

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: P247285

Luminaire Tested: **LD8B120D010 ER8B1209730 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B1209730 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8953.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

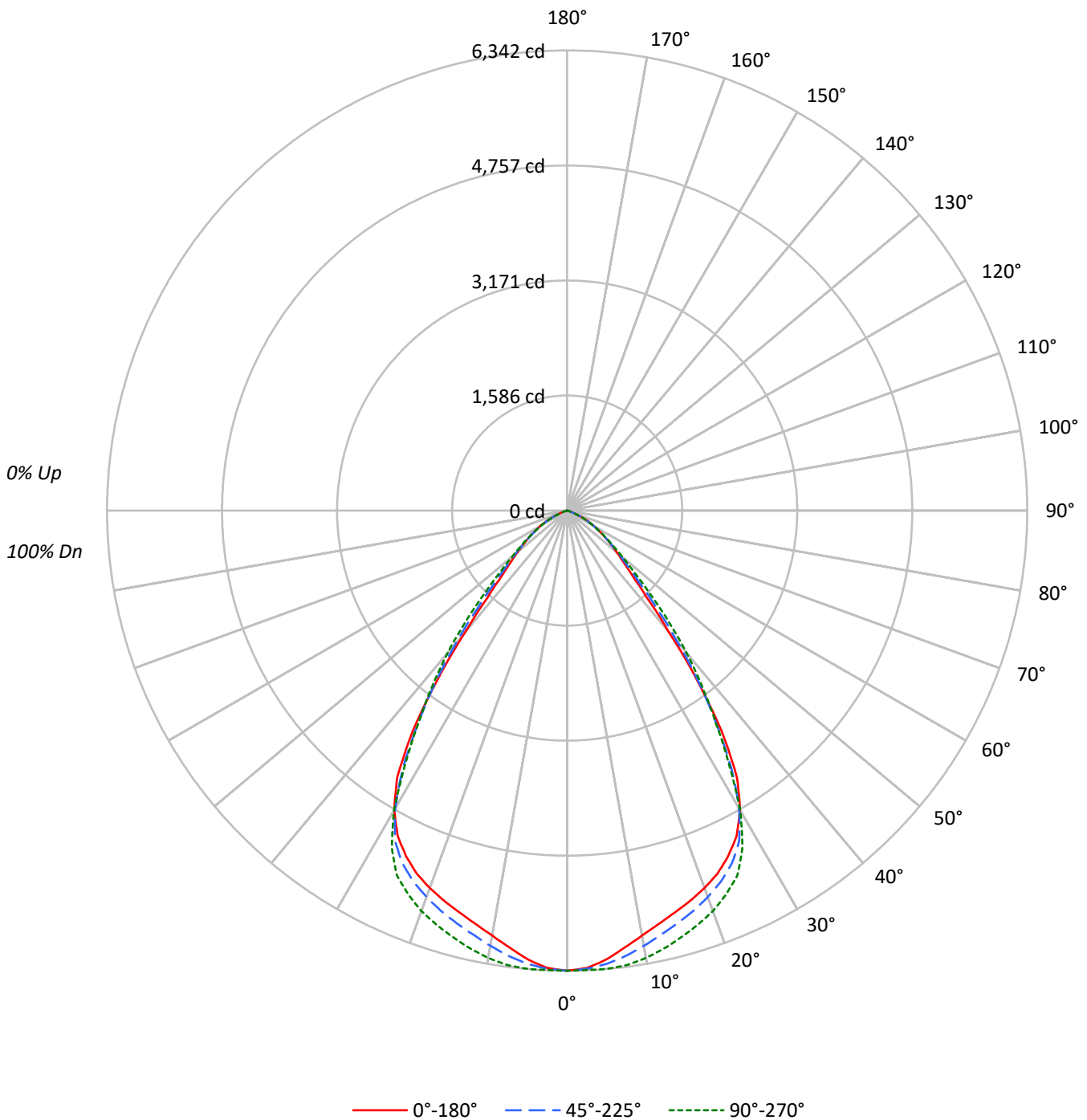
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 83 |
| 3 | 99 | 91 | 85 | 81 | 97 | 90 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 68 | 64 | 71 | 67 | 63 | 61 |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 49 | 59 | 54 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 44 |
| 10 | 65 | 53 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 42 | 40 |

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° | 593.1 | 6.6 |
| 10°-20° | 1665.5 | 18.6 |
| 20°-30° | 2452.8 | 27.4 |
| 30°-40° | 2230.9 | 24.9 |
| 40°-50° | 1154.9 | 12.9 |
| 50°-60° | 578.6 | 6.5 |
| 60°-70° | 235.6 | 2.6 |
| 70°-80° | 37.6 | 0.4 |
| 80°-90° | 4.1 | 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° | 4711.4 | 52.6 |
| 0°-40° | 6942.3 | 77.5 |
| 0°-60° | 8675.8 | 96.9 |
| 0°-90° | 8953.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8953.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6342 | 6342 | 6342 | 6342 | 6342 | |
| 5° | 6210 | 6226 | 6269 | 6317 | 6339 | 584 |
| 15° | 5734 | 5774 | 5886 | 6022 | 6087 | 1621 |
| 25° | 5254 | 5289 | 5370 | 5492 | 5550 | 2405 |
| 35° | 3714 | 3690 | 3582 | 3552 | 3574 | 2239 |
| 45° | 1273 | 1318 | 1415 | 1525 | 1593 | 1048 |
| 55° | 629 | 627 | 627 | 639 | 650 | 572 |
| 65° | 243 | 242 | 233 | 230 | 227 | 245 |
| 75° | 33 | 32 | 29 | 27 | 27 | 41 |
| 85° | 3 | 3 | 3 | 2 | 2 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6342.1 | 6342.1 | 6342.1 | 6342.1 | 6342.1 |
| 2.5° | 6308.5 | 6311.7 | 6320.4 | 6330.2 | 6337.8 |
| 5° | 6209.7 | 6226.0 | 6269.4 | 6317.2 | 6338.9 |
| 7.5° | 6075.1 | 6111.0 | 6190.2 | 6279.2 | 6318.2 |
| 10° | 5947.1 | 5988.3 | 6091.4 | 6210.8 | 6260.7 |
| 12.5° | 5834.2 | 5874.4 | 5986.2 | 6119.6 | 6181.5 |
| 15° | 5734.4 | 5773.5 | 5886.3 | 6022.0 | 6087.1 |
| 17.5° | 5640.0 | 5675.8 | 5783.2 | 5918.9 | 5985.1 |
| 20° | 5534.7 | 5566.2 | 5668.2 | 5799.5 | 5873.3 |
| 22.5° | 5415.3 | 5439.2 | 5534.7 | 5659.5 | 5724.6 |
| 25° | 5253.6 | 5289.4 | 5369.7 | 5492.4 | 5549.9 |
| 27.5° | 5056.1 | 5078.9 | 5134.2 | 5209.1 | 5233.0 |
| 30° | 4763.1 | 4762.0 | 4743.6 | 4743.6 | 4774.0 |
| 32.5° | 4356.1 | 4304.0 | 4216.1 | 4163.0 | 4158.6 |
| 35° | 3713.7 | 3689.8 | 3582.4 | 3552.0 | 3573.7 |
| 37.5° | 2930.1 | 2946.4 | 2973.5 | 3017.0 | 3056.0 |
| 40° | 2175.9 | 2217.1 | 2370.2 | 2506.9 | 2566.6 |
| 42.5° | 1623.5 | 1676.7 | 1833.0 | 1982.7 | 2055.4 |
| 45° | 1273.0 | 1317.5 | 1415.1 | 1524.8 | 1593.1 |
| 47.5° | 1052.7 | 1075.5 | 1127.6 | 1201.4 | 1236.1 |
| 50° | 891.0 | 901.8 | 925.7 | 963.7 | 990.8 |
| 52.5° | 756.4 | 752.1 | 765.1 | 790.1 | 799.8 |
| 55° | 629.4 | 627.3 | 627.3 | 639.2 | 650.1 |
| 57.5° | 522.0 | 518.7 | 512.2 | 517.7 | 520.9 |
| 60° | 427.6 | 424.3 | 418.9 | 417.8 | 416.7 |
| 62.5° | 344.0 | 338.6 | 327.7 | 325.6 | 325.6 |
| 65° | 243.1 | 242.0 | 233.3 | 230.1 | 226.8 |
| 67.5° | 150.8 | 146.5 | 138.9 | 132.4 | 131.3 |
| 70° | 90.1 | 89.0 | 82.5 | 78.1 | 78.1 |
| 72.5° | 54.3 | 52.1 | 48.8 | 46.7 | 45.6 |
| 75° | 32.6 | 31.5 | 29.3 | 27.1 | 27.1 |
| 77.5° | 19.5 | 18.4 | 17.4 | 16.3 | 16.3 |
| 80° | 10.9 | 10.9 | 9.8 | 9.8 | 9.8 |
| 82.5° | 6.5 | 6.5 | 5.4 | 5.4 | 5.4 |
| 85° | 3.3 | 3.3 | 3.3 | 2.2 | 2.2 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)