

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P701597

Luminaire Tested: **RX-WO-44HB2750-UNV-22_2700K**

Issue Date: 8/21/2023



Test Information

Test Method: LM-79-08
Report Number: P701597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P302127)
Test Lab: INNOVATION CENTER
Issue Date: 8/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-44HB2750-UNV-22_2700K
Description: 2X2 4400 LUMEN CLASS RX TROFFER WITH BIO UP LEDS AT 2700K CCT AND ROUND LENS

Light Source: -
Ballast/Driver: -

Summary

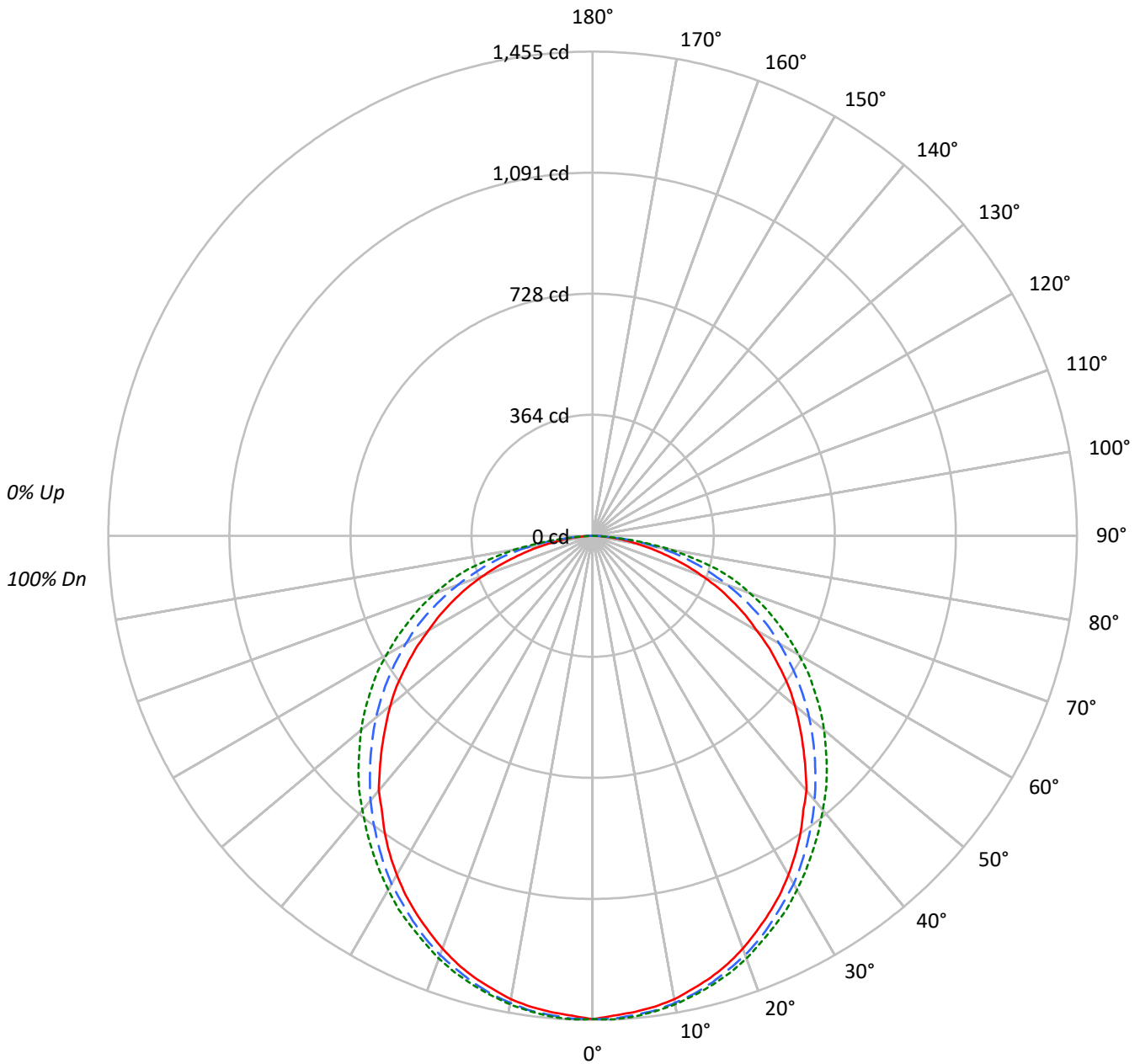
Lumens per Lamp: N/A
Luminaire Lumens: 4163.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
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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CATALOG NUMBER: RX-WO-44HB2750-UNV-22_2700K

Luminous Intensity Polar Plot





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CATALOG NUMBER: RX-WO-44HB2750-UNV-22_2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4121 | 4121 | 4121 |
| 5° | 4092 | 4117 | 4131 |
| 10° | 4075 | 4107 | 4120 |
| 15° | 4036 | 4082 | 4102 |
| 20° | 3986 | 4047 | 4081 |
| 25° | 3923 | 4000 | 4049 |
| 30° | 3855 | 3958 | 4024 |
| 35° | 3773 | 3897 | 3998 |
| 40° | 3702 | 3844 | 3985 |
| 45° | 3588 | 3787 | 3993 |
| 50° | 3502 | 3750 | 4007 |
| 55° | 3381 | 3714 | 4024 |
| 60° | 3230 | 3676 | 4057 |
| 65° | 3100 | 3642 | 4094 |
| 70° | 2882 | 3570 | 4165 |
| 75° | 2556 | 3489 | 4249 |
| 80° | 2160 | 3260 | 3845 |
| 85° | 1533 | 2259 | 2188 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.3 | 3.3 |
| 10°-20° | 391.3 | 9.4 |
| 20°-30° | 587.9 | 14.1 |
| 30°-40° | 703.4 | 16.9 |
| 40°-50° | 729.4 | 17.5 |
| 50°-60° | 670.8 | 16.1 |
| 60°-70° | 532.4 | 12.8 |
| 70°-80° | 328.8 | 7.9 |
| 80°-90° | 81.7 | 2.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1116.5 | 26.8 |
| 0°-40° | 1819.9 | 43.7 |
| 0°-60° | 3220.1 | 77.3 |
| 0°-90° | 4163.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4163.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1452 | 1452 | 1452 | 1452 | 1452 | |
| 5° | 1437 | 1441 | 1446 | 1450 | 1450 | 136 |
| 15° | 1374 | 1378 | 1390 | 1396 | 1396 | 387 |
| 25° | 1253 | 1262 | 1278 | 1291 | 1293 | 577 |
| 35° | 1089 | 1101 | 1125 | 1147 | 1154 | 681 |
| 45° | 894 | 910 | 944 | 982 | 995 | 691 |
| 55° | 684 | 701 | 751 | 802 | 814 | 612 |
| 65° | 462 | 482 | 542 | 594 | 610 | 457 |
| 75° | 233 | 264 | 318 | 368 | 388 | 249 |
| 85° | 47 | 61 | 69 | 69 | 67 | 59 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P701597

CATALOG NUMBER: RX-WO-44HB2750-UNV-22_2700K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1452.4 | 1452.4 | 1452.4 | 1452.4 | 1452.4 |
| 2.5° | 1443.3 | 1445.5 | 1452.4 | 1454.6 | 1454.6 |
| 5° | 1436.7 | 1441.1 | 1445.5 | 1450.2 | 1450.2 |
| 7.5° | 1427.6 | 1432.2 | 1438.9 | 1441.1 | 1441.1 |
| 10° | 1414.3 | 1418.8 | 1425.4 | 1429.8 | 1429.8 |
| 12.5° | 1394.0 | 1400.8 | 1409.7 | 1414.3 | 1414.3 |
| 15° | 1373.9 | 1378.3 | 1389.6 | 1396.2 | 1396.2 |
| 17.5° | 1349.3 | 1353.7 | 1365.0 | 1373.9 | 1376.1 |
| 20° | 1320.1 | 1324.6 | 1340.3 | 1349.3 | 1351.5 |
| 22.5° | 1286.5 | 1293.2 | 1311.1 | 1320.1 | 1322.3 |
| 25° | 1252.9 | 1261.8 | 1277.5 | 1290.9 | 1293.2 |
| 27.5° | 1217.1 | 1225.9 | 1241.6 | 1259.5 | 1264.0 |
| 30° | 1176.6 | 1185.7 | 1208.0 | 1223.7 | 1228.1 |
| 32.5° | 1134.2 | 1145.2 | 1167.8 | 1187.9 | 1192.3 |
| 35° | 1089.3 | 1100.6 | 1125.1 | 1147.4 | 1154.3 |
| 37.5° | 1040.0 | 1055.7 | 1082.4 | 1107.2 | 1116.0 |
| 40° | 999.5 | 1008.6 | 1037.8 | 1066.9 | 1075.8 |
| 42.5° | 945.8 | 959.3 | 990.7 | 1024.3 | 1037.8 |
| 45° | 894.2 | 909.9 | 943.6 | 981.6 | 995.1 |
| 47.5° | 842.7 | 858.4 | 896.5 | 936.9 | 950.2 |
| 50° | 793.4 | 806.9 | 849.4 | 894.2 | 907.7 |
| 52.5° | 741.9 | 755.4 | 800.0 | 849.4 | 862.8 |
| 55° | 683.5 | 701.4 | 750.7 | 802.5 | 813.5 |
| 57.5° | 629.8 | 647.7 | 699.2 | 748.5 | 768.6 |
| 60° | 569.2 | 591.7 | 647.7 | 697.0 | 714.9 |
| 62.5° | 517.7 | 535.6 | 598.4 | 647.7 | 663.4 |
| 65° | 461.7 | 481.8 | 542.4 | 594.0 | 609.7 |
| 67.5° | 408.0 | 428.1 | 486.3 | 538.0 | 558.1 |
| 70° | 347.4 | 369.7 | 430.3 | 481.8 | 502.0 |
| 72.5° | 291.4 | 318.2 | 371.9 | 425.9 | 448.2 |
| 75° | 233.1 | 264.5 | 318.2 | 367.5 | 387.6 |
| 77.5° | 181.5 | 208.5 | 260.0 | 293.7 | 304.7 |
| 80° | 132.2 | 159.2 | 199.5 | 221.8 | 235.3 |
| 82.5° | 89.6 | 105.3 | 136.7 | 152.4 | 152.4 |
| 85° | 47.1 | 60.6 | 69.4 | 69.4 | 67.2 |
| 87.5° | 15.7 | 17.9 | 13.5 | 6.6 | 4.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)