

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: 188P132

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P132
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S46I-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
24 cell semi-specular low iridescent 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: 5516.7 lumens
Efficiency: 65.7%
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.47 / 1.45
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

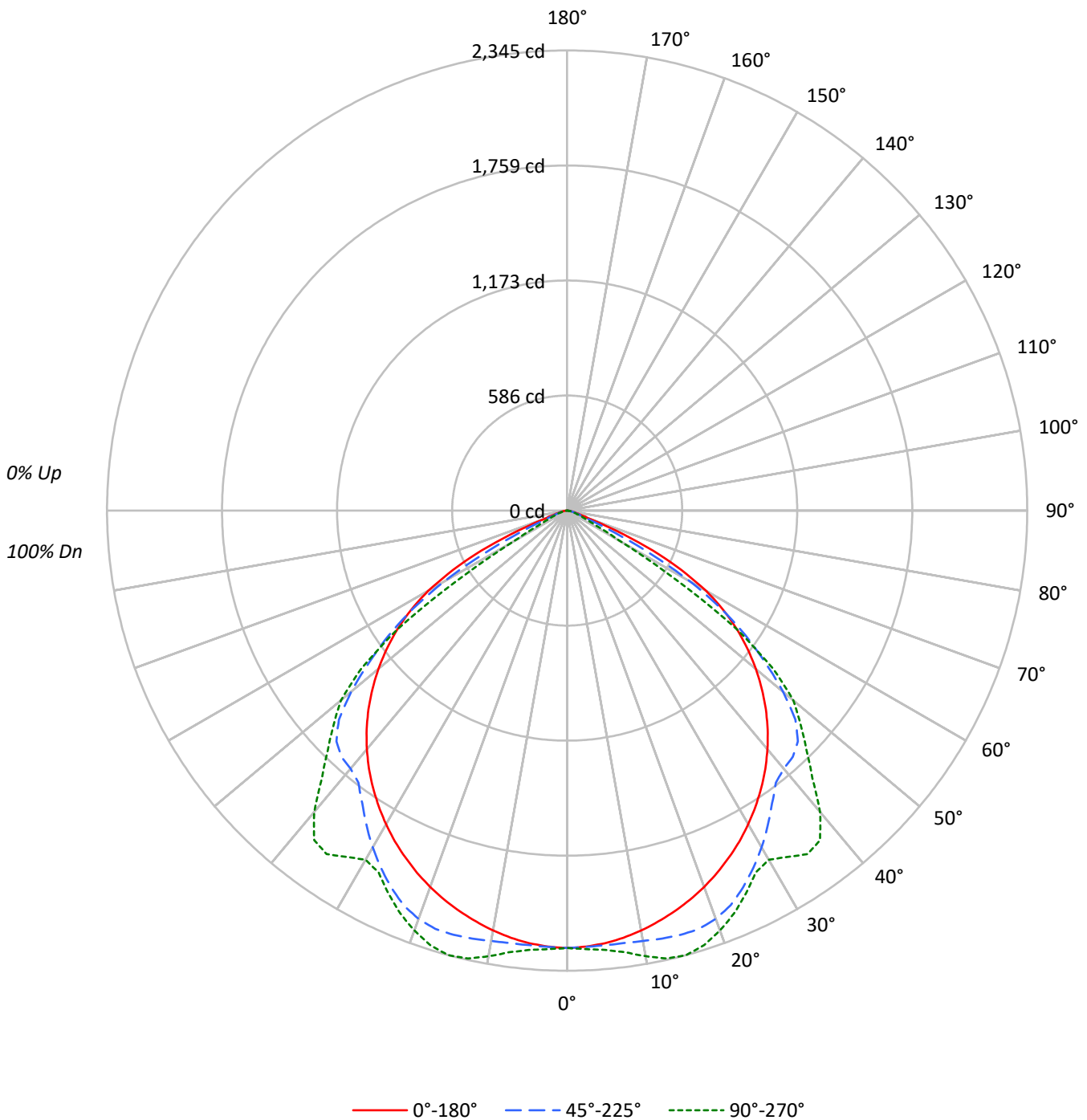
Input Watts (W): 86.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 188P132

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

Luminous Intensity Polar Plot





TEST NUMBER: 188P132

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

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 | 73 | 73 | 73 | 70 | 70 | 70 | 67 | 67 | 67 | 66 |
| 1 | 73 | 70 | 68 | 66 | 71 | 69 | 67 | 65 | 66 | 65 | 63 | 64 | 62 | 61 | 61 | 60 | 59 | 58 |
| 2 | 67 | 63 | 59 | 56 | 66 | 62 | 58 | 55 | 59 | 57 | 54 | 57 | 55 | 53 | 55 | 53 | 52 | 50 |
| 3 | 62 | 56 | 51 | 48 | 61 | 55 | 51 | 47 | 53 | 50 | 47 | 51 | 48 | 46 | 50 | 47 | 45 | 44 |
| 4 | 57 | 50 | 45 | 41 | 56 | 49 | 45 | 41 | 48 | 44 | 40 | 46 | 43 | 40 | 45 | 42 | 39 | 38 |
| 5 | 53 | 45 | 40 | 36 | 52 | 44 | 39 | 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 | 45 | 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 | 25 | 23 |
| 9 | 39 | 31 | 26 | 23 | 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° | 3700 | 3700 | 3700 |
| 5° | 3687 | 3704 | 3744 |
| 10° | 3663 | 3754 | 3887 |
| 15° | 3633 | 3846 | 4030 |
| 20° | 3605 | 3911 | 4022 |
| 25° | 3573 | 3883 | 3945 |
| 30° | 3538 | 3799 | 3937 |
| 35° | 3496 | 3690 | 4330 |
| 40° | 3441 | 3721 | 4347 |
| 45° | 3362 | 3904 | 4049 |
| 50° | 3241 | 3711 | 3887 |
| 55° | 3062 | 3215 | 3053 |
| 60° | 2712 | 2417 | 1039 |
| 65° | 1897 | 1053 | 436 |
| 70° | 592 | 364 | 277 |
| 75° | 321 | 237 | 186 |
| 80° | 220 | 172 | 115 |
| 85° | 152 | 114 | 57 |



TEST NUMBER: 188P132

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

ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----------|--------|-----------|--------|------|------|-------|------|-------|------|------|
| 0°-10° | 212.7 | 3.9 | 2.5 | 0° | 2229 | 2229 | 2229 | 2229 | 2229 | |
| 10°-20° | 629.0 | 11.4 | 7.5 | 5° | 2213 | 2213 | 2223 | 2238 | 2247 | 210 |
| 20°-30° | 960.1 | 17.4 | 11.4 | 15° | 2114 | 2139 | 2238 | 2317 | 2345 | 597 |
| 30°-40° | 1183.7 | 21.5 | 14.1 | 25° | 1951 | 2032 | 2120 | 2136 | 2154 | 899 |
| 40°-50° | 1231.4 | 22.3 | 14.7 | 35° | 1725 | 1834 | 1821 | 1996 | 2137 | 1079 |
| 50°-60° | 938.3 | 17.0 | 11.2 | 45° | 1432 | 1486 | 1663 | 1676 | 1725 | 1102 |
| 60°-70° | 308.7 | 5.6 | 3.7 | 55° | 1058 | 1084 | 1111 | 1071 | 1055 | 938 |
| 70°-80° | 45.3 | 0.8 | 0.5 | 65° | 483 | 456 | 268 | 126 | 111 | 463 |
| 80°-90° | 7.5 | 0.1 | 0.1 | 75° | 50 | 45 | 37 | 31 | 29 | 61 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 8 | 7 | 6 | 4 | 3 | 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° | 1801.8 | 32.7 | 21.5 | 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-40° | 2985.5 | 54.1 | 35.5 | 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-60° | 5155.3 | 93.4 | 61.4 | 180° | 0 | 0 | 0 | 0 | 0 | 0 |
| 0°-90° | 5516.7 | 100.0 | 65.7 | | | | | | | |
| 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° | 5516.7 | 100.0 | 65.7 | | | | | | | |



TEST NUMBER: 188P132

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 0° | 2229 | 2229 | 2229 | 2229 | 2229 |
| 2.5° | 2224 | 2222 | 2225 | 2231 | 2237 |
| 5° | 2213 | 2213 | 2223 | 2238 | 2247 |
| 7.5° | 2196 | 2200 | 2223 | 2254 | 2270 |
| 10° | 2173 | 2181 | 2227 | 2282 | 2306 |
| 12.5° | 2145 | 2161 | 2234 | 2308 | 2338 |
| 15° | 2114 | 2139 | 2238 | 2317 | 2345 |
| 17.5° | 2080 | 2115 | 2235 | 2302 | 2321 |
| 20° | 2041 | 2090 | 2214 | 2258 | 2277 |
| 22.5° | 1998 | 2063 | 2177 | 2202 | 2222 |
| 25° | 1951 | 2032 | 2120 | 2136 | 2154 |
| 27.5° | 1901 | 1996 | 2054 | 2061 | 2080 |
| 30° | 1846 | 1952 | 1982 | 1985 | 2054 |
| 32.5° | 1787 | 1898 | 1903 | 1969 | 2092 |
| 35° | 1725 | 1834 | 1821 | 1996 | 2137 |
| 37.5° | 1659 | 1759 | 1747 | 2009 | 2117 |
| 40° | 1588 | 1672 | 1717 | 1959 | 2006 |
| 42.5° | 1513 | 1582 | 1702 | 1836 | 1850 |
| 45° | 1432 | 1486 | 1663 | 1676 | 1725 |
| 47.5° | 1346 | 1388 | 1578 | 1545 | 1613 |
| 50° | 1255 | 1287 | 1437 | 1420 | 1505 |
| 52.5° | 1159 | 1186 | 1273 | 1283 | 1321 |
| 55° | 1058 | 1084 | 1111 | 1071 | 1055 |
| 57.5° | 945 | 977 | 933 | 773 | 674 |
| 60° | 817 | 841 | 728 | 442 | 313 |
| 62.5° | 656 | 664 | 488 | 217 | 167 |
| 65° | 483 | 456 | 268 | 126 | 111 |
| 67.5° | 275 | 256 | 123 | 87 | 80 |
| 70° | 122 | 121 | 75 | 62 | 57 |
| 72.5° | 73 | 68 | 52 | 44 | 41 |
| 75° | 50 | 45 | 37 | 31 | 29 |
| 77.5° | 35 | 31 | 26 | 22 | 19 |
| 80° | 23 | 21 | 18 | 14 | 12 |
| 82.5° | 15 | 13 | 11 | 8 | 7 |
| 85° | 8 | 7 | 6 | 4 | 3 |
| 87.5° | 3 | 3 | 2 | 2 | 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 |



TEST NUMBER: 188P132

CATALOG NUMBER: 2EP3GX-332S46I-2BC-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)