

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P582274

Luminaire Tested: **HCC6S35D010SL-HM63040827-61NDC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S35D010SL-HM63040827-61NDC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

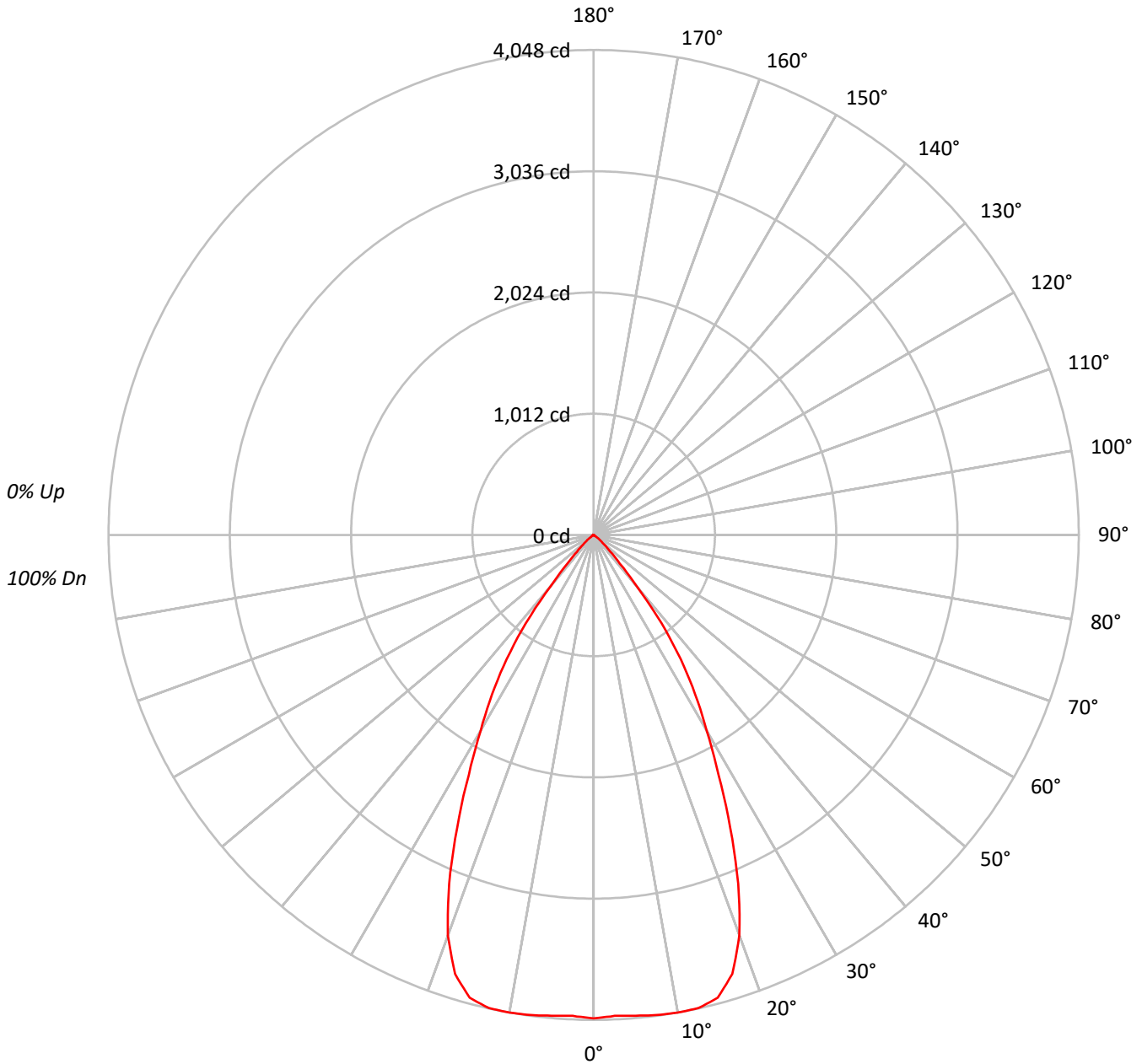
Lumens per Lamp: N/A  
Luminaire Lumens: 3704.6 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.7  
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  | 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 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 97  | 96  | 94  |    |    |   |
| 2   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 87  |    |    |   |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  | 90  | 87  | 84  | 88  | 85  | 83  | 82  |    |    |   |
| 4   | 98  | 90  | 85  | 81  | 96  | 89  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 79  | 83  | 80  | 78  | 76  |    |    |   |
| 5   | 93  | 85  | 79  | 75  | 91  | 84  | 78  | 75  | 82  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 71  |    |    |   |
| 6   | 88  | 80  | 74  | 70  | 87  | 79  | 73  | 69  | 77  | 73  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 67  |    |    |   |
| 7   | 84  | 75  | 69  | 65  | 83  | 74  | 69  | 65  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 64  | 62  |    |    |   |
| 8   | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 64  | 60  | 67  | 63  | 60  | 59  |    |    |   |
| 9   | 76  | 67  | 61  | 57  | 75  | 66  | 61  | 57  | 65  | 60  | 57  | 65  | 60  | 57  | 64  | 60  | 56  | 55  |    |    |   |
| 10  | 73  | 63  | 58  | 54  | 72  | 63  | 57  | 54  | 62  | 57  | 54  | 61  | 57  | 53  | 61  | 56  | 53  | 52  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 221232 |
| 5°  | 221676 |
| 10° | 225319 |
| 15° | 226965 |
| 20° | 207475 |
| 25° | 163032 |
| 30° | 119335 |
| 35° | 84651  |
| 40° | 40039  |
| 45° | 15273  |
| 50° | 6848   |
| 55° | 1864   |
| 60° | 811    |
| 65° | 636    |
| 70° | 401    |
| 75° | 530    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 385.4  | 10.4      |
| 10°-20°   | 1105.3 | 29.8      |
| 20°-30°   | 1229.5 | 33.2      |
| 30°-40°   | 768.1  | 20.7      |
| 40°-50°   | 182.5  | 4.9       |
| 50°-60°   | 26.1   | 0.7       |
| 60°-70°   | 5.5    | 0.1       |
| 70°-80°   | 2.3    | 0.1       |
| 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°    | 2720.1 | 73.4      |
| 0°-40°    | 3488.2 | 94.2      |
| 0°-60°    | 3696.8 | 99.8      |
| 0°-90°    | 3704.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3704.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4036 |      |
| 5°  | 4028 | 385  |
| 15° | 3999 | 1105 |
| 25° | 2695 | 1229 |
| 35° | 1265 | 768  |
| 45° | 197  | 182  |
| 55° | 20   | 26   |
| 65° | 5    | 5    |
| 75° | 2    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4035.6 |
| 2.5°  | 4018.6 |
| 5°    | 4028.3 |
| 7.5°  | 4042.8 |
| 10°   | 4047.7 |
| 12.5° | 4045.3 |
| 15°   | 3999.1 |
| 17.5° | 3843.4 |
| 20°   | 3556.4 |
| 22.5° | 3152.5 |
| 25°   | 2695.3 |
| 27.5° | 2257.4 |
| 30°   | 1885.2 |
| 32.5° | 1576.3 |
| 35°   | 1264.9 |
| 37.5° | 929.3  |
| 40°   | 559.5  |
| 42.5° | 323.5  |
| 45°   | 197.0  |
| 47.5° | 126.5  |
| 50°   | 80.3   |
| 52.5° | 46.2   |
| 55°   | 19.5   |
| 57.5° | 9.7    |
| 60°   | 7.4    |
| 62.5° | 7.4    |
| 65°   | 4.9    |
| 67.5° | 4.9    |
| 70°   | 2.5    |
| 72.5° | 2.5    |
| 75°   | 2.5    |
| 77.5° | 2.5    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

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Scaled Data Report



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— 0°-180°

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