

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: P366370

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-WMH-BL89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-45)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-WMH-BL89BV
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS ACRYLIC, CLEAR 0.125", 5000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4785.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

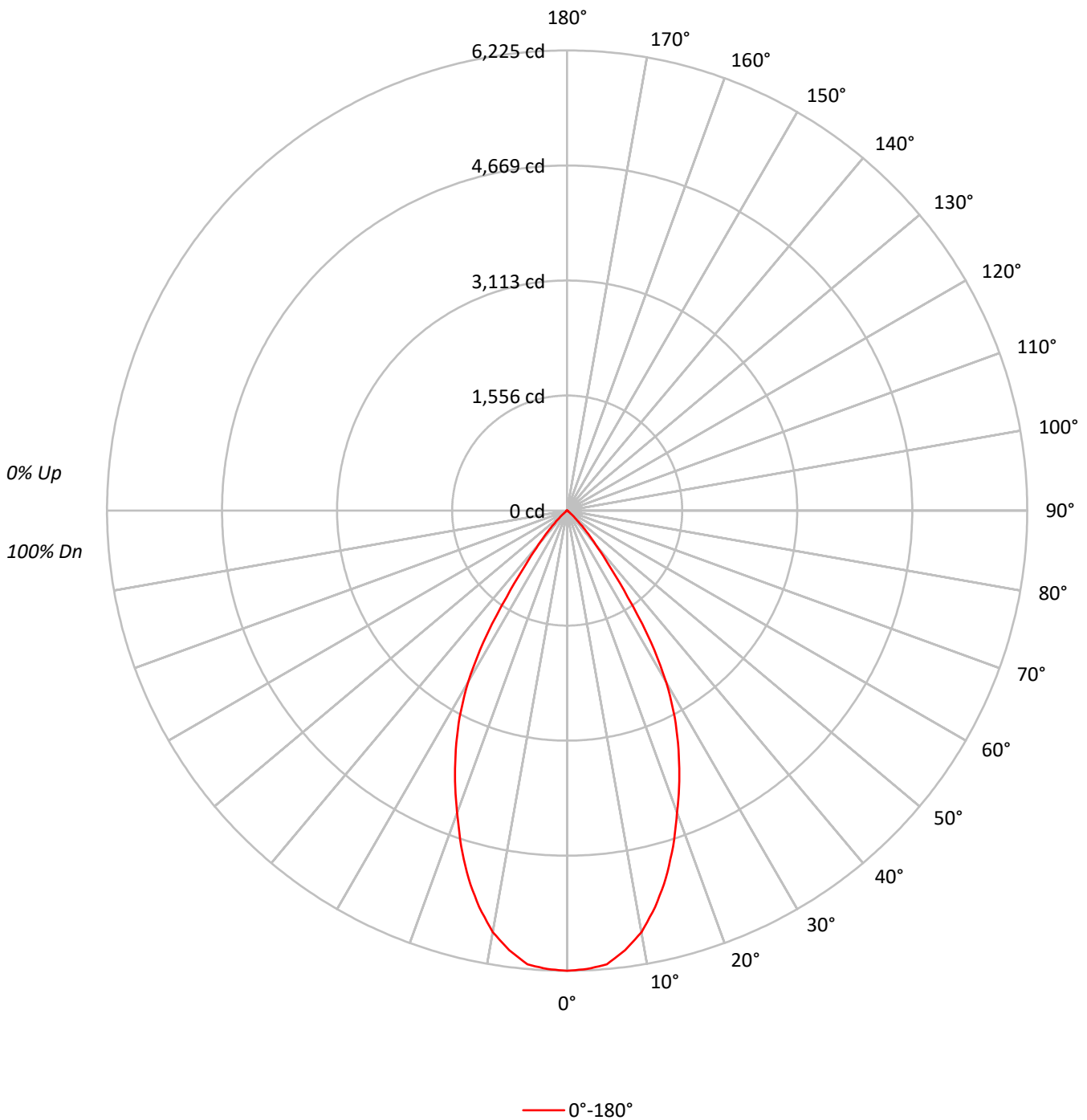
Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 93 | 96 | 94 | 91 | 93 | 91 | 90 | 88 |
| 3 | 103 | 97 | 92 | 89 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | 91 | 88 | 85 | 88 | 86 | 84 | 82 |
| 4 | 98 | 91 | 86 | 82 | 97 | 90 | 85 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 79 | 76 | 83 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 72 |
| 6 | 89 | 81 | 75 | 71 | 88 | 80 | 74 | 71 | 78 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 |
| 7 | 85 | 76 | 70 | 66 | 84 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 64 |
| 8 | 81 | 72 | 66 | 62 | 80 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 64 | 61 | 60 |
| 9 | 77 | 68 | 62 | 59 | 76 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 57 |
| 10 | 74 | 65 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 53 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 170043 |
| 5° | 168921 |
| 10° | 160615 |
| 15° | 145746 |
| 20° | 126435 |
| 25° | 107482 |
| 30° | 84580 |
| 35° | 47648 |
| 40° | 21402 |
| 45° | 8896 |
| 50° | 2669 |
| 55° | 748 |
| 60° | 475 |
| 65° | 336 |
| 70° | 280 |
| 75° | 369 |
| 80° | 267 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 575.3 | 12.0 |
| 10°-20° | 1430.5 | 29.9 |
| 20°-30° | 1619.8 | 33.9 |
| 30°-40° | 928.7 | 19.4 |
| 40°-50° | 201.8 | 4.2 |
| 50°-60° | 19.8 | 0.4 |
| 60°-70° | 5.8 | 0.1 |
| 70°-80° | 3.0 | 0.1 |
| 80°-90° | 0.2 | 0.0 |
| 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° | 3625.7 | 75.8 |
| 0°-40° | 4554.4 | 95.2 |
| 0°-60° | 4775.9 | 99.8 |
| 0°-90° | 4785.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4785.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6225 | |
| 5° | 6161 | 575 |
| 15° | 5154 | 1431 |
| 25° | 3566 | 1620 |
| 35° | 1429 | 929 |
| 45° | 230 | 202 |
| 55° | 16 | 20 |
| 65° | 5 | 6 |
| 75° | 4 | 3 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6225.2 |
| 2.5° | 6207.7 |
| 5° | 6160.6 |
| 7.5° | 5998.4 |
| 10° | 5790.7 |
| 12.5° | 5494.1 |
| 15° | 5153.9 |
| 17.5° | 4763.1 |
| 20° | 4349.6 |
| 22.5° | 3962.3 |
| 25° | 3566.2 |
| 27.5° | 3147.5 |
| 30° | 2681.6 |
| 32.5° | 2112.9 |
| 35° | 1428.9 |
| 37.5° | 903.8 |
| 40° | 600.2 |
| 42.5° | 383.8 |
| 45° | 230.3 |
| 47.5° | 125.6 |
| 50° | 62.8 |
| 52.5° | 26.2 |
| 55° | 15.7 |
| 57.5° | 12.2 |
| 60° | 8.7 |
| 62.5° | 7.0 |
| 65° | 5.2 |
| 67.5° | 5.2 |
| 70° | 3.5 |
| 72.5° | 3.5 |
| 75° | 3.5 |
| 77.5° | 1.7 |
| 80° | 1.7 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)