

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: P303361

Luminaire Tested: **PR6FS24D010 PR6M24MD8FSBZ 2000Lm4000K**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P303361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PR6FS24D010 PR6M24MD8FSBZ 2000Lm4000K  
Description: PR6 MEDIUM LENS WITH, BRONZE FINISH  
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2257.4 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

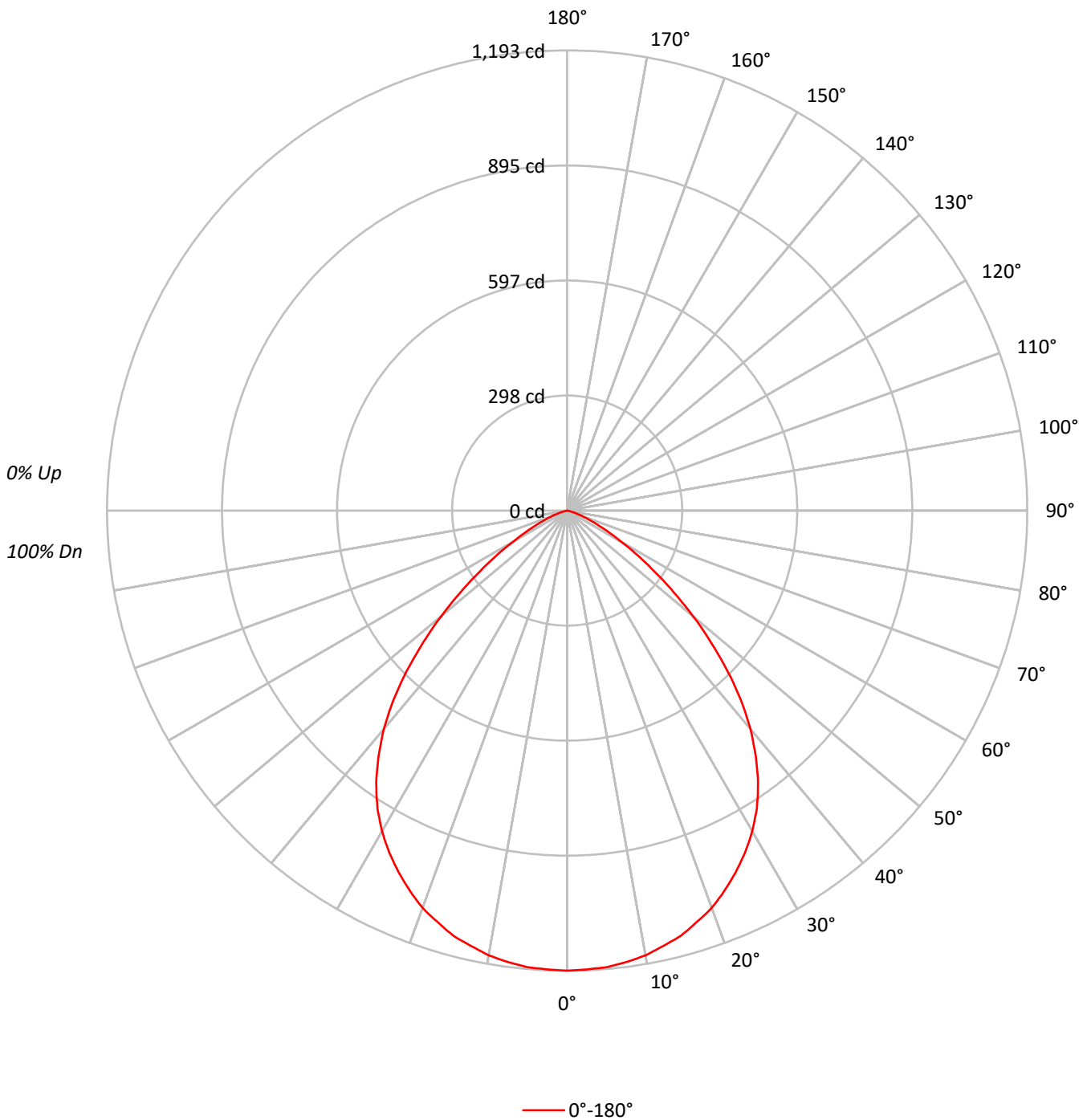
Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  |  | 98  | 96  | 94  |  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 86  | 84  | 81  | 79  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  |  | 81  | 77  | 73  |  | 79  | 75  | 72  | 70  |
| 4   | 90  | 80  | 73  | 67  | 88  | 78  | 72  | 67  | 76  | 70  | 66  |  | 74  | 69  | 65  |  | 72  | 68  | 64  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  |  | 68  | 62  | 58  |  | 66  | 61  | 57  | 55  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  |  | 62  | 56  | 52  |  | 61  | 55  | 51  | 50  |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 47  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 51  | 46  | 45  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 47  | 43  |  | 53  | 47  | 42  |  | 52  | 46  | 42  | 41  |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  |  | 49  | 43  | 39  |  | 48  | 43  | 39  | 37  |
| 10  | 60  | 48  | 41  | 36  | 59  | 47  | 40  | 36  | 46  | 40  | 36  |  | 45  | 40  | 35  |  | 45  | 39  | 35  | 34  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 77826 |
| 5°  | 77802 |
| 10° | 77549 |
| 15° | 77059 |
| 20° | 76107 |
| 25° | 74447 |
| 30° | 72305 |
| 35° | 68741 |
| 40° | 62946 |
| 45° | 54233 |
| 50° | 43298 |
| 55° | 31598 |
| 60° | 21360 |
| 65° | 13400 |
| 70° | 7573  |
| 75° | 3126  |
| 80° | 0     |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.8  | 5.0       |
| 10°-20°   | 321.3  | 14.2      |
| 20°-30°   | 475.9  | 21.1      |
| 30°-40°   | 536.2  | 23.8      |
| 40°-50°   | 450.4  | 20.0      |
| 50°-60°   | 253.6  | 11.2      |
| 60°-70°   | 90.9   | 4.0       |
| 70°-80°   | 16.3   | 0.7       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 909.9  | 40.3      |
| 0°-40°    | 1446.1 | 64.1      |
| 0°-60°    | 2150.2 | 95.3      |
| 0°-90°    | 2257.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2257.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1193 |      |
| 5°  | 1188 | 113  |
| 15° | 1141 | 321  |
| 25° | 1034 | 476  |
| 35° | 863  | 536  |
| 45° | 588  | 450  |
| 55° | 278  | 254  |
| 65° | 87   | 91   |
| 75° | 12   | 16   |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1192.9 |
| 2.5°  | 1190.5 |
| 5°    | 1188.0 |
| 7.5°  | 1180.5 |
| 10°   | 1170.6 |
| 12.5° | 1155.7 |
| 15°   | 1140.9 |
| 17.5° | 1118.5 |
| 20°   | 1096.2 |
| 22.5° | 1066.5 |
| 25°   | 1034.2 |
| 27.5° | 999.5  |
| 30°   | 959.8  |
| 32.5° | 915.2  |
| 35°   | 863.1  |
| 37.5° | 803.6  |
| 40°   | 739.1  |
| 42.5° | 667.2  |
| 45°   | 587.8  |
| 47.5° | 505.9  |
| 50°   | 426.6  |
| 52.5° | 349.7  |
| 55°   | 277.8  |
| 57.5° | 218.3  |
| 60°   | 163.7  |
| 62.5° | 121.5  |
| 65°   | 86.8   |
| 67.5° | 59.5   |
| 70°   | 39.7   |
| 72.5° | 24.8   |
| 75°   | 12.4   |
| 77.5° | 5.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)