

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: P593381

Luminaire Tested: **HC6R55D010-HM64560850-62RMDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593381  
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: HC6R55D010-HM64560850-62RMDC  
Description: HALO COMMERCIAL 6" ROUND, RETROFIT FRAME, WITH 6" MEDIUM DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6263.5 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

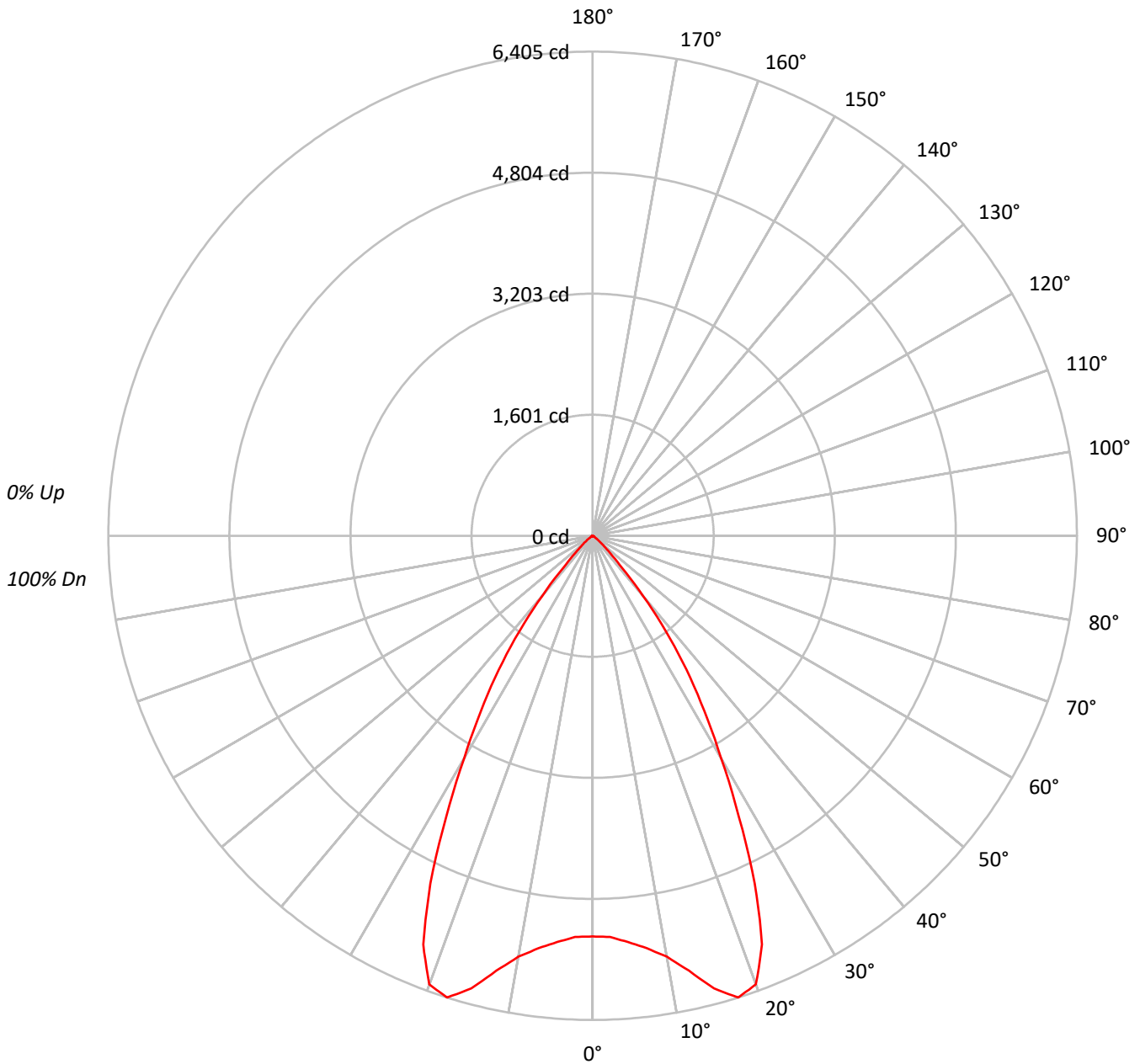
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P593381

CATALOG NUMBER: HC6R55D010-HM64560850-62RMDC

### Luminous Intensity Polar Plot





TEST NUMBER: P593381

CATALOG NUMBER: HC6R55D010-HM64560850-62RMDC

**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°  | 290525 |
| 5°  | 296890 |
| 10° | 314701 |
| 15° | 351767 |
| 20° | 368314 |
| 25° | 307094 |
| 30° | 214919 |
| 35° | 144741 |
| 40° | 74540  |
| 45° | 25894  |
| 50° | 11531  |
| 55° | 3794   |
| 60° | 1743   |
| 65° | 1544   |
| 70° | 1266   |
| 75° | 847    |
| 80° | 1263   |
| 85° | 0      |



TEST NUMBER: P593381

CATALOG NUMBER: HC6R55D010-HM64560850-62RMDC

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 522.9  | 8.3       |
| 10°-20°   | 1746.3 | 27.9      |
| 20°-30°   | 2269.6 | 36.2      |
| 30°-40°   | 1340.6 | 21.4      |
| 40°-50°   | 319.8  | 5.1       |
| 50°-60°   | 47.1   | 0.8       |
| 60°-70°   | 11.7   | 0.2       |
| 70°-80°   | 4.7    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 4538.9 | 72.5      |
| 0°-40°    | 5879.5 | 93.9      |
| 0°-60°    | 6246.5 | 99.7      |
| 0°-90°    | 6263.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6263.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5300 |      |
| 5°  | 5395 | 523  |
| 15° | 6198 | 1746 |
| 25° | 5077 | 2270 |
| 35° | 2163 | 1341 |
| 45° | 334  | 320  |
| 55° | 40   | 47   |
| 65° | 12   | 12   |
| 75° | 4    | 5    |
| 85° | 0    | 1    |
| 90° | 0    |      |



TEST NUMBER: P593381

CATALOG NUMBER: HC6R55D010-HM64560850-62RMDC

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5299.6 |
| 2.5°  | 5311.6 |
| 5°    | 5395.1 |
| 7.5°  | 5502.4 |
| 10°   | 5653.4 |
| 12.5° | 5891.9 |
| 15°   | 6198.1 |
| 17.5° | 6404.9 |
| 20°   | 6313.4 |
| 22.5° | 5852.2 |
| 25°   | 5077.0 |
| 27.5° | 4190.4 |
| 30°   | 3395.2 |
| 32.5° | 2747.2 |
| 35°   | 2162.8 |
| 37.5° | 1590.3 |
| 40°   | 1041.6 |
| 42.5° | 568.5  |
| 45°   | 334.0  |
| 47.5° | 206.8  |
| 50°   | 135.2  |
| 52.5° | 79.5   |
| 55°   | 39.7   |
| 57.5° | 19.9   |
| 60°   | 15.9   |
| 62.5° | 15.9   |
| 65°   | 11.9   |
| 67.5° | 7.9    |
| 70°   | 7.9    |
| 72.5° | 4.0    |
| 75°   | 4.0    |
| 77.5° | 4.0    |
| 80°   | 4.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)