

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: P364917

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-LI-BTR84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-LI-BTR84
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, SPECULAR CLEAR REFLECTOR, BOTTOM TRIM POLYCARBONATE, CLEAR 0.125", 5000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 0.76 / 0.76 / 0.77
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

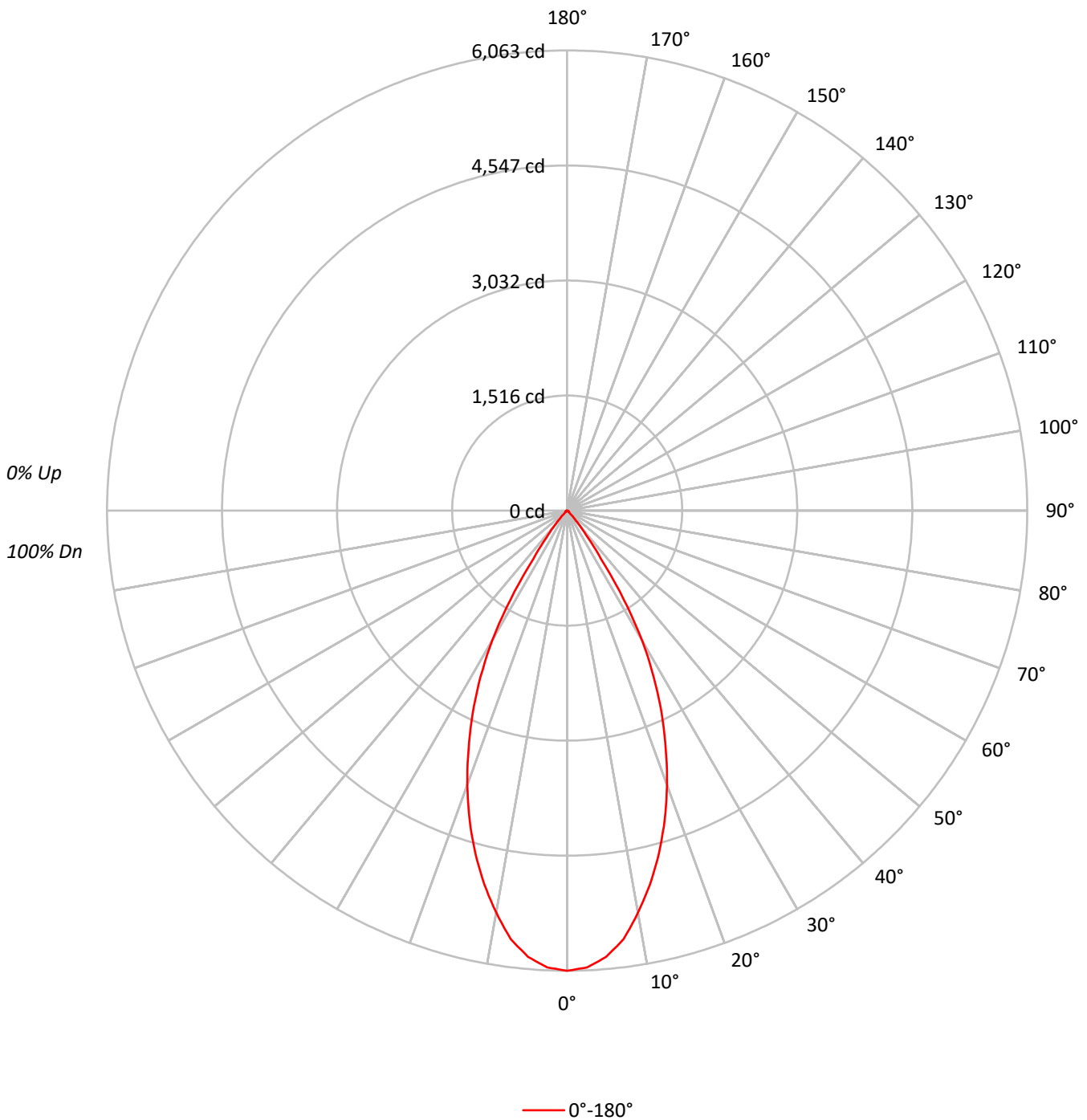
Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | | 96 | 94 | 92 | | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | | 92 | 89 | 86 | | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | | 87 | 84 | 81 | | 85 | 82 | 80 | 78 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 77 | 84 | 80 | 77 | | 83 | 79 | 76 | | 81 | 78 | 75 | 74 |
| 6 | 91 | 82 | 77 | 73 | 89 | 82 | 76 | 73 | 80 | 76 | 72 | | 79 | 75 | 72 | | 78 | 74 | 71 | 70 |
| 7 | 87 | 78 | 73 | 69 | 85 | 77 | 72 | 69 | 76 | 72 | 68 | | 75 | 71 | 68 | | 74 | 70 | 68 | 66 |
| 8 | 83 | 74 | 69 | 65 | 82 | 74 | 68 | 65 | 73 | 68 | 65 | | 72 | 67 | 64 | | 71 | 67 | 64 | 63 |
| 9 | 79 | 71 | 65 | 62 | 78 | 70 | 65 | 61 | 69 | 65 | 61 | | 68 | 64 | 61 | | 68 | 64 | 61 | 60 |
| 10 | 76 | 67 | 62 | 58 | 75 | 67 | 62 | 58 | 66 | 61 | 58 | | 65 | 61 | 58 | | 65 | 61 | 58 | 57 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 434136 |
| 5° | 424237 |
| 10° | 391102 |
| 15° | 346406 |
| 20° | 293275 |
| 25° | 232350 |
| 30° | 163282 |
| 35° | 68005 |
| 40° | 23330 |
| 45° | 6238 |
| 50° | 3431 |
| 55° | 3196 |
| 60° | 2936 |
| 65° | 2897 |
| 70° | 2868 |
| 75° | 3320 |
| 80° | 4247 |
| 85° | 6983 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 547.0 | 14.1 |
| 10°-20° | 1296.4 | 33.5 |
| 20°-30° | 1330.9 | 34.4 |
| 30°-40° | 563.6 | 14.6 |
| 40°-50° | 69.3 | 1.8 |
| 50°-60° | 22.9 | 0.6 |
| 60°-70° | 16.9 | 0.4 |
| 70°-80° | 13.1 | 0.3 |
| 80°-90° | 7.9 | 0.2 |
| 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° | 3174.3 | 82.1 |
| 0°-40° | 3737.8 | 96.6 |
| 0°-60° | 3830.1 | 99.0 |
| 0°-90° | 3868.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3868.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6063 | |
| 5° | 5902 | 547 |
| 15° | 4673 | 1296 |
| 25° | 2941 | 1331 |
| 35° | 778 | 564 |
| 45° | 62 | 69 |
| 55° | 26 | 23 |
| 65° | 17 | 17 |
| 75° | 12 | 13 |
| 85° | 8 | 8 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6063.2 |
| 2.5° | 6023.8 |
| 5° | 5902.4 |
| 7.5° | 5693.8 |
| 10° | 5379.2 |
| 12.5° | 5044.1 |
| 15° | 4673.1 |
| 17.5° | 4274.7 |
| 20° | 3848.9 |
| 22.5° | 3395.8 |
| 25° | 2941.0 |
| 27.5° | 2470.8 |
| 30° | 1974.9 |
| 32.5° | 1391.8 |
| 35° | 778.0 |
| 37.5° | 446.3 |
| 40° | 249.6 |
| 42.5° | 131.7 |
| 45° | 61.6 |
| 47.5° | 35.9 |
| 50° | 30.8 |
| 52.5° | 27.4 |
| 55° | 25.6 |
| 57.5° | 23.9 |
| 60° | 20.5 |
| 62.5° | 18.8 |
| 65° | 17.1 |
| 67.5° | 15.4 |
| 70° | 13.7 |
| 72.5° | 13.7 |
| 75° | 12.0 |
| 77.5° | 12.0 |
| 80° | 10.3 |
| 82.5° | 10.3 |
| 85° | 8.5 |
| 87.5° | 5.1 |
| 90° | 0.0 |

(END OF REPORT)