

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: H36045

Luminaire Tested: **H5T 5010**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: H36045
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H5T 5010
Description: HALO 5" DIA RECESSED DOWNLIGHT
BLACK BAFFLE
LOW SOCKET SETTING
Light Source: 75PAR30/FL/H 75 WATTS 1100 LUMENS
PAR30 HALOGEN FLOOD
Ballast/Driver: -

Summary

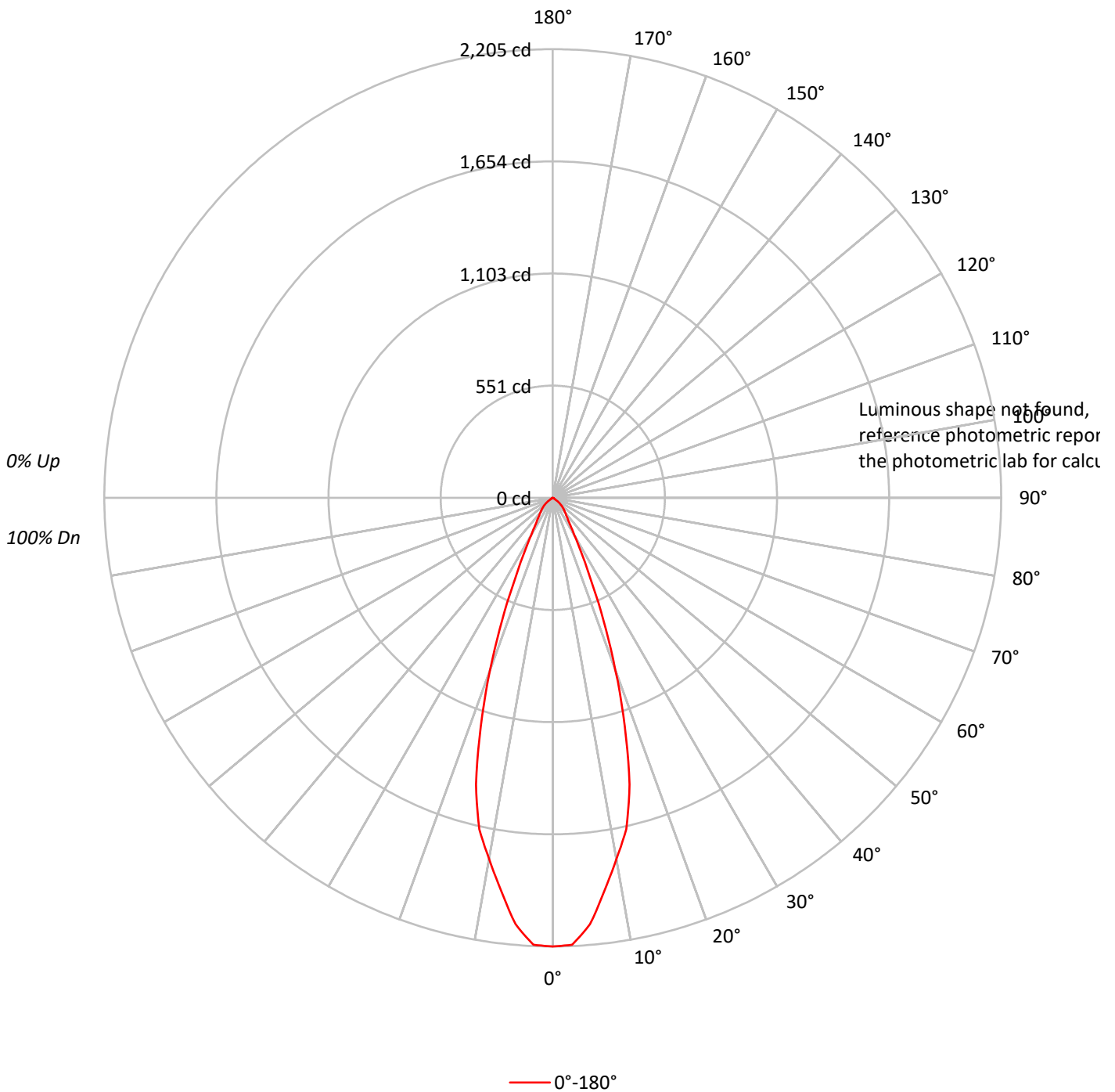
Lumens per Lamp: 1100 (1 lamp)
Luminaire Lumens: 960.8 lumens
Efficiency: 87.3%
Efficacy: 12.8 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.57
Luminous Opening: (L: 0 ' x W: -0.38 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 75
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



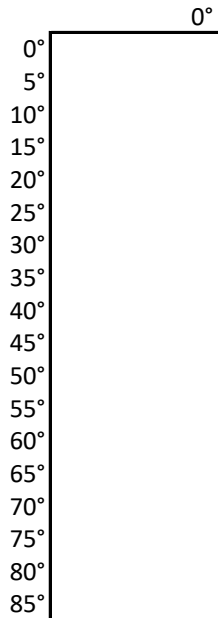


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|----|----|----|--|----|----|----|----|
| 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 | 104 | 104 | 104 | 104 | 102 | 102 | 102 | 102 | 97 | 97 | 97 | | 93 | 93 | 93 | | 89 | 89 | 89 | 87 |
| 1 | 100 | 97 | 96 | 94 | 98 | 96 | 94 | 92 | 92 | 91 | 89 | | 89 | 88 | 87 | | 86 | 85 | 84 | 83 |
| 2 | 95 | 92 | 88 | 86 | 94 | 90 | 87 | 85 | 87 | 85 | 83 | | 85 | 83 | 81 | | 82 | 81 | 80 | 78 |
| 3 | 91 | 86 | 82 | 79 | 90 | 85 | 82 | 79 | 83 | 80 | 77 | | 81 | 78 | 76 | | 79 | 77 | 75 | 74 |
| 4 | 87 | 82 | 77 | 74 | 86 | 81 | 77 | 74 | 79 | 75 | 73 | | 77 | 74 | 72 | | 76 | 73 | 71 | 70 |
| 5 | 84 | 77 | 73 | 70 | 82 | 77 | 72 | 69 | 75 | 72 | 69 | | 74 | 71 | 68 | | 72 | 70 | 68 | 66 |
| 6 | 80 | 74 | 69 | 66 | 79 | 73 | 69 | 66 | 72 | 68 | 65 | | 71 | 67 | 65 | | 69 | 67 | 64 | 63 |
| 7 | 77 | 70 | 66 | 62 | 76 | 70 | 65 | 62 | 69 | 65 | 62 | | 68 | 64 | 62 | | 67 | 64 | 61 | 60 |
| 8 | 74 | 67 | 63 | 59 | 73 | 67 | 62 | 59 | 66 | 62 | 59 | | 65 | 61 | 59 | | 64 | 61 | 59 | 58 |
| 9 | 72 | 64 | 60 | 57 | 71 | 64 | 60 | 57 | 63 | 59 | 56 | | 62 | 59 | 56 | | 62 | 58 | 56 | 55 |
| 10 | 69 | 62 | 57 | 54 | 68 | 61 | 57 | 54 | 61 | 57 | 54 | | 60 | 56 | 54 | | 59 | 56 | 54 | 53 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 190.4 | 19.8 | 17.3 |
| 10°-20° | 387.3 | 40.3 | 35.2 |
| 20°-30° | 214.9 | 22.4 | 19.5 |
| 30°-40° | 85.7 | 8.9 | 7.8 |
| 40°-50° | 55.4 | 5.8 | 5.0 |
| 50°-60° | 22.2 | 2.3 | 2.0 |
| 60°-70° | 4.2 | 0.4 | 0.4 |
| 70°-80° | 0.8 | 0.1 | 0.1 |
| 80°-90° | 0.0 | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 792.6 | 82.5 | 72.1 |
| 0°-40° | 878.3 | 91.4 | 79.8 |
| 0°-60° | 955.8 | 99.5 | 86.9 |
| 0°-90° | 960.8 | 100.0 | 87.3 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 | 0.0 |
| 0°-180° | 960.8 | 100.0 | 87.3 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2205 | |
| 5° | 2104 | 190 |
| 15° | 1458 | 387 |
| 25° | 435 | 215 |
| 35° | 131 | 86 |
| 45° | 73 | 55 |
| 55° | 23 | 22 |
| 65° | 4 | 4 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|------|
| 0° | 2205 |
| 2.5° | 2199 |
| 5° | 2104 |
| 7.5° | 1947 |
| 10° | 1802 |
| 12.5° | 1669 |
| 15° | 1458 |
| 17.5° | 1177 |
| 20° | 900 |
| 22.5° | 648 |
| 25° | 435 |
| 27.5° | 299 |
| 30° | 213 |
| 32.5° | 161 |
| 35° | 131 |
| 37.5° | 109 |
| 40° | 94 |
| 42.5° | 83 |
| 45° | 73 |
| 47.5° | 61 |
| 50° | 49 |
| 52.5° | 36 |
| 55° | 23 |
| 57.5° | 13 |
| 60° | 8 |
| 62.5° | 5 |
| 65° | 4 |
| 67.5° | 3 |
| 70° | 2 |
| 72.5° | 1 |
| 75° | 1 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |
| 92.5° | 0 |
| 95° | 0 |
| 97.5° | 0 |
| 100° | 0 |
| 102.5° | 0 |
| 105° | 0 |
| 107.5° | 0 |
| 110° | 0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|----|
| 112.5° | 0 |
| 115° | 0 |
| 117.5° | 0 |
| 120° | 0 |
| 122.5° | 0 |
| 125° | 0 |
| 127.5° | 0 |
| 130° | 0 |
| 132.5° | 0 |
| 135° | 0 |
| 137.5° | 0 |
| 140° | 0 |
| 142.5° | 0 |
| 145° | 0 |
| 147.5° | 0 |
| 150° | 0 |
| 152.5° | 0 |
| 155° | 0 |
| 157.5° | 0 |
| 160° | 0 |
| 162.5° | 0 |
| 165° | 0 |
| 167.5° | 0 |
| 170° | 0 |
| 172.5° | 0 |
| 175° | 0 |
| 177.5° | 0 |
| 180° | 0 |

(END OF REPORT)