

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: P366206

Luminaire Tested: **FLD6BX30D010-FEU6B35-8040-F6LBXVM1-WMH-BL87**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-47)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX30D010-FEU6B35-8040-F6LBXVM1-WMH-BL87
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.375", 3000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500.1 lumens
Efficiency: N/A
Efficacy: 92.6 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

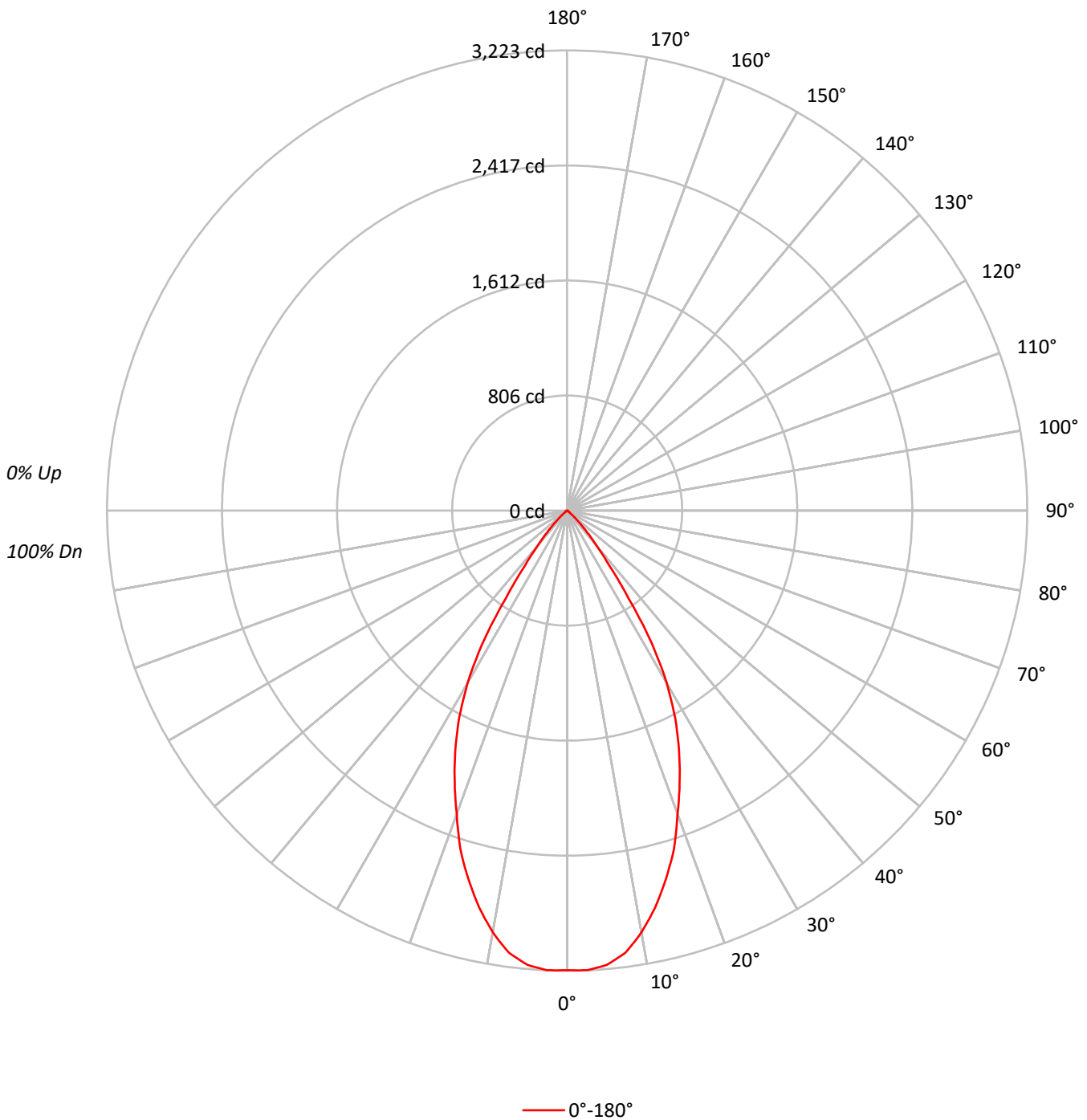
Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | | 96 | 93 | 91 | | 93 | 91 | 89 | 88 |
| 3 | 103 | 97 | 92 | 88 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | | 91 | 88 | 85 | | 88 | 86 | 84 | 82 |
| 4 | 98 | 91 | 86 | 82 | 96 | 90 | 85 | 81 | 88 | 83 | 80 | | 86 | 82 | 79 | | 84 | 81 | 78 | 77 |
| 5 | 93 | 85 | 80 | 76 | 92 | 85 | 79 | 75 | 83 | 78 | 75 | | 81 | 77 | 74 | | 80 | 76 | 73 | 72 |
| 6 | 89 | 80 | 75 | 71 | 88 | 80 | 74 | 70 | 78 | 73 | 70 | | 77 | 73 | 69 | | 75 | 72 | 69 | 68 |
| 7 | 85 | 76 | 70 | 66 | 83 | 75 | 70 | 66 | 74 | 69 | 65 | | 73 | 68 | 65 | | 72 | 68 | 65 | 63 |
| 8 | 81 | 72 | 66 | 62 | 80 | 71 | 66 | 62 | 70 | 65 | 62 | | 69 | 65 | 61 | | 68 | 64 | 61 | 60 |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 62 | 58 | | 66 | 61 | 58 | | 65 | 61 | 58 | 56 |
| 10 | 74 | 64 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 55 | | 62 | 58 | 55 | | 62 | 58 | 55 | 53 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 87947 |
| 5° | 87578 |
| 10° | 83193 |
| 15° | 75570 |
| 20° | 65758 |
| 25° | 55908 |
| 30° | 43978 |
| 35° | 25093 |
| 40° | 11289 |
| 45° | 4751 |
| 50° | 1500 |
| 55° | 452 |
| 60° | 311 |
| 65° | 246 |
| 70° | 232 |
| 75° | 306 |
| 80° | 157 |
| 85° | 313 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 298.8 | 11.9 |
| 10°-20° | 743.4 | 29.7 |
| 20°-30° | 842.4 | 33.7 |
| 30°-40° | 488.3 | 19.5 |
| 40°-50° | 108.3 | 4.3 |
| 50°-60° | 11.9 | 0.5 |
| 60°-70° | 3.9 | 0.2 |
| 70°-80° | 2.5 | 0.1 |
| 80°-90° | 0.7 | 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° | 1884.5 | 75.4 |
| 0°-40° | 2372.8 | 94.9 |
| 0°-60° | 2492.9 | 99.7 |
| 0°-90° | 2500.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2500.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3220 | |
| 5° | 3194 | 299 |
| 15° | 2672 | 743 |
| 25° | 1855 | 842 |
| 35° | 752 | 488 |
| 45° | 123 | 108 |
| 55° | 10 | 12 |
| 65° | 4 | 4 |
| 75° | 3 | 3 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3219.7 |
| 2.5° | 3222.6 |
| 5° | 3194.0 |
| 7.5° | 3124.4 |
| 10° | 2999.4 |
| 12.5° | 2847.8 |
| 15° | 2672.3 |
| 17.5° | 2487.3 |
| 20° | 2262.2 |
| 22.5° | 2059.1 |
| 25° | 1855.0 |
| 27.5° | 1637.5 |
| 30° | 1394.3 |
| 32.5° | 1107.3 |
| 35° | 752.5 |
| 37.5° | 483.5 |
| 40° | 316.6 |
| 42.5° | 207.0 |
| 45° | 123.0 |
| 47.5° | 68.7 |
| 50° | 35.3 |
| 52.5° | 16.2 |
| 55° | 9.5 |
| 57.5° | 7.6 |
| 60° | 5.7 |
| 62.5° | 4.8 |
| 65° | 3.8 |
| 67.5° | 2.9 |
| 70° | 2.9 |
| 72.5° | 2.9 |
| 75° | 2.9 |
| 77.5° | 1.9 |
| 80° | 1.0 |
| 82.5° | 1.0 |
| 85° | 1.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)