

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: METALUX

Report Number: 219P105

Luminaire Tested: **2EP3GX-SS-217S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 219P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-SS-217S33I
Description: 2 X 2 Silver Steel Convertible Body Luminaire with a
3" deep 9 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO17/735 - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic L.O.B.F. = 89.5

Summary

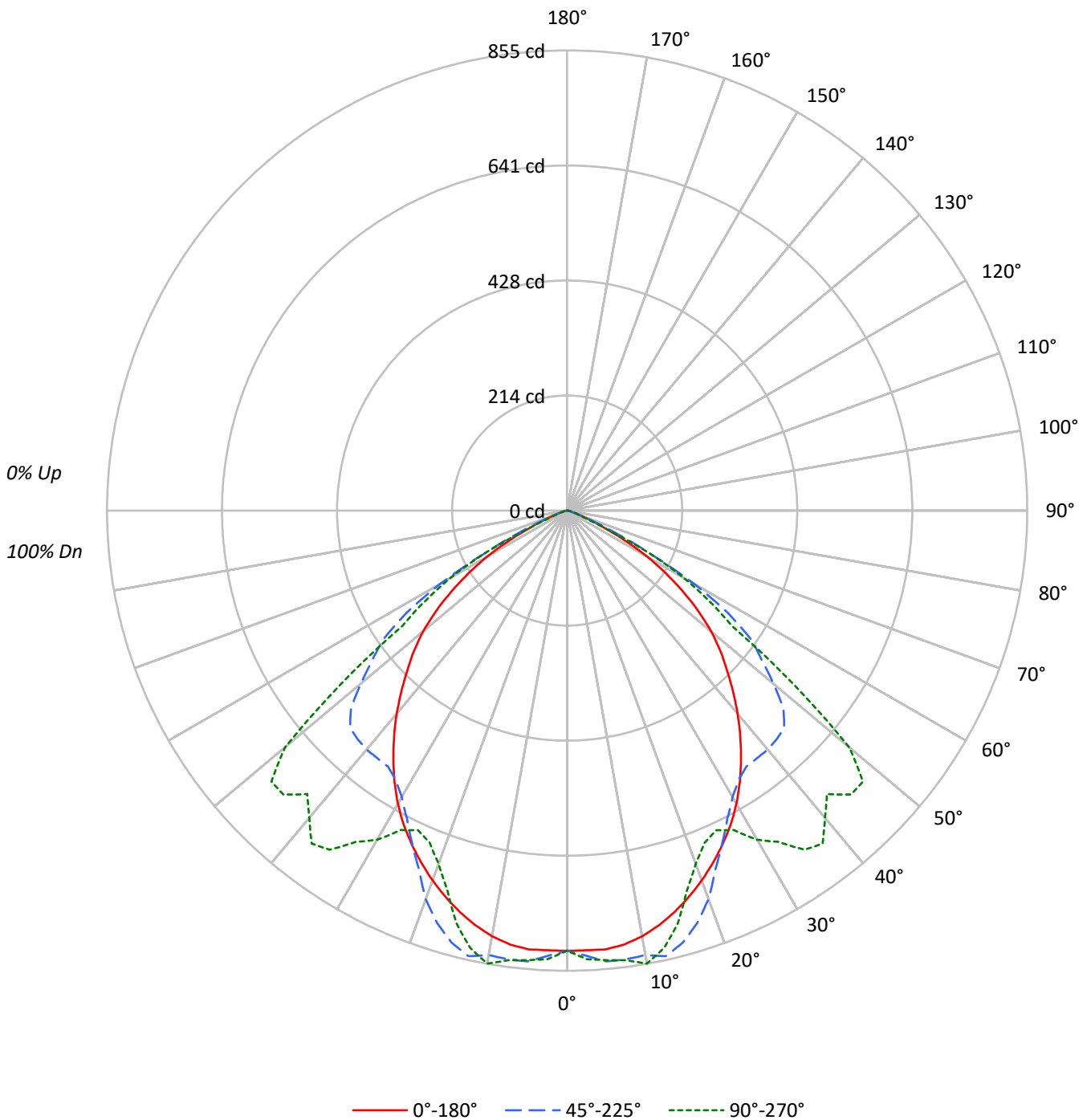
Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1903.1 lumens
Efficiency: 73.2%
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.46 / 1.42
Luminous Opening: Rectangular (W 1.73' x L: 1.74' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 50 | | | | | | | | | 30 | | | | | | | | | 10 | | | | | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 87 | 87 | 87 | 87 | 85 | 85 | 85 | 85 | 81 | 81 | 81 | 78 | 78 | 78 | 75 | 75 | 75 | 73 | | | | | | 73 | | | | | | | | | | | | | |
| 1 | 81 | 79 | 76 | 74 | 79 | 77 | 75 | 73 | 74 | 72 | 70 | 71 | 70 | 68 | 69 | 67 | 66 | 65 | | | | | | 65 | | | | | | | | | | | | | |
| 2 | 75 | 70 | 66 | 62 | 73 | 69 | 65 | 62 | 66 | 63 | 60 | 64 | 61 | 59 | 62 | 60 | 58 | 56 | | | | | | 56 | | | | | | | | | | | | | |
| 3 | 69 | 63 | 57 | 53 | 68 | 61 | 57 | 53 | 59 | 55 | 52 | 57 | 54 | 51 | 56 | 53 | 50 | 49 | | | | | | 49 | | | | | | | | | | | | | |
| 4 | 64 | 56 | 50 | 46 | 62 | 55 | 50 | 46 | 53 | 49 | 45 | 52 | 48 | 45 | 50 | 47 | 44 | 43 | | | | | | 43 | | | | | | | | | | | | | |
| 5 | 59 | 50 | 44 | 40 | 57 | 50 | 44 | 40 | 48 | 43 | 39 | 47 | 42 | 39 | 45 | 42 | 39 | 37 | | | | | | 37 | | | | | | | | | | | | | |
| 6 | 55 | 46 | 40 | 35 | 53 | 45 | 39 | 35 | 44 | 39 | 35 | 42 | 38 | 35 | 41 | 37 | 34 | 33 | | | | | | 33 | | | | | | | | | | | | | |
| 7 | 51 | 41 | 35 | 31 | 49 | 41 | 35 | 31 | 40 | 35 | 31 | 39 | 34 | 31 | 38 | 34 | 31 | 29 | | | | | | 29 | | | | | | | | | | | | | |
| 8 | 47 | 38 | 32 | 28 | 46 | 37 | 32 | 28 | 36 | 31 | 28 | 36 | 31 | 28 | 35 | 31 | 27 | 26 | | | | | | 26 | | | | | | | | | | | | | |
| 9 | 44 | 35 | 29 | 25 | 43 | 34 | 29 | 25 | 34 | 29 | 25 | 33 | 28 | 25 | 32 | 28 | 25 | 24 | | | | | | 24 | | | | | | | | | | | | | |
| 10 | 41 | 32 | 27 | 23 | 40 | 32 | 26 | 23 | 31 | 26 | 23 | 30 | 26 | 23 | 30 | 26 | 23 | 21 | | | | | | 21 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2924 | 2924 | 2924 |
| 5° | 2937 | 3018 | 3010 |
| 10° | 2916 | 3045 | 3103 |
| 15° | 2857 | 3075 | 2940 |
| 20° | 2782 | 2922 | 2657 |
| 25° | 2698 | 2691 | 2585 |
| 30° | 2598 | 2538 | 2916 |
| 35° | 2458 | 2535 | 3358 |
| 40° | 2300 | 2706 | 3480 |
| 45° | 2126 | 2884 | 3771 |
| 50° | 1943 | 2783 | 3806 |
| 55° | 1640 | 2600 | 2332 |
| 60° | 1244 | 1953 | 1794 |
| 65° | 668 | 881 | 679 |
| 70° | 276 | 296 | 215 |
| 75° | 134 | 130 | 135 |
| 80° | 91 | 89 | 93 |
| 85° | 57 | 62 | 57 |



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CATALOG NUMBER: 2EP3GX-SS-217S33I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----------|--------|-----------|--------|------|-----|-------|-----|-------|-----|------|
| 0°-10° | 79.7 | 4.2 | 3.1 | 0° | 818 | 818 | 818 | 818 | 818 | |
| 10°-20° | 225.7 | 11.9 | 8.7 | 5° | 818 | 828 | 841 | 841 | 838 | 78 |
| 20°-30° | 319.2 | 16.8 | 12.3 | 15° | 772 | 799 | 831 | 816 | 794 | 217 |
| 30°-40° | 398.1 | 20.9 | 15.3 | 25° | 684 | 731 | 682 | 670 | 655 | 315 |
| 40°-50° | 430.4 | 22.6 | 16.6 | 35° | 563 | 589 | 581 | 708 | 769 | 352 |
| 50°-60° | 326.5 | 17.2 | 12.6 | 45° | 420 | 423 | 570 | 652 | 746 | 324 |
| 60°-70° | 109.2 | 5.7 | 4.2 | 55° | 263 | 296 | 417 | 420 | 374 | 234 |
| 70°-80° | 12.3 | 0.6 | 0.5 | 65° | 79 | 109 | 104 | 102 | 80 | 85 |
| 80°-90° | 1.9 | 0.1 | 0.1 | 75° | 10 | 11 | 9 | 10 | 10 | 12 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 1 | 2 | 2 | 1 | 1 | 2 |
| 100°-110° | 0.0 | 0.0 | 0.0 | 90° | 0 | 0 | 0 | 0 | 0 | 0 |
| 110°-120° | 0.0 | 0.0 | 0.0 | 95° | 0 | 0 | 0 | 0 | 0 | 0 |
| 120°-130° | 0.0 | 0.0 | 0.0 | 105° | 0 | 0 | 0 | 0 | 0 | 0 |
| 130°-140° | 0.0 | 0.0 | 0.0 | 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 140°-150° | 0.0 | 0.0 | 0.0 | 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 150°-160° | 0.0 | 0.0 | 0.0 | 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 160°-170° | 0.0 | 0.0 | 0.0 | 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 170°-180° | 0.0 | 0.0 | 0.0 | 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-30° | 624.6 | 32.8 | 24.0 | 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-40° | 1022.7 | 53.7 | 39.3 | 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-60° | 1779.7 | 93.5 | 68.4 | 180° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-90° | 1903.1 | 100.0 | 73.2 | | | | | | | |
| 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° | 1903.1 | 100.0 | 73.2 | | | | | | | |



TEST NUMBER: 219P105

CATALOG NUMBER: 2EP3GX-SS-217S33I

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 |
| 2.5° | 817.6 | 821.2 | 828.2 | 832.1 | 834.1 |
| 5° | 818.3 | 828.4 | 840.8 | 840.6 | 838.5 |
| 7.5° | 813.1 | 832.0 | 840.8 | 842.4 | 842.7 |
| 10° | 803.0 | 827.1 | 838.6 | 861.8 | 854.6 |
| 12.5° | 789.0 | 815.1 | 848.0 | 845.3 | 832.1 |
| 15° | 771.8 | 799.4 | 830.6 | 815.9 | 794.1 |
| 17.5° | 752.3 | 782.4 | 803.4 | 769.5 | 739.9 |
| 20° | 731.2 | 770.8 | 768.0 | 730.9 | 698.3 |
| 22.5° | 708.2 | 756.7 | 720.3 | 693.5 | 667.6 |
| 25° | 683.7 | 730.8 | 682.0 | 670.4 | 655.3 |
| 27.5° | 657.9 | 698.5 | 645.0 | 660.5 | 669.2 |
| 30° | 629.1 | 664.0 | 614.7 | 670.4 | 706.2 |
| 32.5° | 597.1 | 626.8 | 592.6 | 694.2 | 729.8 |
| 35° | 563.1 | 589.3 | 580.7 | 707.7 | 769.3 |
| 37.5° | 528.4 | 547.1 | 579.7 | 729.6 | 779.7 |
| 40° | 492.7 | 508.1 | 579.7 | 720.6 | 745.6 |
| 42.5° | 455.8 | 467.2 | 576.3 | 680.9 | 714.4 |
| 45° | 420.4 | 423.3 | 570.4 | 652.3 | 745.7 |
| 47.5° | 386.2 | 382.0 | 545.1 | 664.4 | 745.5 |
| 50° | 349.3 | 350.1 | 500.3 | 637.6 | 684.1 |
| 52.5° | 307.9 | 322.8 | 456.1 | 559.8 | 529.6 |
| 55° | 263.0 | 295.8 | 417.1 | 419.8 | 374.1 |
| 57.5° | 218.0 | 262.1 | 354.4 | 298.3 | 313.5 |
| 60° | 173.9 | 223.5 | 273.1 | 238.9 | 250.8 |
| 62.5° | 123.1 | 169.5 | 176.4 | 172.3 | 176.0 |
| 65° | 78.9 | 108.8 | 104.1 | 102.0 | 80.2 |
| 67.5° | 45.5 | 60.4 | 54.9 | 40.8 | 31.7 |
| 70° | 26.4 | 31.6 | 28.3 | 21.2 | 20.6 |
| 72.5° | 14.9 | 17.1 | 14.3 | 14.2 | 14.1 |
| 75° | 9.7 | 10.6 | 9.4 | 9.7 | 9.8 |
| 77.5° | 6.6 | 7.0 | 6.6 | 6.6 | 6.7 |
| 80° | 4.4 | 4.6 | 4.3 | 4.4 | 4.5 |
| 82.5° | 2.7 | 2.9 | 2.7 | 2.7 | 2.6 |
| 85° | 1.4 | 1.6 | 1.5 | 1.4 | 1.4 |
| 87.5° | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)