

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: CORELITE

Report Number: P412450

Luminaire Tested: **22PD-70-PB1-L940**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-70-PB1-L940
Description: 7000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

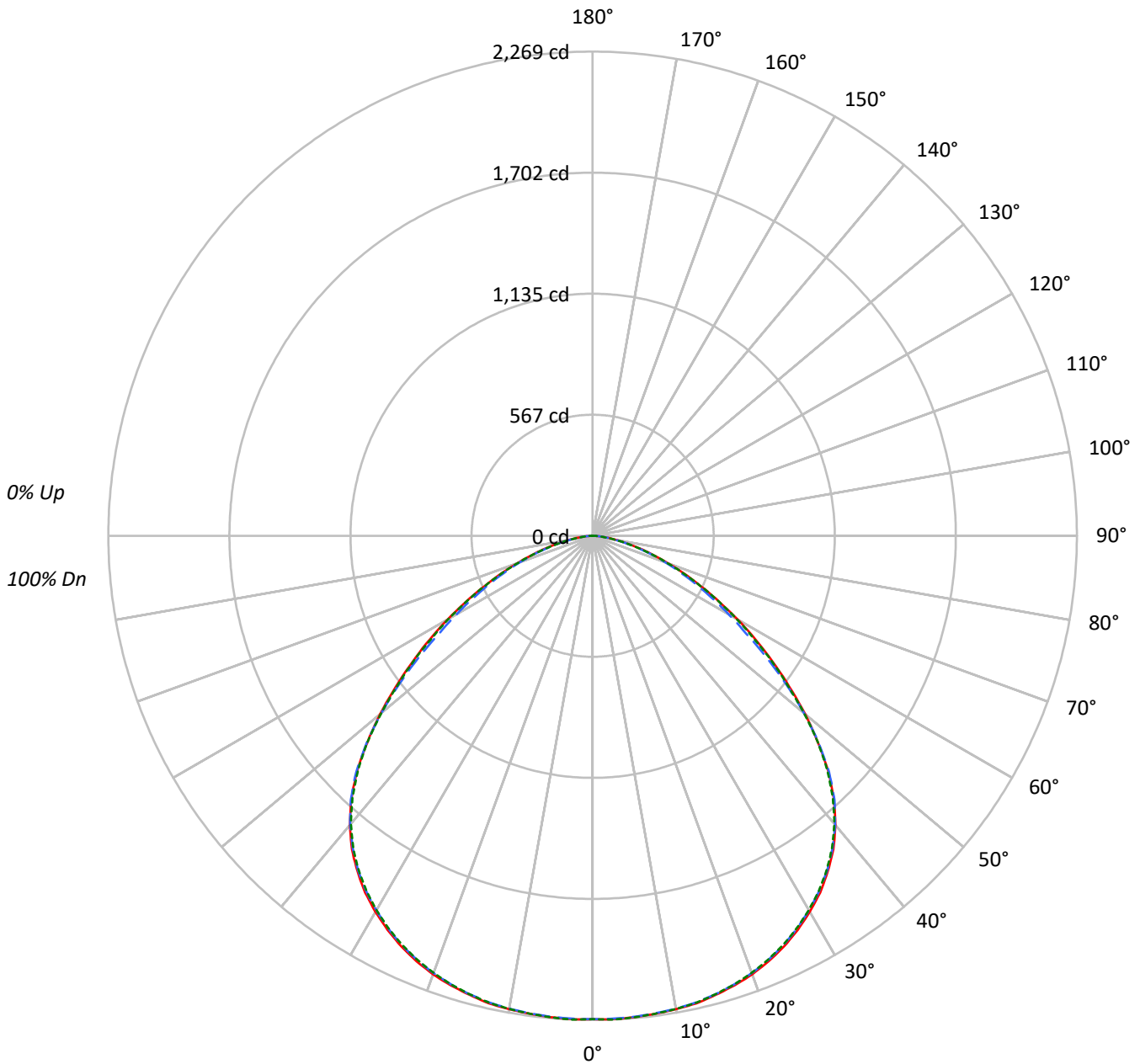
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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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CATALOG NUMBER: 22PD-70-PB1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P412450

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 76 | 73 | | | | | | | | | | | | | | | | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | 63 | | | | | | | | | | | | | | | | | | | |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 56 | 54 | | | | | | | | | | | | | | | | | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 7 | 67 | 54 | 46 | 40 | 66 | 53 | 45 | 40 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 | | | | | | | | | | | | | | | | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6097 | 6097 | 6097 |
| 5° | 6116 | 6111 | 6118 |
| 10° | 6156 | 6149 | 6152 |
| 15° | 6206 | 6197 | 6197 |
| 20° | 6263 | 6245 | 6241 |
| 25° | 6303 | 6284 | 6278 |
| 30° | 6324 | 6298 | 6293 |
| 35° | 6310 | 6292 | 6280 |
| 40° | 6216 | 6209 | 6189 |
| 45° | 5942 | 5961 | 5916 |
| 50° | 5440 | 5411 | 5405 |
| 55° | 4835 | 4664 | 4802 |
| 60° | 4215 | 3959 | 4189 |
| 65° | 3573 | 3381 | 3555 |
| 70° | 2954 | 2833 | 2927 |
| 75° | 2389 | 2236 | 2295 |
| 80° | 1726 | 1672 | 1661 |
| 85° | 1124 | 1124 | 1081 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 215.6 | 3.6 |
| 10°-20° | 628.7 | 10.6 |
| 20°-30° | 975.6 | 16.4 |
| 30°-40° | 1196.4 | 20.1 |
| 40°-50° | 1195.9 | 20.1 |
| 50°-60° | 905.9 | 15.2 |
| 60°-70° | 543.3 | 9.1 |
| 70°-80° | 239.2 | 4.0 |
| 80°-90° | 47.5 | 0.8 |
| 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° | 1819.9 | 30.6 |
| 0°-40° | 3016.2 | 50.7 |
| 0°-60° | 5118.0 | 86.0 |
| 0°-90° | 5948.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5948.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2266 | 2266 | 2266 | 2266 | 2266 | |
| 5° | 2264 | 2261 | 2262 | 2261 | 2265 | 216 |
| 15° | 2228 | 2226 | 2224 | 2223 | 2224 | 630 |
| 25° | 2123 | 2118 | 2116 | 2113 | 2114 | 978 |
| 35° | 1921 | 1920 | 1915 | 1914 | 1912 | 1200 |
| 45° | 1562 | 1564 | 1566 | 1562 | 1554 | 1195 |
| 55° | 1030 | 1008 | 994 | 1007 | 1024 | 924 |
| 65° | 561 | 542 | 531 | 540 | 558 | 561 |
| 75° | 230 | 225 | 215 | 219 | 221 | 245 |
| 85° | 36 | 38 | 36 | 35 | 35 | 48 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412450

CATALOG NUMBER: 22PD-70-PB1-L940

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2265.6 | 2265.6 | 2265.6 | 2265.6 | 2265.6 |
| 2.5° | 2267.7 | 2264.2 | 2264.9 | 2264.9 | 2269.1 |
| 5° | 2264.2 | 2261.4 | 2262.1 | 2261.4 | 2264.9 |
| 7.5° | 2259.3 | 2256.5 | 2257.2 | 2256.5 | 2258.6 |
| 10° | 2253.0 | 2250.2 | 2250.2 | 2248.8 | 2251.6 |
| 12.5° | 2244.6 | 2241.1 | 2239.7 | 2239.0 | 2241.1 |
| 15° | 2227.8 | 2225.7 | 2224.3 | 2222.9 | 2224.3 |
| 17.5° | 2209.5 | 2206.0 | 2204.6 | 2201.8 | 2204.6 |
| 20° | 2187.1 | 2182.2 | 2180.8 | 2178.7 | 2179.4 |
| 22.5° | 2157.7 | 2153.5 | 2151.4 | 2147.9 | 2149.3 |
| 25° | 2122.7 | 2118.5 | 2116.4 | 2112.9 | 2114.3 |
| 27.5° | 2082.0 | 2079.2 | 2074.3 | 2071.5 | 2072.2 |
| 30° | 2035.1 | 2032.3 | 2026.7 | 2025.3 | 2025.3 |
| 32.5° | 1983.3 | 1979.8 | 1974.9 | 1973.5 | 1972.8 |
| 35° | 1920.9 | 1920.2 | 1915.3 | 1913.9 | 1911.8 |
| 37.5° | 1853.0 | 1851.6 | 1846.0 | 1844.6 | 1842.5 |
| 40° | 1769.6 | 1768.2 | 1767.5 | 1764.7 | 1761.9 |
| 42.5° | 1672.9 | 1675.0 | 1676.4 | 1670.8 | 1665.2 |
| 45° | 1561.5 | 1563.6 | 1566.4 | 1562.2 | 1554.5 |
| 47.5° | 1431.2 | 1439.6 | 1435.4 | 1438.2 | 1430.5 |
| 50° | 1299.5 | 1299.5 | 1292.5 | 1295.3 | 1291.1 |
| 52.5° | 1161.5 | 1150.3 | 1141.9 | 1147.5 | 1153.1 |
| 55° | 1030.5 | 1008.1 | 994.1 | 1007.4 | 1023.5 |
| 57.5° | 905.1 | 878.5 | 852.6 | 873.6 | 893.2 |
| 60° | 783.2 | 752.4 | 735.6 | 751.0 | 778.3 |
| 62.5° | 667.6 | 645.2 | 628.4 | 640.3 | 663.4 |
| 65° | 561.1 | 541.5 | 531.0 | 540.1 | 558.3 |
| 67.5° | 463.8 | 450.5 | 439.9 | 447.7 | 461.7 |
| 70° | 375.5 | 372.0 | 360.1 | 363.6 | 372.0 |
| 72.5° | 294.9 | 294.2 | 283.7 | 286.5 | 291.4 |
| 75° | 229.8 | 224.9 | 215.1 | 218.6 | 220.7 |
| 77.5° | 162.5 | 164.6 | 155.5 | 157.6 | 157.6 |
| 80° | 111.4 | 114.9 | 107.9 | 106.5 | 107.2 |
| 82.5° | 70.8 | 70.8 | 70.1 | 69.4 | 67.3 |
| 85° | 36.4 | 37.8 | 36.4 | 35.0 | 35.0 |
| 87.5° | 14.0 | 14.0 | 14.0 | 13.3 | 12.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)