

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: P592739

Luminaire Tested: **HCC4S30D010SL-HM43040850-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC4S30D010SL-HM43040850-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

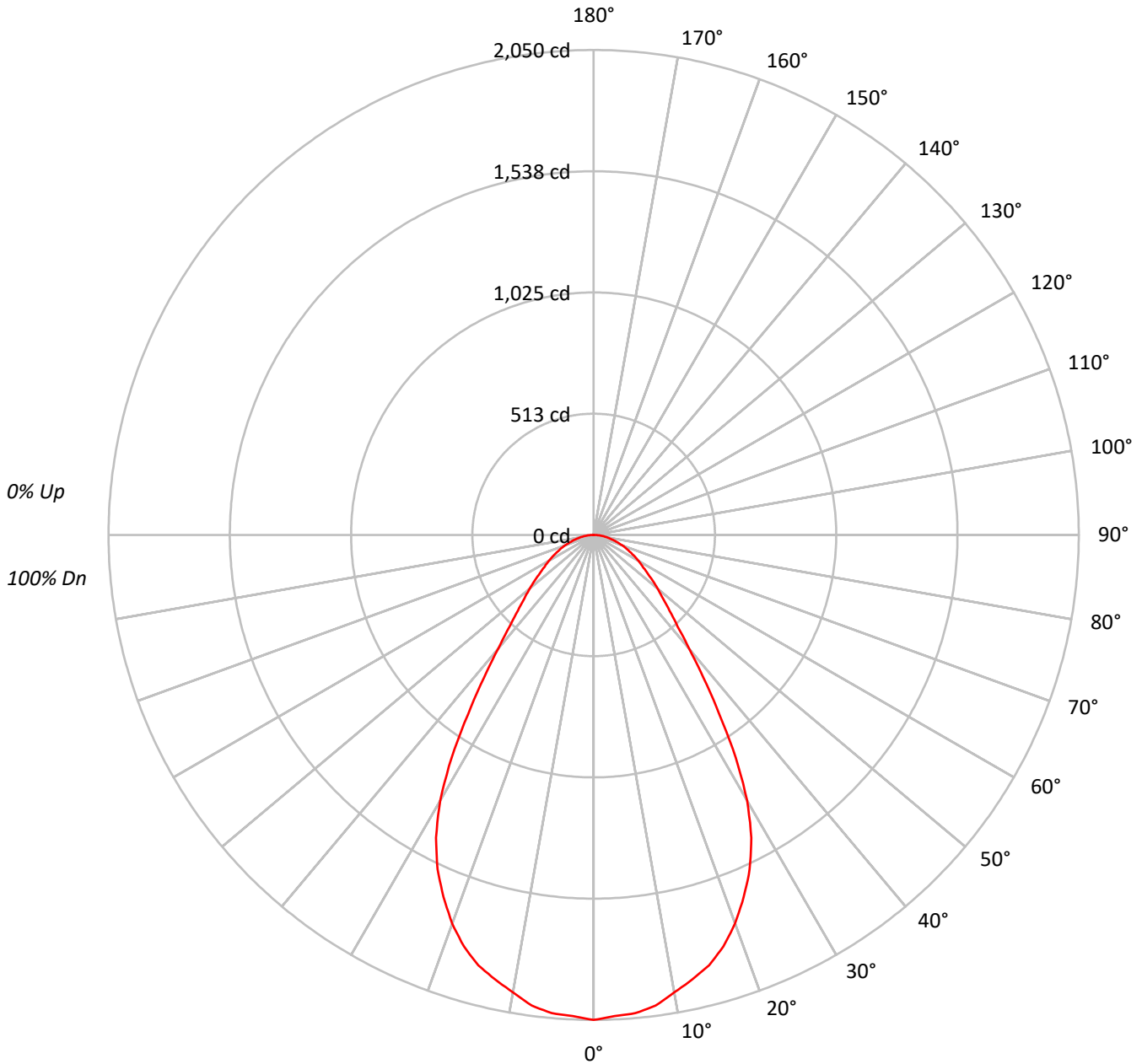
Lumens per Lamp: N/A
Luminaire Lumens: 2911.1 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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 | | | |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 78 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | | |
| 5 | 84 | 74 | 66 | 61 | 82 | 72 | 66 | 60 | 71 | 64 | 60 | 69 | 63 | 59 | 67 | 62 | 59 | 57 | | | |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 52 | | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 49 | 58 | 53 | 49 | 47 | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 45 | 54 | 49 | 45 | 44 | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 252859 |
| 5° | 251286 |
| 10° | 245938 |
| 15° | 240491 |
| 20° | 229380 |
| 25° | 212325 |
| 30° | 184685 |
| 35° | 139465 |
| 40° | 101070 |
| 45° | 78985 |
| 50° | 67527 |
| 55° | 58428 |
| 60° | 53828 |
| 65° | 49237 |
| 70° | 46017 |
| 75° | 42177 |
| 80° | 39494 |
| 85° | 37787 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 191.7 | 6.6 |
| 10°-20° | 527.5 | 18.1 |
| 20°-30° | 709.4 | 24.4 |
| 30°-40° | 583.3 | 20.0 |
| 40°-50° | 358.2 | 12.3 |
| 50°-60° | 247.9 | 8.5 |
| 60°-70° | 169.0 | 5.8 |
| 70°-80° | 94.1 | 3.2 |
| 80°-90° | 30.0 | 1.0 |
| 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° | 1428.6 | 49.1 |
| 0°-40° | 2011.9 | 69.1 |
| 0°-60° | 2618.0 | 89.9 |
| 0°-90° | 2911.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2911.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2050 | |
| 5° | 2030 | 192 |
| 15° | 1883 | 528 |
| 25° | 1560 | 709 |
| 35° | 926 | 583 |
| 45° | 453 | 358 |
| 55° | 272 | 248 |
| 65° | 169 | 169 |
| 75° | 88 | 94 |
| 85° | 27 | 30 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2050.0 |
| 2.5° | 2035.6 |
| 5° | 2029.5 |
| 7.5° | 2006.8 |
| 10° | 1963.6 |
| 12.5° | 1924.5 |
| 15° | 1883.3 |
| 17.5° | 1823.6 |
| 20° | 1747.5 |
| 22.5° | 1656.9 |
| 25° | 1560.1 |
| 27.5° | 1442.8 |
| 30° | 1296.7 |
| 32.5° | 1117.6 |
| 35° | 926.2 |
| 37.5° | 761.5 |
| 40° | 627.7 |
| 42.5° | 524.9 |
| 45° | 452.8 |
| 47.5° | 397.3 |
| 50° | 351.9 |
| 52.5° | 310.8 |
| 55° | 271.7 |
| 57.5° | 242.9 |
| 60° | 218.2 |
| 62.5° | 193.5 |
| 65° | 168.7 |
| 67.5° | 148.2 |
| 70° | 127.6 |
| 72.5° | 107.0 |
| 75° | 88.5 |
| 77.5° | 69.9 |
| 80° | 55.6 |
| 82.5° | 41.2 |
| 85° | 26.7 |
| 87.5° | 14.4 |
| 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)