

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: P199326

Luminaire Tested: **LT560WH6940**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P199326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28069)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: LT560WH6940
Description: 5/6" LT LED RECESSED DOWNLIGHT

Light Source: EATON LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

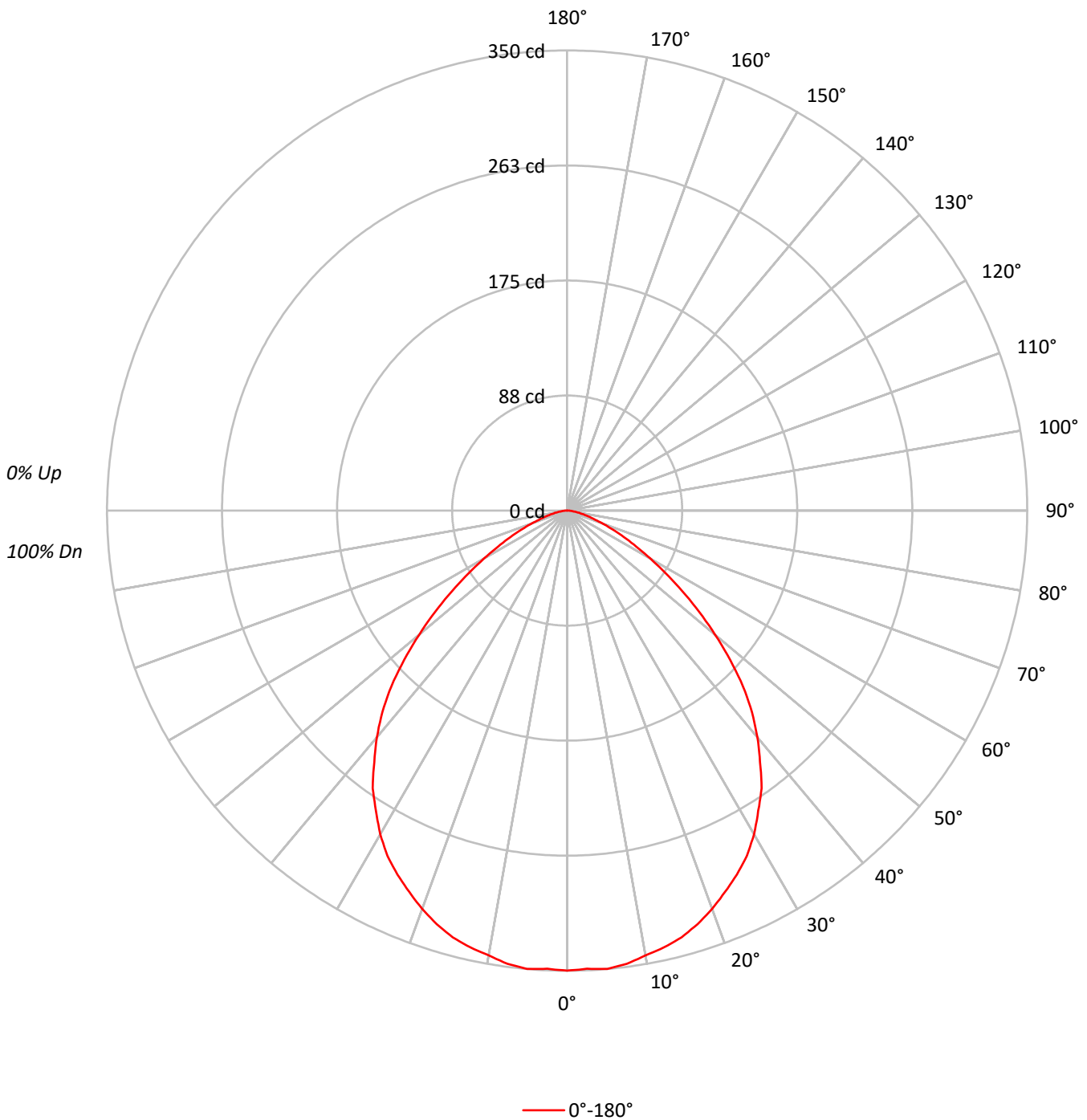
Lumens per Lamp: N/A
Luminaire Lumens: 739.1 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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 | 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 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 102 | 96 | 90 | 85 | 100 | 94 | 88 | 84 | 90 | 86 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 77 |
| 3 | 95 | 86 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 76 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 59 |
| 5 | 81 | 70 | 62 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 41 |
| 8 | 65 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 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° | 19182 |
| 5° | 19255 |
| 10° | 19121 |
| 15° | 19075 |
| 20° | 18808 |
| 25° | 18479 |
| 30° | 17996 |
| 35° | 17259 |
| 40° | 16109 |
| 45° | 14668 |
| 50° | 12528 |
| 55° | 10208 |
| 60° | 7993 |
| 65° | 6174 |
| 70° | 4568 |
| 75° | 3368 |
| 80° | 2683 |
| 85° | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.2 | 4.5 |
| 10°-20° | 94.6 | 12.8 |
| 20°-30° | 140.5 | 19.0 |
| 30°-40° | 160.1 | 21.7 |
| 40°-50° | 144.7 | 19.6 |
| 50°-60° | 96.3 | 13.0 |
| 60°-70° | 48.0 | 6.5 |
| 70°-80° | 17.7 | 2.4 |
| 80°-90° | 4.0 | 0.5 |
| 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° | 268.3 | 36.3 |
| 0°-40° | 428.4 | 58.0 |
| 0°-60° | 669.4 | 90.6 |
| 0°-90° | 739.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 739.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 350 | |
| 5° | 350 | 33 |
| 15° | 336 | 95 |
| 25° | 306 | 141 |
| 35° | 258 | 160 |
| 45° | 189 | 145 |
| 55° | 107 | 96 |
| 65° | 48 | 48 |
| 75° | 16 | 18 |
| 85° | 3 | 4 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 349.9 |
| 2.5° | 348.8 |
| 5° | 349.9 |
| 7.5° | 347.7 |
| 10° | 343.5 |
| 12.5° | 340.3 |
| 15° | 336.1 |
| 17.5° | 329.8 |
| 20° | 322.4 |
| 22.5° | 313.9 |
| 25° | 305.5 |
| 27.5° | 296.0 |
| 30° | 284.3 |
| 32.5° | 270.6 |
| 35° | 257.9 |
| 37.5° | 241.0 |
| 40° | 225.1 |
| 42.5° | 208.2 |
| 45° | 189.2 |
| 47.5° | 168.1 |
| 50° | 146.9 |
| 52.5° | 126.8 |
| 55° | 106.8 |
| 57.5° | 88.8 |
| 60° | 72.9 |
| 62.5° | 59.2 |
| 65° | 47.6 |
| 67.5° | 37.0 |
| 70° | 28.5 |
| 72.5° | 21.1 |
| 75° | 15.9 |
| 77.5° | 11.6 |
| 80° | 8.5 |
| 82.5° | 5.3 |
| 85° | 3.2 |
| 87.5° | 2.1 |
| 90° | 0.0 |

(END OF REPORT)