

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: P385156

Luminaire Tested: **22ID-65-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-65-L840-CNC
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

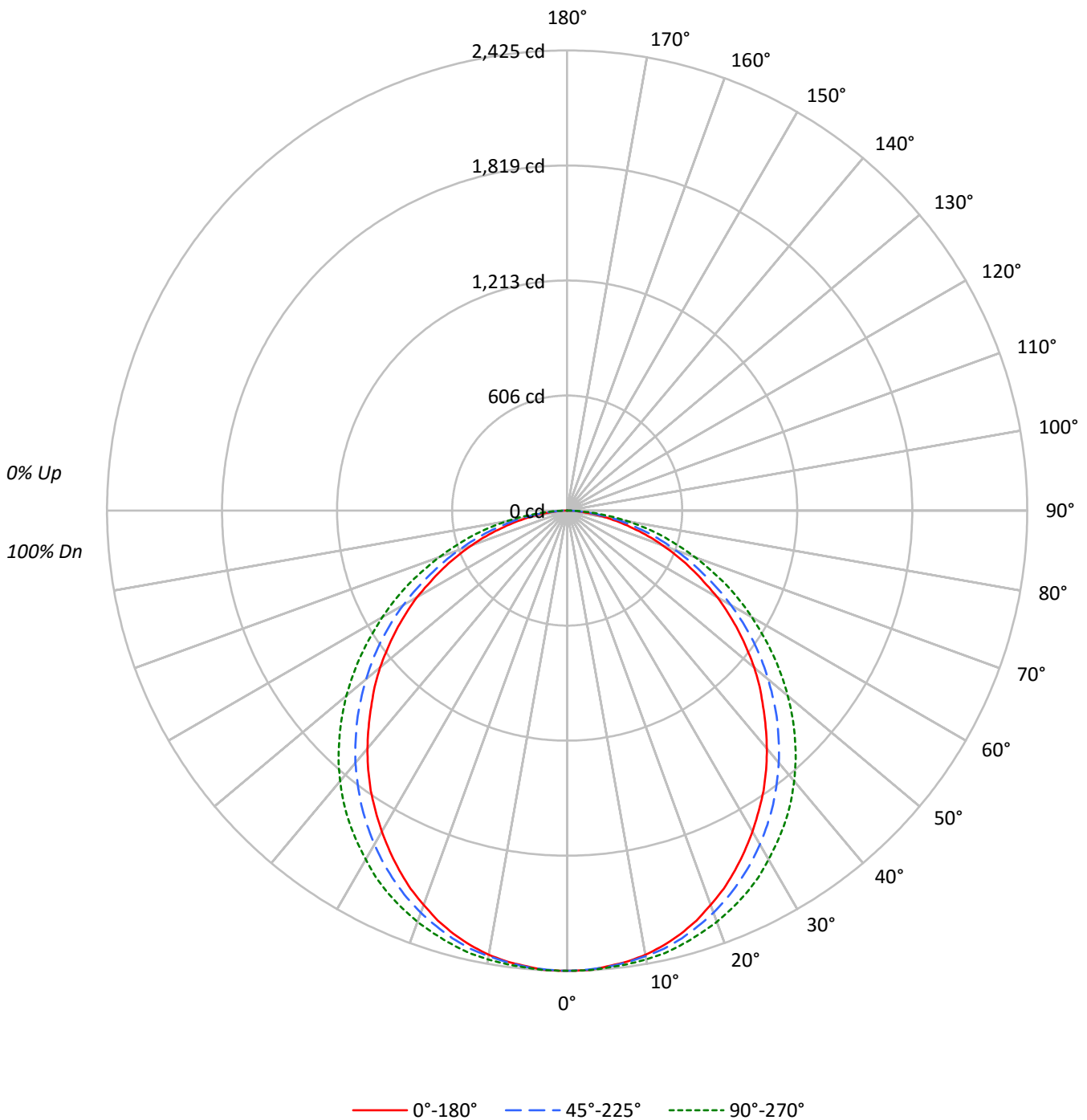
Lumens per Lamp: N/A
Luminaire Lumens: 6733.4 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 56.6
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | | 82 | 78 | 74 | | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 63 | | 72 | 67 | 62 | | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | | 65 | 58 | 53 | | 62 | 57 | 53 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | | 58 | 51 | 46 | | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 41 | 54 | 47 | 41 | | 52 | 46 | 41 | | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 49 | 42 | 36 | | 48 | 41 | 36 | | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | | 44 | 37 | 32 | | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 42 | 34 | 29 | | 40 | 34 | 29 | | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | | 37 | 31 | 26 | | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6526 | 6526 | 6526 |
| 5° | 6514 | 6523 | 6532 |
| 10° | 6497 | 6515 | 6562 |
| 15° | 6435 | 6501 | 6586 |
| 20° | 6332 | 6458 | 6605 |
| 25° | 6212 | 6394 | 6616 |
| 30° | 6069 | 6311 | 6596 |
| 35° | 5925 | 6215 | 6583 |
| 40° | 5751 | 6097 | 6538 |
| 45° | 5558 | 5959 | 6463 |
| 50° | 5389 | 5787 | 6356 |
| 55° | 5163 | 5609 | 6215 |
| 60° | 4917 | 5374 | 6051 |
| 65° | 4585 | 5061 | 5883 |
| 70° | 4223 | 4757 | 5639 |
| 75° | 3743 | 4415 | 5403 |
| 80° | 3158 | 3947 | 5001 |
| 85° | 2306 | 3041 | 3986 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 229.6 | 3.4 |
| 10°-20° | 658.6 | 9.8 |
| 20°-30° | 993.3 | 14.8 |
| 30°-40° | 1185.8 | 17.6 |
| 40°-50° | 1212.0 | 18.0 |
| 50°-60° | 1074.7 | 16.0 |
| 60°-70° | 801.1 | 11.9 |
| 70°-80° | 457.7 | 6.8 |
| 80°-90° | 120.7 | 1.8 |
| 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° | 1881.4 | 27.9 |
| 0°-40° | 3067.3 | 45.6 |
| 0°-60° | 5353.9 | 79.5 |
| 0°-90° | 6733.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6733.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2425 | 2425 | 2425 | 2425 | 2425 | |
| 5° | 2412 | 2412 | 2415 | 2415 | 2418 | 229 |
| 15° | 2310 | 2316 | 2333 | 2354 | 2364 | 651 |
| 25° | 2092 | 2109 | 2153 | 2201 | 2228 | 963 |
| 35° | 1804 | 1827 | 1892 | 1967 | 2004 | 1127 |
| 45° | 1460 | 1491 | 1566 | 1651 | 1698 | 1128 |
| 55° | 1100 | 1121 | 1196 | 1280 | 1325 | 983 |
| 65° | 720 | 737 | 795 | 876 | 924 | 714 |
| 75° | 360 | 377 | 425 | 489 | 520 | 384 |
| 85° | 75 | 78 | 98 | 122 | 129 | 93 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P385156

CATALOG NUMBER: 22ID-65-L840-CNC

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 |
| 2.5° | 2425.1 | 2421.7 | 2421.7 | 2421.7 | 2425.1 |
| 5° | 2411.5 | 2411.5 | 2414.9 | 2414.9 | 2418.3 |
| 7.5° | 2398.0 | 2398.0 | 2401.4 | 2404.8 | 2411.5 |
| 10° | 2377.6 | 2377.6 | 2384.4 | 2394.6 | 2401.4 |
| 12.5° | 2347.0 | 2350.4 | 2364.0 | 2377.6 | 2387.8 |
| 15° | 2309.7 | 2316.4 | 2333.4 | 2353.8 | 2364.0 |
| 17.5° | 2265.5 | 2272.3 | 2296.1 | 2323.2 | 2336.8 |
| 20° | 2211.2 | 2224.7 | 2255.3 | 2289.3 | 2306.3 |
| 22.5° | 2156.8 | 2170.4 | 2207.8 | 2248.5 | 2268.9 |
| 25° | 2092.3 | 2109.3 | 2153.4 | 2201.0 | 2228.1 |
| 27.5° | 2024.3 | 2044.7 | 2095.7 | 2150.0 | 2180.6 |
| 30° | 1953.0 | 1976.8 | 2031.1 | 2092.3 | 2122.8 |
| 32.5° | 1878.3 | 1902.1 | 1963.2 | 2031.1 | 2065.1 |
| 35° | 1803.6 | 1827.3 | 1891.9 | 1966.6 | 2004.0 |
| 37.5° | 1722.0 | 1745.8 | 1813.8 | 1895.3 | 1936.0 |
| 40° | 1637.1 | 1664.3 | 1735.6 | 1817.2 | 1861.3 |
| 42.5° | 1548.8 | 1579.4 | 1650.7 | 1739.0 | 1783.2 |
| 45° | 1460.5 | 1491.1 | 1565.8 | 1650.7 | 1698.3 |
| 47.5° | 1375.6 | 1399.4 | 1474.1 | 1562.4 | 1610.0 |
| 50° | 1287.3 | 1307.7 | 1382.4 | 1470.7 | 1518.3 |
| 52.5° | 1192.2 | 1219.4 | 1290.7 | 1379.0 | 1423.2 |
| 55° | 1100.5 | 1120.9 | 1195.6 | 1280.5 | 1324.7 |
| 57.5° | 1005.4 | 1025.8 | 1097.1 | 1182.0 | 1222.8 |
| 60° | 913.7 | 934.1 | 998.6 | 1083.5 | 1124.3 |
| 62.5° | 811.8 | 832.2 | 896.7 | 985.0 | 1025.8 |
| 65° | 720.1 | 737.1 | 794.8 | 876.3 | 923.9 |
| 67.5° | 628.4 | 645.3 | 699.7 | 777.8 | 815.2 |
| 70° | 536.7 | 550.2 | 604.6 | 675.9 | 716.7 |
| 72.5° | 448.3 | 461.9 | 516.3 | 580.8 | 614.8 |
| 75° | 360.0 | 377.0 | 424.6 | 489.1 | 519.7 |
| 77.5° | 278.5 | 295.5 | 336.3 | 394.0 | 421.2 |
| 80° | 203.8 | 217.4 | 254.7 | 298.9 | 322.7 |
| 82.5° | 135.9 | 146.1 | 173.2 | 210.6 | 227.6 |
| 85° | 74.7 | 78.1 | 98.5 | 122.3 | 129.1 |
| 87.5° | 30.6 | 30.6 | 37.4 | 40.8 | 44.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)