

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: P593841

Luminaire Tested: **HCC8S55D010SL-HM82555950-81MDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
 Report Number: P593841
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
 Test Lab: COOPER LIGHTING SOLUTIONS
 Issue Date: 10/21/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: HALO COMMERCIAL
 Catalog Number: HCC8S55D010SL-HM82555950-81MDH
 Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
 Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
 Ballast/Driver: ELECTRONIC DRIVER

Summary

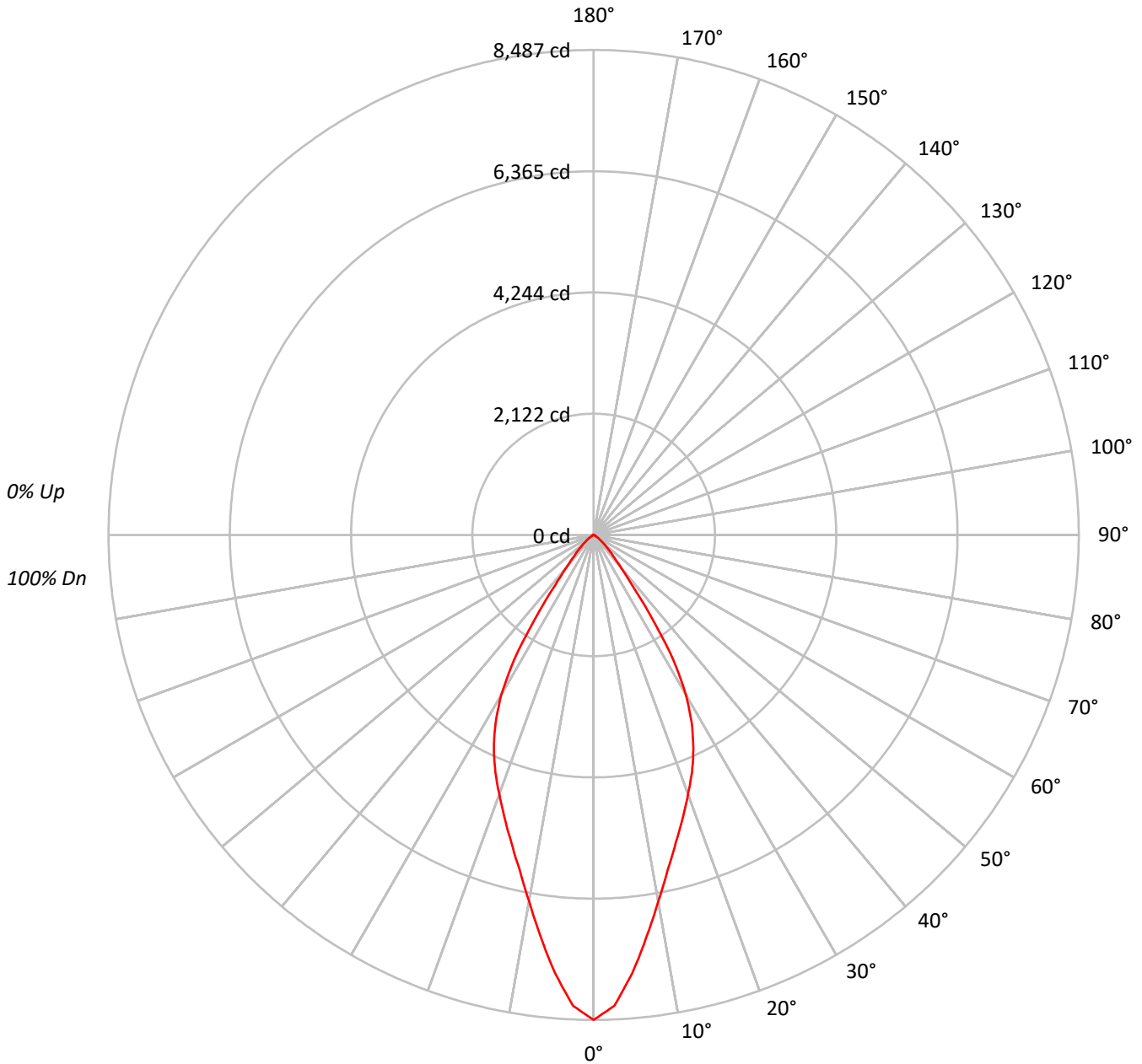
Lumens per Lamp: N/A
 Luminaire Lumens: 5722.4 lumens
 Efficiency: N/A
 Efficacy: 110.0 lumens/watt
 Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
 Luminous Opening: Circular (Dia: 0.67' x H: 0')
 CIE Type: Direct

Input Watts (W): 52
 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 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 | | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 90 | 89 | 87 | | | |
| 3 | 103 | 96 | 91 | 87 | 101 | 95 | 90 | 87 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | | |
| 4 | 97 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | | |
| 5 | 93 | 84 | 79 | 74 | 91 | 83 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 71 | | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 78 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 66 | | | |
| 7 | 84 | 75 | 69 | 64 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | | | |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 | | | |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 55 | | | |
| 10 | 73 | 63 | 57 | 54 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 261699 |
| 5° | 238480 |
| 10° | 203760 |
| 15° | 177696 |
| 20° | 158377 |
| 25° | 140489 |
| 30° | 115027 |
| 35° | 66054 |
| 40° | 29313 |
| 45° | 17060 |
| 50° | 9849 |
| 55° | 5618 |
| 60° | 3108 |
| 65° | 1977 |
| 70° | 1397 |
| 75° | 917 |
| 80° | 693 |
| 85° | 1380 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 697.4 | 12.2 |
| 10°-20° | 1564.6 | 27.3 |
| 20°-30° | 1872.8 | 32.7 |
| 30°-40° | 1133.0 | 19.8 |
| 40°-50° | 317.5 | 5.5 |
| 50°-60° | 98.6 | 1.7 |
| 60°-70° | 28.1 | 0.5 |
| 70°-80° | 7.6 | 0.1 |
| 80°-90° | 2.7 | 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° | 4134.8 | 72.3 |
| 0°-40° | 5267.8 | 92.1 |
| 0°-60° | 5684.0 | 99.3 |
| 0°-90° | 5722.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5722.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8487 | |
| 5° | 7704 | 697 |
| 15° | 5566 | 1565 |
| 25° | 4129 | 1873 |
| 35° | 1755 | 1133 |
| 45° | 391 | 318 |
| 55° | 104 | 99 |
| 65° | 27 | 28 |
| 75° | 8 | 8 |
| 85° | 4 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 8486.7 |
| 2.5° | 8246.5 |
| 5° | 7704.3 |
| 7.5° | 7092.2 |
| 10° | 6507.4 |
| 12.5° | 5996.1 |
| 15° | 5566.2 |
| 17.5° | 5186.6 |
| 20° | 4826.3 |
| 22.5° | 4493.2 |
| 25° | 4129.1 |
| 27.5° | 3718.5 |
| 30° | 3230.5 |
| 32.5° | 2599.1 |
| 35° | 1754.7 |
| 37.5° | 1092.3 |
| 40° | 728.2 |
| 42.5° | 522.9 |
| 45° | 391.2 |
| 47.5° | 286.7 |
| 50° | 205.3 |
| 52.5° | 143.3 |
| 55° | 104.5 |
| 57.5° | 69.7 |
| 60° | 50.4 |
| 62.5° | 34.8 |
| 65° | 27.1 |
| 67.5° | 19.3 |
| 70° | 15.5 |
| 72.5° | 7.7 |
| 75° | 7.7 |
| 77.5° | 3.9 |
| 80° | 3.9 |
| 82.5° | 3.9 |
| 85° | 3.9 |
| 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)