

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: P365696

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8050-F6LBXVM1-MW-BTR89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX50D010TE-FEU6B35-8050-F6LBXVM1-MW-BTR89BV
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,
BOTTOM TRIM ACRYLIC, CLEAR 0.125", 5000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3384.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.84
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

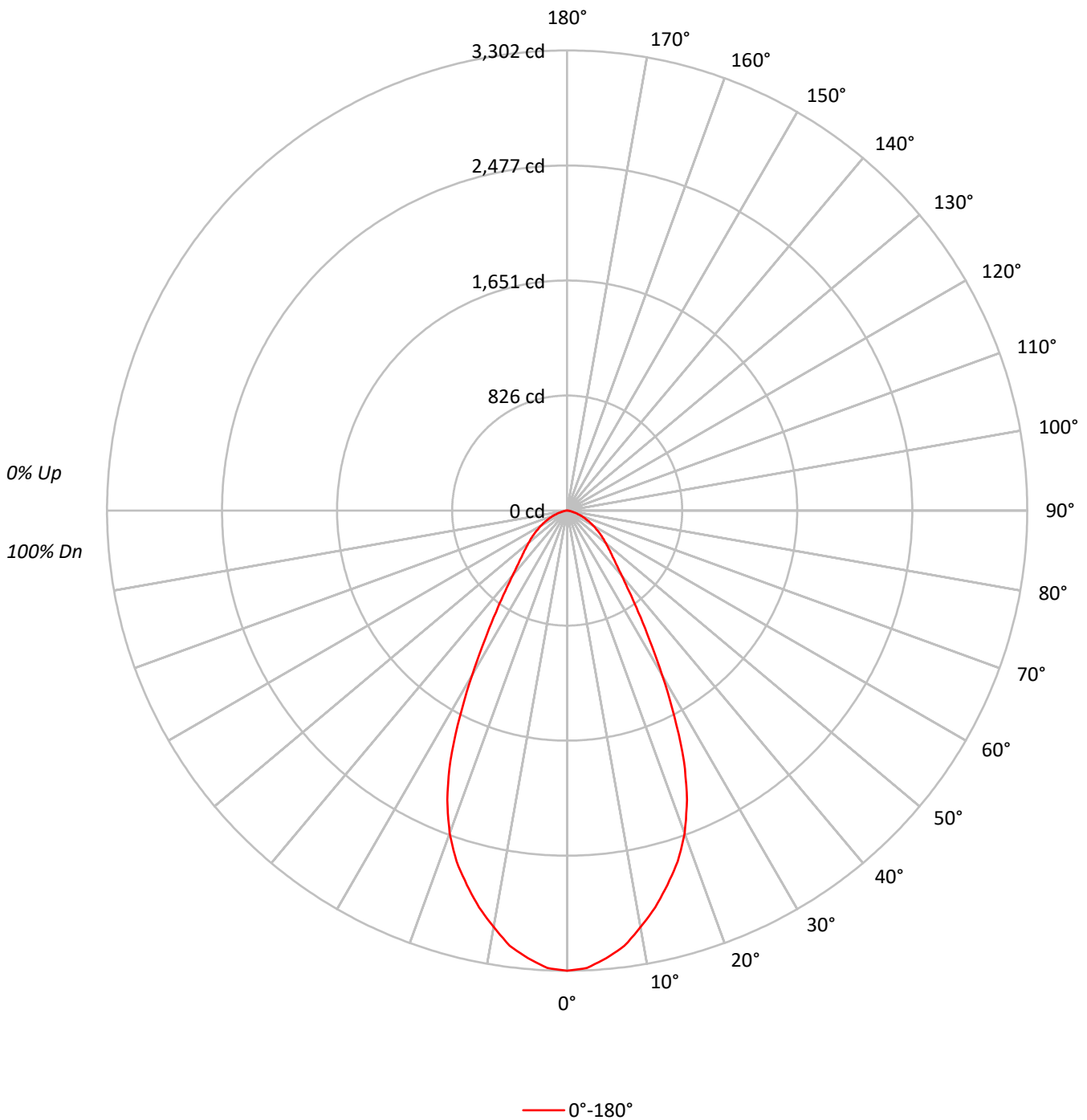
Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 83 | 82 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 76 | 74 |
| 4 | 93 | 84 | 77 | 72 | 91 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 73 | 68 | 64 | 71 | 67 | 63 | 62 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 64 | 60 | 69 | 64 | 59 | 68 | 63 | 59 | 66 | 62 | 58 | 57 |
| 7 | 78 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 53 |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 49 |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 51 | 47 | 46 |
| 10 | 66 | 55 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 48 | 44 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 236415 |
| 5° | 231741 |
| 10° | 220642 |
| 15° | 206082 |
| 20° | 187765 |
| 25° | 156744 |
| 30° | 112691 |
| 35° | 77795 |
| 40° | 56867 |
| 45° | 46063 |
| 50° | 40224 |
| 55° | 35603 |
| 60° | 31018 |
| 65° | 26312 |
| 70° | 21165 |
| 75° | 14994 |
| 80° | 10432 |
| 85° | 11830 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 302.1 | 8.9 |
| 10°-20° | 777.5 | 23.0 |
| 20°-30° | 888.7 | 26.3 |
| 30°-40° | 571.8 | 16.9 |
| 40°-50° | 358.3 | 10.6 |
| 50°-60° | 255.8 | 7.6 |
| 60°-70° | 155.2 | 4.6 |
| 70°-80° | 60.8 | 1.8 |
| 80°-90° | 13.7 | 0.4 |
| 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° | 1968.3 | 58.2 |
| 0°-40° | 2540.1 | 75.1 |
| 0°-60° | 3154.2 | 93.2 |
| 0°-90° | 3384.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3384.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3302 | |
| 5° | 3224 | 302 |
| 15° | 2780 | 777 |
| 25° | 1984 | 889 |
| 35° | 890 | 572 |
| 45° | 455 | 358 |
| 55° | 285 | 256 |
| 65° | 155 | 155 |
| 75° | 54 | 61 |
| 85° | 14 | 14 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3301.8 |
| 2.5° | 3285.6 |
| 5° | 3224.2 |
| 7.5° | 3150.2 |
| 10° | 3034.7 |
| 12.5° | 2917.3 |
| 15° | 2780.1 |
| 17.5° | 2639.3 |
| 20° | 2464.2 |
| 22.5° | 2247.6 |
| 25° | 1984.0 |
| 27.5° | 1666.3 |
| 30° | 1363.0 |
| 32.5° | 1095.8 |
| 35° | 890.0 |
| 37.5° | 727.5 |
| 40° | 608.4 |
| 42.5° | 519.9 |
| 45° | 454.9 |
| 47.5° | 404.4 |
| 50° | 361.1 |
| 52.5° | 323.1 |
| 55° | 285.2 |
| 57.5° | 249.1 |
| 60° | 216.6 |
| 62.5° | 185.9 |
| 65° | 155.3 |
| 67.5° | 128.2 |
| 70° | 101.1 |
| 72.5° | 75.8 |
| 75° | 54.2 |
| 77.5° | 37.9 |
| 80° | 25.3 |
| 82.5° | 16.2 |
| 85° | 14.4 |
| 87.5° | 7.2 |
| 90° | 0.0 |

(END OF REPORT)