

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: P366353

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-WMH-BL89BW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-46)
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-WMH-BL89BW
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS ACRYLIC OPAL SMOOTH, CLEAR 0.125", 5000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

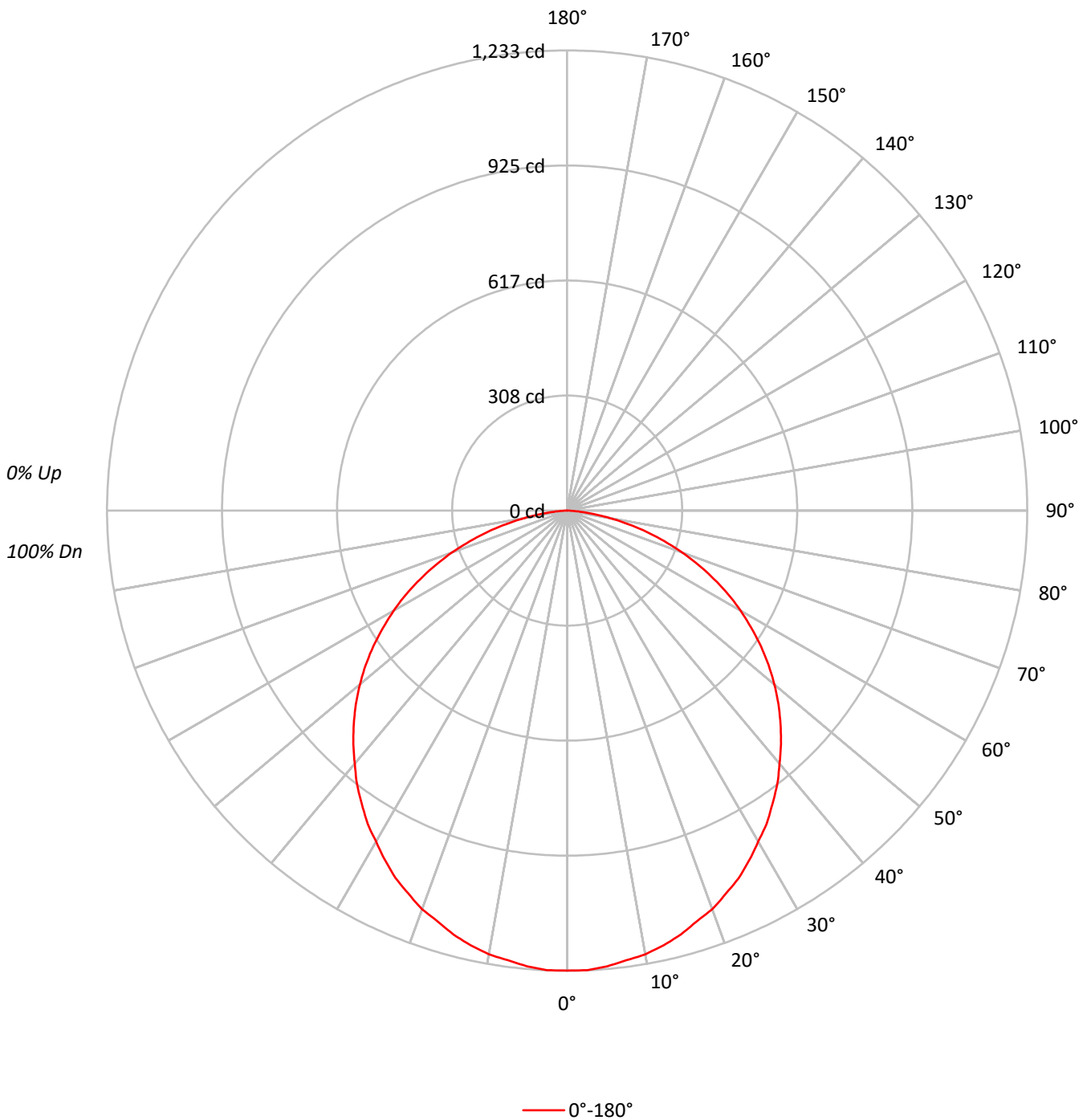
Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 33669 |
| 5° | 33611 |
| 10° | 33478 |
| 15° | 33262 |
| 20° | 33048 |
| 25° | 32770 |
| 30° | 32298 |
| 35° | 31982 |
| 40° | 31578 |
| 45° | 31236 |
| 50° | 30805 |
| 55° | 30202 |
| 60° | 29326 |
| 65° | 28064 |
| 70° | 26212 |
| 75° | 23271 |
| 80° | 18562 |
| 85° | 11251 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.4 | 3.4 |
| 10°-20° | 331.7 | 9.6 |
| 20°-30° | 500.2 | 14.5 |
| 30°-40° | 600.4 | 17.4 |
| 40°-50° | 623.5 | 18.1 |
| 50°-60° | 565.9 | 16.4 |
| 60°-70° | 429.2 | 12.4 |
| 70°-80° | 233.1 | 6.8 |
| 80°-90° | 48.6 | 1.4 |
| 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° | 948.2 | 27.5 |
| 0°-40° | 1548.6 | 44.9 |
| 0°-60° | 2738.0 | 79.4 |
| 0°-90° | 3449.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3449.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1233 | |
| 5° | 1226 | 116 |
| 15° | 1176 | 332 |
| 25° | 1087 | 500 |
| 35° | 959 | 600 |
| 45° | 809 | 624 |
| 55° | 634 | 566 |
| 65° | 434 | 429 |
| 75° | 220 | 233 |
| 85° | 36 | 49 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1232.6 |
| 2.5° | 1232.6 |
| 5° | 1225.8 |
| 7.5° | 1215.5 |
| 10° | 1207.0 |
| 12.5° | 1193.3 |
| 15° | 1176.2 |
| 17.5° | 1154.0 |
| 20° | 1136.9 |
| 22.5° | 1111.2 |
| 25° | 1087.3 |
| 27.5° | 1056.5 |
| 30° | 1024.0 |
| 32.5° | 995.0 |
| 35° | 959.1 |
| 37.5° | 924.9 |
| 40° | 885.6 |
| 42.5° | 847.9 |
| 45° | 808.6 |
| 47.5° | 767.6 |
| 50° | 724.9 |
| 52.5° | 680.4 |
| 55° | 634.2 |
| 57.5° | 584.7 |
| 60° | 536.8 |
| 62.5° | 487.2 |
| 65° | 434.2 |
| 67.5° | 381.2 |
| 70° | 328.2 |
| 72.5° | 273.5 |
| 75° | 220.5 |
| 77.5° | 167.5 |
| 80° | 118.0 |
| 82.5° | 73.5 |
| 85° | 35.9 |
| 87.5° | 10.3 |
| 90° | 0.0 |

(END OF REPORT)