

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: ITL49399

Luminaire Tested: **2PGX-332S38I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL49399
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-332S38I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
FABRICATED WHITE PAINTED METAL BALLAST COVER, FABRICATED
SEMI-SPECULAR METAL PARABOLIC 24-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

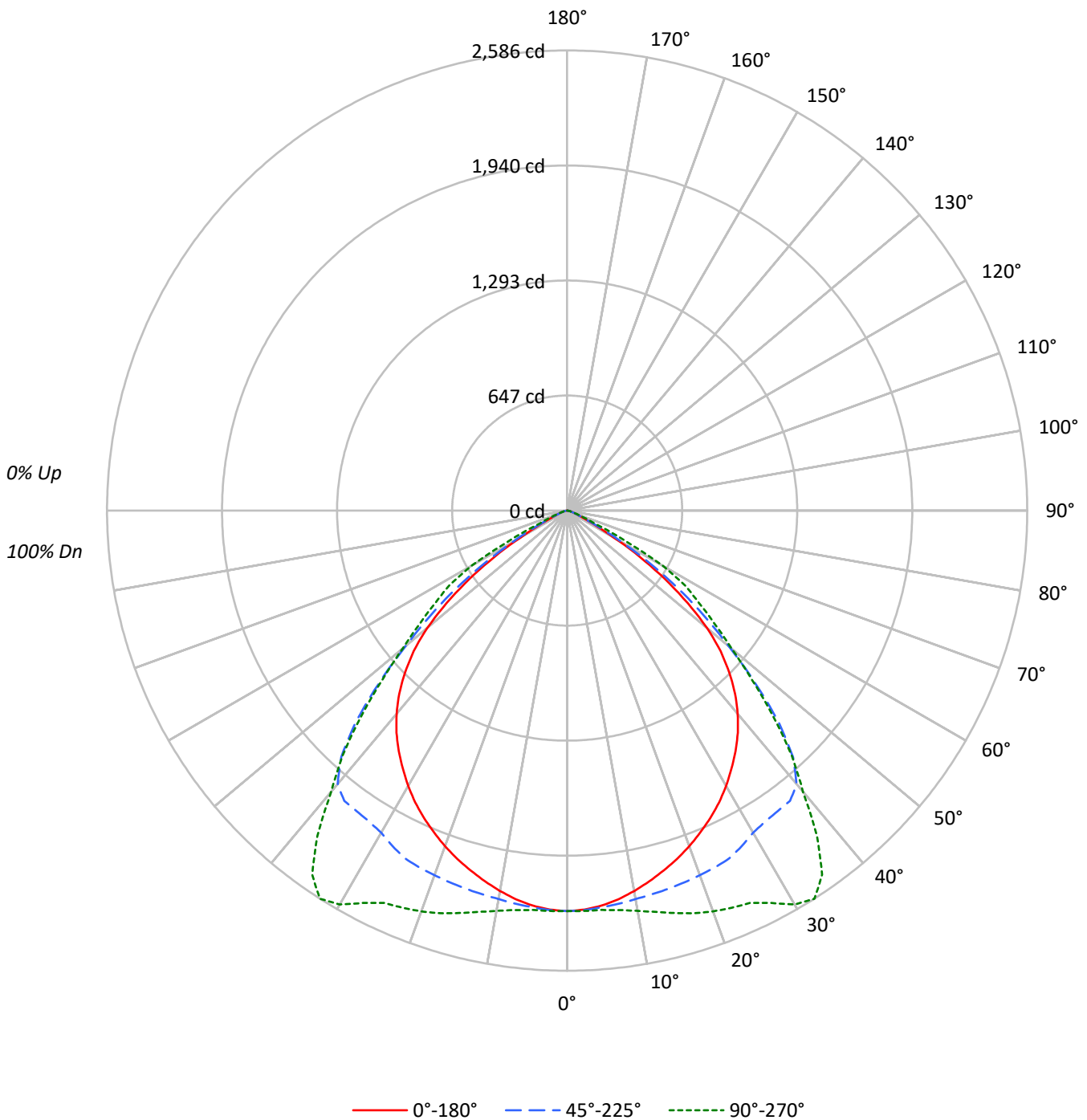
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5213.4 lumens
Efficiency: 62.1%
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.55 / 1.44
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 83.3
Input Voltage (V): NR
Input Current (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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 74 | 74 | 74 | 74 | 72 | 72 | 72 | 72 | 69 | 69 | 69 | 66 | 66 | 66 | 63 | 63 | 63 | 62 | | | | |
| 1 | 69 | 67 | 65 | 63 | 68 | 66 | 64 | 62 | 63 | 62 | 60 | 61 | 60 | 58 | 59 | 58 | 57 | 56 | | | | |
| 2 | 64 | 60 | 57 | 54 | 63 | 59 | 56 | 53 | 57 | 54 | 52 | 55 | 53 | 51 | 53 | 52 | 50 | 49 | | | | |
| 3 | 59 | 54 | 50 | 47 | 58 | 53 | 49 | 46 | 51 | 48 | 45 | 50 | 47 | 45 | 48 | 46 | 44 | 43 | | | | |
| 4 | 55 | 49 | 44 | 41 | 54 | 48 | 44 | 40 | 46 | 43 | 40 | 45 | 42 | 39 | 44 | 41 | 39 | 38 | | | | |
| 5 | 51 | 44 | 39 | 36 | 50 | 43 | 39 | 35 | 42 | 38 | 35 | 41 | 37 | 35 | 40 | 37 | 34 | 33 | | | | |
| 6 | 47 | 40 | 35 | 31 | 46 | 39 | 35 | 31 | 38 | 34 | 31 | 37 | 34 | 31 | 36 | 33 | 31 | 29 | | | | |
| 7 | 44 | 36 | 31 | 28 | 43 | 36 | 31 | 28 | 35 | 31 | 28 | 34 | 30 | 28 | 33 | 30 | 27 | 26 | | | | |
| 8 | 41 | 33 | 28 | 25 | 40 | 33 | 28 | 25 | 32 | 28 | 25 | 31 | 28 | 25 | 31 | 27 | 25 | 24 | | | | |
| 9 | 38 | 31 | 26 | 23 | 37 | 30 | 26 | 23 | 30 | 25 | 23 | 29 | 25 | 22 | 28 | 25 | 22 | 21 | | | | |
| 10 | 36 | 28 | 24 | 21 | 35 | 28 | 24 | 21 | 27 | 23 | 21 | 27 | 23 | 20 | 26 | 23 | 20 | 19 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3704 | 3704 | 3704 |
| 5° | 3680 | 3697 | 3721 |
| 10° | 3627 | 3704 | 3816 |
| 15° | 3567 | 3748 | 3988 |
| 20° | 3514 | 3817 | 4197 |
| 25° | 3459 | 3914 | 4415 |
| 30° | 3395 | 3971 | 4856 |
| 35° | 3314 | 4142 | 5018 |
| 40° | 3203 | 4309 | 4429 |
| 45° | 3002 | 3907 | 3819 |
| 50° | 2626 | 3031 | 3085 |
| 55° | 1922 | 2172 | 2593 |
| 60° | 1004 | 1175 | 2037 |
| 65° | 401 | 432 | 674 |
| 70° | 236 | 221 | 298 |
| 75° | 153 | 134 | 159 |
| 80° | 123 | 85 | 85 |
| 85° | 76 | 38 | 19 |



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----------|--------|-----------|--------|-----|------|-------|------|-------|------|------|
| 0°-10° | 213.3 | 4.1 | 2.5 | 0° | 2251 | 2251 | 2251 | 2251 | 2251 | |
| 10°-20° | 625.3 | 12.0 | 7.4 | 5° | 2228 | 2233 | 2238 | 2247 | 2253 | 211 |
| 20°-30° | 997.8 | 19.1 | 11.9 | 15° | 2094 | 2118 | 2200 | 2295 | 2341 | 591 |
| 30°-40° | 1282.0 | 24.6 | 15.3 | 25° | 1905 | 1973 | 2156 | 2326 | 2432 | 877 |
| 40°-50° | 1190.5 | 22.8 | 14.2 | 35° | 1650 | 1787 | 2062 | 2371 | 2498 | 1030 |
| 50°-60° | 706.9 | 13.6 | 8.4 | 45° | 1290 | 1503 | 1679 | 1599 | 1641 | 986 |
| 60°-70° | 167.1 | 3.2 | 2.0 | 55° | 670 | 794 | 757 | 833 | 904 | 593 |
| 70°-80° | 27.2 | 0.5 | 0.3 | 65° | 103 | 107 | 111 | 160 | 173 | 128 |
| 80°-90° | 3.4 | 0.1 | 0.0 | 75° | 24 | 23 | 21 | 23 | 25 | 28 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 4 | 3 | 2 | 2 | 1 | 4 |
| 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° | 1836.3 | 35.2 | 21.9 | | | | | | | |
| 0°-40° | 3118.3 | 59.8 | 37.1 | | | | | | | |
| 0°-60° | 5015.7 | 96.2 | 59.7 | | | | | | | |
| 0°-90° | 5213.4 | 100.0 | 62.1 | | | | | | | |
| 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° | 5213.4 | 100.0 | 62.1 | | | | | | | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 2251 | 2251 | 2251 | 2251 | 2251 |
| 2.5° | 2244 | 2249 | 2247 | 2249 | 2252 |
| 5° | 2228 | 2233 | 2238 | 2247 | 2253 |
| 7.5° | 2203 | 2212 | 2228 | 2252 | 2264 |
| 10° | 2171 | 2183 | 2217 | 2263 | 2284 |
| 12.5° | 2134 | 2152 | 2208 | 2278 | 2310 |
| 15° | 2094 | 2118 | 2200 | 2295 | 2341 |
| 17.5° | 2053 | 2086 | 2191 | 2313 | 2373 |
| 20° | 2007 | 2050 | 2180 | 2326 | 2397 |
| 22.5° | 1957 | 2015 | 2171 | 2331 | 2416 |
| 25° | 1905 | 1973 | 2156 | 2326 | 2432 |
| 27.5° | 1849 | 1932 | 2126 | 2332 | 2486 |
| 30° | 1787 | 1890 | 2090 | 2365 | 2556 |
| 32.5° | 1719 | 1841 | 2072 | 2412 | 2586 |
| 35° | 1650 | 1787 | 2062 | 2371 | 2498 |
| 37.5° | 1575 | 1727 | 2057 | 2239 | 2306 |
| 40° | 1491 | 1659 | 2006 | 2035 | 2062 |
| 42.5° | 1397 | 1585 | 1880 | 1804 | 1868 |
| 45° | 1290 | 1503 | 1679 | 1599 | 1641 |
| 47.5° | 1170 | 1401 | 1431 | 1374 | 1409 |
| 50° | 1026 | 1263 | 1184 | 1168 | 1205 |
| 52.5° | 854 | 1059 | 968 | 989 | 1042 |
| 55° | 670 | 794 | 757 | 833 | 904 |
| 57.5° | 484 | 531 | 549 | 682 | 786 |
| 60° | 305 | 326 | 357 | 512 | 619 |
| 62.5° | 173 | 187 | 204 | 313 | 360 |
| 65° | 103 | 107 | 111 | 160 | 173 |
| 67.5° | 70 | 68 | 68 | 90 | 101 |
| 70° | 49 | 47 | 46 | 56 | 62 |
| 72.5° | 35 | 33 | 31 | 37 | 39 |
| 75° | 24 | 23 | 21 | 23 | 25 |
| 77.5° | 18 | 16 | 14 | 15 | 17 |
| 80° | 13 | 11 | 9 | 9 | 9 |
| 82.5° | 6 | 6 | 5 | 4 | 4 |
| 85° | 4 | 3 | 2 | 2 | 1 |
| 87.5° | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)