

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P436700

Luminaire Tested: **LSSQ1B08509027D010TExxSL**

Issue Date: 12/2/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P436700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-014-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSSQ1B08509027D010TExxSL  
Description: PORTFOLIO 1INCH CYLINDER, 50 DEG REFLECTOR OPTIC  
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 921.0 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.96 / 0.9  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

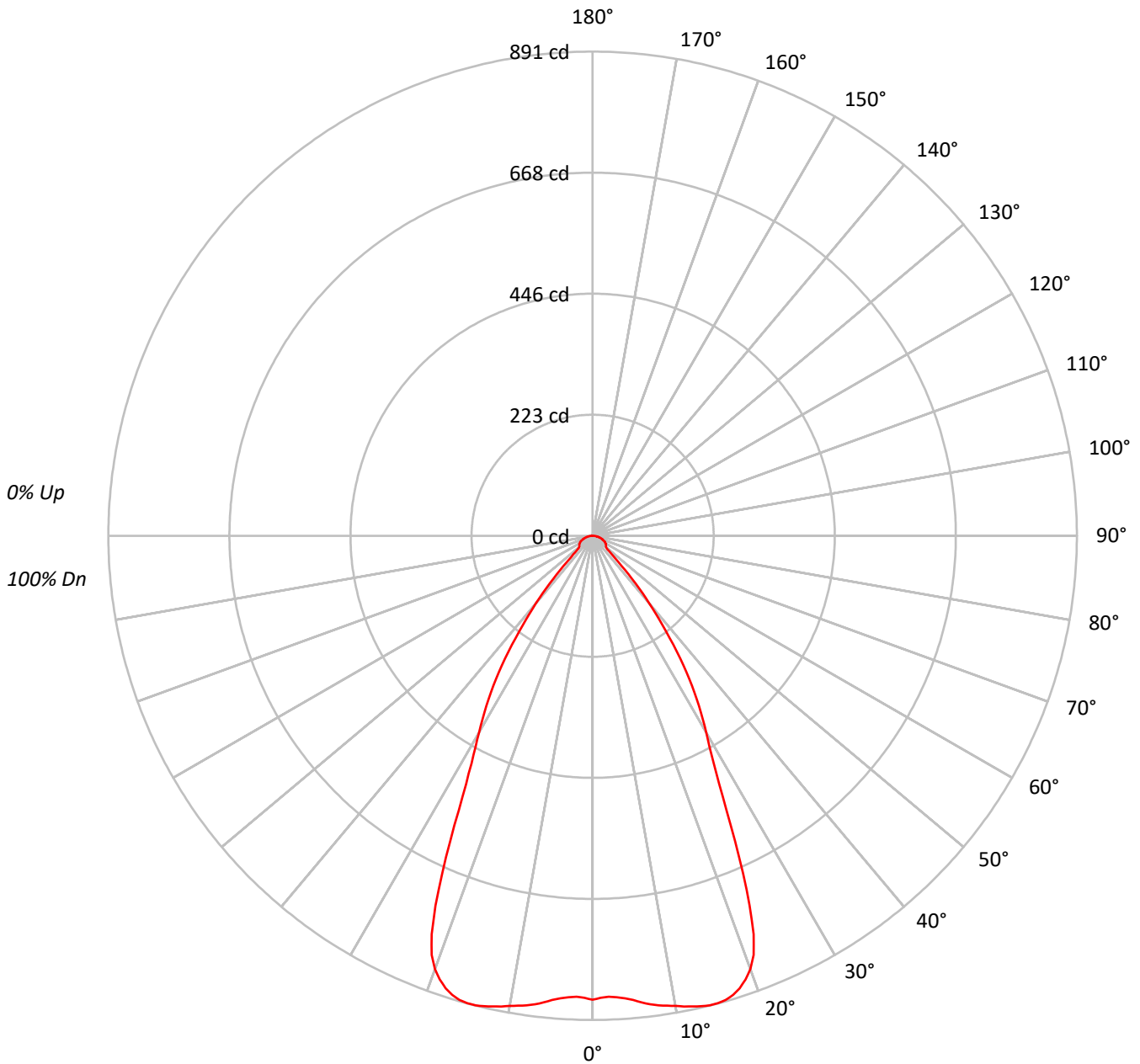
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P436700

CATALOG NUMBER: LSSQ1B08509027D010TExxSL

### Luminous Intensity Polar Plot





TEST NUMBER: P436700

CATALOG NUMBER: LSSQ1B08509027D010TExxSL

**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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99  | 100 | 98  | 96  | 96  | 95  | 94  | 92  |    |    |
| 2   | 106 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |    |    |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  | 89  | 85  | 82  | 87  | 83  | 80  | 85  | 82  | 79  | 77  |    |    |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 84  | 79  | 75  | 81  | 77  | 74  | 80  | 76  | 73  | 72  |    |    |
| 5   | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    |
| 6   | 85  | 76  | 69  | 65  | 84  | 75  | 69  | 65  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 62  |    |    |
| 7   | 81  | 71  | 65  | 60  | 80  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 62  | 59  | 58  |    |    |
| 8   | 77  | 67  | 61  | 56  | 76  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 55  | 54  |    |    |
| 9   | 73  | 63  | 57  | 53  | 72  | 62  | 57  | 52  | 61  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  |    |    |
| 10  | 70  | 59  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 48  |    |    |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1333732 |
| 5°  | 1345100 |
| 10° | 1393971 |
| 15° | 1440632 |
| 20° | 1411014 |
| 25° | 1068366 |
| 30° | 753793  |
| 35° | 556780  |
| 40° | 330223  |
| 45° | 125952  |
| 50° | 77785   |
| 55° | 81723   |
| 60° | 84374   |
| 65° | 88731   |
| 70° | 86799   |
| 75° | 84517   |
| 80° | 80982   |
| 85° | 71710   |



TEST NUMBER: P436700

CATALOG NUMBER: LSSQ1B08509027D010TExxSL

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 82.7   | 9.0       |
| 10°-20°   | 249.5  | 27.1      |
| 20°-30°   | 283.9  | 30.8      |
| 30°-40°   | 178.9  | 19.4      |
| 40°-50°   | 56.3   | 6.1       |
| 50°-60°   | 26.8   | 2.9       |
| 60°-70°   | 23.3   | 2.5       |
| 70°-80°   | 15.0   | 1.6       |
| 80°-90°   | 4.8    | 0.5       |
| 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°    | 616.0  | 66.9      |
| 0°-40°    | 794.9  | 86.3      |
| 0°-60°    | 878.0  | 95.3      |
| 0°-90°    | 921.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 921.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 854 |      |
| 5°  | 858 | 83   |
| 15° | 891 | 249  |
| 25° | 620 | 284  |
| 35° | 292 | 179  |
| 45° | 57  | 56   |
| 55° | 30  | 27   |
| 65° | 24  | 23   |
| 75° | 14  | 15   |
| 85° | 4   | 5    |
| 90° | 0   |      |



TEST NUMBER: P436700

CATALOG NUMBER: LSSQ1B08509027D010TExxSL

**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 853.6 |
| 1°    | 850.6 |
| 2°    | 848.6 |
| 3°    | 850.6 |
| 4°    | 853.6 |
| 5°    | 857.6 |
| 6°    | 863.6 |
| 7°    | 868.6 |
| 8°    | 872.6 |
| 9°    | 875.6 |
| 10°   | 878.6 |
| 11°   | 882.6 |
| 12°   | 885.6 |
| 13°   | 888.6 |
| 14°   | 890.6 |
| 15°   | 890.6 |
| 16°   | 888.6 |
| 17°   | 883.6 |
| 18°   | 875.6 |
| 19°   | 863.6 |
| 20°   | 848.6 |
| 21°   | 826.6 |
| 22°   | 790.7 |
| 23°   | 739.7 |
| 24°   | 680.7 |
| 25°   | 619.7 |
| 26°   | 561.8 |
| 27°   | 512.8 |
| 28°   | 474.8 |
| 29°   | 443.8 |
| 30°   | 417.8 |
| 32.5° | 356.8 |
| 35°   | 291.9 |
| 37.5° | 220.9 |
| 40°   | 161.9 |
| 42.5° | 107.0 |
| 45°   | 57.0  |
| 47.5° | 37.0  |
| 50°   | 32.0  |
| 52.5° | 31.0  |
| 55°   | 30.0  |
| 57.5° | 29.0  |
| 60°   | 27.0  |



TEST NUMBER: P436700

CATALOG NUMBER: LSSQ1B08509027D010TExxSL

**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 67.5° | 21.0 |
| 70°   | 19.0 |
| 72.5° | 17.0 |
| 75°   | 14.0 |
| 77.5° | 12.0 |
| 80°   | 9.0  |
| 82.5° | 7.0  |
| 85°   | 4.0  |
| 87.5° | 2.0  |
| 90°   | 0.0  |



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







|       |  |      |
|-------|--|------|
| 62.5° |  | 26.0 |
| 65°   |  | 24.0 |



(END OF REPORT)