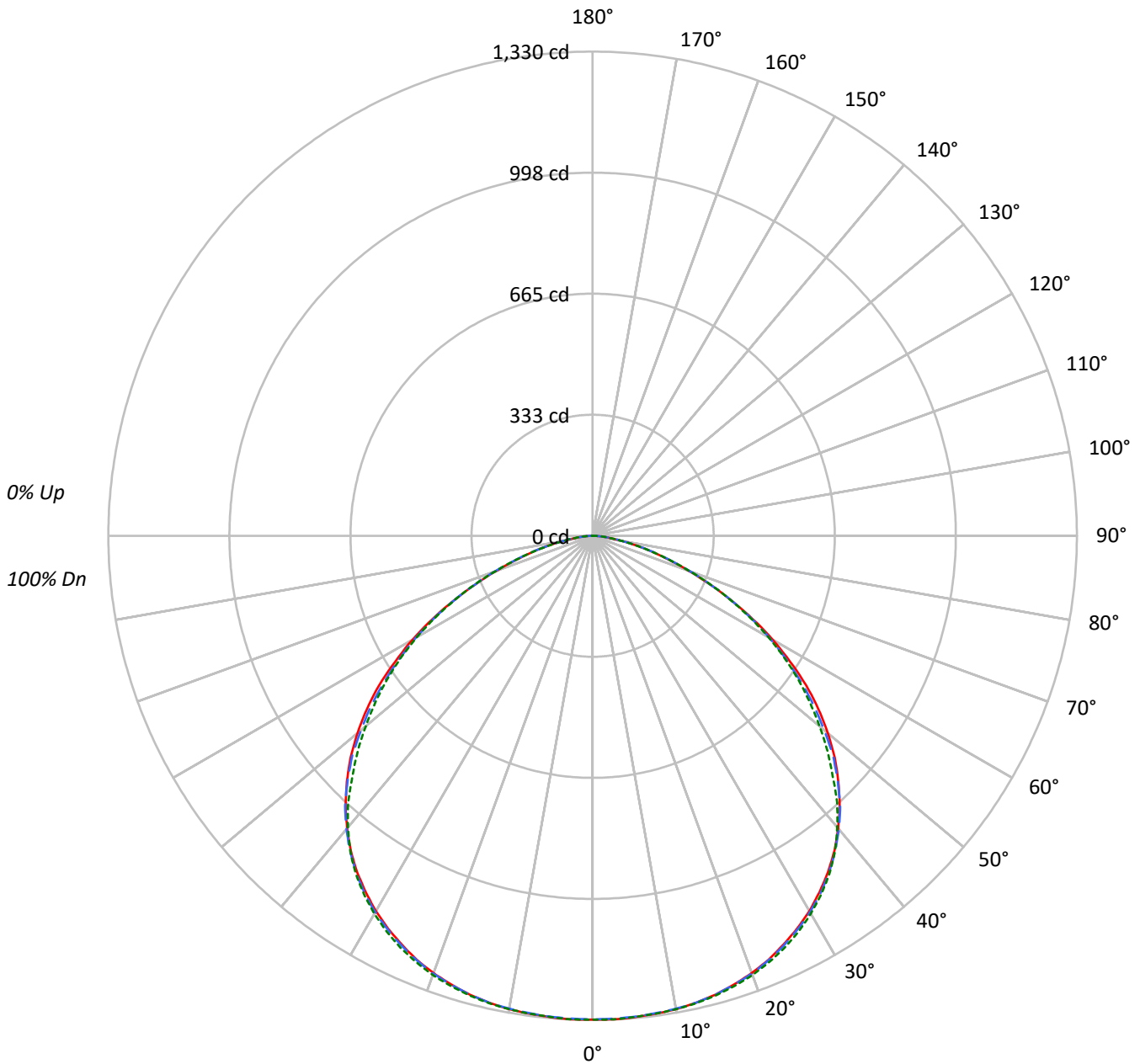
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763.8 lumens
Efficiency: N/A
Efficacy: 99.6 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): 37.8
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

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Luminous Intensity Polar Plot





TEST NUMBER: P506301

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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 | 64 | 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° | 3576 | 3576 | 3576 |
| 5° | 3586 | 3582 | 3583 |
| 10° | 3608 | 3604 | 3608 |
| 15° | 3634 | 3634 | 3642 |
| 20° | 3661 | 3665 | 3677 |
| 25° | 3680 | 3689 | 3706 |
| 30° | 3699 | 3710 | 3725 |
| 35° | 3704 | 3717 | 3724 |
| 40° | 3685 | 3695 | 3672 |
| 45° | 3632 | 3622 | 3549 |
| 50° | 3530 | 3475 | 3404 |
| 55° | 3359 | 3273 | 3236 |
| 60° | 3075 | 3017 | 2999 |
| 65° | 2681 | 2676 | 2667 |
| 70° | 2198 | 2234 | 2227 |
| 75° | 1742 | 1771 | 1742 |
| 80° | 1275 | 1269 | 1261 |
| 85° | 852 | 837 | 895 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.3 | 3.4 |
| 10°-20° | 368.7 | 9.8 |
| 20°-30° | 573.1 | 15.2 |
| 30°-40° | 706.5 | 18.8 |
| 40°-50° | 729.8 | 19.4 |
| 50°-60° | 624.4 | 16.6 |
| 60°-70° | 416.8 | 11.1 |
| 70°-80° | 182.9 | 4.9 |
| 80°-90° | 35.3 | 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° | 1068.1 | 28.4 |
| 0°-40° | 1774.6 | 47.2 |
| 0°-60° | 3128.8 | 83.1 |
| 0°-90° | 3763.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3763.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1329 | 1329 | 1329 | 1329 | 1329 | |
| 5° | 1327 | 1326 | 1326 | 1325 | 1326 | 126 |
| 15° | 1304 | 1303 | 1304 | 1305 | 1307 | 369 |
| 25° | 1239 | 1239 | 1242 | 1246 | 1248 | 572 |
| 35° | 1128 | 1128 | 1131 | 1134 | 1134 | 705 |
| 45° | 954 | 954 | 952 | 943 | 932 | 735 |
| 55° | 716 | 707 | 698 | 694 | 690 | 636 |
| 65° | 421 | 420 | 420 | 422 | 419 | 418 |
| 75° | 168 | 166 | 170 | 169 | 168 | 182 |
| 85° | 28 | 27 | 27 | 28 | 29 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1328.8 | 1328.8 | 1328.8 | 1328.8 | 1328.8 |
| 2.5° | 1329.8 | 1327.9 | 1327.4 | 1327.4 | 1329.8 |
| 5° | 1327.4 | 1325.5 | 1326.0 | 1325.1 | 1326.5 |
| 7.5° | 1324.1 | 1322.3 | 1322.7 | 1322.3 | 1324.1 |
| 10° | 1320.4 | 1318.5 | 1319.0 | 1318.5 | 1320.4 |
| 12.5° | 1313.8 | 1312.4 | 1313.4 | 1313.8 | 1315.2 |
| 15° | 1304.5 | 1303.1 | 1304.5 | 1305.4 | 1307.3 |
| 17.5° | 1292.3 | 1291.4 | 1292.8 | 1294.2 | 1296.5 |
| 20° | 1278.3 | 1277.3 | 1279.7 | 1281.1 | 1283.9 |
| 22.5° | 1261.0 | 1260.0 | 1262.4 | 1265.7 | 1267.5 |
| 25° | 1239.4 | 1239.4 | 1242.3 | 1246.0 | 1248.3 |
| 27.5° | 1216.5 | 1216.1 | 1219.3 | 1223.1 | 1225.4 |
| 30° | 1190.3 | 1189.4 | 1194.1 | 1197.3 | 1198.7 |
| 32.5° | 1159.9 | 1160.4 | 1164.6 | 1167.9 | 1168.3 |
| 35° | 1127.6 | 1127.6 | 1131.4 | 1133.7 | 1133.7 |
| 37.5° | 1090.7 | 1090.2 | 1093.9 | 1094.9 | 1093.5 |
| 40° | 1049.0 | 1049.5 | 1051.8 | 1051.4 | 1045.3 |
| 42.5° | 1004.1 | 1004.6 | 1006.4 | 999.9 | 993.8 |
| 45° | 954.5 | 954.0 | 951.7 | 942.8 | 932.5 |
| 47.5° | 901.6 | 899.3 | 895.5 | 882.0 | 874.5 |
| 50° | 843.1 | 839.4 | 830.0 | 819.3 | 813.2 |
| 52.5° | 781.4 | 774.8 | 765.5 | 757.1 | 751.9 |
| 55° | 715.9 | 707.0 | 697.6 | 693.9 | 689.7 |
| 57.5° | 642.9 | 637.3 | 629.3 | 627.4 | 624.6 |
| 60° | 571.3 | 565.2 | 560.5 | 560.5 | 557.3 |
| 62.5° | 496.4 | 492.7 | 490.8 | 491.8 | 488.5 |
| 65° | 421.1 | 420.2 | 420.2 | 421.6 | 418.8 |
| 67.5° | 348.1 | 350.0 | 349.5 | 354.2 | 350.5 |
| 70° | 279.3 | 282.6 | 284.0 | 288.7 | 283.1 |
| 72.5° | 219.9 | 220.4 | 222.2 | 223.7 | 220.8 |
| 75° | 167.5 | 166.1 | 170.3 | 169.4 | 167.5 |
| 77.5° | 121.2 | 120.2 | 121.7 | 122.6 | 120.2 |
| 80° | 82.3 | 81.4 | 81.9 | 83.3 | 81.4 |
| 82.5° | 51.9 | 51.0 | 51.0 | 52.4 | 51.9 |
| 85° | 27.6 | 27.1 | 27.1 | 28.1 | 29.0 |
| 87.5° | 9.8 | 9.4 | 9.8 | 9.8 | 9.8 |
| 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)