

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: P593306

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S45D010MB-HM64560850-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

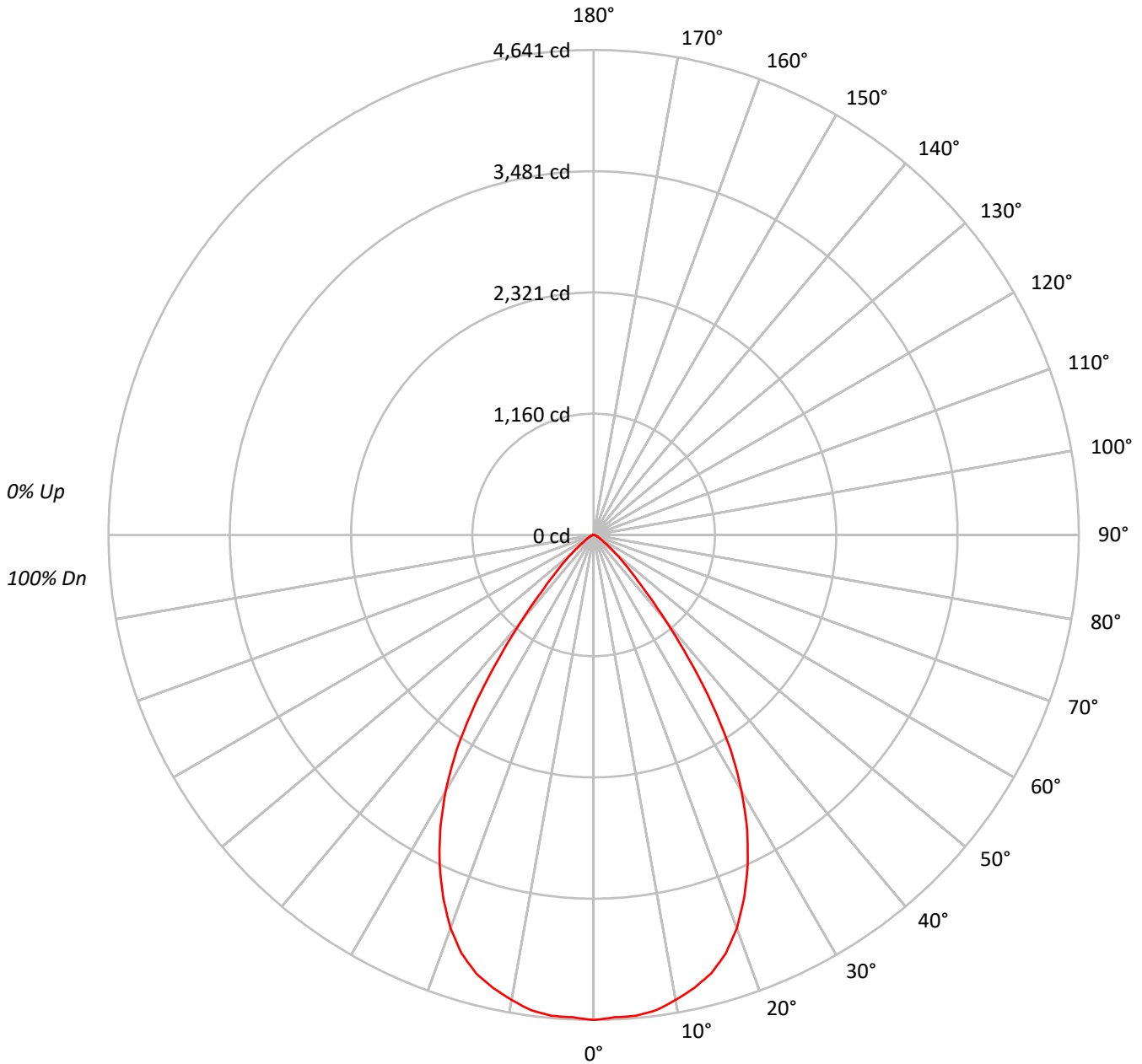
Lumens per Lamp: N/A
Luminaire Lumens: 5080.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | 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 | 100 | 100 |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 94 | 93 | 93 | 93 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 86 | 83 | 80 | 79 | 79 | 79 | 79 |
| 4 | 96 | 88 | 82 | 77 | 94 | 86 | 81 | 77 | 84 | 79 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | 72 | 72 | 72 |
| 5 | 90 | 81 | 75 | 71 | 89 | 80 | 75 | 70 | 79 | 74 | 70 | 77 | 73 | 69 | 75 | 72 | 68 | 67 | 67 | 67 | 67 |
| 6 | 85 | 76 | 70 | 65 | 84 | 75 | 69 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 62 | 62 | 62 | 62 |
| 7 | 81 | 71 | 65 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | 57 | 57 | 57 |
| 8 | 77 | 67 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | 53 | 53 | 53 |
| 9 | 73 | 62 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 59 | 55 | 51 | 50 | 50 | 50 | 50 |
| 10 | 69 | 59 | 53 | 49 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 47 | 47 | 47 | 47 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 254442 |
| 5° | 254237 |
| 10° | 251582 |
| 15° | 246522 |
| 20° | 233529 |
| 25° | 210889 |
| 30° | 179148 |
| 35° | 132267 |
| 40° | 76500 |
| 45° | 40601 |
| 50° | 22942 |
| 55° | 11995 |
| 60° | 7872 |
| 65° | 5578 |
| 70° | 4023 |
| 75° | 3029 |
| 80° | 2273 |
| 85° | 2264 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 437.8 | 8.6 |
| 10°-20° | 1214.9 | 23.9 |
| 20°-30° | 1585.7 | 31.2 |
| 30°-40° | 1211.8 | 23.9 |
| 40°-50° | 438.8 | 8.6 |
| 50°-60° | 127.4 | 2.5 |
| 60°-70° | 45.6 | 0.9 |
| 70°-80° | 15.6 | 0.3 |
| 80°-90° | 2.9 | 0.1 |
| 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° | 3238.4 | 63.7 |
| 0°-40° | 4450.2 | 87.6 |
| 0°-60° | 5016.4 | 98.7 |
| 0°-90° | 5080.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5080.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4641 | |
| 5° | 4620 | 438 |
| 15° | 4344 | 1215 |
| 25° | 3486 | 1586 |
| 35° | 1976 | 1212 |
| 45° | 524 | 439 |
| 55° | 126 | 127 |
| 65° | 43 | 46 |
| 75° | 14 | 16 |
| 85° | 4 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4641.4 |
| 2.5° | 4620.0 |
| 5° | 4620.0 |
| 7.5° | 4587.6 |
| 10° | 4519.5 |
| 12.5° | 4440.6 |
| 15° | 4343.7 |
| 17.5° | 4200.3 |
| 20° | 4003.0 |
| 22.5° | 3759.1 |
| 25° | 3486.5 |
| 27.5° | 3178.0 |
| 30° | 2830.1 |
| 32.5° | 2439.1 |
| 35° | 1976.4 |
| 37.5° | 1492.2 |
| 40° | 1069.0 |
| 42.5° | 738.9 |
| 45° | 523.7 |
| 47.5° | 376.7 |
| 50° | 269.0 |
| 52.5° | 190.1 |
| 55° | 125.5 |
| 57.5° | 89.6 |
| 60° | 71.8 |
| 62.5° | 57.4 |
| 65° | 43.0 |
| 67.5° | 35.9 |
| 70° | 25.1 |
| 72.5° | 17.9 |
| 75° | 14.3 |
| 77.5° | 10.8 |
| 80° | 7.2 |
| 82.5° | 3.6 |
| 85° | 3.6 |
| 87.5° | 0.0 |
| 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)