

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: P303414

Luminaire Tested: **PR6FS12D010 PR6M12WD8FSMMS 1500Lm3500K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR6FS12D010 PR6M12WD8FSMMS 1500Lm3500K  
Description: PR6 WIDE LENS WITH, MATTE METALLIC SILVER FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1620.3 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.27  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

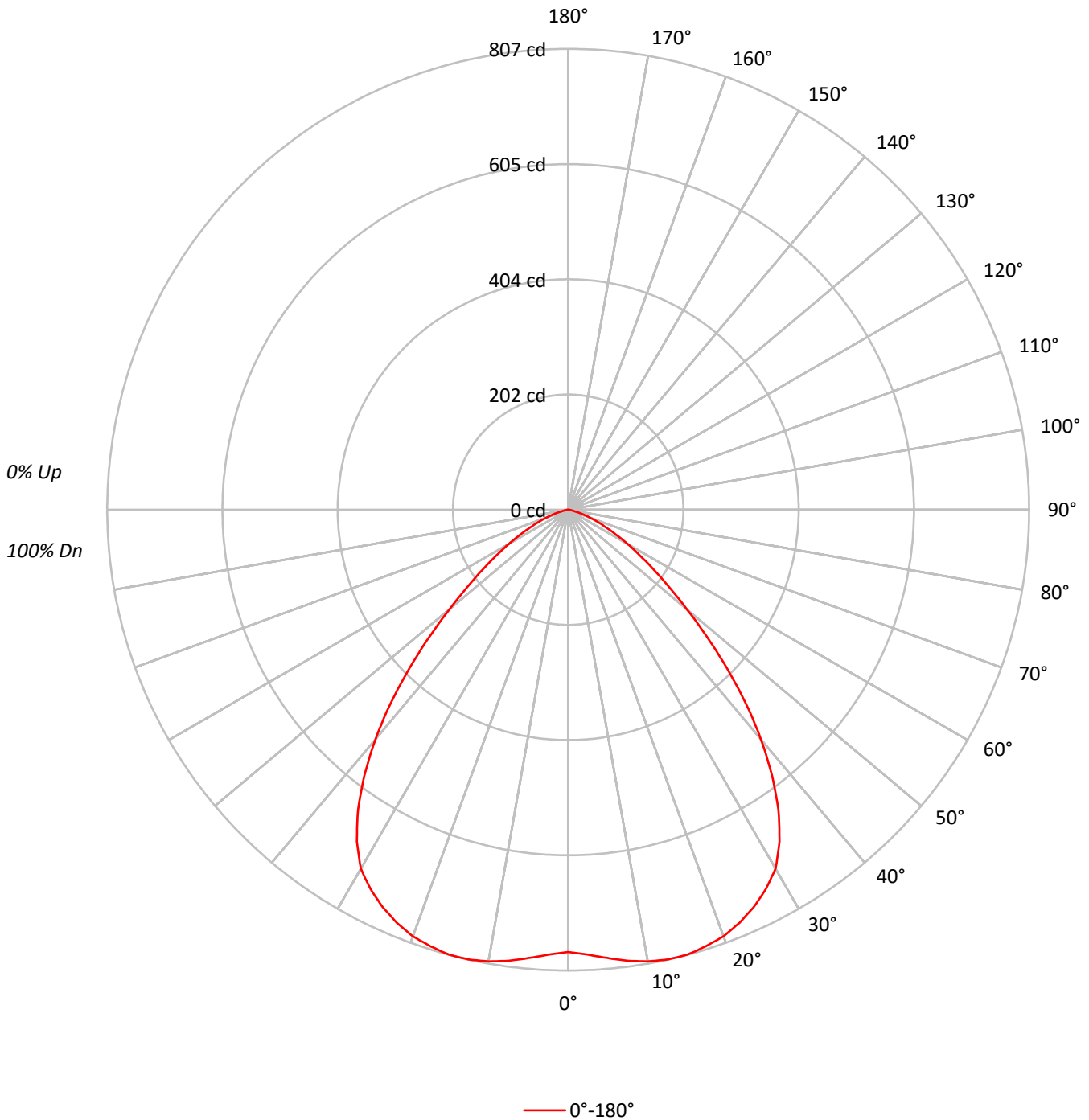
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  |  | 98  | 96  | 94  |  | 94  | 93  | 91  | 90  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 91  | 86  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 86  | 83  | 81  | 79  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  |  | 81  | 77  | 73  |  | 78  | 75  | 72  | 70  |
| 4   | 89  | 79  | 72  | 67  | 87  | 78  | 71  | 66  | 76  | 70  | 65  |  | 74  | 69  | 65  |  | 72  | 67  | 64  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  |  | 67  | 62  | 58  |  | 66  | 61  | 57  | 55  |
| 6   | 77  | 66  | 58  | 53  | 76  | 65  | 58  | 52  | 63  | 57  | 52  |  | 62  | 56  | 52  |  | 60  | 55  | 51  | 49  |
| 7   | 72  | 60  | 53  | 47  | 71  | 60  | 52  | 47  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 50  | 46  | 45  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 47  | 43  |  | 53  | 47  | 42  |  | 51  | 46  | 42  | 40  |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  |  | 49  | 43  | 39  |  | 48  | 42  | 38  | 37  |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  |  | 45  | 40  | 35  |  | 45  | 39  | 35  | 34  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 50535 |
| 5°  | 51613 |
| 10° | 53216 |
| 15° | 54486 |
| 20° | 55188 |
| 25° | 55277 |
| 30° | 54669 |
| 35° | 51076 |
| 40° | 44703 |
| 45° | 36278 |
| 50° | 27577 |
| 55° | 20735 |
| 60° | 15632 |
| 65° | 11207 |
| 70° | 7725  |
| 75° | 4260  |
| 80° | 1916  |
| 85° | 1273  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.7   | 4.7       |
| 10°-20°   | 227.6  | 14.0      |
| 20°-30°   | 353.2  | 21.8      |
| 30°-40°   | 396.6  | 24.5      |
| 40°-50°   | 303.4  | 18.7      |
| 50°-60°   | 166.8  | 10.3      |
| 60°-70°   | 74.7   | 4.6       |
| 70°-80°   | 20.2   | 1.2       |
| 80°-90°   | 2.1    | 0.1       |
| 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°    | 656.6  | 40.5      |
| 0°-40°    | 1053.1 | 65.0      |
| 0°-60°    | 1523.4 | 94.0      |
| 0°-90°    | 1620.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1620.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 775 |      |
| 5°  | 788 | 76   |
| 15° | 807 | 228  |
| 25° | 768 | 353  |
| 35° | 641 | 397  |
| 45° | 393 | 303  |
| 55° | 182 | 167  |
| 65° | 73  | 75   |
| 75° | 17  | 20   |
| 85° | 2   | 2    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 774.6 |
| 2.5°  | 779.7 |
| 5°    | 788.1 |
| 7.5°  | 796.6 |
| 10°   | 803.3 |
| 12.5° | 806.7 |
| 15°   | 806.7 |
| 17.5° | 801.6 |
| 20°   | 794.9 |
| 22.5° | 783.1 |
| 25°   | 767.9 |
| 27.5° | 749.3 |
| 30°   | 725.7 |
| 32.5° | 688.6 |
| 35°   | 641.3 |
| 37.5° | 585.6 |
| 40°   | 524.9 |
| 42.5° | 460.7 |
| 45°   | 393.2 |
| 47.5° | 329.1 |
| 50°   | 271.7 |
| 52.5° | 222.8 |
| 55°   | 182.3 |
| 57.5° | 148.5 |
| 60°   | 119.8 |
| 62.5° | 94.5  |
| 65°   | 72.6  |
| 67.5° | 55.7  |
| 70°   | 40.5  |
| 72.5° | 27.0  |
| 75°   | 16.9  |
| 77.5° | 10.1  |
| 80°   | 5.1   |
| 82.5° | 3.4   |
| 85°   | 1.7   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)