

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: P217904

Luminaire Tested: **R2X-WO-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35816-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2X-WO-6L40-LD5-UNV-22
Description: CLASS R2X 2X2 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

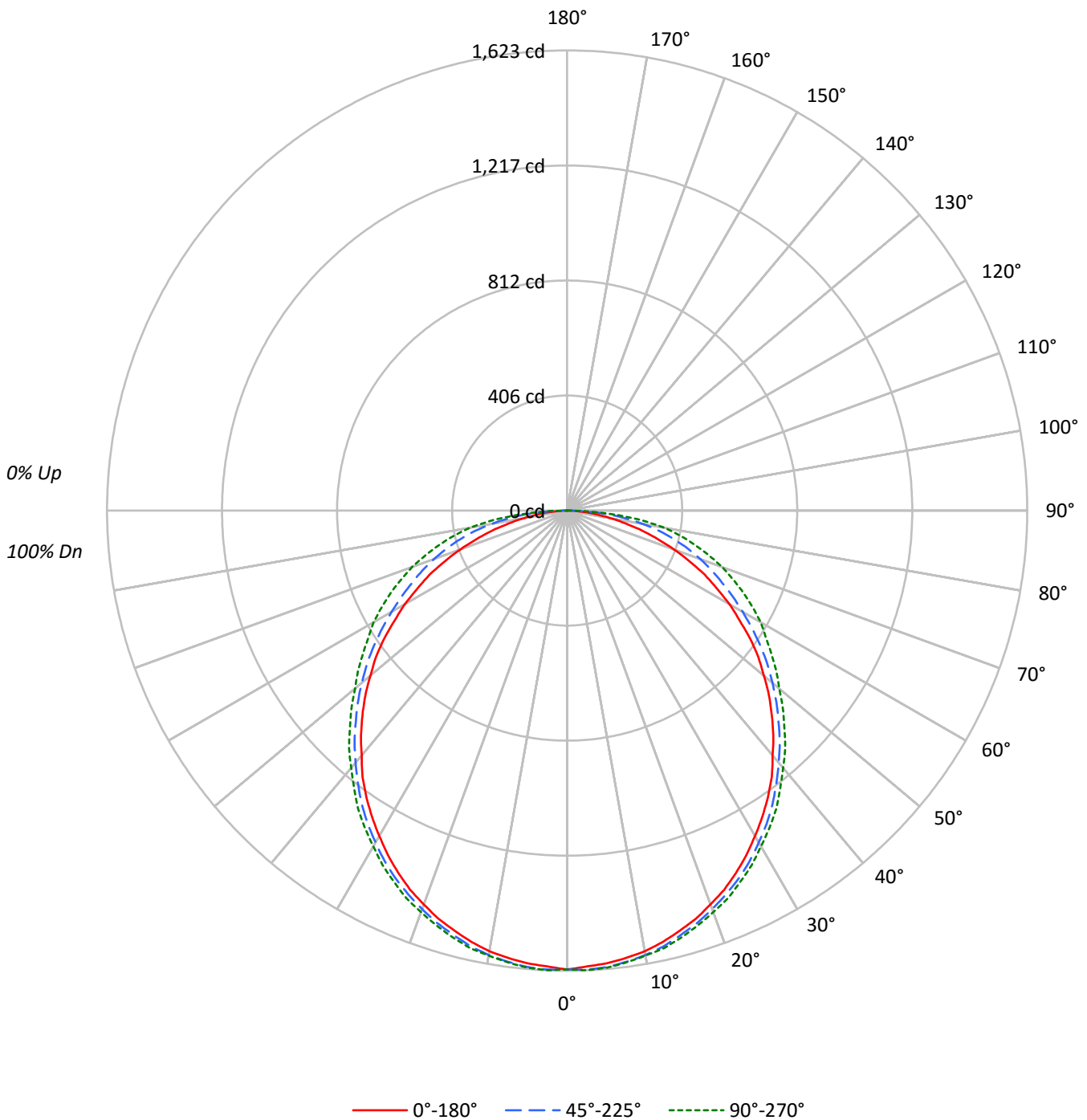
Input Watts (W): 43.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 108 | 103 | 98 | 94 | 105 | 101 | 96 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 86 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 61 | 55 | 50 | 48 |
| 5 | 75 | 62 | 52 | 46 | 73 | 60 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 42 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4355 | 4355 | 4355 |
| 5° | 4329 | 4365 | 4371 |
| 10° | 4313 | 4349 | 4355 |
| 15° | 4273 | 4316 | 4341 |
| 20° | 4234 | 4284 | 4316 |
| 25° | 4185 | 4251 | 4291 |
| 30° | 4118 | 4200 | 4249 |
| 35° | 4054 | 4149 | 4222 |
| 40° | 3961 | 4078 | 4164 |
| 45° | 3886 | 4013 | 4122 |
| 50° | 3792 | 3959 | 4089 |
| 55° | 3697 | 3905 | 4124 |
| 60° | 3560 | 3847 | 4241 |
| 65° | 3407 | 3845 | 4367 |
| 70° | 3161 | 3929 | 4576 |
| 75° | 2862 | 4062 | 4847 |
| 80° | 2408 | 4197 | 5367 |
| 85° | 1920 | 4316 | 5483 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.2 | 3.2 |
| 10°-20° | 436.8 | 9.2 |
| 20°-30° | 658.3 | 13.9 |
| 30°-40° | 787.9 | 16.6 |
| 40°-50° | 813.4 | 17.2 |
| 50°-60° | 744.3 | 15.7 |
| 60°-70° | 601.8 | 12.7 |
| 70°-80° | 399.7 | 8.4 |
| 80°-90° | 140.7 | 3.0 |
| 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° | 1248.3 | 26.4 |
| 0°-40° | 2036.2 | 43.0 |
| 0°-60° | 3593.9 | 75.9 |
| 0°-90° | 4736.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4736.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1618 | 1618 | 1618 | 1618 | 1618 | |
| 5° | 1603 | 1607 | 1616 | 1618 | 1618 | 152 |
| 15° | 1534 | 1540 | 1549 | 1556 | 1558 | 433 |
| 25° | 1410 | 1414 | 1432 | 1443 | 1445 | 649 |
| 35° | 1234 | 1239 | 1263 | 1276 | 1285 | 771 |
| 45° | 1021 | 1032 | 1054 | 1077 | 1083 | 788 |
| 55° | 788 | 799 | 832 | 864 | 879 | 703 |
| 65° | 535 | 553 | 604 | 668 | 686 | 526 |
| 75° | 275 | 308 | 391 | 444 | 466 | 290 |
| 85° | 62 | 91 | 140 | 164 | 178 | 74 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P217904

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1618.2 | 1618.2 | 1618.2 | 1618.2 | 1618.2 |
| 2.5° | 1609.3 | 1611.6 | 1620.4 | 1622.7 | 1622.7 |
| 5° | 1602.7 | 1607.1 | 1616.0 | 1618.2 | 1618.2 |
| 7.5° | 1591.6 | 1596.0 | 1604.9 | 1609.3 | 1607.1 |
| 10° | 1578.3 | 1580.5 | 1591.6 | 1596.0 | 1593.8 |
| 12.5° | 1558.3 | 1562.7 | 1573.8 | 1578.3 | 1580.5 |
| 15° | 1533.9 | 1540.5 | 1549.4 | 1556.1 | 1558.3 |
| 17.5° | 1509.4 | 1513.9 | 1525.0 | 1531.6 | 1533.9 |
| 20° | 1478.4 | 1482.8 | 1496.1 | 1505.0 | 1507.2 |
| 22.5° | 1447.3 | 1449.5 | 1465.0 | 1476.1 | 1480.6 |
| 25° | 1409.6 | 1414.0 | 1431.8 | 1442.9 | 1445.1 |
| 27.5° | 1369.6 | 1376.3 | 1394.0 | 1405.1 | 1409.6 |
| 30° | 1325.2 | 1334.1 | 1351.8 | 1365.2 | 1367.4 |
| 32.5° | 1280.8 | 1289.7 | 1309.7 | 1325.2 | 1327.4 |
| 35° | 1234.2 | 1238.6 | 1263.1 | 1276.4 | 1285.2 |
| 37.5° | 1185.4 | 1192.0 | 1212.0 | 1229.8 | 1234.2 |
| 40° | 1127.6 | 1141.0 | 1160.9 | 1178.7 | 1185.4 |
| 42.5° | 1076.6 | 1085.5 | 1109.9 | 1127.6 | 1138.7 |
| 45° | 1021.1 | 1032.2 | 1054.4 | 1076.6 | 1083.2 |
| 47.5° | 965.6 | 976.7 | 1001.1 | 1023.3 | 1032.2 |
| 50° | 905.7 | 916.8 | 945.6 | 970.0 | 976.7 |
| 52.5° | 850.2 | 861.3 | 890.1 | 914.5 | 930.1 |
| 55° | 788.0 | 799.1 | 832.4 | 863.5 | 879.0 |
| 57.5° | 721.4 | 739.2 | 772.5 | 810.2 | 830.2 |
| 60° | 661.5 | 674.8 | 714.8 | 765.8 | 788.0 |
| 62.5° | 594.9 | 612.7 | 659.3 | 717.0 | 737.0 |
| 65° | 535.0 | 552.7 | 603.8 | 668.2 | 685.9 |
| 67.5° | 466.2 | 488.3 | 552.7 | 614.9 | 632.6 |
| 70° | 401.8 | 426.2 | 499.4 | 559.4 | 581.6 |
| 72.5° | 335.2 | 366.3 | 446.2 | 503.9 | 523.9 |
| 75° | 275.3 | 308.5 | 390.7 | 444.0 | 466.2 |
| 77.5° | 210.9 | 255.3 | 333.0 | 388.5 | 408.4 |
| 80° | 155.4 | 199.8 | 270.8 | 326.3 | 346.3 |
| 82.5° | 106.5 | 144.3 | 206.4 | 253.1 | 266.4 |
| 85° | 62.2 | 91.0 | 139.8 | 164.3 | 177.6 |
| 87.5° | 26.6 | 42.2 | 64.4 | 79.9 | 77.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)