

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: P732485

Luminaire Tested: **14FCZ2-20-RDP-B2750-W2D-CP375-5000K**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P732485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-20-RDP-B2750-W2D-CP375-5000K
Description: 1X4 2000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT
AND RDP LENS, WITH, CP375 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

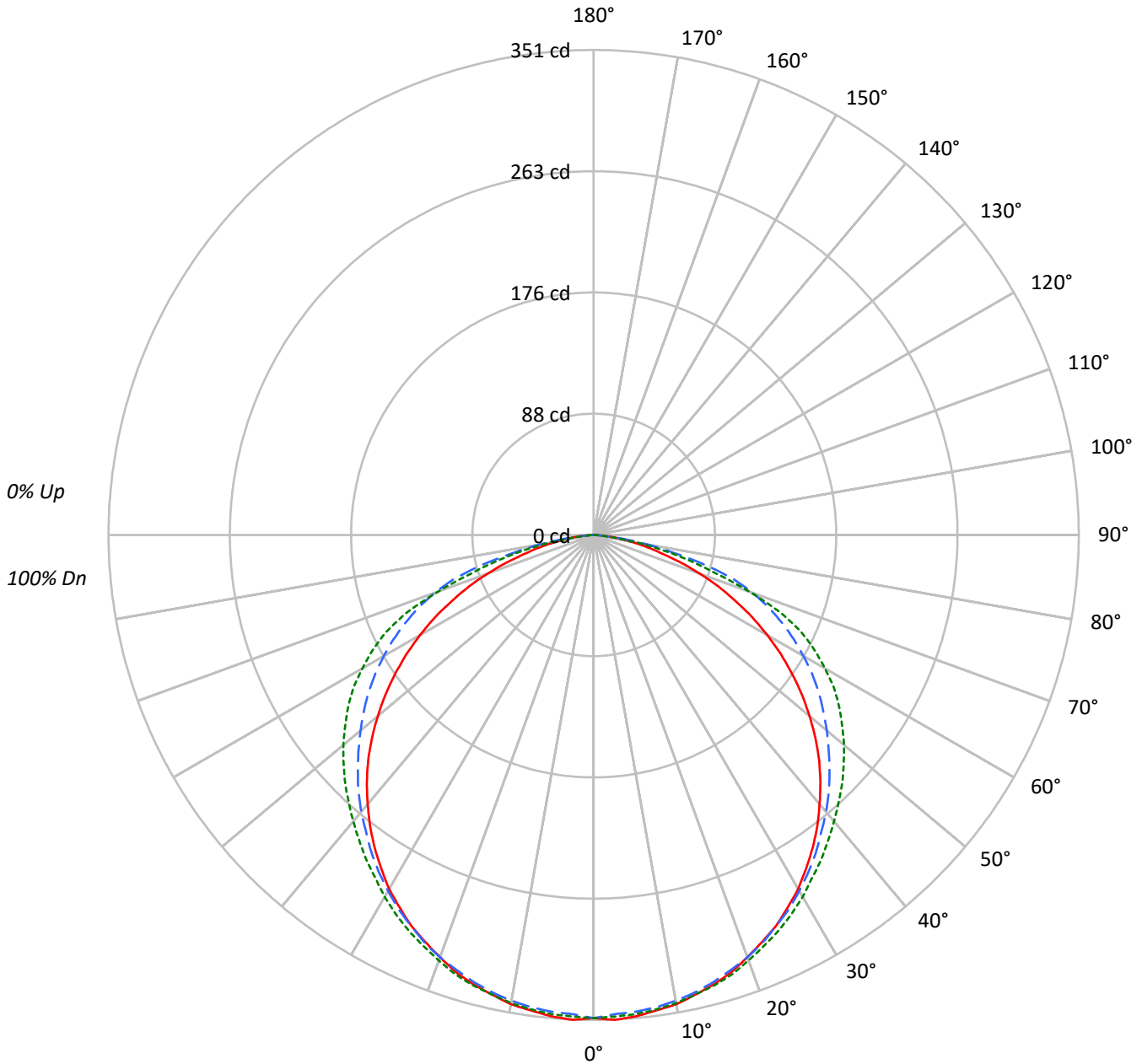
Lumens per Lamp: N/A
Luminaire Lumens: 1044.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
Input Voltage (V): NR
Input Current (A_{in}): 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 | 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 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 | | | |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-----|------|------|
| 0° | 987 | 987 | 987 |
| 5° | 991 | 982 | 986 |
| 10° | 988 | 981 | 986 |
| 15° | 984 | 979 | 986 |
| 20° | 977 | 977 | 984 |
| 25° | 972 | 972 | 985 |
| 30° | 964 | 970 | 986 |
| 35° | 952 | 966 | 989 |
| 40° | 937 | 964 | 997 |
| 45° | 921 | 963 | 1015 |
| 50° | 895 | 967 | 1038 |
| 55° | 862 | 979 | 1067 |
| 60° | 819 | 989 | 1091 |
| 65° | 757 | 1002 | 1105 |
| 70° | 673 | 1009 | 989 |
| 75° | 543 | 906 | 791 |
| 80° | 424 | 637 | 517 |
| 85° | 291 | 185 | 133 |



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CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-5000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.1 | 3.2 |
| 10°-20° | 95.0 | 9.1 |
| 20°-30° | 144.6 | 13.8 |
| 30°-40° | 176.1 | 16.9 |
| 40°-50° | 186.8 | 17.9 |
| 50°-60° | 176.3 | 16.9 |
| 60°-70° | 142.4 | 13.6 |
| 70°-80° | 77.2 | 7.4 |
| 80°-90° | 12.5 | 1.2 |
| 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° | 272.6 | 26.1 |
| 0°-40° | 448.7 | 43.0 |
| 0°-60° | 811.9 | 77.8 |
| 0°-90° | 1044.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1044.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 350 | 350 | 350 | 350 | 350 | |
| 5° | 350 | 349 | 346 | 349 | 348 | 33 |
| 15° | 337 | 336 | 335 | 338 | 338 | 95 |
| 25° | 312 | 311 | 312 | 315 | 316 | 144 |
| 35° | 276 | 278 | 280 | 286 | 287 | 173 |
| 45° | 231 | 234 | 241 | 250 | 254 | 178 |
| 55° | 175 | 182 | 199 | 212 | 217 | 157 |
| 65° | 113 | 127 | 150 | 162 | 165 | 112 |
| 75° | 50 | 72 | 83 | 75 | 72 | 54 |
| 85° | 9 | 10 | 6 | 5 | 4 | 12 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P732485

CATALOG NUMBER: 14FCZ2-20-RDP-B2750-W2D-CP375-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 349.7 | 349.7 | 349.7 | 349.7 | 349.7 |
| 2.5° | 351.3 | 349.7 | 347.2 | 349.7 | 348.9 |
| 5° | 349.7 | 348.9 | 346.4 | 348.9 | 348.1 |
| 7.5° | 347.2 | 347.2 | 344.8 | 346.4 | 346.4 |
| 10° | 344.8 | 344.0 | 342.4 | 344.8 | 344.0 |
| 12.5° | 340.7 | 339.9 | 339.1 | 341.5 | 340.7 |
| 15° | 336.6 | 335.8 | 335.0 | 337.5 | 337.5 |
| 17.5° | 331.7 | 330.9 | 330.1 | 333.4 | 333.4 |
| 20° | 325.2 | 325.2 | 325.2 | 328.5 | 327.7 |
| 22.5° | 318.7 | 318.7 | 319.5 | 322.8 | 322.0 |
| 25° | 312.2 | 311.4 | 312.2 | 315.4 | 316.2 |
| 27.5° | 304.0 | 304.8 | 305.6 | 308.9 | 309.7 |
| 30° | 295.9 | 296.7 | 297.5 | 301.6 | 302.4 |
| 32.5° | 286.1 | 287.7 | 289.3 | 294.2 | 294.2 |
| 35° | 276.3 | 277.9 | 280.4 | 286.1 | 286.9 |
| 37.5° | 265.7 | 267.3 | 270.6 | 277.1 | 278.7 |
| 40° | 254.3 | 256.8 | 261.6 | 268.1 | 270.6 |
| 42.5° | 242.9 | 246.2 | 251.9 | 259.2 | 262.4 |
| 45° | 230.7 | 233.9 | 241.3 | 250.3 | 254.3 |
| 47.5° | 217.6 | 221.7 | 230.7 | 242.1 | 245.4 |
| 50° | 203.8 | 209.5 | 220.1 | 232.3 | 236.4 |
| 52.5° | 189.9 | 196.4 | 209.5 | 222.5 | 226.6 |
| 55° | 175.2 | 182.5 | 198.9 | 211.9 | 216.8 |
| 57.5° | 160.5 | 168.7 | 187.4 | 201.3 | 206.2 |
| 60° | 145.1 | 154.9 | 175.2 | 189.1 | 193.2 |
| 62.5° | 129.6 | 141.0 | 163.0 | 176.8 | 180.1 |
| 65° | 113.3 | 127.2 | 150.0 | 162.2 | 165.4 |
| 67.5° | 97.8 | 114.1 | 137.0 | 145.9 | 145.9 |
| 70° | 81.5 | 99.4 | 122.3 | 124.7 | 119.8 |
| 72.5° | 65.2 | 85.6 | 106.0 | 97.0 | 92.9 |
| 75° | 49.8 | 72.5 | 83.1 | 75.0 | 72.5 |
| 77.5° | 37.5 | 58.6 | 58.6 | 53.7 | 52.2 |
| 80° | 26.1 | 44.9 | 39.2 | 34.3 | 31.8 |
| 82.5° | 17.1 | 25.3 | 20.4 | 16.3 | 13.9 |
| 85° | 9.0 | 9.8 | 5.7 | 4.9 | 4.1 |
| 87.5° | 3.3 | 1.6 | 0.8 | 1.6 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)