

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: P384627

Luminaire Tested: **22ID-35-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384627
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-35-L835-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

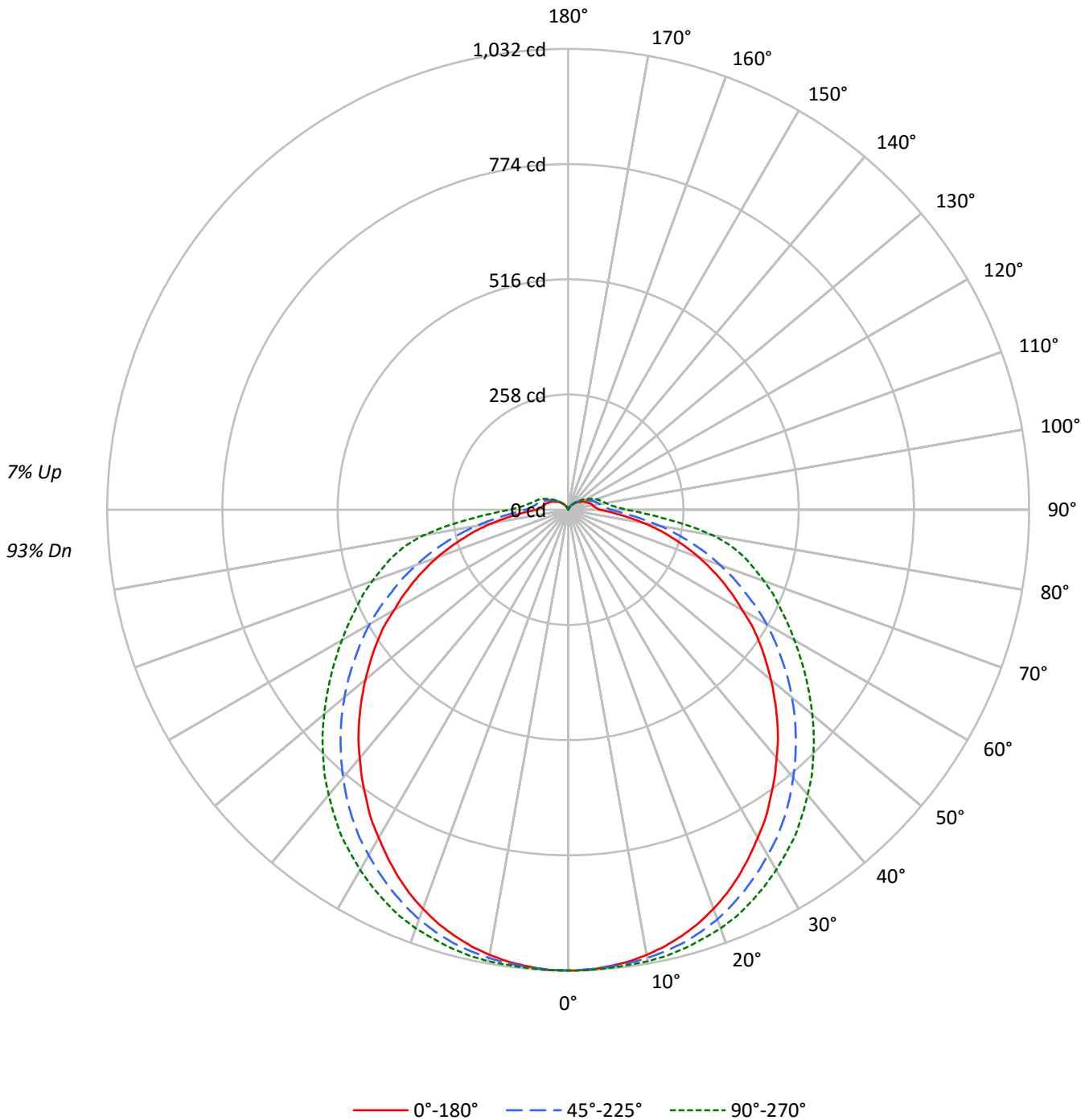
Lumens per Lamp: N/A
Luminaire Lumens: 3611.3 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 28.8
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



TEST NUMBER: P384627
CATALOG NUMBER: 22ID-35-L835-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384627

CATALOG NUMBER: 22ID-35-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° | 2777 | 2777 | 2777 |
| 5° | 2743 | 2736 | 2753 |
| 10° | 2706 | 2701 | 2745 |
| 15° | 2661 | 2668 | 2738 |
| 20° | 2605 | 2627 | 2733 |
| 25° | 2537 | 2574 | 2719 |
| 30° | 2458 | 2519 | 2699 |
| 35° | 2383 | 2464 | 2682 |
| 40° | 2308 | 2397 | 2651 |
| 45° | 2236 | 2330 | 2626 |
| 50° | 2159 | 2261 | 2599 |
| 55° | 2086 | 2186 | 2581 |
| 60° | 1992 | 2115 | 2589 |
| 65° | 1917 | 2013 | 2632 |
| 70° | 1825 | 1917 | 2732 |
| 75° | 1698 | 1783 | 2886 |
| 80° | 1552 | 1617 | 2973 |
| 85° | 1397 | 1418 | 2679 |



TEST NUMBER: P384627

CATALOG NUMBER: 22ID-35-L835-CFD3

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.9 | 2.7 |
| 10°-20° | 282.8 | 7.8 |
| 20°-30° | 432.0 | 12.0 |
| 30°-40° | 525.9 | 14.6 |
| 40°-50° | 555.8 | 15.4 |
| 50°-60° | 524.7 | 14.5 |
| 60°-70° | 441.4 | 12.2 |
| 70°-80° | 318.3 | 8.8 |
| 80°-90° | 167.9 | 4.6 |
| 90°-100° | 89.8 | 2.5 |
| 100°-110° | 68.2 | 1.9 |
| 110°-120° | 49.5 | 1.4 |
| 120°-130° | 31.1 | 0.9 |
| 130°-140° | 16.8 | 0.5 |
| 140°-150° | 7.3 | 0.2 |
| 150°-160° | 2.0 | 0.1 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 812.7 | 22.5 |
| 0°-40° | 1338.6 | 37.1 |
| 0°-60° | 2419.1 | 67.0 |
| 0°-90° | 3346.6 | 92.7 |
| 90°-120° | 207.5 | 5.7 |
| 90°-150° | 262.7 | 7.3 |
| 90°-180° | 265.0 | 7.3 |
| 0°-180° | 3611.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1032 | 1032 | 1032 | 1032 | 1032 | |
| 5° | 1027 | 1027 | 1028 | 1028 | 1030 | 98 |
| 15° | 987 | 991 | 1003 | 1010 | 1016 | 278 |
| 25° | 904 | 915 | 938 | 960 | 969 | 416 |
| 35° | 789 | 807 | 843 | 875 | 888 | 494 |
| 45° | 661 | 681 | 720 | 760 | 776 | 510 |
| 55° | 524 | 548 | 584 | 627 | 648 | 468 |
| 65° | 382 | 403 | 436 | 490 | 524 | 377 |
| 75° | 240 | 259 | 285 | 340 | 407 | 254 |
| 85° | 110 | 124 | 139 | 173 | 211 | 103 |
| 90° | 70 | 83 | 96 | 114 | 130 | 40 |
| 95° | 61 | 70 | 81 | 92 | 99 | 49 |
| 105° | 52 | 58 | 65 | 72 | 76 | 55 |
| 115° | 41 | 45 | 50 | 54 | 58 | 42 |
| 125° | 31 | 31 | 36 | 36 | 38 | 28 |
| 135° | 22 | 20 | 22 | 22 | 23 | 16 |
| 145° | 13 | 11 | 11 | 11 | 13 | 8 |
| 155° | 5 | 5 | 2 | 4 | 5 | 3 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P384627

CATALOG NUMBER: 22ID-35-L835-CFD3

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1032.0 | 1032.0 | 1032.0 | 1032.0 | 1032.0 |
| 2.5° | 1032.0 | 1030.2 | 1030.2 | 1030.2 | 1032.0 |
| 5° | 1026.6 | 1026.6 | 1028.4 | 1028.4 | 1030.2 |
| 7.5° | 1021.2 | 1021.2 | 1024.8 | 1026.6 | 1028.4 |
| 10° | 1012.2 | 1014.0 | 1019.4 | 1023.0 | 1026.6 |
| 12.5° | 1001.4 | 1003.2 | 1012.2 | 1019.4 | 1023.0 |
| 15° | 987.0 | 990.6 | 1003.2 | 1010.4 | 1015.8 |
| 17.5° | 970.8 | 976.2 | 990.6 | 1001.4 | 1006.8 |
| 20° | 951.0 | 958.2 | 976.2 | 990.6 | 997.8 |
| 22.5° | 929.3 | 936.6 | 958.2 | 976.2 | 985.2 |
| 25° | 904.1 | 914.9 | 938.4 | 960.0 | 969.0 |
| 27.5° | 877.1 | 889.7 | 916.7 | 942.0 | 951.0 |
| 30° | 848.3 | 862.7 | 893.3 | 920.3 | 931.2 |
| 32.5° | 821.3 | 835.7 | 869.9 | 898.7 | 909.5 |
| 35° | 788.9 | 806.9 | 842.9 | 875.3 | 887.9 |
| 37.5° | 758.2 | 776.3 | 814.1 | 848.3 | 860.9 |
| 40° | 725.8 | 743.8 | 783.5 | 821.3 | 833.9 |
| 42.5° | 695.2 | 713.2 | 752.8 | 792.5 | 806.9 |
| 45° | 661.0 | 680.8 | 720.4 | 760.0 | 776.3 |
| 47.5° | 626.8 | 646.6 | 688.0 | 729.4 | 745.6 |
| 50° | 592.6 | 614.2 | 653.8 | 695.2 | 713.2 |
| 52.5° | 558.3 | 579.9 | 619.6 | 662.8 | 680.8 |
| 55° | 524.1 | 547.5 | 583.5 | 626.8 | 648.4 |
| 57.5° | 489.9 | 513.3 | 549.3 | 594.4 | 616.0 |
| 60° | 450.3 | 477.3 | 513.3 | 560.1 | 585.3 |
| 62.5° | 416.0 | 439.5 | 475.5 | 524.1 | 554.7 |
| 65° | 381.8 | 403.4 | 435.9 | 489.9 | 524.1 |
| 67.5° | 345.8 | 369.2 | 399.8 | 450.3 | 497.1 |
| 70° | 311.6 | 331.4 | 362.0 | 414.2 | 466.5 |
| 72.5° | 275.6 | 295.4 | 324.2 | 378.2 | 435.9 |
| 75° | 239.5 | 259.4 | 284.6 | 340.4 | 407.0 |
| 77.5° | 207.1 | 223.3 | 246.7 | 300.8 | 372.8 |
| 80° | 171.1 | 187.3 | 208.9 | 257.6 | 327.8 |
| 82.5° | 138.7 | 153.1 | 171.1 | 214.3 | 270.2 |
| 85° | 109.9 | 124.3 | 138.7 | 172.9 | 210.7 |
| 87.5° | 88.3 | 99.1 | 113.5 | 138.7 | 163.9 |
| 90° | 70.2 | 82.8 | 95.5 | 113.5 | 129.7 |
| 92.5° | 64.8 | 75.6 | 86.5 | 100.9 | 111.7 |
| 95° | 61.2 | 70.2 | 81.0 | 91.9 | 99.1 |
| 97.5° | 57.6 | 66.6 | 75.6 | 86.5 | 91.9 |
| 100° | 55.8 | 63.0 | 72.0 | 81.0 | 84.7 |
| 102.5° | 54.0 | 59.4 | 68.4 | 75.6 | 81.0 |
| 105° | 52.2 | 57.6 | 64.8 | 72.0 | 75.6 |
| 107.5° | 48.6 | 54.0 | 61.2 | 68.4 | 72.0 |
| 110° | 46.8 | 50.4 | 57.6 | 63.0 | 68.4 |



TEST NUMBER: P384627

CATALOG NUMBER: 22ID-35-L835-CFD3

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 45.0 | 48.6 | 54.0 | 59.4 | 63.0 |
| 115° | 41.4 | 45.0 | 50.4 | 54.0 | 57.6 |
| 117.5° | 39.6 | 41.4 | 46.8 | 48.6 | 52.2 |
| 120° | 36.0 | 37.8 | 43.2 | 45.0 | 46.8 |
| 122.5° | 32.4 | 34.2 | 39.6 | 39.6 | 43.2 |
| 125° | 30.6 | 30.6 | 36.0 | 36.0 | 37.8 |
| 127.5° | 28.8 | 28.8 | 32.4 | 32.4 | 34.2 |
| 130° | 25.2 | 25.2 | 28.8 | 28.8 | 28.8 |
| 132.5° | 23.4 | 21.6 | 25.2 | 25.2 | 27.0 |
| 135° | 21.6 | 19.8 | 21.6 | 21.6 | 23.4 |
| 137.5° | 18.0 | 18.0 | 19.8 | 18.0 | 19.8 |
| 140° | 16.2 | 14.4 | 16.2 | 16.2 | 18.0 |
| 142.5° | 14.4 | 12.6 | 14.4 | 12.6 | 14.4 |
| 145° | 12.6 | 10.8 | 10.8 | 10.8 | 12.6 |
| 147.5° | 10.8 | 9.0 | 9.0 | 9.0 | 10.8 |
| 150° | 9.0 | 7.2 | 7.2 | 7.2 | 9.0 |
| 152.5° | 7.2 | 5.4 | 3.6 | 5.4 | 7.2 |
| 155° | 5.4 | 5.4 | 1.8 | 3.6 | 5.4 |
| 157.5° | 3.6 | 3.6 | 0.0 | 1.8 | 3.6 |
| 160° | 1.8 | 1.8 | 0.0 | 1.8 | 1.8 |
| 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)