

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: P506651

Luminaire Tested: **24PD-45-PL1-L930**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-45-PL1-L930
Description: 4500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

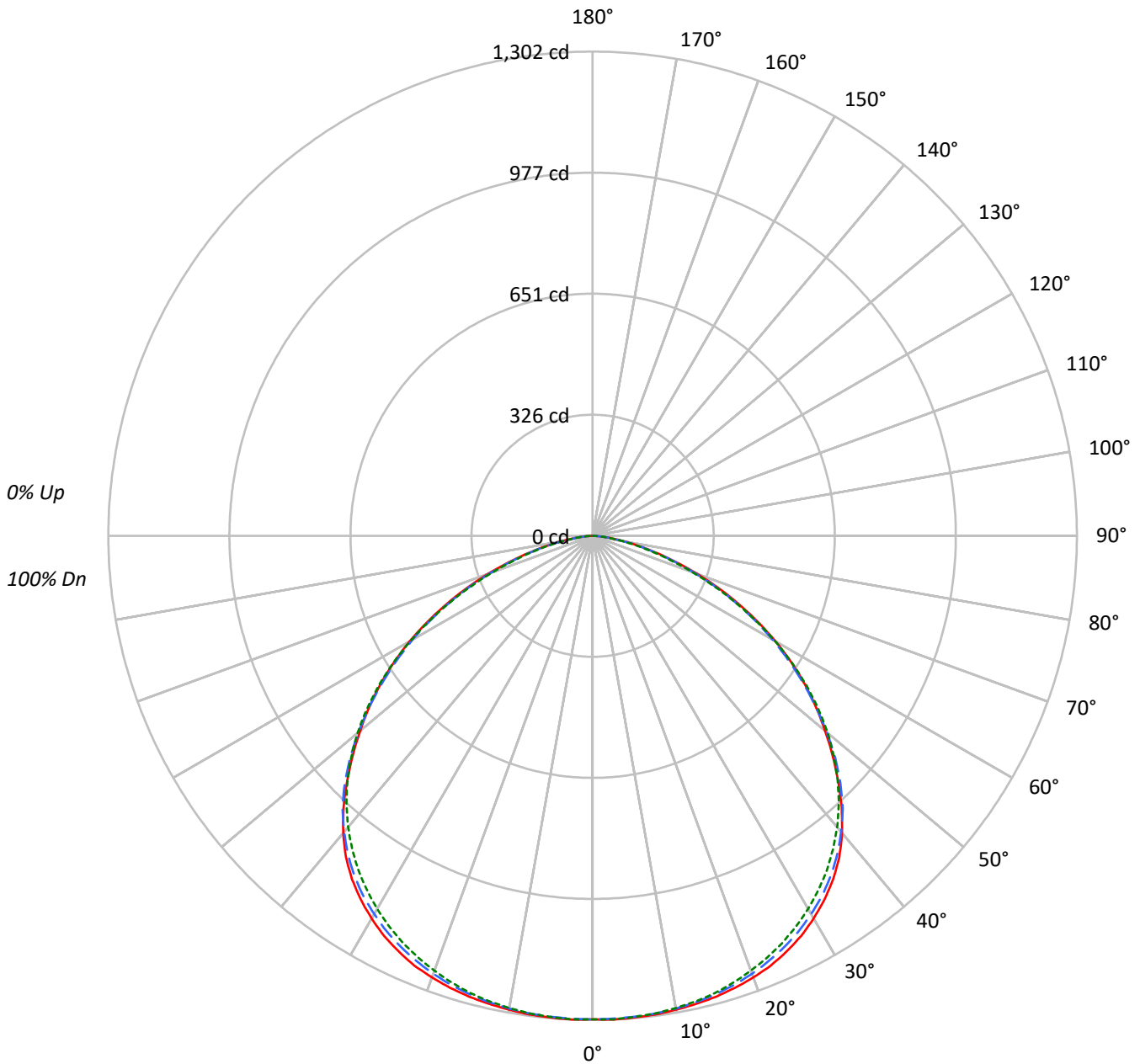
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3730.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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: P506651
CATALOG NUMBER: 24PD-45-PL1-L930

Luminous Intensity Polar Plot





TEST NUMBER: P506651

CATALOG NUMBER: 24PD-45-PL1-L930

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 | | | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | 35 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 | | | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 | | | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1750 | 1750 | 1750 |
| 5° | 1756 | 1754 | 1754 |
| 10° | 1768 | 1764 | 1762 |
| 15° | 1787 | 1778 | 1773 |
| 20° | 1809 | 1795 | 1782 |
| 25° | 1832 | 1811 | 1793 |
| 30° | 1846 | 1825 | 1800 |
| 35° | 1852 | 1834 | 1803 |
| 40° | 1832 | 1826 | 1796 |
| 45° | 1777 | 1793 | 1773 |
| 50° | 1708 | 1720 | 1726 |
| 55° | 1634 | 1621 | 1646 |
| 60° | 1528 | 1503 | 1523 |
| 65° | 1375 | 1348 | 1347 |
| 70° | 1171 | 1144 | 1118 |
| 75° | 922 | 901 | 865 |
| 80° | 659 | 640 | 604 |
| 85° | 391 | 384 | 357 |



TEST NUMBER: P506651

CATALOG NUMBER: 24PD-45-PL1-L930

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 123.7 | 3.3 |
| 10°-20° | 361.0 | 9.7 |
| 20°-30° | 562.7 | 15.1 |
| 30°-40° | 696.3 | 18.7 |
| 40°-50° | 721.8 | 19.3 |
| 50°-60° | 621.5 | 16.7 |
| 60°-70° | 421.6 | 11.3 |
| 70°-80° | 188.1 | 5.0 |
| 80°-90° | 33.8 | 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° | 1047.4 | 28.1 |
| 0°-40° | 1743.6 | 46.7 |
| 0°-60° | 3086.9 | 82.7 |
| 0°-90° | 3730.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3730.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1300 | 1300 | 1300 | 1300 | 1300 | |
| 5° | 1300 | 1299 | 1298 | 1298 | 1299 | 124 |
| 15° | 1283 | 1279 | 1277 | 1274 | 1273 | 363 |
| 25° | 1234 | 1229 | 1220 | 1211 | 1208 | 569 |
| 35° | 1128 | 1124 | 1116 | 1104 | 1098 | 704 |
| 45° | 934 | 938 | 942 | 939 | 932 | 720 |
| 55° | 696 | 697 | 691 | 699 | 702 | 621 |
| 65° | 432 | 434 | 423 | 419 | 423 | 427 |
| 75° | 177 | 179 | 173 | 170 | 166 | 192 |
| 85° | 25 | 26 | 25 | 25 | 23 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506651

CATALOG NUMBER: 24PD-45-PL1-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1300.4 | 1300.4 | 1300.4 | 1300.4 | 1300.4 |
| 2.5° | 1302.2 | 1299.4 | 1299.7 | 1300.1 | 1301.5 |
| 5° | 1300.4 | 1298.6 | 1298.3 | 1298.3 | 1298.6 |
| 7.5° | 1298.3 | 1296.2 | 1295.8 | 1295.4 | 1295.4 |
| 10° | 1294.4 | 1292.2 | 1290.8 | 1290.1 | 1289.7 |
| 12.5° | 1289.0 | 1286.5 | 1284.8 | 1283.3 | 1282.3 |
| 15° | 1283.0 | 1279.4 | 1276.6 | 1273.7 | 1272.6 |
| 17.5° | 1274.4 | 1271.2 | 1266.2 | 1261.6 | 1259.8 |
| 20° | 1263.7 | 1260.5 | 1253.4 | 1247.0 | 1244.5 |
| 22.5° | 1251.3 | 1246.7 | 1237.8 | 1230.6 | 1227.1 |
| 25° | 1233.8 | 1229.2 | 1219.9 | 1211.0 | 1207.5 |
| 27.5° | 1213.5 | 1209.3 | 1199.3 | 1188.6 | 1184.3 |
| 30° | 1188.3 | 1185.4 | 1174.7 | 1163.0 | 1158.3 |
| 32.5° | 1160.1 | 1157.3 | 1148.0 | 1134.8 | 1129.5 |
| 35° | 1127.7 | 1124.5 | 1116.3 | 1104.2 | 1097.8 |
| 37.5° | 1089.3 | 1088.2 | 1080.4 | 1067.9 | 1061.8 |
| 40° | 1043.3 | 1045.5 | 1039.4 | 1028.7 | 1022.7 |
| 42.5° | 991.0 | 995.6 | 995.6 | 985.6 | 979.6 |
| 45° | 933.7 | 937.9 | 942.2 | 938.6 | 931.9 |
| 47.5° | 874.9 | 879.5 | 884.5 | 885.9 | 880.2 |
| 50° | 815.8 | 818.6 | 821.8 | 828.3 | 824.7 |
| 52.5° | 757.0 | 758.1 | 757.0 | 765.6 | 764.9 |
| 55° | 696.5 | 696.9 | 691.2 | 699.0 | 701.5 |
| 57.5° | 633.5 | 634.5 | 625.3 | 629.6 | 634.9 |
| 60° | 568.0 | 569.0 | 558.7 | 559.4 | 565.8 |
| 62.5° | 500.3 | 501.7 | 491.4 | 488.9 | 494.6 |
| 65° | 431.9 | 433.7 | 423.4 | 418.8 | 423.0 |
| 67.5° | 363.9 | 366.1 | 356.4 | 350.7 | 351.8 |
| 70° | 297.7 | 299.5 | 290.9 | 285.6 | 284.2 |
| 72.5° | 234.7 | 236.4 | 229.7 | 224.3 | 221.8 |
| 75° | 177.3 | 178.8 | 173.4 | 169.5 | 166.3 |
| 77.5° | 127.5 | 128.5 | 124.3 | 121.4 | 118.2 |
| 80° | 85.1 | 85.5 | 82.6 | 80.8 | 78.0 |
| 82.5° | 50.9 | 51.3 | 49.5 | 48.8 | 46.6 |
| 85° | 25.3 | 25.6 | 24.9 | 24.9 | 23.1 |
| 87.5° | 8.9 | 8.5 | 8.9 | 8.9 | 7.8 |
| 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)