

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: P593314

Luminaire Tested: **HCC6S45D010MB-HM64560850-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010MB-HM64560850-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

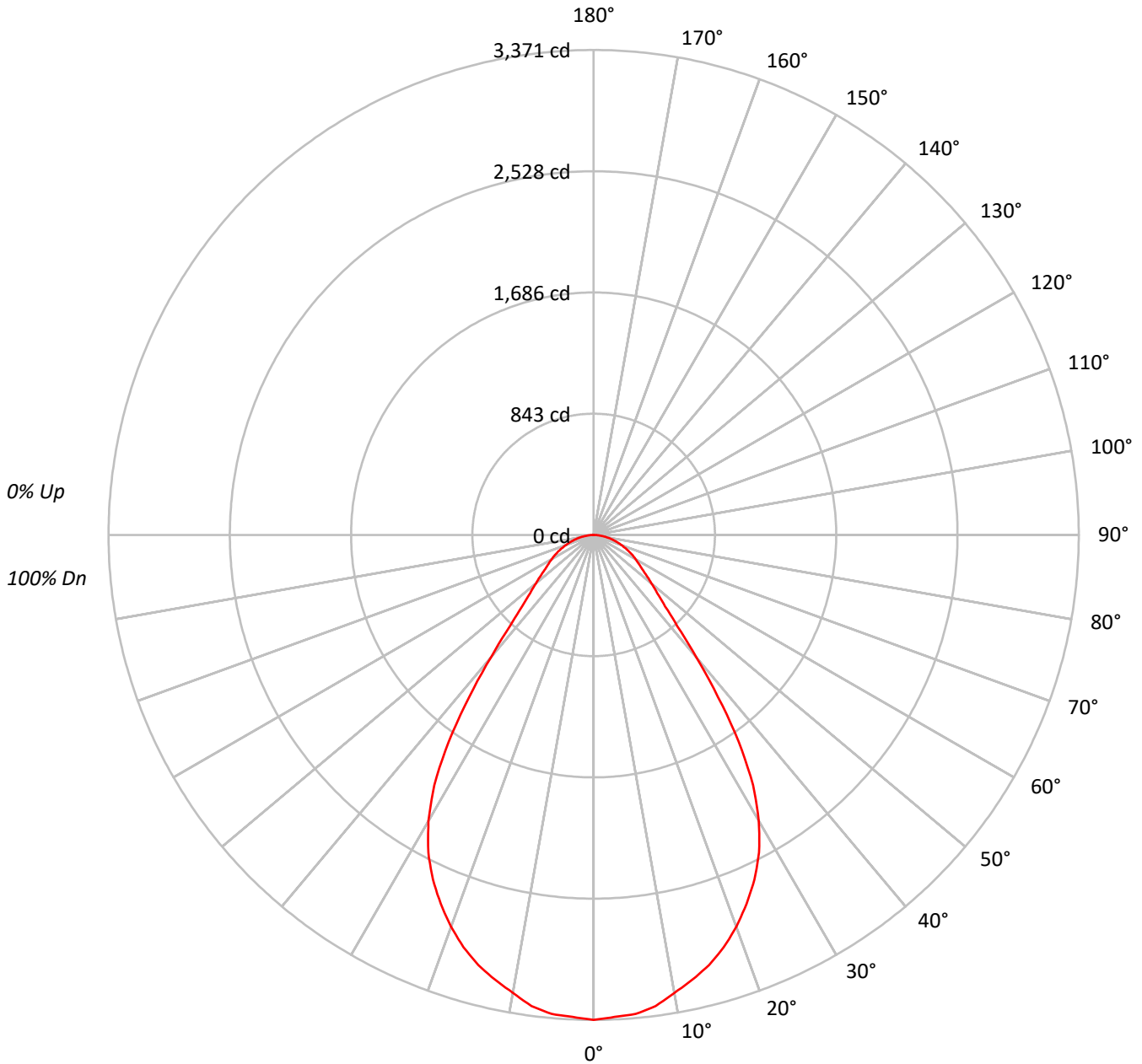
Lumens per Lamp: N/A
Luminaire Lumens: 4879.6 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | | | | | | | | | | | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 83 | 86 | 83 | 81 | 79 | | | | | | | | | | | | | | | | | | | |
| 3 | 97 | 88 | 82 | 77 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 4 | 90 | 81 | 73 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | | | | | | | | | | | | | | | | | |
| 5 | 84 | 74 | 67 | 61 | 83 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 57 | | | | | | | | | | | | | | | | | | | |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 66 | 59 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 | | | | | | | | | | | | | | | | | | | |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 56 | 50 | 46 | 54 | 49 | 46 | 44 | | | | | | | | | | | | | | | | | | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 41 | | | | | | | | | | | | | | | | | | | |
| 10 | 63 | 51 | 44 | 40 | 61 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 184821 |
| 5° | 183947 |
| 10° | 179884 |
| 15° | 175665 |
| 20° | 169065 |
| 25° | 159892 |
| 30° | 145301 |
| 35° | 117611 |
| 40° | 79313 |
| 45° | 54502 |
| 50° | 44655 |
| 55° | 39081 |
| 60° | 36960 |
| 65° | 34893 |
| 70° | 32778 |
| 75° | 31157 |
| 80° | 28286 |
| 85° | 24782 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 315.6 | 6.5 |
| 10°-20° | 869.2 | 17.8 |
| 20°-30° | 1207.6 | 24.7 |
| 30°-40° | 1075.2 | 22.0 |
| 40°-50° | 570.7 | 11.7 |
| 50°-60° | 373.2 | 7.6 |
| 60°-70° | 267.5 | 5.5 |
| 70°-80° | 155.1 | 3.2 |
| 80°-90° | 45.3 | 0.9 |
| 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° | 2392.4 | 49.0 |
| 0°-40° | 3467.6 | 71.1 |
| 0°-60° | 4411.6 | 90.4 |
| 0°-90° | 4879.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4879.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3371 | |
| 5° | 3343 | 316 |
| 15° | 3095 | 869 |
| 25° | 2643 | 1208 |
| 35° | 1757 | 1075 |
| 45° | 703 | 571 |
| 55° | 409 | 373 |
| 65° | 269 | 268 |
| 75° | 147 | 155 |
| 85° | 39 | 45 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3371.4 |
| 2.5° | 3353.5 |
| 5° | 3342.7 |
| 7.5° | 3303.3 |
| 10° | 3231.5 |
| 12.5° | 3167.0 |
| 15° | 3095.2 |
| 17.5° | 3005.6 |
| 20° | 2898.0 |
| 22.5° | 2776.0 |
| 25° | 2643.4 |
| 27.5° | 2489.1 |
| 30° | 2295.4 |
| 32.5° | 2062.3 |
| 35° | 1757.4 |
| 37.5° | 1420.3 |
| 40° | 1108.3 |
| 42.5° | 860.7 |
| 45° | 703.0 |
| 47.5° | 598.9 |
| 50° | 523.6 |
| 52.5° | 462.6 |
| 55° | 408.9 |
| 57.5° | 369.4 |
| 60° | 337.1 |
| 62.5° | 304.9 |
| 65° | 269.0 |
| 67.5° | 236.7 |
| 70° | 204.5 |
| 72.5° | 175.7 |
| 75° | 147.1 |
| 77.5° | 118.4 |
| 80° | 89.6 |
| 82.5° | 64.5 |
| 85° | 39.4 |
| 87.5° | 17.9 |
| 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)