

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

Report Number: P#

Luminaire Tested: **RL56099S1EWH -3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27975)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL56099S1EWH -3000K
Description: Halo RL 5/6in Downlight - SeleCCTable 3000K
Light Source: -
Ballast/Driver: -

Summary

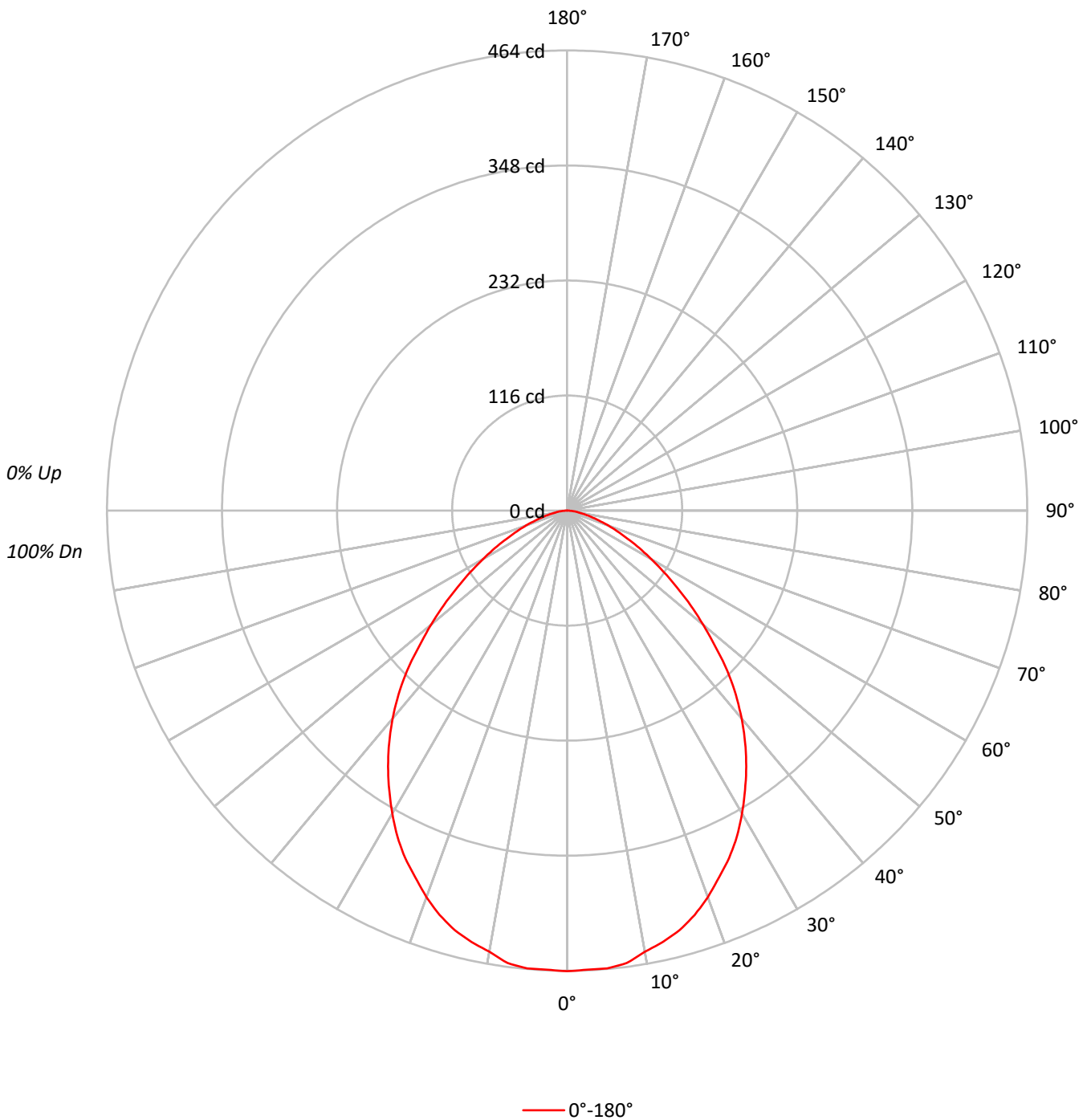
Lumens per Lamp: N/A
Luminaire Lumens: 940.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | | 96 | 94 | 92 | | 93 | 91 | 90 | 88 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | | 87 | 83 | 80 | | 84 | 81 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 70 | | 78 | 73 | 69 | | 76 | 72 | 68 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | | 71 | 65 | 61 | | 69 | 64 | 60 | 58 |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 59 | 54 | | 64 | 58 | 54 | | 62 | 57 | 53 | 51 |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 53 | 48 | | 59 | 53 | 48 | | 57 | 52 | 48 | 46 |
| 7 | 70 | 58 | 49 | 44 | 68 | 57 | 49 | 44 | 55 | 48 | 43 | | 54 | 48 | 43 | | 53 | 47 | 43 | 41 |
| 8 | 65 | 53 | 45 | 40 | 64 | 52 | 45 | 39 | 51 | 44 | 39 | | 50 | 44 | 39 | | 49 | 43 | 39 | 37 |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 36 | | 46 | 40 | 36 | | 45 | 40 | 35 | 34 |
| 10 | 58 | 45 | 38 | 33 | 56 | 45 | 38 | 33 | 44 | 37 | 33 | | 43 | 37 | 33 | | 42 | 36 | 32 | 31 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 25458 |
| 5° | 25501 |
| 10° | 25150 |
| 15° | 24864 |
| 20° | 24205 |
| 25° | 23378 |
| 30° | 22333 |
| 35° | 21074 |
| 40° | 19594 |
| 45° | 17715 |
| 50° | 15266 |
| 55° | 12884 |
| 60° | 10734 |
| 65° | 8743 |
| 70° | 7085 |
| 75° | 5359 |
| 80° | 3978 |
| 85° | 3334 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.9 | 4.7 |
| 10°-20° | 123.1 | 13.1 |
| 20°-30° | 177.5 | 18.9 |
| 30°-40° | 196.4 | 20.9 |
| 40°-50° | 174.9 | 18.6 |
| 50°-60° | 121.8 | 13.0 |
| 60°-70° | 68.0 | 7.2 |
| 70°-80° | 28.0 | 3.0 |
| 80°-90° | 6.3 | 0.7 |
| 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° | 344.5 | 36.7 |
| 0°-40° | 541.0 | 57.6 |
| 0°-60° | 837.6 | 89.1 |
| 0°-90° | 940.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 940.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 464 | |
| 5° | 463 | 44 |
| 15° | 438 | 123 |
| 25° | 386 | 178 |
| 35° | 315 | 196 |
| 45° | 228 | 175 |
| 55° | 135 | 122 |
| 65° | 67 | 68 |
| 75° | 25 | 28 |
| 85° | 5 | 6 |
| 90° | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: RL56099S1EWH -3000K

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 464.4 |
| 2.5° | 463.4 |
| 5° | 463.4 |
| 7.5° | 460.2 |
| 10° | 451.8 |
| 12.5° | 445.5 |
| 15° | 438.1 |
| 17.5° | 427.6 |
| 20° | 414.9 |
| 22.5° | 400.2 |
| 25° | 386.5 |
| 27.5° | 370.7 |
| 30° | 352.8 |
| 32.5° | 333.9 |
| 35° | 314.9 |
| 37.5° | 294.9 |
| 40° | 273.8 |
| 42.5° | 251.7 |
| 45° | 228.5 |
| 47.5° | 202.2 |
| 50° | 179.0 |
| 52.5° | 156.9 |
| 55° | 134.8 |
| 57.5° | 115.8 |
| 60° | 97.9 |
| 62.5° | 82.1 |
| 65° | 67.4 |
| 67.5° | 54.8 |
| 70° | 44.2 |
| 72.5° | 33.7 |
| 75° | 25.3 |
| 77.5° | 19.0 |
| 80° | 12.6 |
| 82.5° | 9.5 |
| 85° | 5.3 |
| 87.5° | 2.1 |
| 90° | 0.0 |

(END OF REPORT)