

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: CORELITE

Report Number: 26900

Luminaire Tested: **R3-WB-1T8-1C-UNV-14-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26900
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WB-1T8-1C-UNV-14-T1
Description: WITH WHITE INTERIOR AND LINEAR PRISMATIC CURVED PLASTIC LENS WITH
WHITE BAFFLE
Light Source: TWO GE 17 WATT T8 LAMPS

F17T8SPX35/ECO. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 3877.3 lumens
Efficiency: 65.7%
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.31 / 1.31
Luminous Opening: Rectangular (W 1.79' x L: 1.93' x H: 0')
CIE Type: Direct

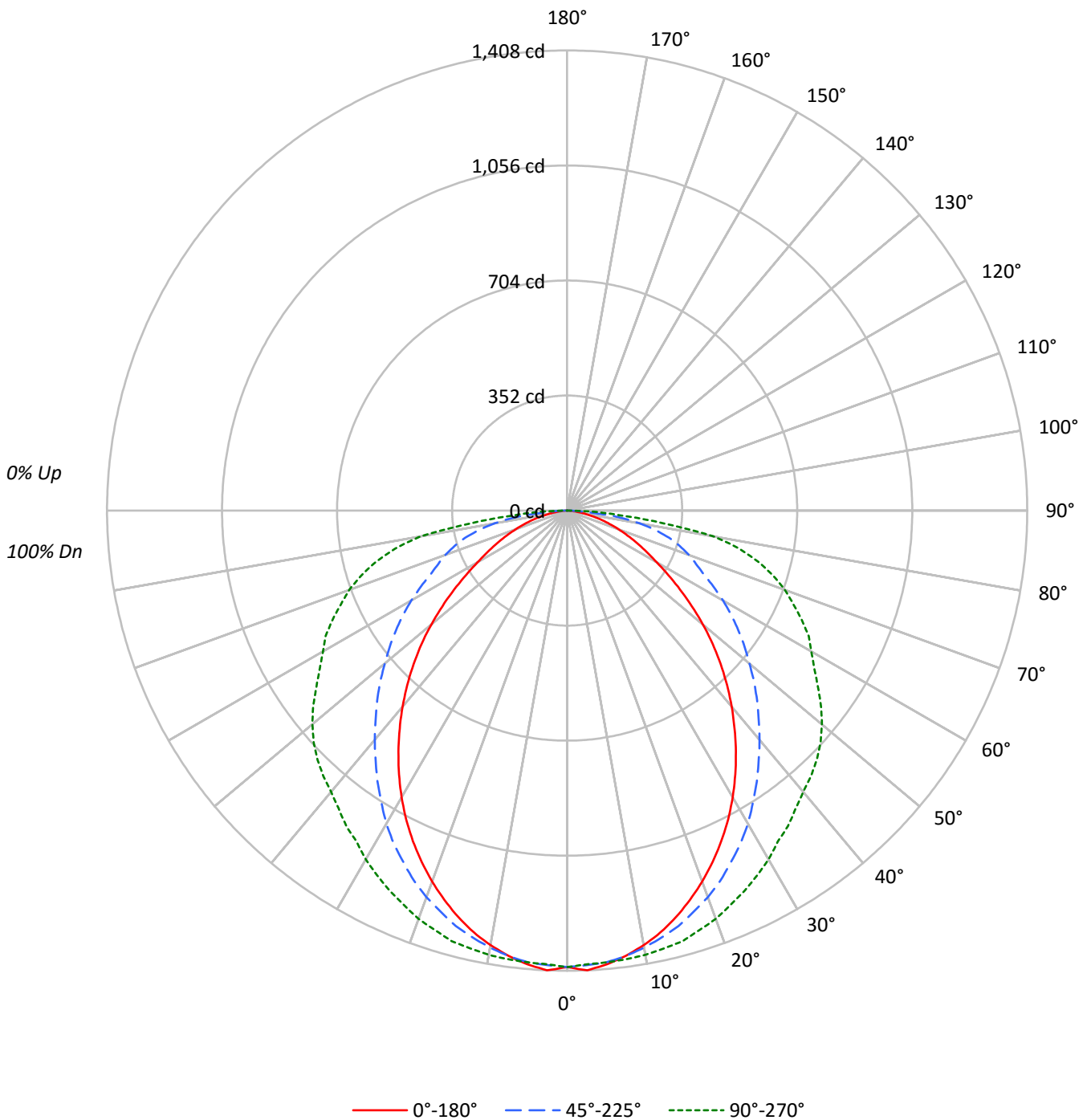
Input Watts (W): 30
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 78 | 78 | 78 | 78 | 76 | 76 | 76 | 76 | 73 | 73 | 73 | | 70 | 70 | 70 | | 67 | 67 | 67 | 66 |
| 1 | 71 | 68 | 65 | 62 | 69 | 66 | 63 | 61 | 63 | 61 | 59 | | 61 | 59 | 57 | | 58 | 57 | 55 | 54 |
| 2 | 64 | 59 | 54 | 50 | 63 | 57 | 53 | 49 | 55 | 51 | 48 | | 53 | 50 | 47 | | 51 | 48 | 46 | 45 |
| 3 | 59 | 51 | 46 | 41 | 57 | 50 | 45 | 41 | 48 | 44 | 40 | | 46 | 43 | 40 | | 45 | 42 | 39 | 37 |
| 4 | 54 | 45 | 40 | 35 | 52 | 45 | 39 | 35 | 43 | 38 | 34 | | 41 | 37 | 34 | | 40 | 36 | 33 | 32 |
| 5 | 49 | 41 | 35 | 30 | 48 | 40 | 34 | 30 | 38 | 33 | 30 | | 37 | 33 | 29 | | 36 | 32 | 29 | 28 |
| 6 | 46 | 37 | 31 | 26 | 44 | 36 | 30 | 26 | 35 | 30 | 26 | | 34 | 29 | 26 | | 33 | 29 | 25 | 24 |
| 7 | 42 | 33 | 27 | 23 | 41 | 33 | 27 | 23 | 32 | 27 | 23 | | 31 | 26 | 23 | | 30 | 26 | 23 | 21 |
| 8 | 39 | 30 | 25 | 21 | 38 | 30 | 24 | 21 | 29 | 24 | 21 | | 28 | 24 | 20 | | 27 | 23 | 20 | 19 |
| 9 | 37 | 28 | 22 | 19 | 36 | 27 | 22 | 19 | 27 | 22 | 19 | | 26 | 22 | 18 | | 25 | 21 | 18 | 17 |
| 10 | 35 | 26 | 20 | 17 | 34 | 25 | 20 | 17 | 25 | 20 | 17 | | 24 | 20 | 17 | | 24 | 20 | 17 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4352 | 4352 | 4352 |
| 5° | 4359 | 4339 | 4339 |
| 10° | 4272 | 4295 | 4367 |
| 15° | 4153 | 4245 | 4400 |
| 20° | 4004 | 4174 | 4409 |
| 25° | 3837 | 4080 | 4415 |
| 30° | 3645 | 3979 | 4434 |
| 35° | 3424 | 3848 | 4481 |
| 40° | 3186 | 3725 | 4570 |
| 45° | 2927 | 3621 | 4757 |
| 50° | 2630 | 3527 | 4933 |
| 55° | 2294 | 3475 | 5084 |
| 60° | 1971 | 3435 | 5375 |
| 65° | 1744 | 3400 | 5840 |
| 70° | 1525 | 3607 | 6462 |
| 75° | 1284 | 3894 | 7286 |
| 80° | 980 | 4060 | 8193 |
| 85° | 633 | 2817 | 5713 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 131.7 | 3.4 | 2.2 |
| 10°-20° | 371.9 | 9.6 | 6.3 |
| 20°-30° | 549.3 | 14.2 | 9.3 |
| 30°-40° | 640.8 | 16.5 | 10.9 |
| 40°-50° | 651.5 | 16.8 | 11.0 |
| 50°-60° | 587.6 | 15.2 | 10.0 |
| 60°-70° | 483.5 | 12.5 | 8.2 |
| 70°-80° | 352.2 | 9.1 | 6.0 |
| 80°-90° | 109.0 | 2.8 | 1.8 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 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° | 1052.8 | 27.2 | 17.8 |
| 0°-40° | 1693.5 | 43.7 | 28.7 |
| 0°-60° | 2932.6 | 75.6 | 49.7 |
| 0°-90° | 3877.3 | 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° | 3877.3 | 100.0 | 65.7 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1397 | 1397 | 1397 | 1397 | 1397 | |
| 5° | 1394 | 1390 | 1387 | 1386 | 1387 | 132 |
| 15° | 1288 | 1296 | 1316 | 1346 | 1364 | 362 |
| 25° | 1116 | 1139 | 1187 | 1245 | 1284 | 513 |
| 35° | 900 | 934 | 1012 | 1110 | 1178 | 562 |
| 45° | 664 | 703 | 822 | 982 | 1080 | 511 |
| 55° | 422 | 470 | 640 | 836 | 936 | 379 |
| 65° | 236 | 282 | 461 | 691 | 792 | 236 |
| 75° | 107 | 155 | 324 | 512 | 605 | 114 |
| 85° | 18 | 38 | 79 | 128 | 160 | 23 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1408.0 | 1401.5 | 1392.4 | 1388.3 | 1389.4 |
| 5° | 1393.8 | 1390.3 | 1387.4 | 1386.1 | 1387.4 |
| 7.5° | 1374.0 | 1372.6 | 1374.6 | 1378.9 | 1384.6 |
| 10° | 1350.2 | 1352.2 | 1357.7 | 1371.5 | 1380.3 |
| 12.5° | 1321.8 | 1326.3 | 1337.9 | 1359.1 | 1372.0 |
| 15° | 1287.6 | 1295.9 | 1316.0 | 1346.2 | 1364.0 |
| 17.5° | 1249.3 | 1260.1 | 1286.9 | 1324.3 | 1345.7 |
| 20° | 1207.7 | 1221.9 | 1258.8 | 1299.3 | 1329.6 |
| 22.5° | 1163.5 | 1181.0 | 1225.5 | 1276.7 | 1305.8 |
| 25° | 1116.1 | 1138.7 | 1186.7 | 1245.0 | 1284.1 |
| 27.5° | 1066.2 | 1091.5 | 1148.9 | 1215.1 | 1258.6 |
| 30° | 1013.2 | 1041.4 | 1106.0 | 1182.1 | 1232.5 |
| 32.5° | 957.2 | 988.7 | 1058.4 | 1147.9 | 1200.0 |
| 35° | 900.3 | 933.9 | 1011.6 | 1109.9 | 1178.1 |
| 37.5° | 841.7 | 877.3 | 962.5 | 1080.4 | 1148.9 |
| 40° | 783.2 | 820.1 | 915.8 | 1043.0 | 1123.5 |
| 42.5° | 724.0 | 762.1 | 867.9 | 1009.6 | 1103.3 |
| 45° | 664.2 | 703.2 | 821.7 | 982.0 | 1079.7 |
| 47.5° | 603.9 | 643.6 | 775.6 | 950.1 | 1051.6 |
| 50° | 542.6 | 584.1 | 727.7 | 915.7 | 1017.6 |
| 52.5° | 481.3 | 526.0 | 684.5 | 876.4 | 979.0 |
| 55° | 422.3 | 469.8 | 639.7 | 835.6 | 936.0 |
| 57.5° | 366.7 | 415.7 | 595.3 | 790.0 | 896.7 |
| 60° | 316.3 | 367.1 | 551.2 | 751.8 | 862.6 |
| 62.5° | 274.1 | 323.2 | 504.6 | 720.7 | 833.3 |
| 65° | 236.5 | 282.2 | 461.2 | 691.1 | 792.2 |
| 67.5° | 200.8 | 246.7 | 426.8 | 651.0 | 749.2 |
| 70° | 167.4 | 213.8 | 395.9 | 608.4 | 709.4 |
| 72.5° | 136.0 | 183.6 | 361.1 | 562.6 | 661.0 |
| 75° | 106.7 | 155.2 | 323.5 | 512.5 | 605.2 |
| 77.5° | 79.0 | 131.4 | 277.3 | 453.4 | 539.4 |
| 80° | 54.6 | 103.4 | 226.3 | 382.6 | 456.6 |
| 82.5° | 34.2 | 71.0 | 161.8 | 255.4 | 294.9 |
| 85° | 17.7 | 38.5 | 78.8 | 127.8 | 159.8 |
| 87.5° | 3.7 | 9.0 | 25.6 | 57.3 | 78.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)