

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: ITL49398

Luminaire Tested: **2PGX-332S36I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49398
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-332S36I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED
SEMI-SPECULAR METAL PARABOLIC 18-CELL LOUVER.
Light Source: THREE 32-WATT T-8 F32T8/TL735 LINEAR FLUORESCENTS.
Ballast/Driver: MOTOROLA M3-IN-T8-GP-D-120, L.O.B.F. = 85.8%

Summary

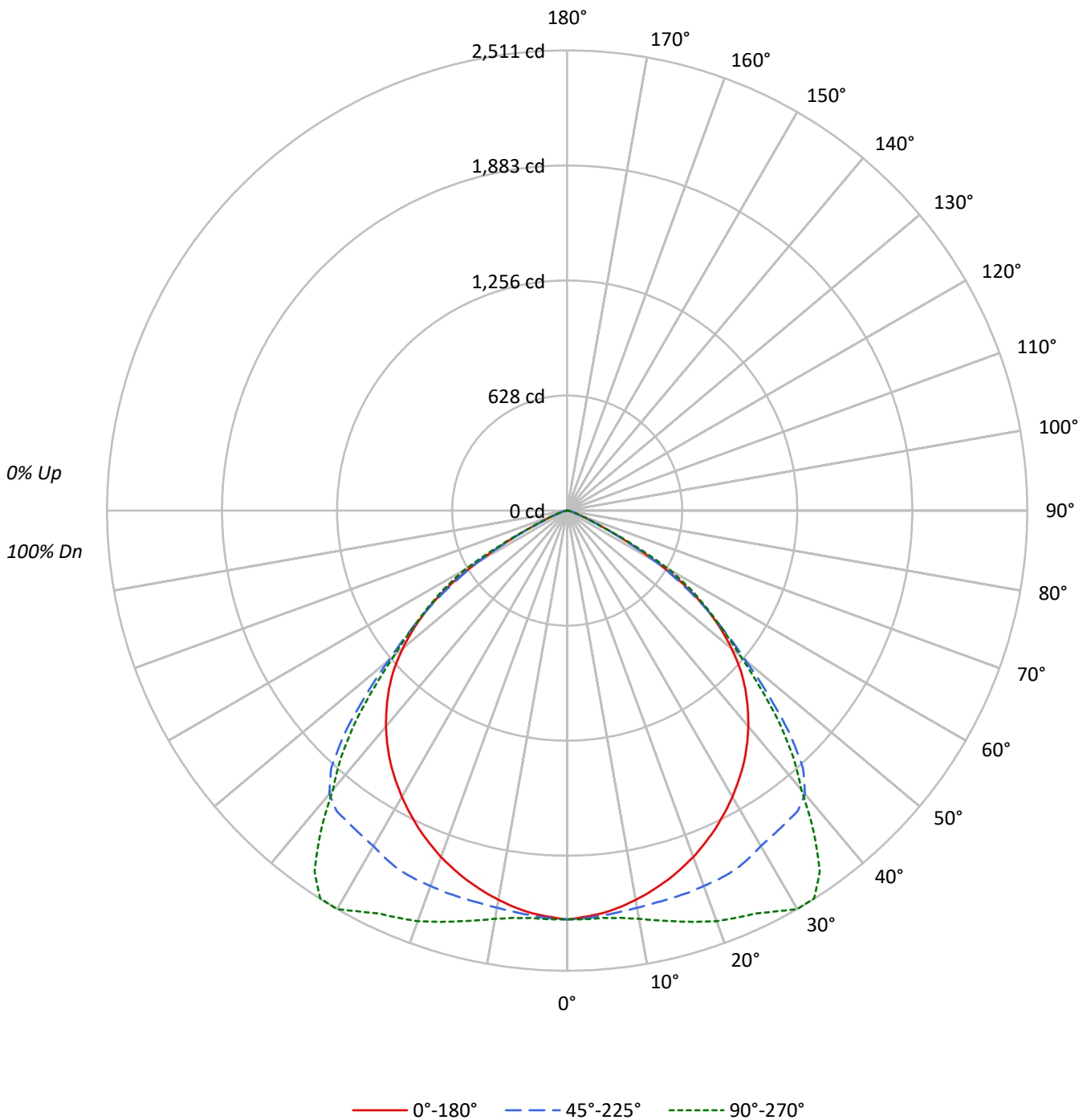
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5472.5 lumens
Efficiency: 65.1%
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.53 / 1.45
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
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 | 78 | 78 | 78 | 78 | 76 | 76 | 76 | 76 | 72 | 72 | 72 | 69 | 69 | 69 | 66 | 66 | 66 | 65 |
| 1 | 72 | 70 | 68 | 66 | 71 | 69 | 67 | 65 | 66 | 64 | 63 | 63 | 62 | 61 | 61 | 60 | 59 | 58 |
| 2 | 67 | 63 | 59 | 56 | 65 | 62 | 58 | 55 | 59 | 57 | 54 | 57 | 55 | 53 | 55 | 53 | 52 | 51 |
| 3 | 62 | 56 | 52 | 48 | 60 | 55 | 51 | 48 | 53 | 50 | 47 | 52 | 49 | 46 | 50 | 47 | 45 | 44 |
| 4 | 57 | 50 | 45 | 42 | 56 | 50 | 45 | 41 | 48 | 44 | 41 | 47 | 43 | 40 | 45 | 42 | 40 | 38 |
| 5 | 53 | 45 | 40 | 36 | 52 | 45 | 40 | 36 | 43 | 39 | 36 | 42 | 38 | 35 | 41 | 38 | 35 | 34 |
| 6 | 49 | 41 | 36 | 32 | 48 | 40 | 35 | 32 | 39 | 35 | 32 | 38 | 34 | 31 | 37 | 34 | 31 | 30 |
| 7 | 45 | 37 | 32 | 28 | 44 | 37 | 32 | 28 | 36 | 31 | 28 | 35 | 31 | 28 | 34 | 31 | 28 | 27 |
| 8 | 42 | 34 | 29 | 25 | 41 | 34 | 29 | 25 | 33 | 28 | 25 | 32 | 28 | 25 | 31 | 28 | 25 | 24 |
| 9 | 40 | 31 | 26 | 23 | 39 | 31 | 26 | 23 | 30 | 26 | 23 | 30 | 26 | 23 | 29 | 25 | 23 | 21 |
| 10 | 37 | 29 | 24 | 21 | 36 | 29 | 24 | 21 | 28 | 24 | 21 | 27 | 23 | 21 | 27 | 23 | 20 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3671 | 3671 | 3671 |
| 5° | 3644 | 3664 | 3685 |
| 10° | 3604 | 3678 | 3779 |
| 15° | 3564 | 3731 | 3954 |
| 20° | 3523 | 3817 | 4175 |
| 25° | 3477 | 3931 | 4405 |
| 30° | 3428 | 4017 | 4771 |
| 35° | 3377 | 4180 | 4827 |
| 40° | 3304 | 4337 | 4272 |
| 45° | 3200 | 3989 | 3807 |
| 50° | 3003 | 3248 | 3154 |
| 55° | 2639 | 2616 | 2677 |
| 60° | 1859 | 1840 | 2116 |
| 65° | 853 | 775 | 822 |
| 70° | 346 | 313 | 375 |
| 75° | 210 | 191 | 216 |
| 80° | 161 | 123 | 142 |
| 85° | 113 | 76 | 76 |



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----------|--------|-----------|--------|-----|------|-------|------|-------|------|------|
| 0°-10° | 211.4 | 3.9 | 2.5 | 0° | 2231 | 2231 | 2231 | 2231 | 2231 | |
| 10°-20° | 622.6 | 11.4 | 7.4 | 5° | 2206 | 2215 | 2218 | 2226 | 2231 | 209 |
| 20°-30° | 999.7 | 18.3 | 11.9 | 15° | 2092 | 2113 | 2190 | 2279 | 2321 | 590 |
| 30°-40° | 1278.8 | 23.4 | 15.2 | 25° | 1915 | 1982 | 2165 | 2330 | 2426 | 882 |
| 40°-50° | 1222.6 | 22.3 | 14.6 | 35° | 1681 | 1812 | 2081 | 2326 | 2403 | 1050 |
| 50°-60° | 840.8 | 15.4 | 10.0 | 45° | 1375 | 1572 | 1714 | 1609 | 1636 | 1055 |
| 60°-70° | 253.1 | 4.6 | 3.0 | 55° | 920 | 1087 | 912 | 888 | 933 | 803 |
| 70°-80° | 37.4 | 0.7 | 0.4 | 65° | 219 | 201 | 199 | 228 | 211 | 252 |
| 80°-90° | 6.1 | 0.1 | 0.1 | 75° | 33 | 31 | 30 | 32 | 34 | 39 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 6 | 5 | 4 | 4 | 4 | 8 |
| 100°-110° | 0.0 | 0.0 | 0.0 | 90° | 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° | 1833.7 | 33.5 | 21.8 | | | | | | | |
| 0°-40° | 3112.5 | 56.9 | 37.1 | | | | | | | |
| 0°-60° | 5175.9 | 94.6 | 61.6 | | | | | | | |
| 0°-90° | 5472.5 | 100.0 | 65.1 | | | | | | | |
| 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° | 5472.5 | 100.0 | 65.1 | | | | | | | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 2231 | 2231 | 2231 | 2231 | 2231 |
| 2.5° | 2219 | 2227 | 2227 | 2228 | 2232 |
| 5° | 2206 | 2215 | 2218 | 2226 | 2231 |
| 7.5° | 2184 | 2194 | 2209 | 2231 | 2242 |
| 10° | 2157 | 2170 | 2201 | 2242 | 2262 |
| 12.5° | 2126 | 2143 | 2194 | 2260 | 2290 |
| 15° | 2092 | 2113 | 2190 | 2279 | 2321 |
| 17.5° | 2053 | 2085 | 2187 | 2300 | 2353 |
| 20° | 2012 | 2053 | 2180 | 2318 | 2384 |
| 22.5° | 1964 | 2019 | 2174 | 2330 | 2406 |
| 25° | 1915 | 1982 | 2165 | 2330 | 2426 |
| 27.5° | 1860 | 1944 | 2142 | 2338 | 2465 |
| 30° | 1804 | 1903 | 2114 | 2361 | 2511 |
| 32.5° | 1743 | 1859 | 2096 | 2387 | 2508 |
| 35° | 1681 | 1812 | 2081 | 2326 | 2403 |
| 37.5° | 1612 | 1760 | 2066 | 2182 | 2210 |
| 40° | 1538 | 1705 | 2019 | 1988 | 1989 |
| 42.5° | 1458 | 1642 | 1905 | 1780 | 1828 |
| 45° | 1375 | 1572 | 1714 | 1609 | 1636 |
| 47.5° | 1281 | 1490 | 1488 | 1410 | 1427 |
| 50° | 1173 | 1392 | 1269 | 1219 | 1232 |
| 52.5° | 1054 | 1263 | 1086 | 1042 | 1071 |
| 55° | 920 | 1087 | 912 | 888 | 933 |
| 57.5° | 760 | 862 | 736 | 743 | 798 |
| 60° | 565 | 597 | 559 | 581 | 643 |
| 62.5° | 369 | 357 | 365 | 401 | 412 |
| 65° | 219 | 201 | 199 | 228 | 211 |
| 67.5° | 121 | 114 | 105 | 123 | 123 |
| 70° | 72 | 68 | 65 | 75 | 78 |
| 72.5° | 49 | 46 | 43 | 49 | 49 |
| 75° | 33 | 31 | 30 | 32 | 34 |
| 77.5° | 23 | 22 | 20 | 21 | 22 |
| 80° | 17 | 15 | 13 | 14 | 15 |
| 82.5° | 10 | 10 | 8 | 7 | 7 |
| 85° | 6 | 5 | 4 | 4 | 4 |
| 87.5° | 4 | 3 | 2 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)