

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: HALO COMMERCIAL

Report Number: P303311

Luminaire Tested: **PR6FS24D010 PR6M24MD8FSMW 4000Lm3000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR6FS24D010 PR6M24MD8FSMW 4000Lm3000K  
Description: PR6 MEDIUM LENS WITH, MATTE WHITE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4031.1 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.25  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

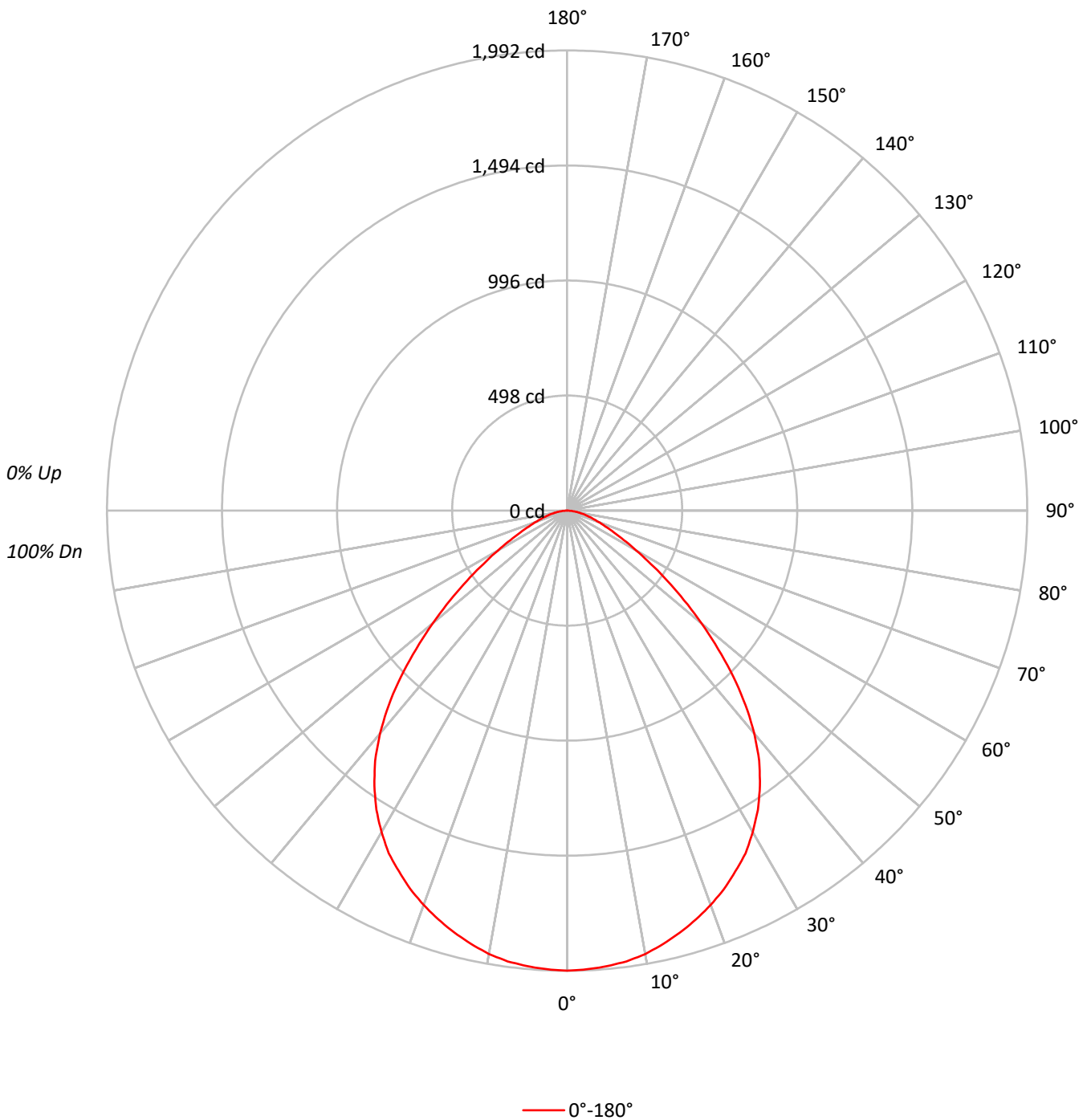
Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 93  | 92  | 90  | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 83  |  | 87  | 84  | 81  |  | 85  | 82  | 79  | 77  |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  |  | 79  | 74  | 71  |  | 77  | 73  | 69  | 67  |
| 4   | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  |  | 72  | 66  | 62  |  | 70  | 65  | 61  | 59  |
| 5   | 82  | 70  | 62  | 57  | 80  | 69  | 62  | 56  | 67  | 61  | 56  |  | 65  | 60  | 55  |  | 64  | 59  | 55  | 53  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 56  | 50  | 61  | 55  | 50  |  | 60  | 54  | 49  |  | 58  | 53  | 49  | 47  |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  |  | 55  | 49  | 44  |  | 54  | 48  | 44  | 42  |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 40  |  | 51  | 45  | 40  |  | 50  | 44  | 40  | 38  |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  |  | 47  | 41  | 37  |  | 46  | 40  | 36  | 35  |
| 10  | 58  | 46  | 39  | 34  | 57  | 46  | 38  | 34  | 45  | 38  | 34  |  | 44  | 38  | 33  |  | 43  | 37  | 33  | 32  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 129933 |
| 5°  | 129663 |
| 10° | 129102 |
| 15° | 127688 |
| 20° | 126122 |
| 25° | 124045 |
| 30° | 121023 |
| 35° | 115866 |
| 40° | 107334 |
| 45° | 94026  |
| 50° | 76985  |
| 55° | 60170  |
| 60° | 45173  |
| 65° | 34224  |
| 70° | 27449  |
| 75° | 23543  |
| 80° | 20476  |
| 85° | 14522  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 188.1  | 4.7       |
| 10°-20°   | 533.2  | 13.2      |
| 20°-30°   | 793.5  | 19.7      |
| 30°-40°   | 905.1  | 22.5      |
| 40°-50°   | 780.5  | 19.4      |
| 50°-60°   | 478.0  | 11.9      |
| 60°-70°   | 227.5  | 5.6       |
| 70°-80°   | 101.0  | 2.5       |
| 80°-90°   | 24.3   | 0.6       |
| 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°    | 1514.7 | 37.6      |
| 0°-40°    | 2419.8 | 60.0      |
| 0°-60°    | 3678.3 | 91.2      |
| 0°-90°    | 4031.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4031.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1992 |      |
| 5°  | 1980 | 188  |
| 15° | 1890 | 533  |
| 25° | 1723 | 793  |
| 35° | 1455 | 905  |
| 45° | 1019 | 781  |
| 55° | 529  | 478  |
| 65° | 222  | 227  |
| 75° | 93   | 101  |
| 85° | 19   | 24   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1991.6 |
| 2.5°  | 1987.7 |
| 5°    | 1979.9 |
| 7.5°  | 1968.3 |
| 10°   | 1948.8 |
| 12.5° | 1921.6 |
| 15°   | 1890.5 |
| 17.5° | 1855.5 |
| 20°   | 1816.6 |
| 22.5° | 1773.8 |
| 25°   | 1723.2 |
| 27.5° | 1672.6 |
| 30°   | 1606.5 |
| 32.5° | 1536.5 |
| 35°   | 1454.8 |
| 37.5° | 1365.3 |
| 40°   | 1260.3 |
| 42.5° | 1143.6 |
| 45°   | 1019.1 |
| 47.5° | 886.9  |
| 50°   | 758.5  |
| 52.5° | 637.9  |
| 55°   | 529.0  |
| 57.5° | 427.9  |
| 60°   | 346.2  |
| 62.5° | 276.2  |
| 65°   | 221.7  |
| 67.5° | 178.9  |
| 70°   | 143.9  |
| 72.5° | 116.7  |
| 75°   | 93.4   |
| 77.5° | 73.9   |
| 80°   | 54.5   |
| 82.5° | 38.9   |
| 85°   | 19.4   |
| 87.5° | 3.9    |
| 90°   | 0.0    |

(END OF REPORT)