

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: P506297

Luminaire Tested: **22PD-45-PL1-L840**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506297
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-L840
Description: 4500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

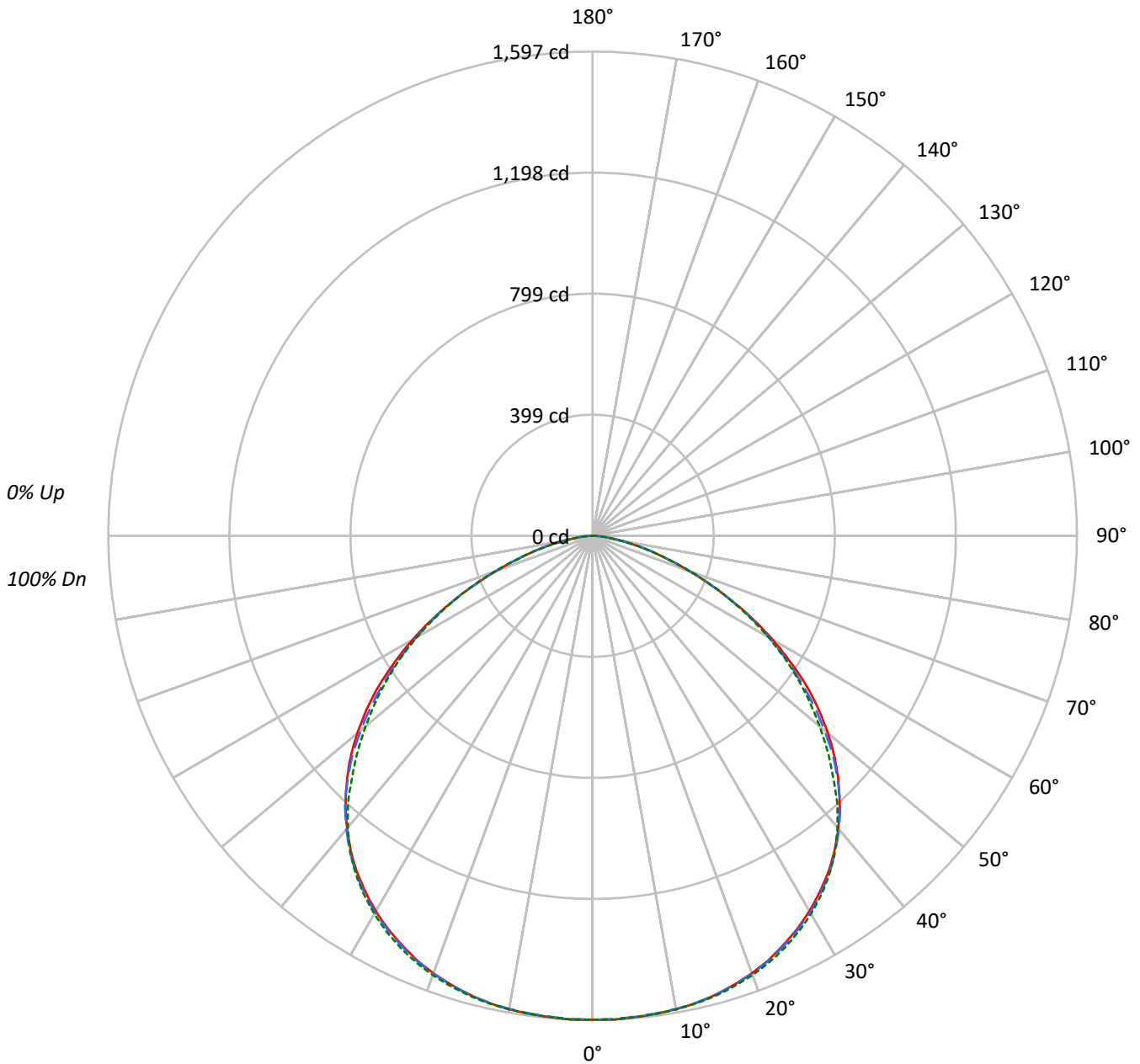
Lumens per Lamp: N/A
Luminaire Lumens: 4521.1 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 110 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4295 | 4295 | 4295 |
| 5° | 4307 | 4303 | 4304 |
| 10° | 4334 | 4329 | 4334 |
| 15° | 4366 | 4366 | 4375 |
| 20° | 4397 | 4402 | 4416 |
| 25° | 4420 | 4431 | 4452 |
| 30° | 4443 | 4457 | 4474 |
| 35° | 4450 | 4464 | 4474 |
| 40° | 4427 | 4438 | 4411 |
| 45° | 4364 | 4351 | 4263 |
| 50° | 4240 | 4174 | 4089 |
| 55° | 4034 | 3932 | 3887 |
| 60° | 3693 | 3624 | 3603 |
| 65° | 3221 | 3214 | 3203 |
| 70° | 2640 | 2685 | 2675 |
| 75° | 2092 | 2127 | 2092 |
| 80° | 1533 | 1525 | 1516 |
| 85° | 1025 | 1007 | 1074 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.8 | 3.4 |
| 10°-20° | 442.9 | 9.8 |
| 20°-30° | 688.4 | 15.2 |
| 30°-40° | 848.7 | 18.8 |
| 40°-50° | 876.6 | 19.4 |
| 50°-60° | 750.1 | 16.6 |
| 60°-70° | 500.6 | 11.1 |
| 70°-80° | 219.7 | 4.9 |
| 80°-90° | 42.5 | 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° | 1283.1 | 28.4 |
| 0°-40° | 2131.7 | 47.2 |
| 0°-60° | 3758.4 | 83.1 |
| 0°-90° | 4521.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4521.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1596 | 1596 | 1596 | 1596 | 1596 | |
| 5° | 1594 | 1592 | 1593 | 1592 | 1593 | 152 |
| 15° | 1567 | 1565 | 1567 | 1568 | 1570 | 443 |
| 25° | 1489 | 1489 | 1492 | 1497 | 1500 | 687 |
| 35° | 1354 | 1354 | 1359 | 1362 | 1362 | 846 |
| 45° | 1147 | 1146 | 1143 | 1132 | 1120 | 883 |
| 55° | 860 | 849 | 838 | 834 | 828 | 764 |
| 65° | 506 | 505 | 505 | 506 | 503 | 502 |
| 75° | 201 | 200 | 205 | 204 | 201 | 218 |
| 85° | 33 | 33 | 33 | 34 | 35 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1596.2 | 1596.2 | 1596.2 | 1596.2 | 1596.2 |
| 2.5° | 1597.3 | 1595.1 | 1594.5 | 1594.5 | 1597.3 |
| 5° | 1594.5 | 1592.3 | 1592.8 | 1591.7 | 1593.4 |
| 7.5° | 1590.6 | 1588.3 | 1588.9 | 1588.3 | 1590.6 |
| 10° | 1586.1 | 1583.8 | 1584.4 | 1583.8 | 1586.1 |
| 12.5° | 1578.2 | 1576.5 | 1577.6 | 1578.2 | 1579.9 |
| 15° | 1567.0 | 1565.3 | 1567.0 | 1568.1 | 1570.3 |
| 17.5° | 1552.4 | 1551.2 | 1552.9 | 1554.6 | 1557.4 |
| 20° | 1535.5 | 1534.4 | 1537.2 | 1538.9 | 1542.2 |
| 22.5° | 1514.7 | 1513.6 | 1516.4 | 1520.3 | 1522.6 |
| 25° | 1488.8 | 1488.8 | 1492.2 | 1496.7 | 1499.5 |
| 27.5° | 1461.3 | 1460.7 | 1464.7 | 1469.2 | 1472.0 |
| 30° | 1429.8 | 1428.7 | 1434.3 | 1438.3 | 1439.9 |
| 32.5° | 1393.3 | 1393.9 | 1398.9 | 1402.8 | 1403.4 |
| 35° | 1354.5 | 1354.5 | 1359.0 | 1361.8 | 1361.8 |
| 37.5° | 1310.1 | 1309.6 | 1314.0 | 1315.2 | 1313.5 |
| 40° | 1260.1 | 1260.7 | 1263.5 | 1262.9 | 1255.6 |
| 42.5° | 1206.1 | 1206.7 | 1208.9 | 1201.1 | 1193.8 |
| 45° | 1146.6 | 1146.0 | 1143.2 | 1132.5 | 1120.1 |
| 47.5° | 1083.0 | 1080.2 | 1075.7 | 1059.4 | 1050.5 |
| 50° | 1012.8 | 1008.3 | 997.1 | 984.1 | 976.8 |
| 52.5° | 938.6 | 930.7 | 919.5 | 909.4 | 903.2 |
| 55° | 859.9 | 849.2 | 838.0 | 833.5 | 828.4 |
| 57.5° | 772.2 | 765.5 | 755.9 | 753.7 | 750.3 |
| 60° | 686.2 | 678.9 | 673.3 | 673.3 | 669.4 |
| 62.5° | 596.3 | 591.8 | 589.6 | 590.7 | 586.8 |
| 65° | 505.8 | 504.7 | 504.7 | 506.4 | 503.0 |
| 67.5° | 418.2 | 420.4 | 419.8 | 425.5 | 421.0 |
| 70° | 335.5 | 339.5 | 341.2 | 346.8 | 340.0 |
| 72.5° | 264.2 | 264.7 | 267.0 | 268.7 | 265.3 |
| 75° | 201.2 | 199.5 | 204.6 | 203.5 | 201.2 |
| 77.5° | 145.6 | 144.4 | 146.1 | 147.3 | 144.4 |
| 80° | 98.9 | 97.8 | 98.4 | 100.0 | 97.8 |
| 82.5° | 62.4 | 61.3 | 61.3 | 62.9 | 62.4 |
| 85° | 33.2 | 32.6 | 32.6 | 33.7 | 34.8 |
| 87.5° | 11.8 | 11.2 | 11.8 | 11.8 | 11.8 |
| 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)