

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: P384623

Luminaire Tested: **22ID-30-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22ID-30-L835-CFD3  
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

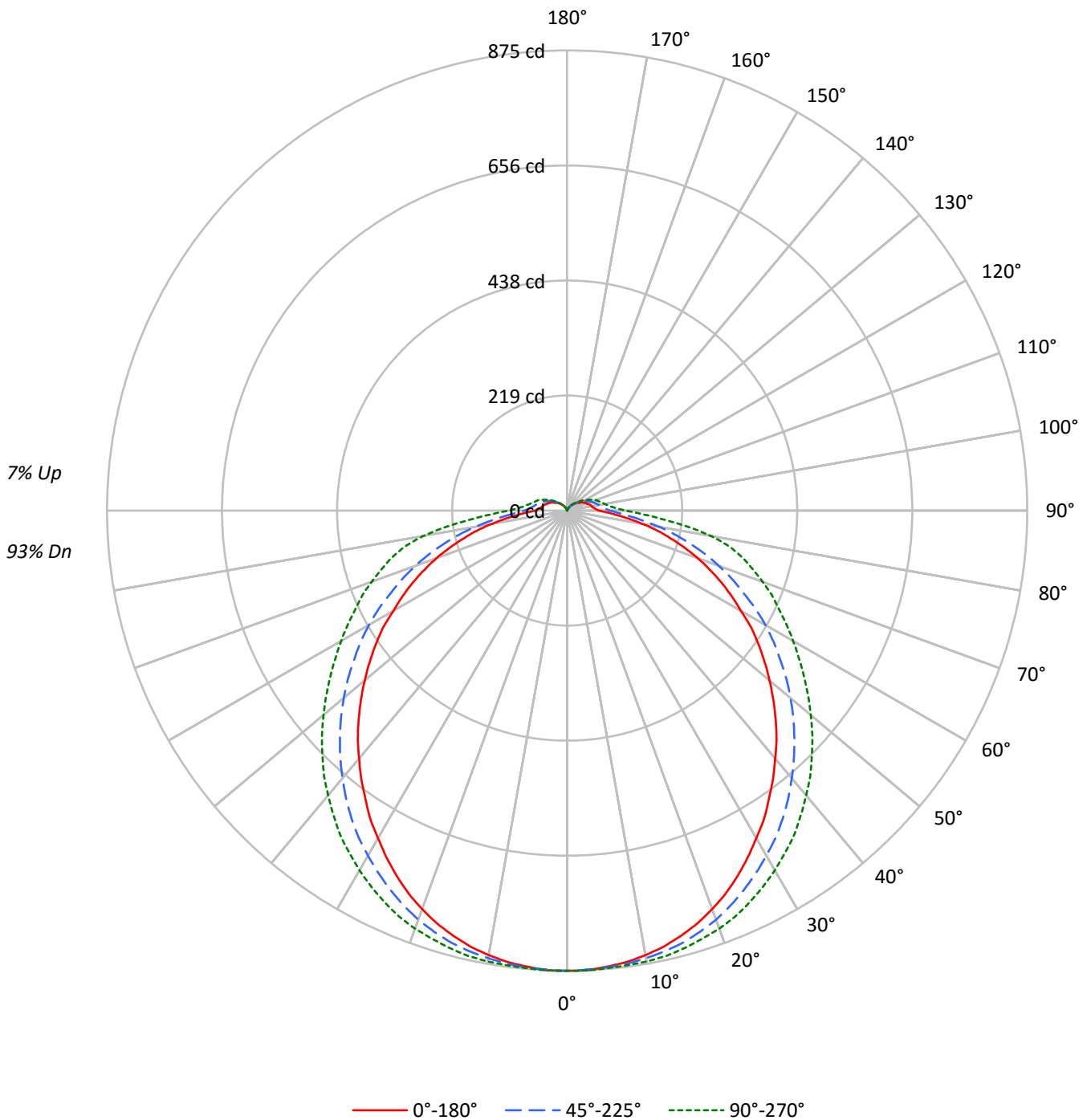
Lumens per Lamp: N/A  
Luminaire Lumens: 3062.4 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 24.2  
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: P384623  
CATALOG NUMBER: 22ID-30-L835-CFD3

### Luminous Intensity Polar Plot





TEST NUMBER: P384623

CATALOG NUMBER: 22ID-30-L835-CFD3

**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   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1   | 105 | 100 | 95  | 91  | 102 | 97  | 93  | 89  | 91  | 88  | 84  | 86  | 83  | 80  | 81 | 79 | 77 | 74 |
| 2   | 95  | 86  | 79  | 73  | 92  | 84  | 77  | 71  | 79  | 73  | 68  | 74  | 70  | 66  | 70 | 67 | 63 | 60 |
| 3   | 86  | 75  | 66  | 60  | 83  | 73  | 65  | 59  | 69  | 62  | 57  | 65  | 59  | 55  | 62 | 57 | 53 | 50 |
| 4   | 79  | 66  | 57  | 50  | 76  | 64  | 56  | 49  | 61  | 54  | 48  | 58  | 51  | 46  | 55 | 49 | 45 | 42 |
| 5   | 72  | 59  | 50  | 43  | 70  | 57  | 49  | 42  | 54  | 47  | 41  | 52  | 45  | 40  | 49 | 43 | 39 | 36 |
| 6   | 67  | 53  | 44  | 37  | 64  | 52  | 43  | 37  | 49  | 41  | 36  | 47  | 40  | 35  | 44 | 39 | 34 | 32 |
| 7   | 62  | 48  | 39  | 33  | 60  | 47  | 38  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 40 | 35 | 30 | 28 |
| 8   | 57  | 44  | 35  | 29  | 55  | 43  | 34  | 29  | 41  | 33  | 28  | 39  | 32  | 27  | 37 | 31 | 27 | 25 |
| 9   | 54  | 40  | 32  | 26  | 52  | 39  | 31  | 26  | 37  | 30  | 25  | 36  | 29  | 25  | 34 | 28 | 24 | 22 |
| 10  | 50  | 37  | 29  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 33  | 27  | 22  | 32 | 26 | 22 | 20 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2355 | 2355 | 2355 |
| 5°  | 2326 | 2320 | 2334 |
| 10° | 2295 | 2291 | 2327 |
| 15° | 2256 | 2263 | 2322 |
| 20° | 2209 | 2227 | 2318 |
| 25° | 2151 | 2183 | 2305 |
| 30° | 2085 | 2136 | 2288 |
| 35° | 2021 | 2090 | 2274 |
| 40° | 1957 | 2032 | 2248 |
| 45° | 1896 | 1976 | 2227 |
| 50° | 1831 | 1917 | 2204 |
| 55° | 1769 | 1853 | 2189 |
| 60° | 1689 | 1794 | 2196 |
| 65° | 1626 | 1706 | 2231 |
| 70° | 1547 | 1626 | 2317 |
| 75° | 1440 | 1512 | 2447 |
| 80° | 1316 | 1371 | 2521 |
| 85° | 1185 | 1202 | 2272 |



TEST NUMBER: P384623

CATALOG NUMBER: 22ID-30-L835-CFD3

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 83.0   | 2.7       |
| 10°-20°   | 239.8  | 7.8       |
| 20°-30°   | 366.4  | 12.0      |
| 30°-40°   | 446.0  | 14.6      |
| 40°-50°   | 471.3  | 15.4      |
| 50°-60°   | 444.9  | 14.5      |
| 60°-70°   | 374.3  | 12.2      |
| 70°-80°   | 269.9  | 8.8       |
| 80°-90°   | 142.3  | 4.6       |
| 90°-100°  | 76.2   | 2.5       |
| 100°-110° | 57.9   | 1.9       |
| 110°-120° | 42.0   | 1.4       |
| 120°-130° | 26.3   | 0.9       |
| 130°-140° | 14.2   | 0.5       |
| 140°-150° | 6.2    | 0.2       |
| 150°-160° | 1.7    | 0.1       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 689.1  | 22.5      |
| 0°-40°    | 1135.1 | 37.1      |
| 0°-60°    | 2051.4 | 67.0      |
| 0°-90°    | 2837.9 | 92.7      |
| 90°-120°  | 176.0  | 5.7       |
| 90°-150°  | 222.8  | 7.3       |
| 90°-180°  | 225.0  | 7.3       |
| 0°-180°   | 3062.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 875 | 875   | 875 | 875   | 875 |      |
| 5°   | 870 | 870   | 872 | 872   | 874 | 83   |
| 15°  | 837 | 840   | 851 | 857   | 861 | 236  |
| 25°  | 767 | 776   | 796 | 814   | 822 | 353  |
| 35°  | 669 | 684   | 715 | 742   | 753 | 419  |
| 45°  | 560 | 577   | 611 | 644   | 658 | 433  |
| 55°  | 444 | 464   | 495 | 532   | 550 | 397  |
| 65°  | 324 | 342   | 370 | 415   | 444 | 320  |
| 75°  | 203 | 220   | 241 | 289   | 345 | 216  |
| 85°  | 93  | 105   | 118 | 147   | 179 | 87   |
| 90°  | 60  | 70    | 81  | 96    | 110 | 34   |
| 95°  | 52  | 60    | 69  | 78    | 84  | 41   |
| 105° | 44  | 49    | 55  | 61    | 64  | 46   |
| 115° | 35  | 38    | 43  | 46    | 49  | 35   |
| 125° | 26  | 26    | 30  | 30    | 32  | 23   |
| 135° | 18  | 17    | 18  | 18    | 20  | 14   |
| 145° | 11  | 9     | 9   | 9     | 11  | 7    |
| 155° | 5   | 5     | 2   | 3     | 5   | 2    |
| 165° | 0   | 0     | 0   | 0     | 0   | 0    |
| 175° | 0   | 0     | 0   | 0     | 0   | 0    |
| 180° | 0   | 0     | 0   | 0     | 0   | 0    |



TEST NUMBER: P384623

CATALOG NUMBER: 22ID-30-L835-CFD3

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 875.1 | 875.1 | 875.1 | 875.1 | 875.1 |
| 2.5°   | 875.1 | 873.6 | 873.6 | 873.6 | 875.1 |
| 5°     | 870.5 | 870.5 | 872.1 | 872.1 | 873.6 |
| 7.5°   | 866.0 | 866.0 | 869.0 | 870.5 | 872.1 |
| 10°    | 858.3 | 859.9 | 864.4 | 867.5 | 870.5 |
| 12.5°  | 849.2 | 850.7 | 858.3 | 864.4 | 867.5 |
| 15°    | 836.9 | 840.0 | 850.7 | 856.8 | 861.4 |
| 17.5°  | 823.2 | 827.8 | 840.0 | 849.2 | 853.7 |
| 20°    | 806.4 | 812.5 | 827.8 | 840.0 | 846.1 |
| 22.5°  | 788.1 | 794.2 | 812.5 | 827.8 | 835.4 |
| 25°    | 766.7 | 775.9 | 795.7 | 814.0 | 821.7 |
| 27.5°  | 743.8 | 754.5 | 777.4 | 798.8 | 806.4 |
| 30°    | 719.3 | 731.6 | 757.5 | 780.4 | 789.6 |
| 32.5°  | 696.4 | 708.7 | 737.7 | 762.1 | 771.3 |
| 35°    | 668.9 | 684.2 | 714.8 | 742.3 | 752.9 |
| 37.5°  | 643.0 | 658.3 | 690.3 | 719.3 | 730.0 |
| 40°    | 615.5 | 630.8 | 664.4 | 696.4 | 707.1 |
| 42.5°  | 589.5 | 604.8 | 638.4 | 672.0 | 684.2 |
| 45°    | 560.5 | 577.3 | 610.9 | 644.5 | 658.3 |
| 47.5°  | 531.5 | 548.3 | 583.4 | 618.5 | 632.3 |
| 50°    | 502.5 | 520.8 | 554.4 | 589.5 | 604.8 |
| 52.5°  | 473.5 | 491.8 | 525.4 | 562.0 | 577.3 |
| 55°    | 444.4 | 464.3 | 494.8 | 531.5 | 549.8 |
| 57.5°  | 415.4 | 435.3 | 465.8 | 504.0 | 522.3 |
| 60°    | 381.8 | 404.7 | 435.3 | 475.0 | 496.4 |
| 62.5°  | 352.8 | 372.7 | 403.2 | 444.4 | 470.4 |
| 65°    | 323.8 | 342.1 | 369.6 | 415.4 | 444.4 |
| 67.5°  | 293.2 | 313.1 | 339.1 | 381.8 | 421.5 |
| 70°    | 264.2 | 281.0 | 307.0 | 351.3 | 395.6 |
| 72.5°  | 233.7 | 250.5 | 274.9 | 320.7 | 369.6 |
| 75°    | 203.1 | 219.9 | 241.3 | 288.7 | 345.2 |
| 77.5°  | 175.6 | 189.4 | 209.2 | 255.1 | 316.1 |
| 80°    | 145.1 | 158.8 | 177.2 | 218.4 | 278.0 |
| 82.5°  | 117.6 | 129.8 | 145.1 | 181.7 | 229.1 |
| 85°    | 93.2  | 105.4 | 117.6 | 146.6 | 178.7 |
| 87.5°  | 74.8  | 84.0  | 96.2  | 117.6 | 139.0 |
| 90°    | 59.6  | 70.3  | 80.9  | 96.2  | 110.0 |
| 92.5°  | 55.0  | 64.1  | 73.3  | 85.5  | 94.7  |
| 95°    | 51.9  | 59.6  | 68.7  | 77.9  | 84.0  |
| 97.5°  | 48.9  | 56.5  | 64.1  | 73.3  | 77.9  |
| 100°   | 47.3  | 53.5  | 61.1  | 68.7  | 71.8  |
| 102.5° | 45.8  | 50.4  | 58.0  | 64.1  | 68.7  |
| 105°   | 44.3  | 48.9  | 55.0  | 61.1  | 64.1  |
| 107.5° | 41.2  | 45.8  | 51.9  | 58.0  | 61.1  |
| 110°   | 39.7  | 42.8  | 48.9  | 53.5  | 58.0  |



TEST NUMBER: P384623

CATALOG NUMBER: 22ID-30-L835-CFD3

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|--------|------|-------|------|-------|------|
| 112.5° | 38.2 | 41.2  | 45.8 | 50.4  | 53.5 |
| 115°   | 35.1 | 38.2  | 42.8 | 45.8  | 48.9 |
| 117.5° | 33.6 | 35.1  | 39.7 | 41.2  | 44.3 |
| 120°   | 30.5 | 32.1  | 36.7 | 38.2  | 39.7 |
| 122.5° | 27.5 | 29.0  | 33.6 | 33.6  | 36.7 |
| 125°   | 26.0 | 26.0  | 30.5 | 30.5  | 32.1 |
| 127.5° | 24.4 | 24.4  | 27.5 | 27.5  | 29.0 |
| 130°   | 21.4 | 21.4  | 24.4 | 24.4  | 24.4 |
| 132.5° | 19.9 | 18.3  | 21.4 | 21.4  | 22.9 |
| 135°   | 18.3 | 16.8  | 18.3 | 18.3  | 19.9 |
| 137.5° | 15.3 | 15.3  | 16.8 | 15.3  | 16.8 |
| 140°   | 13.7 | 12.2  | 13.7 | 13.7  | 15.3 |
| 142.5° | 12.2 | 10.7  | 12.2 | 10.7  | 12.2 |
| 145°   | 10.7 | 9.2   | 9.2  | 9.2   | 10.7 |
| 147.5° | 9.2  | 7.6   | 7.6  | 7.6   | 9.2  |
| 150°   | 7.6  | 6.1   | 6.1  | 6.1   | 7.6  |
| 152.5° | 6.1  | 4.6   | 3.1  | 4.6   | 6.1  |
| 155°   | 4.6  | 4.6   | 1.5  | 3.1   | 4.6  |
| 157.5° | 3.1  | 3.1   | 0.0  | 1.5   | 3.1  |
| 160°   | 1.5  | 1.5   | 0.0  | 1.5   | 1.5  |
| 162.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 165°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 167.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 170°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 172.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 175°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 177.5° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 180°   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |

(END OF REPORT)