

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: P436668

Luminaire Tested: **LSR1B08359030D010TExxMB**

Issue Date: 12/2/2020

Test Information

Test Method: LM-41-14
Report Number: P436668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2010-014-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 12/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR1B08359030D010TExxMB
Description: PORTFOLIO 1INCH CYLINDER, 35 DEG REFLECTOR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 992.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.55
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

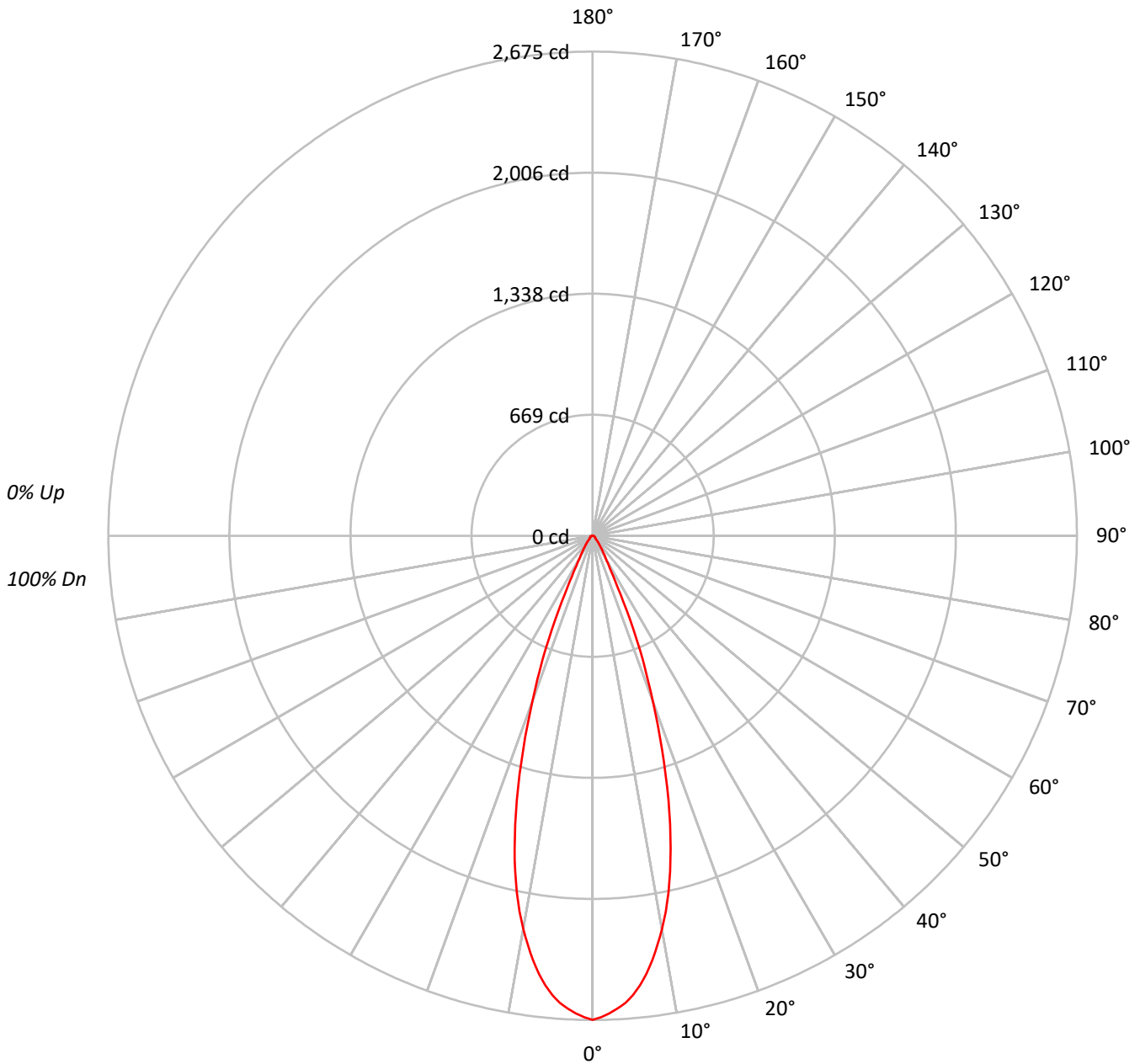
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 96 | 95 | | |
| 2 | 109 | 105 | 102 | 99 | 107 | 103 | 100 | 98 | 100 | 98 | 95 | 97 | 95 | 93 | 95 | 93 | 92 | 90 | | |
| 3 | 105 | 100 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 92 | 90 | 93 | 91 | 88 | 91 | 89 | 87 | 86 | | |
| 4 | 101 | 95 | 90 | 87 | 99 | 94 | 89 | 86 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 82 | | |
| 5 | 97 | 90 | 86 | 82 | 96 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 78 | | |
| 6 | 94 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 80 | 77 | 82 | 79 | 76 | 75 | | |
| 7 | 91 | 83 | 78 | 75 | 89 | 82 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 | | |
| 8 | 88 | 80 | 75 | 72 | 86 | 79 | 75 | 71 | 78 | 74 | 71 | 77 | 74 | 71 | 76 | 73 | 71 | 69 | | |
| 9 | 85 | 77 | 72 | 69 | 84 | 76 | 72 | 69 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 71 | 68 | 67 | | |
| 10 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 72 | 68 | 66 | 65 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 5278632 |
| 5° | 5047595 |
| 10° | 4420394 |
| 15° | 3373872 |
| 20° | 2041604 |
| 25° | 874291 |
| 30° | 337042 |
| 35° | 193945 |
| 40° | 121858 |
| 45° | 75915 |
| 50° | 55572 |
| 55° | 58837 |
| 60° | 59601 |
| 65° | 61174 |
| 70° | 64050 |
| 75° | 61764 |
| 80° | 56826 |
| 85° | 67932 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 232.2 | 23.4 |
| 10°-20° | 442.7 | 44.6 |
| 20°-30° | 201.9 | 20.4 |
| 30°-40° | 53.0 | 5.3 |
| 40°-50° | 22.6 | 2.3 |
| 50°-60° | 15.2 | 1.5 |
| 60°-70° | 13.0 | 1.3 |
| 70°-80° | 8.5 | 0.9 |
| 80°-90° | 2.9 | 0.3 |
| 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° | 876.8 | 88.4 |
| 0°-40° | 929.8 | 93.7 |
| 0°-60° | 967.6 | 97.5 |
| 0°-90° | 992.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 992.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2675 | |
| 5° | 2548 | 232 |
| 15° | 1651 | 443 |
| 25° | 402 | 202 |
| 35° | 80 | 53 |
| 45° | 27 | 23 |
| 55° | 17 | 15 |
| 65° | 13 | 13 |
| 75° | 8 | 9 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2674.7 |
| 1° | 2660.6 |
| 2° | 2640.5 |
| 3° | 2616.3 |
| 4° | 2587.2 |
| 5° | 2547.9 |
| 6° | 2498.6 |
| 7° | 2439.2 |
| 8° | 2366.8 |
| 9° | 2288.3 |
| 10° | 2205.8 |
| 11° | 2115.2 |
| 12° | 2014.6 |
| 13° | 1902.9 |
| 14° | 1781.1 |
| 15° | 1651.3 |
| 16° | 1518.5 |
| 17° | 1379.6 |
| 18° | 1240.7 |
| 19° | 1103.9 |
| 20° | 972.1 |
| 21° | 851.3 |
| 22° | 739.6 |
| 23° | 623.9 |
| 24° | 506.2 |
| 25° | 401.5 |
| 26° | 316.0 |
| 27° | 251.6 |
| 28° | 206.3 |
| 29° | 173.1 |
| 30° | 147.9 |
| 32.5° | 106.7 |
| 35° | 80.5 |
| 37.5° | 60.4 |
| 40° | 47.3 |
| 42.5° | 36.2 |
| 45° | 27.2 |
| 47.5° | 22.1 |
| 50° | 18.1 |
| 52.5° | 18.1 |
| 55° | 17.1 |
| 57.5° | 16.1 |
| 60° | 15.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 12.1 |
| 70° | 11.1 |
| 72.5° | 9.1 |
| 75° | 8.1 |
| 77.5° | 7.0 |
| 80° | 5.0 |
| 82.5° | 4.0 |
| 85° | 3.0 |
| 87.5° | 1.0 |
| 90° | 0.0 |



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— 0°-180°







| | | |
|-------|--|------|
| 62.5° | | 14.1 |
| 65° | | 13.1 |



(END OF REPORT)