

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: FAIL-SAFE

Report Number: P366247

Luminaire Tested: **FLD6BX40D010-FEU6B35-8027-F6LBXVM1-WMH-BTR81**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-31)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX40D010-FEU6B35-8027-F6LBXVM1-WMH-BTR81
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, WARM HAZE REFLECTOR,
BOTTOM TRIM POLYCARBONATE, PATTERN 12 0.156", 4000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2824.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.19
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

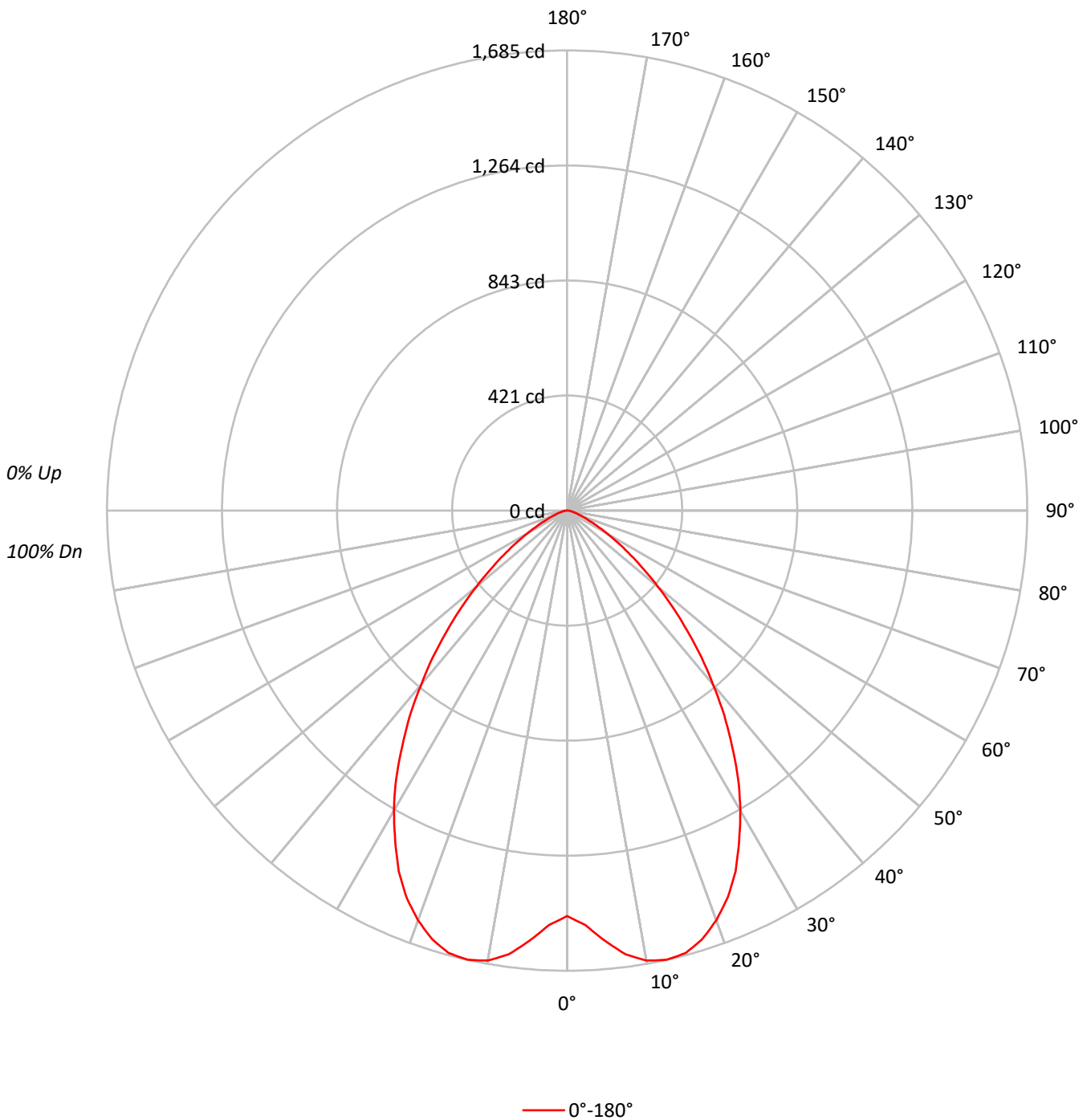
Input Watts (W): 40.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 73 | 68 | 78 | 72 | 67 | 75 | 71 | 67 | 73 | 69 | 66 | 64 |
| 5 | 85 | 74 | 67 | 61 | 83 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 57 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 52 |
| 7 | 74 | 63 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 51 | 46 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 106300 |
| 5° | 113621 |
| 10° | 121638 |
| 15° | 124312 |
| 20° | 121656 |
| 25° | 115211 |
| 30° | 104886 |
| 35° | 92007 |
| 40° | 77692 |
| 45° | 62832 |
| 50° | 48422 |
| 55° | 35353 |
| 60° | 24330 |
| 65° | 16061 |
| 70° | 10488 |
| 75° | 7663 |
| 80° | 6515 |
| 85° | 7558 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.9 | 5.4 |
| 10°-20° | 469.6 | 16.6 |
| 20°-30° | 665.4 | 23.6 |
| 30°-40° | 656.3 | 23.2 |
| 40°-50° | 481.0 | 17.0 |
| 50°-60° | 257.9 | 9.1 |
| 60°-70° | 99.1 | 3.5 |
| 70°-80° | 31.6 | 1.1 |
| 80°-90° | 9.3 | 0.3 |
| 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° | 1288.8 | 45.6 |
| 0°-40° | 1945.1 | 68.9 |
| 0°-60° | 2684.0 | 95.0 |
| 0°-90° | 2824.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2824.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1485 | |
| 5° | 1581 | 154 |
| 15° | 1677 | 470 |
| 25° | 1458 | 665 |
| 35° | 1053 | 656 |
| 45° | 620 | 481 |
| 55° | 283 | 258 |
| 65° | 95 | 99 |
| 75° | 28 | 32 |
| 85° | 9 | 9 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1484.6 |
| 2.5° | 1518.9 |
| 5° | 1580.8 |
| 7.5° | 1638.8 |
| 10° | 1673.0 |
| 12.5° | 1684.9 |
| 15° | 1677.0 |
| 17.5° | 1645.4 |
| 20° | 1596.6 |
| 22.5° | 1534.7 |
| 25° | 1458.3 |
| 27.5° | 1363.5 |
| 30° | 1268.6 |
| 32.5° | 1165.9 |
| 35° | 1052.6 |
| 37.5° | 944.5 |
| 40° | 831.2 |
| 42.5° | 727.2 |
| 45° | 620.5 |
| 47.5° | 525.6 |
| 50° | 434.7 |
| 52.5° | 353.0 |
| 55° | 283.2 |
| 57.5° | 221.3 |
| 60° | 169.9 |
| 62.5° | 127.8 |
| 65° | 94.8 |
| 67.5° | 69.8 |
| 70° | 50.1 |
| 72.5° | 38.2 |
| 75° | 27.7 |
| 77.5° | 21.1 |
| 80° | 15.8 |
| 82.5° | 11.9 |
| 85° | 9.2 |
| 87.5° | 5.3 |
| 90° | 0.0 |

(END OF REPORT)