

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: P738145

Luminaire Tested: **22PT-35-PL1-L840**

Issue Date: 2/8/2024



**Test Information**

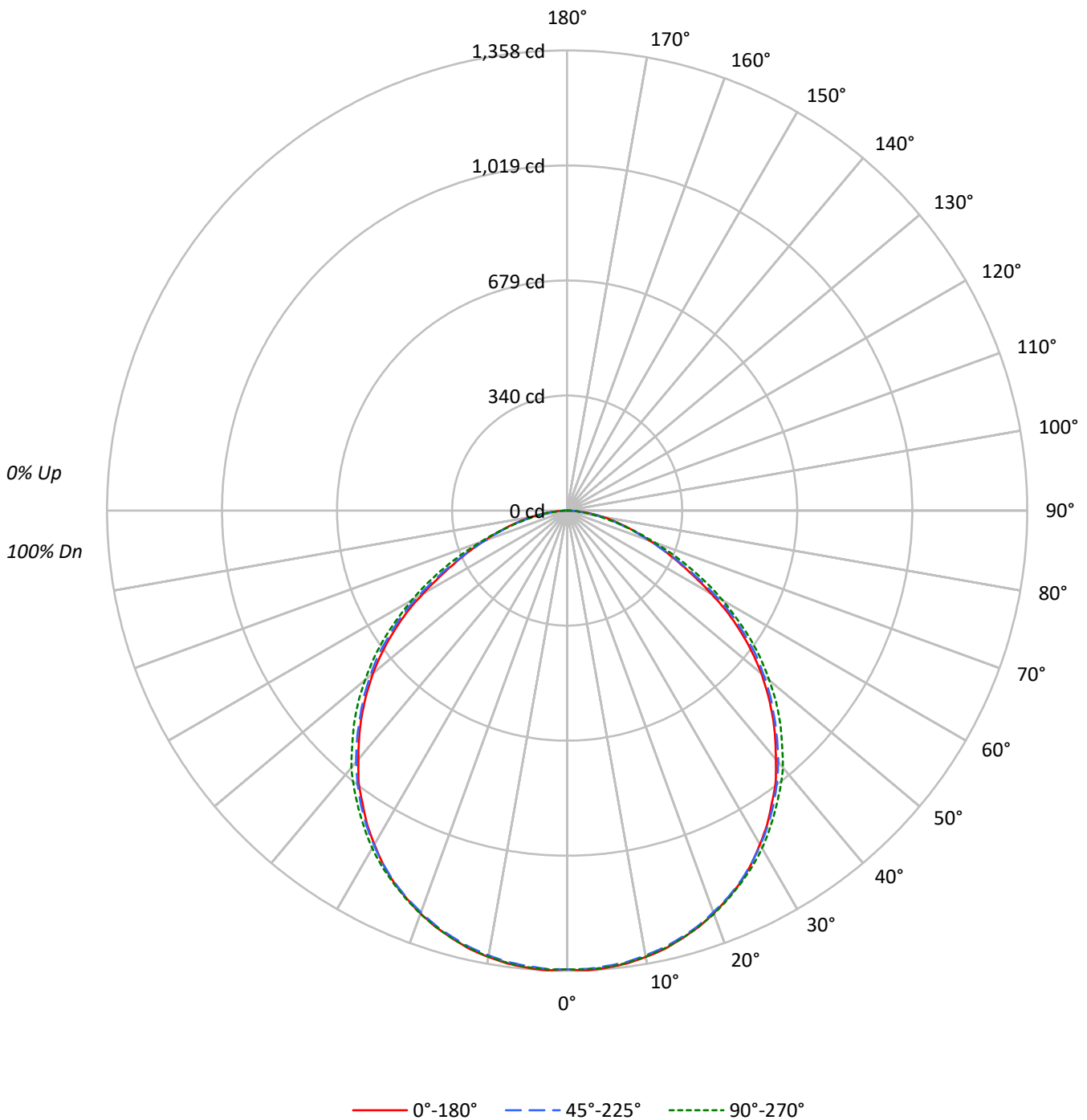
Test Method: LM-79-08  
Report Number: P738145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2212-851-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/8/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PT-35-PL1-L840  
Description: 3500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 80 CRI LEDS AND LEAVES LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3568.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P738145  
CATALOG NUMBER: 22PT-35-PL1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P738145

CATALOG NUMBER: 22PT-35-PL1-L840

**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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 76  | 80  | 77  | 74  | 72  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 68  | 62  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 52  |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 55  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |
| 6   | 71  | 58  | 50  | 43  | 70  | 57  | 49  | 43  | 56  | 48  | 43  | 54  | 47  | 42  | 52  | 47  | 42  | 40  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 29  |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3968 | 3968 | 3968 |
| 5°  | 3983 | 3968 | 3978 |
| 10° | 3980 | 3966 | 3977 |
| 15° | 3966 | 3954 | 3968 |
| 20° | 3945 | 3933 | 3949 |
| 25° | 3914 | 3907 | 3923 |
| 30° | 3849 | 3857 | 3894 |
| 35° | 3768 | 3794 | 3839 |
| 40° | 3665 | 3707 | 3789 |
| 45° | 3553 | 3584 | 3685 |
| 50° | 3412 | 3454 | 3547 |
| 55° | 3205 | 3268 | 3370 |
| 60° | 2881 | 2978 | 3105 |
| 65° | 2524 | 2576 | 2769 |
| 70° | 2216 | 2197 | 2338 |
| 75° | 1992 | 1909 | 1915 |
| 80° | 1789 | 1692 | 1508 |
| 85° | 1419 | 1399 | 1150 |



TEST NUMBER: P738145

CATALOG NUMBER: 22PT-35-PL1-L840

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.4  | 3.6       |
| 10°-20°   | 368.3  | 10.3      |
| 20°-30°   | 557.0  | 15.6      |
| 30°-40°   | 664.2  | 18.6      |
| 40°-50°   | 670.6  | 18.8      |
| 50°-60°   | 572.1  | 16.0      |
| 60°-70°   | 375.9  | 10.5      |
| 70°-80°   | 184.1  | 5.2       |
| 80°-90°   | 47.4   | 1.3       |
| 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°    | 1053.8 | 29.5      |
| 0°-40°    | 1717.9 | 48.1      |
| 0°-60°    | 2960.6 | 83.0      |
| 0°-90°    | 3568.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3568.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1354 | 1354  | 1354 | 1354  | 1354 |      |
| 5°  | 1354 | 1351  | 1349 | 1349  | 1352 | 129  |
| 15° | 1308 | 1305  | 1304 | 1304  | 1308 | 369  |
| 25° | 1211 | 1208  | 1208 | 1210  | 1214 | 557  |
| 35° | 1053 | 1056  | 1061 | 1068  | 1073 | 659  |
| 45° | 857  | 860   | 865  | 882   | 889  | 660  |
| 55° | 627  | 631   | 640  | 655   | 660  | 558  |
| 65° | 364  | 364   | 372  | 388   | 399  | 364  |
| 75° | 176  | 174   | 169  | 168   | 169  | 189  |
| 85° | 42   | 42    | 42   | 38    | 34   | 51   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P738145

CATALOG NUMBER: 22PT-35-PL1-L840

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1354.2 | 1354.2 | 1354.2 | 1354.2 | 1354.2 |
| 2.5°  | 1358.2 | 1355.4 | 1353.7 | 1352.5 | 1355.4 |
| 5°    | 1354.2 | 1351.4 | 1349.1 | 1349.1 | 1352.5 |
| 7.5°  | 1348.0 | 1345.1 | 1343.4 | 1342.8 | 1346.2 |
| 10°   | 1337.7 | 1334.3 | 1333.1 | 1332.6 | 1336.6 |
| 12.5° | 1325.7 | 1320.6 | 1320.6 | 1320.0 | 1324.0 |
| 15°   | 1307.5 | 1305.2 | 1303.5 | 1304.1 | 1308.1 |
| 17.5° | 1288.7 | 1286.4 | 1285.3 | 1285.3 | 1287.6 |
| 20°   | 1265.3 | 1262.5 | 1261.4 | 1262.5 | 1266.5 |
| 22.5° | 1238.6 | 1236.9 | 1236.9 | 1238.0 | 1240.8 |
| 25°   | 1210.7 | 1207.8 | 1208.4 | 1210.1 | 1213.5 |
| 27.5° | 1176.5 | 1175.9 | 1175.9 | 1179.9 | 1183.9 |
| 30°   | 1137.7 | 1137.7 | 1140.0 | 1145.7 | 1150.8 |
| 32.5° | 1098.4 | 1097.8 | 1102.4 | 1107.5 | 1113.2 |
| 35°   | 1053.4 | 1056.3 | 1060.8 | 1068.2 | 1073.4 |
| 37.5° | 1011.3 | 1010.7 | 1016.4 | 1029.5 | 1032.9 |
| 40°   | 958.3  | 962.3  | 969.1  | 982.2  | 990.7  |
| 42.5° | 908.7  | 911.6  | 917.8  | 933.2  | 938.9  |
| 45°   | 857.4  | 859.7  | 864.8  | 881.9  | 889.3  |
| 47.5° | 803.3  | 806.2  | 813.6  | 827.8  | 836.3  |
| 50°   | 748.6  | 752.6  | 757.7  | 771.4  | 778.2  |
| 52.5° | 688.8  | 693.9  | 703.0  | 715.6  | 720.7  |
| 55°   | 627.3  | 630.7  | 639.8  | 654.6  | 659.7  |
| 57.5° | 562.9  | 565.7  | 578.8  | 589.7  | 593.6  |
| 60°   | 491.7  | 495.1  | 508.2  | 525.3  | 529.8  |
| 62.5° | 424.4  | 427.3  | 438.7  | 459.2  | 466.0  |
| 65°   | 364.1  | 364.1  | 371.5  | 388.5  | 399.4  |
| 67.5° | 310.5  | 309.4  | 310.5  | 323.6  | 335.0  |
| 70°   | 258.7  | 259.2  | 256.4  | 264.3  | 272.9  |
| 72.5° | 215.9  | 215.9  | 210.2  | 211.4  | 218.2  |
| 75°   | 176.0  | 174.3  | 168.6  | 167.5  | 169.2  |
| 77.5° | 140.7  | 137.9  | 133.3  | 129.9  | 125.9  |
| 80°   | 106.0  | 103.7  | 100.3  | 95.1   | 89.4   |
| 82.5° | 74.1   | 71.8   | 69.5   | 66.7   | 61.0   |
| 85°   | 42.2   | 42.2   | 41.6   | 38.2   | 34.2   |
| 87.5° | 17.1   | 16.5   | 16.0   | 15.4   | 14.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)