

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: P303319

Luminaire Tested: **PR6FS12D010 PR6M12MD8FSMMS 1000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR6FS12D010 PR6M12MD8FSMMS 1000Lm4000K  
Description: PR6 MEDIUM LENS WITH, MATTE METALLIC SILVER FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1222.5 lumens  
Efficiency: N/A  
Efficacy: 117.6 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

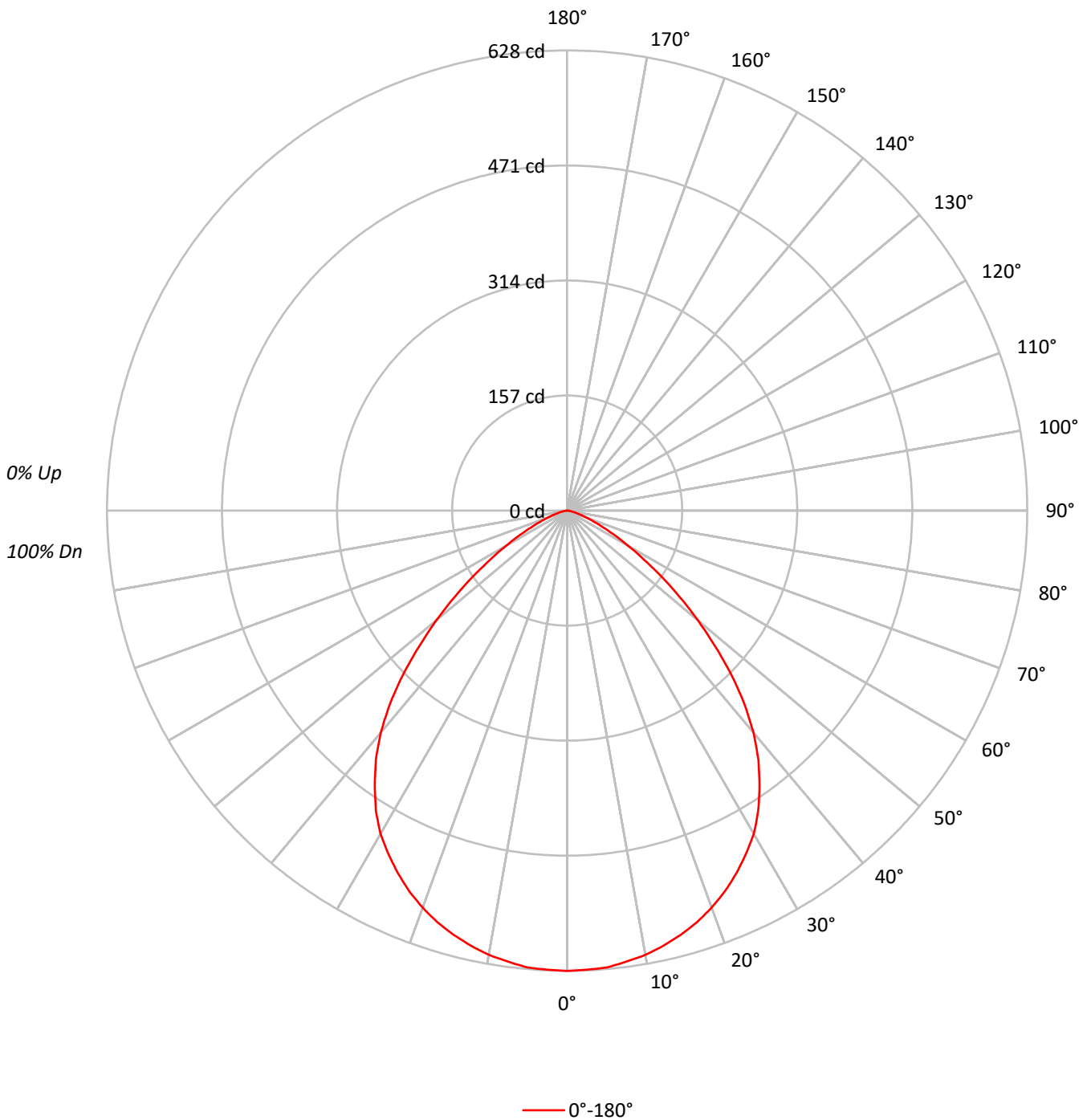
Input Watts (W): 10.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 61  |
| 5   | 83  | 72  | 64  | 58  | 81  | 71  | 63  | 58  | 69  | 62  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |
| 6   | 77  | 65  | 58  | 52  | 75  | 64  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |
| 8   | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 45  | 41  | 40  |
| 9   | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 40991 |
| 5°  | 40984 |
| 10° | 40788 |
| 15° | 40471 |
| 20° | 40025 |
| 25° | 39311 |
| 30° | 38382 |
| 35° | 36453 |
| 40° | 33700 |
| 45° | 29275 |
| 50° | 23608 |
| 55° | 17835 |
| 60° | 12539 |
| 65° | 8398  |
| 70° | 5303  |
| 75° | 3176  |
| 80° | 1916  |
| 85° | 973   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.4   | 4.9       |
| 10°-20°   | 169.0  | 13.8      |
| 20°-30°   | 251.4  | 20.6      |
| 30°-40°   | 285.1  | 23.3      |
| 40°-50°   | 242.7  | 19.8      |
| 50°-60°   | 142.0  | 11.6      |
| 60°-70°   | 56.4   | 4.6       |
| 70°-80°   | 14.9   | 1.2       |
| 80°-90°   | 1.7    | 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°    | 479.7  | 39.2      |
| 0°-40°    | 764.8  | 62.6      |
| 0°-60°    | 1149.5 | 94.0      |
| 0°-90°    | 1222.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1222.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 628 |      |
| 5°  | 626 | 59   |
| 15° | 599 | 169  |
| 25° | 546 | 251  |
| 35° | 458 | 285  |
| 45° | 317 | 243  |
| 55° | 157 | 142  |
| 65° | 54  | 56   |
| 75° | 13  | 15   |
| 85° | 1   | 2    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 628.3 |
| 2.5°  | 627.1 |
| 5°    | 625.8 |
| 7.5°  | 620.7 |
| 10°   | 615.7 |
| 12.5° | 608.1 |
| 15°   | 599.2 |
| 17.5° | 589.1 |
| 20°   | 576.5 |
| 22.5° | 562.6 |
| 25°   | 546.1 |
| 27.5° | 528.4 |
| 30°   | 509.5 |
| 32.5° | 485.5 |
| 35°   | 457.7 |
| 37.5° | 428.6 |
| 40°   | 395.7 |
| 42.5° | 357.8 |
| 45°   | 317.3 |
| 47.5° | 273.1 |
| 50°   | 232.6 |
| 52.5° | 193.4 |
| 55°   | 156.8 |
| 57.5° | 123.9 |
| 60°   | 96.1  |
| 62.5° | 73.3  |
| 65°   | 54.4  |
| 67.5° | 39.2  |
| 70°   | 27.8  |
| 72.5° | 20.2  |
| 75°   | 12.6  |
| 77.5° | 7.6   |
| 80°   | 5.1   |
| 82.5° | 2.5   |
| 85°   | 1.3   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)