

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: HALO COMMERCIAL

Report Number: P581982

Luminaire Tested: **HC6R20D010-HM60525940-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC6R20D010-HM60525940-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2073.1 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 0.96  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

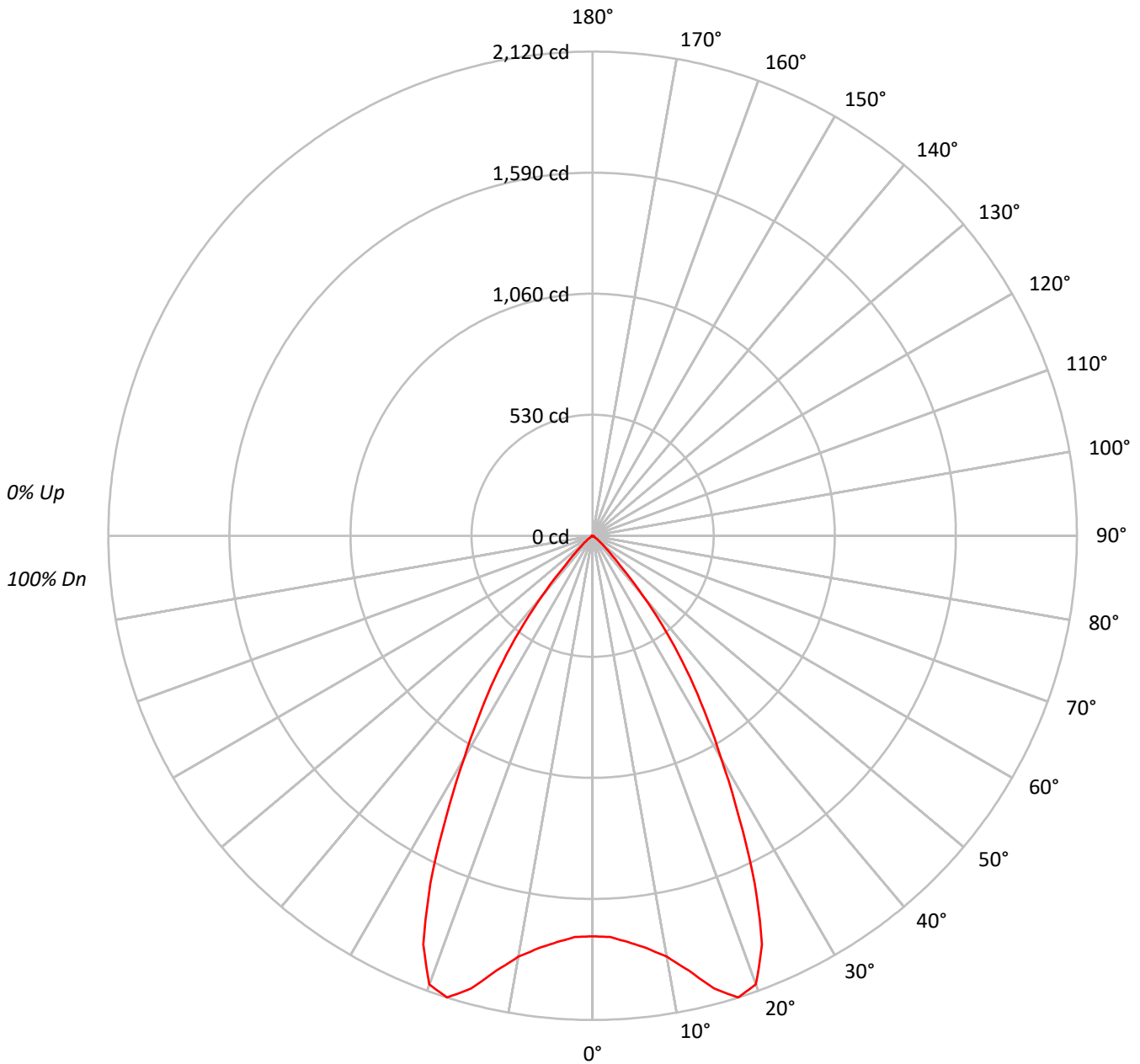
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 0 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |
| 1   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 94  |    |    |   |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 92  | 95  | 93  | 91  | 92  | 90  | 89  | 87  |    |    |   |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 90  | 86  | 84  | 87  | 85  | 82  | 81  |    |    |   |
| 4   | 97  | 90  | 84  | 80  | 95  | 89  | 83  | 79  | 86  | 82  | 79  | 84  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |   |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 77  | 73  | 81  | 76  | 73  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |    |    |   |
| 6   | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |    |    |   |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 67  | 63  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 65  | 62  | 61  |    |    |   |
| 8   | 79  | 69  | 63  | 59  | 78  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 58  | 57  |    |    |   |
| 9   | 75  | 65  | 59  | 55  | 74  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 53  |    |    |   |
| 10  | 72  | 62  | 56  | 52  | 71  | 61  | 56  | 52  | 60  | 55  | 52  | 60  | 55  | 52  | 59  | 55  | 51  | 50  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 96155  |
| 5°  | 98261  |
| 10° | 104156 |
| 15° | 116425 |
| 20° | 121904 |
| 25° | 101643 |
| 30° | 71131  |
| 35° | 47904  |
| 40° | 24675  |
| 45° | 8575   |
| 50° | 3821   |
| 55° | 1252   |
| 60° | 570    |
| 65° | 519    |
| 70° | 417    |
| 75° | 297    |
| 80° | 442    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.1  | 8.3       |
| 10°-20°   | 578.0  | 27.9      |
| 20°-30°   | 751.2  | 36.2      |
| 30°-40°   | 443.7  | 21.4      |
| 40°-50°   | 105.9  | 5.1       |
| 50°-60°   | 15.6   | 0.8       |
| 60°-70°   | 3.9    | 0.2       |
| 70°-80°   | 1.6    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 1502.3 | 72.5      |
| 0°-40°    | 1946.0 | 93.9      |
| 0°-60°    | 2067.4 | 99.7      |
| 0°-90°    | 2073.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2073.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1754 |      |
| 5°  | 1786 | 173  |
| 15° | 2051 | 578  |
| 25° | 1680 | 751  |
| 35° | 716  | 444  |
| 45° | 111  | 106  |
| 55° | 13   | 16   |
| 65° | 4    | 4    |
| 75° | 1    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1754.0 |
| 2.5°  | 1758.0 |
| 5°    | 1785.6 |
| 7.5°  | 1821.2 |
| 10°   | 1871.1 |
| 12.5° | 1950.1 |
| 15°   | 2051.4 |
| 17.5° | 2119.8 |
| 20°   | 2089.6 |
| 22.5° | 1937.0 |
| 25°   | 1680.4 |
| 27.5° | 1386.9 |
| 30°   | 1123.7 |
| 32.5° | 909.2  |
| 35°   | 715.8  |
| 37.5° | 526.4  |
| 40°   | 344.8  |
| 42.5° | 188.2  |
| 45°   | 110.6  |
| 47.5° | 68.4   |
| 50°   | 44.8   |
| 52.5° | 26.3   |
| 55°   | 13.1   |
| 57.5° | 6.6    |
| 60°   | 5.2    |
| 62.5° | 5.2    |
| 65°   | 4.0    |
| 67.5° | 2.6    |
| 70°   | 2.6    |
| 72.5° | 1.4    |
| 75°   | 1.4    |
| 77.5° | 1.4    |
| 80°   | 1.4    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)