

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P328437

Luminaire Tested: **L815MED10NF940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815MED10NF940MB
Description: Medium, 1000lm, 25D, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

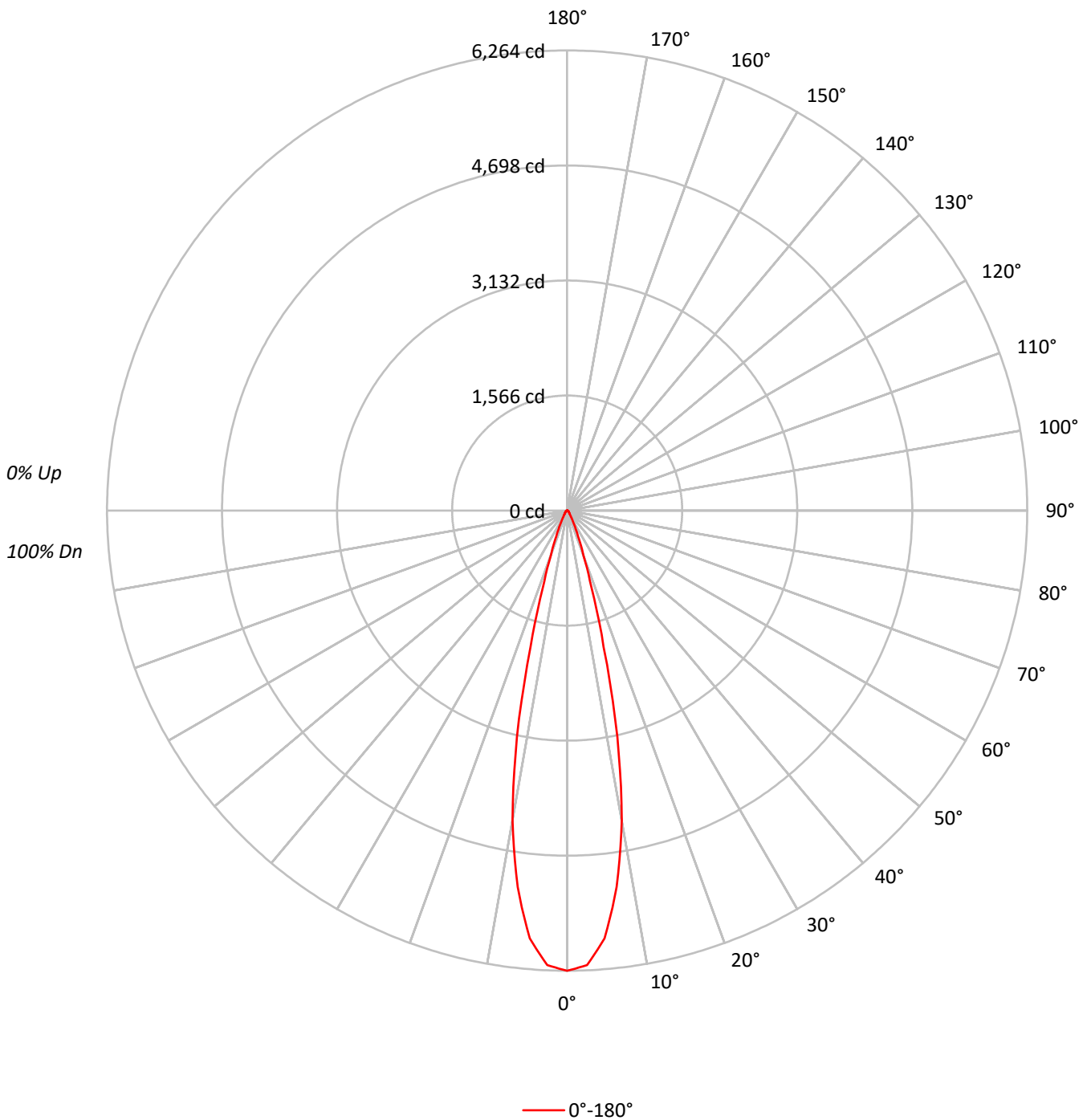
Lumens per Lamp: N/A
Luminaire Lumens: 1312.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.39
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.7
Input Voltage (V): NR
Input Current (Ain): 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 107 | 107 | 105 | 104 | | 103 | 102 | 101 | | 100 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 100 | 102 | 100 | 98 | | 100 | 98 | 96 | | 97 | 96 | 94 | 93 |
| 3 | 107 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 99 | 96 | 94 | | 96 | 94 | 92 | | 94 | 92 | 91 | 90 |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 94 | 91 | 95 | 92 | 90 | | 94 | 91 | 89 | | 92 | 90 | 88 | 87 |
| 5 | 101 | 95 | 91 | 88 | 99 | 94 | 90 | 87 | 92 | 89 | 86 | | 91 | 88 | 86 | | 89 | 87 | 85 | 84 |
| 6 | 98 | 92 | 87 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 84 | | 88 | 85 | 83 | | 87 | 85 | 83 | 81 |
| 7 | 95 | 89 | 85 | 82 | 94 | 88 | 84 | 81 | 87 | 84 | 81 | | 86 | 83 | 81 | | 85 | 82 | 80 | 79 |
| 8 | 93 | 86 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 79 | | 84 | 81 | 78 | | 83 | 80 | 78 | 77 |
| 9 | 90 | 84 | 80 | 77 | 90 | 83 | 79 | 77 | 83 | 79 | 77 | | 82 | 79 | 76 | | 81 | 78 | 76 | 75 |
| 10 | 88 | 82 | 78 | 75 | 87 | 81 | 77 | 75 | 81 | 77 | 75 | | 80 | 77 | 74 | | 79 | 76 | 74 | 73 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 772674 |
| 5° | 723994 |
| 10° | 536427 |
| 15° | 245063 |
| 20° | 85674 |
| 25° | 36923 |
| 30° | 17732 |
| 35° | 10495 |
| 40° | 7552 |
| 45° | 6559 |
| 50° | 5028 |
| 55° | 5419 |
| 60° | 4514 |
| 65° | 3736 |
| 70° | 2488 |
| 75° | 238 |
| 80° | 1776 |
| 85° | 708 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 506.6 | 38.6 |
| 10°-20° | 556.8 | 42.4 |
| 20°-30° | 138.0 | 10.5 |
| 30°-40° | 46.3 | 3.5 |
| 40°-50° | 28.9 | 2.2 |
| 50°-60° | 19.9 | 1.5 |
| 60°-70° | 13.6 | 1.0 |
| 70°-80° | 1.4 | 0.1 |
| 80°-90° | 0.5 | 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° | 1201.4 | 91.6 |
| 0°-40° | 1247.7 | 95.1 |
| 0°-60° | 1296.6 | 98.8 |
| 0°-90° | 1312.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1312.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6264 | |
| 5° | 5847 | 507 |
| 15° | 1919 | 557 |
| 25° | 271 | 138 |
| 35° | 70 | 46 |
| 45° | 38 | 29 |
| 55° | 25 | 20 |
| 65° | 13 | 14 |
| 75° | 0 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CATALOG NUMBER: L815MED10NF940MB

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6264.3 |
| 2.5° | 6193.7 |
| 5° | 5847.3 |
| 7.5° | 5167.4 |
| 10° | 4282.9 |
| 12.5° | 3154.9 |
| 15° | 1919.1 |
| 17.5° | 1094.9 |
| 20° | 652.7 |
| 22.5° | 412.6 |
| 25° | 271.3 |
| 27.5° | 179.4 |
| 30° | 124.5 |
| 32.5° | 91.9 |
| 35° | 69.7 |
| 37.5° | 53.4 |
| 40° | 46.9 |
| 42.5° | 39.0 |
| 45° | 37.6 |
| 47.5° | 37.1 |
| 50° | 26.2 |
| 52.5° | 27.7 |
| 55° | 25.2 |
| 57.5° | 14.3 |
| 60° | 18.3 |
| 62.5° | 17.3 |
| 65° | 12.8 |
| 67.5° | 12.4 |
| 70° | 6.9 |
| 72.5° | 0.0 |
| 75° | 0.5 |
| 77.5° | 0.0 |
| 80° | 2.5 |
| 82.5° | 0.0 |
| 85° | 0.5 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)