

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: 188P137

Luminaire Tested: **2EP3GX-332S46I-2NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P137
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S46I-2NSBC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
24 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

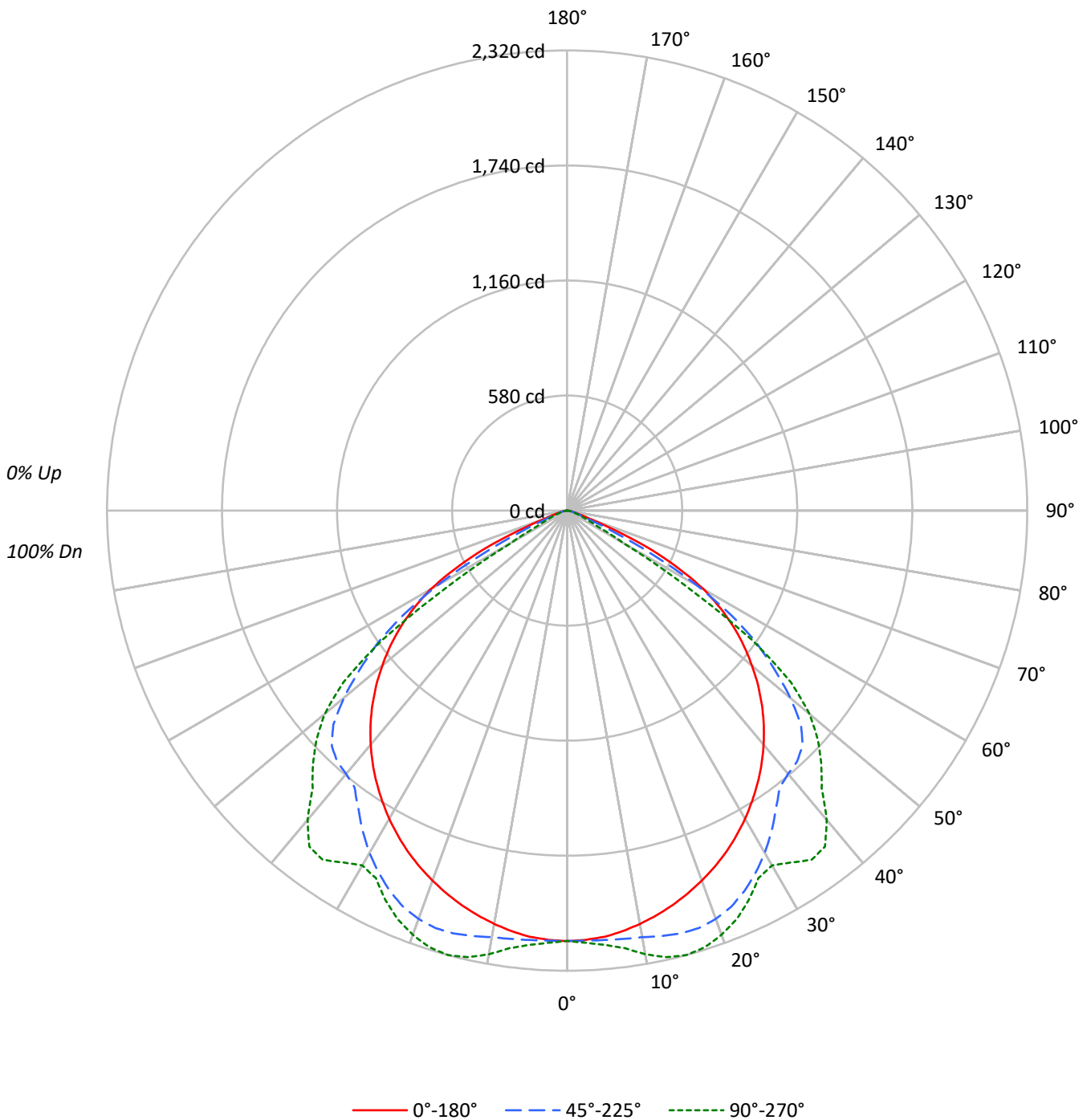
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5559.6 lumens
Efficiency: 66.2%
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.51 / 1.48
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 85.6
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 | 79 | 79 | 79 | 79 | 77 | 77 | 77 | 77 | 74 | 74 | 74 | 70 | 70 | 70 | 68 | 68 | 68 | 66 |
| 1 | 73 | 71 | 69 | 67 | 72 | 69 | 67 | 66 | 67 | 65 | 64 | 64 | 63 | 62 | 62 | 61 | 60 | 59 |
| 2 | 68 | 63 | 59 | 56 | 66 | 62 | 59 | 56 | 60 | 57 | 54 | 58 | 55 | 53 | 56 | 54 | 52 | 51 |
| 3 | 62 | 56 | 52 | 48 | 61 | 55 | 51 | 48 | 53 | 50 | 47 | 52 | 49 | 46 | 50 | 47 | 45 | 44 |
| 4 | 58 | 50 | 45 | 41 | 56 | 50 | 45 | 41 | 48 | 44 | 40 | 47 | 43 | 40 | 45 | 42 | 39 | 38 |
| 5 | 53 | 45 | 40 | 36 | 52 | 45 | 40 | 36 | 43 | 39 | 35 | 42 | 38 | 35 | 41 | 37 | 35 | 33 |
| 6 | 49 | 41 | 35 | 32 | 48 | 40 | 35 | 31 | 39 | 35 | 31 | 38 | 34 | 31 | 37 | 33 | 31 | 29 |
| 7 | 46 | 37 | 32 | 28 | 44 | 37 | 31 | 28 | 36 | 31 | 28 | 35 | 31 | 27 | 34 | 30 | 27 | 26 |
| 8 | 42 | 34 | 29 | 25 | 41 | 33 | 28 | 25 | 33 | 28 | 25 | 32 | 28 | 25 | 31 | 27 | 24 | 23 |
| 9 | 40 | 31 | 26 | 22 | 39 | 31 | 26 | 22 | 30 | 25 | 22 | 29 | 25 | 22 | 29 | 25 | 22 | 21 |
| 10 | 37 | 29 | 24 | 20 | 36 | 28 | 24 | 20 | 28 | 23 | 20 | 27 | 23 | 20 | 27 | 23 | 20 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3602 | 3602 | 3602 |
| 5° | 3594 | 3621 | 3662 |
| 10° | 3567 | 3681 | 3828 |
| 15° | 3537 | 3793 | 3987 |
| 20° | 3506 | 3870 | 4021 |
| 25° | 3476 | 3874 | 3969 |
| 30° | 3439 | 3820 | 3958 |
| 35° | 3394 | 3718 | 4355 |
| 40° | 3339 | 3755 | 4412 |
| 45° | 3261 | 3939 | 4254 |
| 50° | 3143 | 3794 | 4122 |
| 55° | 2969 | 3380 | 3302 |
| 60° | 2643 | 2513 | 1092 |
| 65° | 1854 | 1100 | 460 |
| 70° | 592 | 379 | 286 |
| 75° | 321 | 244 | 186 |
| 80° | 220 | 172 | 115 |
| 85° | 152 | 114 | 76 |



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----------|--------|-----------|--------|------|------|-------|------|-------|------|------|
| 0°-10° | 208.0 | 3.7 | 2.5 | 0° | 2170 | 2170 | 2170 | 2170 | 2170 | |
| 10°-20° | 619.5 | 11.1 | 7.4 | 5° | 2157 | 2159 | 2173 | 2190 | 2198 | 205 |
| 20°-30° | 954.7 | 17.2 | 11.4 | 15° | 2058 | 2096 | 2207 | 2291 | 2320 | 581 |
| 30°-40° | 1183.7 | 21.3 | 14.1 | 25° | 1898 | 2004 | 2115 | 2149 | 2167 | 874 |
| 40°-50° | 1252.2 | 22.5 | 14.9 | 35° | 1675 | 1822 | 1835 | 2008 | 2149 | 1047 |
| 50°-60° | 971.8 | 17.5 | 11.6 | 45° | 1389 | 1502 | 1678 | 1727 | 1812 | 1070 |
| 60°-70° | 316.1 | 5.7 | 3.8 | 55° | 1026 | 1102 | 1168 | 1143 | 1141 | 911 |
| 70°-80° | 46.1 | 0.8 | 0.5 | 65° | 472 | 464 | 280 | 133 | 117 | 452 |
| 80°-90° | 7.4 | 0.1 | 0.1 | 75° | 50 | 46 | 38 | 32 | 29 | 61 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 8 | 7 | 6 | 4 | 4 | 10 |
| 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° | 1782.3 | 32.1 | 21.2 | 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-40° | 2966.0 | 53.3 | 35.3 | 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-60° | 5190.0 | 93.4 | 61.8 | 180° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-90° | 5559.6 | 100.0 | 66.2 | | | | | | | |
| 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° | 5559.6 | 100.0 | 66.2 | | | | | | | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 0° | 2170 | 2170 | 2170 | 2170 | 2170 |
| 2.5° | 2166 | 2165 | 2170 | 2177 | 2181 |
| 5° | 2157 | 2159 | 2173 | 2190 | 2198 |
| 7.5° | 2139 | 2148 | 2178 | 2210 | 2225 |
| 10° | 2116 | 2133 | 2184 | 2246 | 2271 |
| 12.5° | 2089 | 2116 | 2197 | 2277 | 2306 |
| 15° | 2058 | 2096 | 2207 | 2291 | 2320 |
| 17.5° | 2024 | 2075 | 2207 | 2284 | 2308 |
| 20° | 1985 | 2053 | 2191 | 2252 | 2276 |
| 22.5° | 1944 | 2030 | 2162 | 2207 | 2231 |
| 25° | 1898 | 2004 | 2115 | 2149 | 2167 |
| 27.5° | 1848 | 1971 | 2058 | 2074 | 2089 |
| 30° | 1794 | 1930 | 1993 | 1995 | 2065 |
| 32.5° | 1736 | 1880 | 1918 | 1982 | 2103 |
| 35° | 1675 | 1822 | 1835 | 2008 | 2149 |
| 37.5° | 1610 | 1754 | 1760 | 2022 | 2135 |
| 40° | 1541 | 1676 | 1733 | 1981 | 2036 |
| 42.5° | 1468 | 1592 | 1716 | 1869 | 1900 |
| 45° | 1389 | 1502 | 1678 | 1727 | 1812 |
| 47.5° | 1306 | 1408 | 1599 | 1626 | 1716 |
| 50° | 1217 | 1310 | 1469 | 1513 | 1596 |
| 52.5° | 1125 | 1208 | 1318 | 1357 | 1423 |
| 55° | 1026 | 1102 | 1168 | 1143 | 1141 |
| 57.5° | 918 | 993 | 981 | 829 | 716 |
| 60° | 796 | 854 | 757 | 475 | 329 |
| 62.5° | 639 | 676 | 511 | 230 | 176 |
| 65° | 472 | 464 | 280 | 133 | 117 |
| 67.5° | 271 | 260 | 130 | 90 | 82 |
| 70° | 122 | 122 | 78 | 64 | 59 |
| 72.5° | 74 | 69 | 54 | 45 | 41 |
| 75° | 50 | 46 | 38 | 32 | 29 |
| 77.5° | 35 | 32 | 27 | 22 | 19 |
| 80° | 23 | 21 | 18 | 14 | 12 |
| 82.5° | 15 | 13 | 11 | 8 | 7 |
| 85° | 8 | 7 | 6 | 4 | 4 |
| 87.5° | 3 | 3 | 2 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 |
| 92.5° | 0 | 0 | 0 | 0 | 0 |
| 95° | 0 | 0 | 0 | 0 | 0 |
| 97.5° | 0 | 0 | 0 | 0 | 0 |
| 100° | 0 | 0 | 0 | 0 | 0 |
| 102.5° | 0 | 0 | 0 | 0 | 0 |
| 105° | 0 | 0 | 0 | 0 | 0 |
| 107.5° | 0 | 0 | 0 | 0 | 0 |
| 110° | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: 2EP3GX-332S46I-2NSBC-PAF

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)