

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: PORTFOLIO

Report Number: P247569

Luminaire Tested: **LD8B120D010 ER8B120927 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120927 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9644.6 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

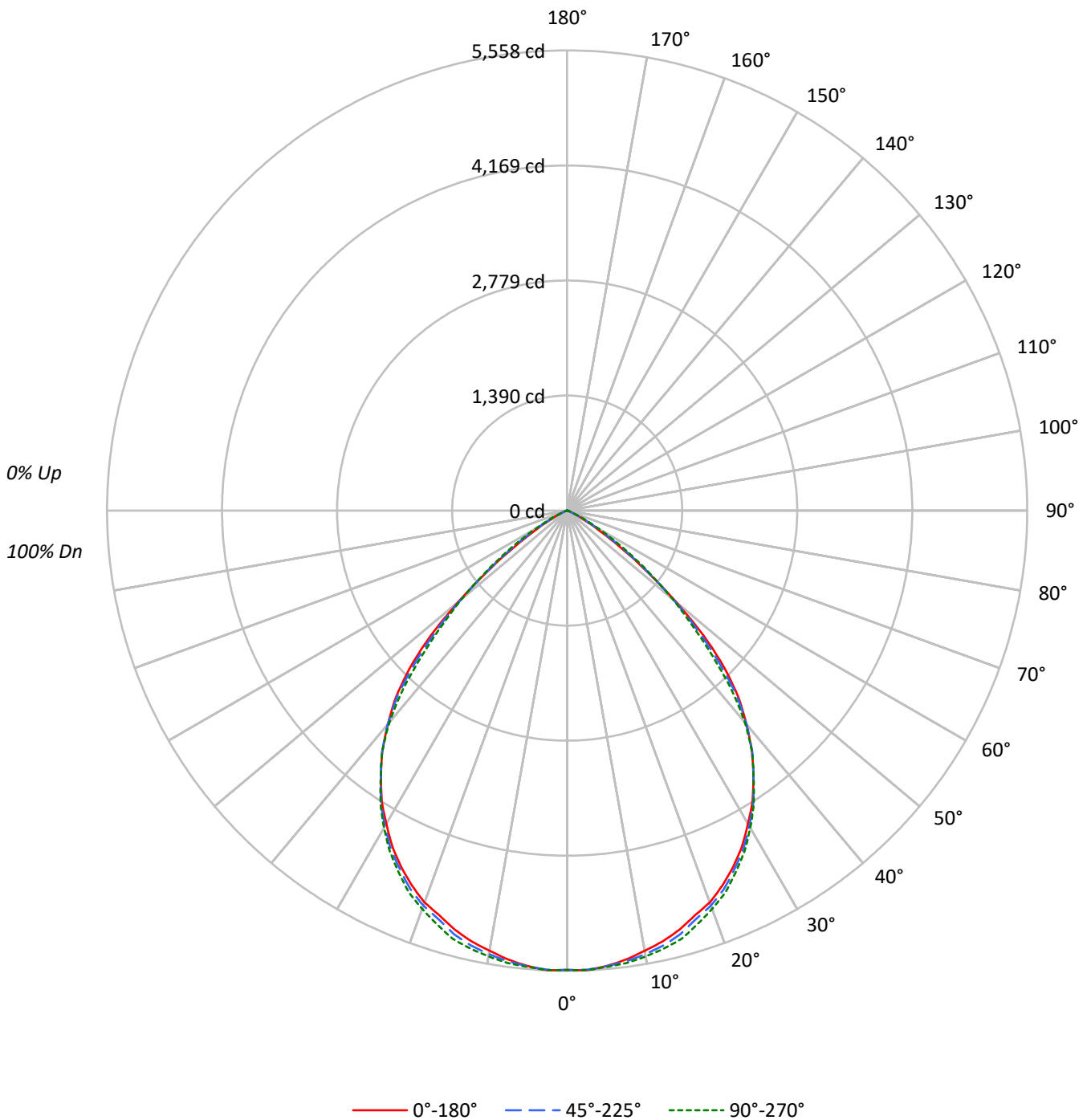
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 100 | 100 | 100 | 100 | | |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | 91 | 91 | 91 | 91 | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | 81 | 81 | 81 | 81 | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | 73 | 73 | 73 | 73 | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | 65 | 65 | 65 | 65 | | |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 | 58 | 58 | 58 | 58 | | |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | 53 | 53 | 53 | 53 | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | 48 | 48 | 48 | 48 | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | 43 | 43 | 43 | 43 | | |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | 39 | 39 | 39 | 39 | | |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | 36 | 36 | 36 | 36 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--|-----|-----|
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 524.8 | 5.4 |
| 10°-20° | 1490.5 | 15.5 |
| 20°-30° | 2198.1 | 22.8 |
| 30°-40° | 2446.6 | 25.4 |
| 40°-50° | 1969.0 | 20.4 |
| 50°-60° | 837.3 | 8.7 |
| 60°-70° | 156.9 | 1.6 |
| 70°-80° | 19.0 | 0.2 |
| 80°-90° | 2.4 | 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° | 4213.4 | 43.7 |
| 0°-40° | 6660.0 | 69.1 |
| 0°-60° | 9466.3 | 98.2 |
| 0°-90° | 9644.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9644.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5548 | 5548 | 5548 | 5548 | 5548 | |
| 5° | 5521 | 5522 | 5523 | 5532 | 5531 | 523 |
| 15° | 5240 | 5269 | 5294 | 5335 | 5352 | 1477 |
| 25° | 4745 | 4762 | 4780 | 4808 | 4819 | 2181 |
| 35° | 3920 | 3921 | 3924 | 3925 | 3925 | 2441 |
| 45° | 2690 | 2668 | 2595 | 2517 | 2480 | 2023 |
| 55° | 831 | 849 | 900 | 936 | 959 | 791 |
| 65° | 104 | 115 | 130 | 140 | 156 | 135 |
| 75° | 10 | 13 | 20 | 18 | 17 | 17 |
| 85° | 0 | 0 | 0 | 0 | 0 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247569

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5548.4 | 5548.4 | 5548.4 | 5548.4 | 5548.4 |
| 2.5° | 5557.6 | 5561.0 | 5549.5 | 5551.8 | 5555.2 |
| 5° | 5520.6 | 5521.8 | 5523.0 | 5532.2 | 5531.1 |
| 7.5° | 5468.7 | 5476.8 | 5490.7 | 5508.0 | 5512.6 |
| 10° | 5398.3 | 5419.1 | 5439.8 | 5460.6 | 5467.6 |
| 12.5° | 5329.1 | 5341.8 | 5378.7 | 5399.4 | 5416.8 |
| 15° | 5240.2 | 5269.0 | 5294.5 | 5334.9 | 5352.2 |
| 17.5° | 5127.2 | 5147.9 | 5172.2 | 5212.6 | 5236.8 |
| 20° | 5036.0 | 5041.8 | 5076.3 | 5112.1 | 5120.2 |
| 22.5° | 4901.0 | 4913.7 | 4949.4 | 4973.6 | 4994.4 |
| 25° | 4745.1 | 4762.5 | 4779.8 | 4807.5 | 4819.0 |
| 27.5° | 4574.4 | 4584.8 | 4609.0 | 4628.6 | 4639.0 |
| 30° | 4367.8 | 4390.9 | 4401.3 | 4410.6 | 4424.4 |
| 32.5° | 4167.0 | 4174.0 | 4183.2 | 4188.9 | 4195.9 |
| 35° | 3920.1 | 3921.2 | 3923.6 | 3924.7 | 3924.7 |
| 37.5° | 3667.4 | 3675.5 | 3673.1 | 3666.2 | 3669.6 |
| 40° | 3368.5 | 3382.3 | 3374.2 | 3353.5 | 3339.7 |
| 42.5° | 3067.3 | 3060.3 | 3032.7 | 2970.3 | 2941.5 |
| 45° | 2690.0 | 2668.0 | 2595.3 | 2516.8 | 2480.0 |
| 47.5° | 2237.6 | 2189.1 | 2127.9 | 2066.7 | 2042.6 |
| 50° | 1714.8 | 1707.9 | 1680.2 | 1656.0 | 1658.2 |
| 52.5° | 1229.0 | 1246.3 | 1252.1 | 1275.2 | 1286.7 |
| 55° | 830.8 | 849.4 | 900.1 | 935.9 | 959.0 |
| 57.5° | 505.5 | 541.2 | 595.5 | 654.3 | 684.3 |
| 60° | 319.6 | 340.4 | 390.0 | 428.2 | 442.0 |
| 62.5° | 199.7 | 200.8 | 225.0 | 255.0 | 267.8 |
| 65° | 103.8 | 115.4 | 130.4 | 139.6 | 155.8 |
| 67.5° | 64.6 | 64.6 | 63.4 | 77.3 | 86.5 |
| 70° | 42.8 | 36.9 | 38.1 | 46.1 | 49.6 |
| 72.5° | 15.0 | 25.4 | 23.1 | 23.1 | 16.2 |
| 75° | 10.4 | 12.7 | 19.6 | 18.4 | 17.3 |
| 77.5° | 13.8 | 12.7 | 9.2 | 8.1 | 16.2 |
| 80° | 5.7 | 4.6 | 1.1 | 7.0 | 7.0 |
| 82.5° | 5.7 | 2.4 | 7.0 | 9.2 | 5.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)