

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: METALUX

Report Number: P284411

Luminaire Tested: **14FP3035HE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-913-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14FP3035HE
Description: 1x4 25W 3500K HE 80CRI

Light Source: -
Ballast/Driver: -

Summary

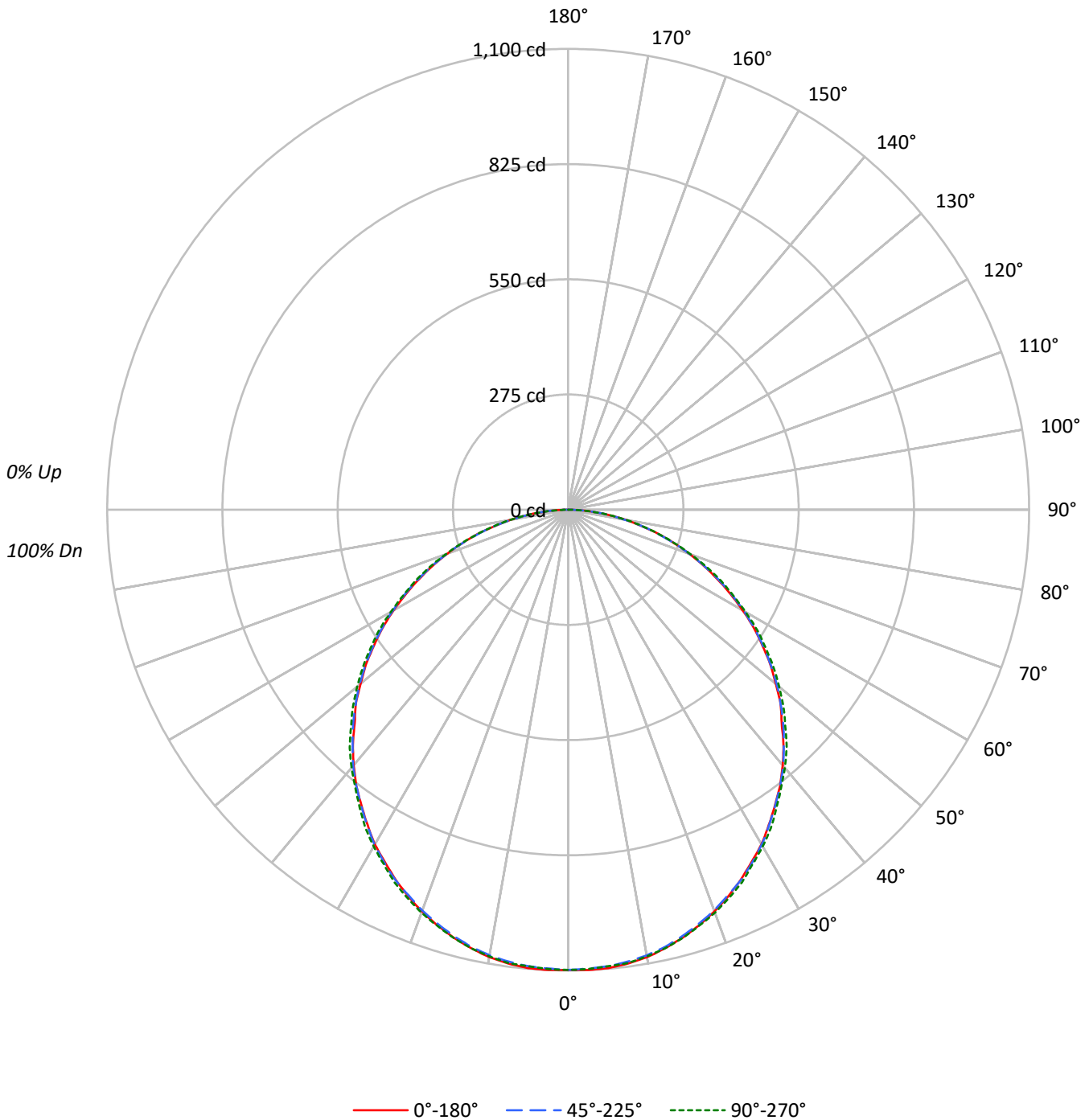
Lumens per Lamp: N/A
Luminaire Lumens: 3159.4 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 52 | 49 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2956 | 2956 | 2956 |
| 5° | 2967 | 2955 | 2955 |
| 10° | 2964 | 2951 | 2958 |
| 15° | 2945 | 2935 | 2948 |
| 20° | 2922 | 2915 | 2932 |
| 25° | 2893 | 2896 | 2913 |
| 30° | 2866 | 2870 | 2884 |
| 35° | 2826 | 2830 | 2849 |
| 40° | 2796 | 2804 | 2824 |
| 45° | 2740 | 2762 | 2788 |
| 50° | 2706 | 2721 | 2750 |
| 55° | 2655 | 2666 | 2698 |
| 60° | 2588 | 2606 | 2631 |
| 65° | 2505 | 2527 | 2564 |
| 70° | 2416 | 2426 | 2452 |
| 75° | 2321 | 2296 | 2321 |
| 80° | 2157 | 2122 | 2193 |
| 85° | 1883 | 1917 | 1883 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.1 | 3.3 |
| 10°-20° | 297.7 | 9.4 |
| 20°-30° | 449.7 | 14.2 |
| 30°-40° | 540.7 | 17.1 |
| 40°-50° | 560.9 | 17.8 |
| 50°-60° | 509.2 | 16.1 |
| 60°-70° | 392.8 | 12.4 |
| 70°-80° | 234.6 | 7.4 |
| 80°-90° | 69.8 | 2.2 |
| 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° | 851.5 | 27.0 |
| 0°-40° | 1392.2 | 44.1 |
| 0°-60° | 2462.2 | 77.9 |
| 0°-90° | 3159.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3159.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1098 | 1098 | 1098 | 1098 | 1098 | |
| 5° | 1098 | 1095 | 1094 | 1094 | 1094 | 104 |
| 15° | 1057 | 1056 | 1054 | 1055 | 1058 | 298 |
| 25° | 974 | 974 | 975 | 977 | 981 | 449 |
| 35° | 860 | 864 | 862 | 864 | 867 | 539 |
| 45° | 720 | 725 | 726 | 729 | 733 | 558 |
| 55° | 566 | 568 | 568 | 572 | 575 | 506 |
| 65° | 393 | 396 | 397 | 399 | 403 | 390 |
| 75° | 223 | 221 | 221 | 222 | 223 | 235 |
| 85° | 61 | 62 | 62 | 61 | 61 | 70 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1098.5 | 1098.5 | 1098.5 | 1098.5 | 1098.5 |
| 2.5° | 1099.6 | 1099.6 | 1096.2 | 1097.3 | 1097.3 |
| 5° | 1098.5 | 1095.0 | 1093.9 | 1093.9 | 1093.9 |
| 7.5° | 1092.7 | 1089.3 | 1088.1 | 1089.3 | 1091.6 |
| 10° | 1084.7 | 1080.1 | 1080.1 | 1080.1 | 1082.4 |
| 12.5° | 1072.0 | 1069.7 | 1068.6 | 1067.4 | 1072.0 |
| 15° | 1057.1 | 1055.9 | 1053.6 | 1054.8 | 1058.2 |
| 17.5° | 1039.8 | 1037.5 | 1036.4 | 1039.8 | 1041.0 |
| 20° | 1020.3 | 1018.0 | 1018.0 | 1021.4 | 1023.7 |
| 22.5° | 998.4 | 998.4 | 996.1 | 999.6 | 1003.0 |
| 25° | 974.3 | 974.3 | 975.4 | 976.6 | 981.2 |
| 27.5° | 947.8 | 949.0 | 950.1 | 952.4 | 953.6 |
| 30° | 922.5 | 921.4 | 923.7 | 926.0 | 928.3 |
| 32.5° | 891.5 | 893.8 | 892.6 | 898.4 | 900.7 |
| 35° | 860.4 | 863.8 | 861.5 | 863.8 | 867.3 |
| 37.5° | 830.5 | 831.6 | 830.5 | 835.1 | 835.1 |
| 40° | 796.0 | 796.0 | 798.3 | 801.7 | 804.0 |
| 42.5° | 760.3 | 761.5 | 761.5 | 766.1 | 771.8 |
| 45° | 720.1 | 724.7 | 725.8 | 729.3 | 732.7 |
| 47.5° | 687.9 | 686.7 | 687.9 | 691.3 | 697.1 |
| 50° | 646.4 | 648.7 | 649.9 | 653.3 | 656.8 |
| 52.5° | 608.5 | 609.6 | 609.6 | 613.1 | 617.7 |
| 55° | 565.9 | 568.2 | 568.2 | 571.7 | 575.1 |
| 57.5° | 525.7 | 524.5 | 526.8 | 530.3 | 534.9 |
| 60° | 480.8 | 480.8 | 484.3 | 486.6 | 488.9 |
| 62.5° | 437.1 | 438.2 | 440.5 | 444.0 | 444.0 |
| 65° | 393.4 | 395.7 | 396.8 | 399.1 | 402.6 |
| 67.5° | 349.7 | 350.8 | 352.0 | 354.3 | 357.7 |
| 70° | 307.1 | 307.1 | 308.3 | 310.6 | 311.7 |
| 72.5° | 264.6 | 263.4 | 263.4 | 268.0 | 266.9 |
| 75° | 223.2 | 220.8 | 220.8 | 222.0 | 223.2 |
| 77.5° | 178.3 | 177.1 | 179.4 | 180.6 | 180.6 |
| 80° | 139.2 | 138.0 | 136.9 | 138.0 | 141.5 |
| 82.5° | 98.9 | 98.9 | 97.8 | 98.9 | 98.9 |
| 85° | 61.0 | 62.1 | 62.1 | 61.0 | 61.0 |
| 87.5° | 28.8 | 27.6 | 27.6 | 26.5 | 25.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)