

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: P580624

Luminaire Tested: **HCC4S40D010SL-HM43040927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S40D010SL-HM43040927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

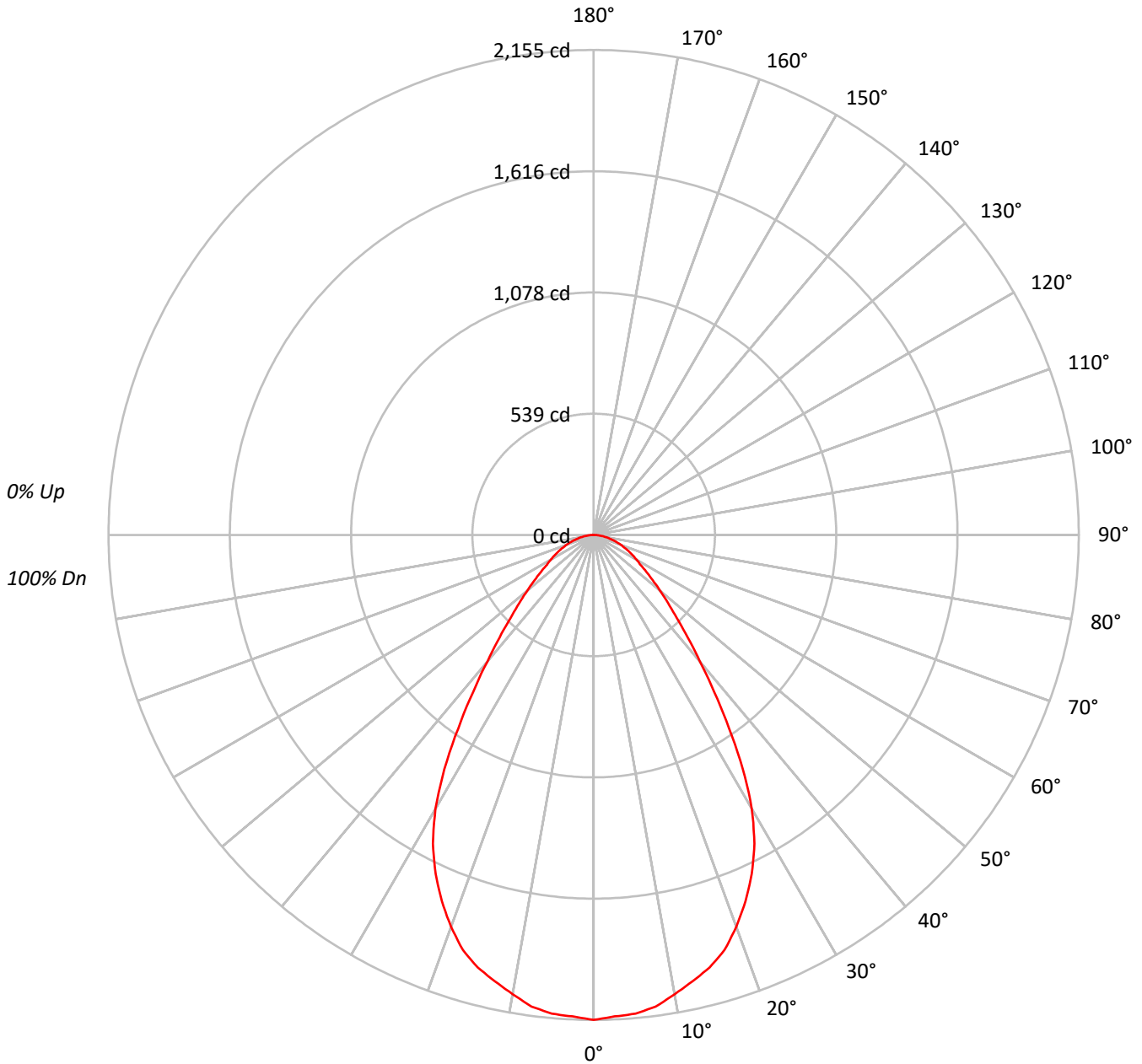
Lumens per Lamp: N/A
Luminaire Lumens: 3135.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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 | | | 100 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | | 79 |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | 70 |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 73 | 67 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 63 | | | 63 |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 63 | 59 | 57 | | | 57 |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 54 | 52 | | | 52 |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 49 | 58 | 53 | 49 | 47 | | | 47 |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 45 | 54 | 49 | 45 | 44 | | | 44 |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 | | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 265797 |
| 5° | 264386 |
| 10° | 259552 |
| 15° | 254091 |
| 20° | 243215 |
| 25° | 226166 |
| 30° | 200167 |
| 35° | 157971 |
| 40° | 118234 |
| 45° | 90951 |
| 50° | 73782 |
| 55° | 61181 |
| 60° | 54124 |
| 65° | 50083 |
| 70° | 46198 |
| 75° | 42415 |
| 80° | 38570 |
| 85° | 30711 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 201.9 | 6.4 |
| 10°-20° | 558.0 | 17.8 |
| 20°-30° | 757.7 | 24.2 |
| 30°-40° | 656.3 | 20.9 |
| 40°-50° | 412.1 | 13.1 |
| 50°-60° | 259.2 | 8.3 |
| 60°-70° | 170.3 | 5.4 |
| 70°-80° | 93.9 | 3.0 |
| 80°-90° | 25.7 | 0.8 |
| 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° | 1517.6 | 48.4 |
| 0°-40° | 2173.9 | 69.3 |
| 0°-60° | 2845.2 | 90.8 |
| 0°-90° | 3135.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3135.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2155 | |
| 5° | 2135 | 202 |
| 15° | 1990 | 558 |
| 25° | 1662 | 758 |
| 35° | 1049 | 656 |
| 45° | 521 | 412 |
| 55° | 284 | 259 |
| 65° | 172 | 170 |
| 75° | 89 | 94 |
| 85° | 22 | 26 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2154.9 |
| 2.5° | 2141.8 |
| 5° | 2135.3 |
| 7.5° | 2113.6 |
| 10° | 2072.3 |
| 12.5° | 2031.0 |
| 15° | 1989.8 |
| 17.5° | 1933.3 |
| 20° | 1852.9 |
| 22.5° | 1761.7 |
| 25° | 1661.8 |
| 27.5° | 1546.6 |
| 30° | 1405.4 |
| 32.5° | 1233.9 |
| 35° | 1049.1 |
| 37.5° | 879.8 |
| 40° | 734.3 |
| 42.5° | 619.1 |
| 45° | 521.4 |
| 47.5° | 447.5 |
| 50° | 384.5 |
| 52.5° | 330.1 |
| 55° | 284.5 |
| 57.5° | 245.5 |
| 60° | 219.4 |
| 62.5° | 195.5 |
| 65° | 171.6 |
| 67.5° | 147.7 |
| 70° | 128.1 |
| 72.5° | 106.5 |
| 75° | 89.0 |
| 77.5° | 69.5 |
| 80° | 54.3 |
| 82.5° | 36.9 |
| 85° | 21.7 |
| 87.5° | 8.7 |
| 90° | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)