

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: P244904

Luminaire Tested: **LD8B20D010 ER8B20850 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20850 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

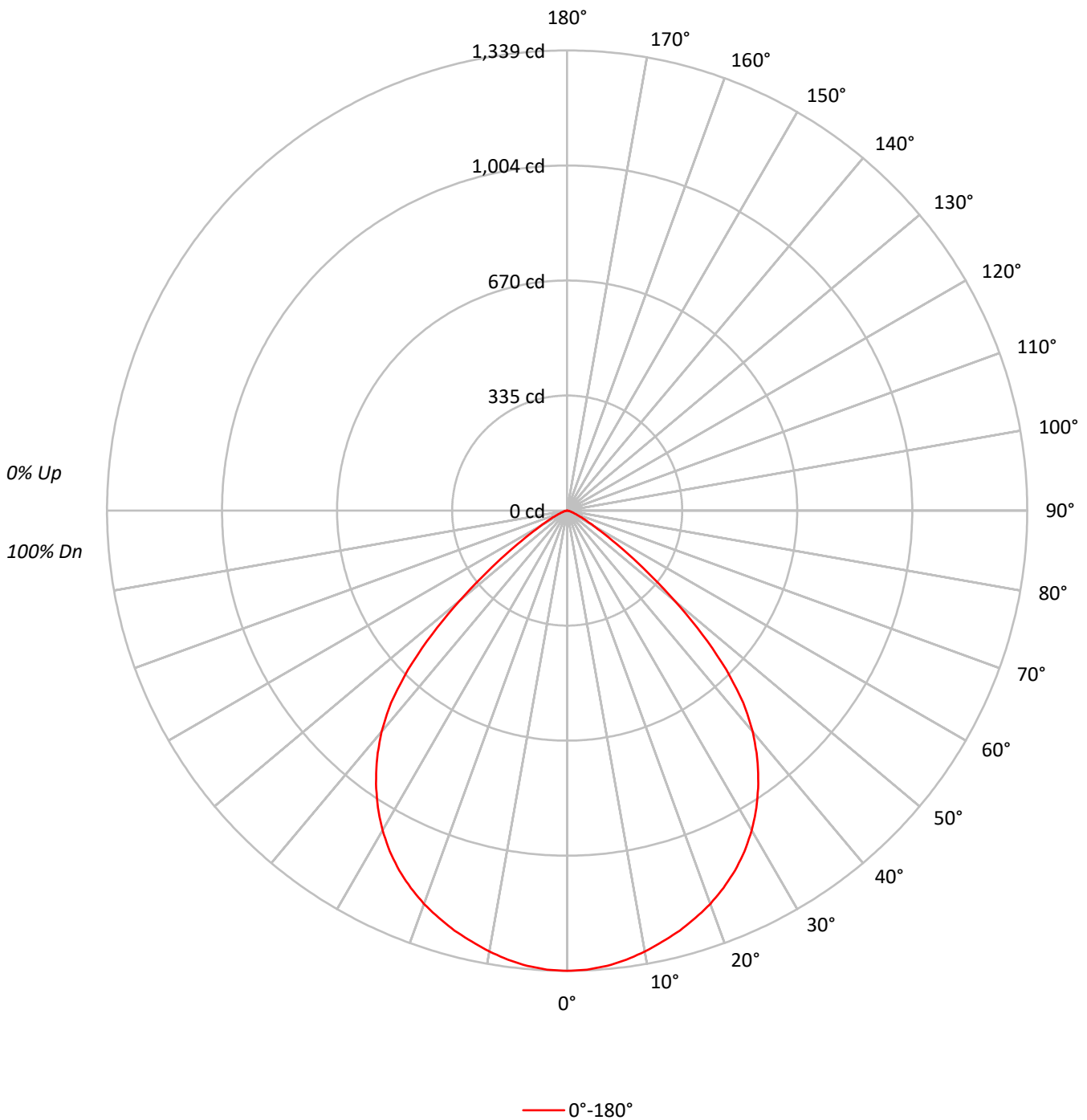
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | | 99 | 97 | 95 | | 95 | 94 | 92 | 91 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 94 | 90 | 86 | | 90 | 87 | 85 | | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | | 83 | 79 | 75 | | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | | 76 | 71 | 67 | | 74 | 70 | 66 | 65 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 67 | 61 | 71 | 65 | 61 | | 70 | 64 | 60 | | 68 | 63 | 60 | 58 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 66 | 59 | 55 | | 64 | 58 | 54 | | 63 | 58 | 54 | 52 |
| 7 | 74 | 63 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | | 59 | 53 | 49 | | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | | 55 | 49 | 45 | | 54 | 48 | 45 | 43 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | | 51 | 45 | 41 | | 50 | 45 | 41 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | | 47 | 42 | 38 | | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 41296 |
| 5° | 41169 |
| 10° | 40800 |
| 15° | 40394 |
| 20° | 39959 |
| 25° | 39328 |
| 30° | 38249 |
| 35° | 36507 |
| 40° | 33833 |
| 45° | 28564 |
| 50° | 19597 |
| 55° | 10811 |
| 60° | 5433 |
| 65° | 3057 |
| 70° | 1668 |
| 75° | 1180 |
| 80° | 764 |
| 85° | 495 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.1 | 5.3 |
| 10°-20° | 356.8 | 15.1 |
| 20°-30° | 531.3 | 22.5 |
| 30°-40° | 603.5 | 25.6 |
| 40°-50° | 493.3 | 20.9 |
| 50°-60° | 193.3 | 8.2 |
| 60°-70° | 45.1 | 1.9 |
| 70°-80° | 10.8 | 0.5 |
| 80°-90° | 1.7 | 0.1 |
| 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° | 1014.2 | 42.9 |
| 0°-40° | 1617.7 | 68.5 |
| 0°-60° | 2304.4 | 97.6 |
| 0°-90° | 2362.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2362.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1339 | |
| 5° | 1330 | 126 |
| 15° | 1265 | 357 |
| 25° | 1156 | 531 |
| 35° | 970 | 604 |
| 45° | 655 | 493 |
| 55° | 201 | 193 |
| 65° | 42 | 45 |
| 75° | 10 | 11 |
| 85° | 1 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1339.2 |
| 2.5° | 1337.1 |
| 5° | 1330.0 |
| 7.5° | 1317.9 |
| 10° | 1303.0 |
| 12.5° | 1284.5 |
| 15° | 1265.3 |
| 17.5° | 1242.6 |
| 20° | 1217.7 |
| 22.5° | 1188.6 |
| 25° | 1155.9 |
| 27.5° | 1117.6 |
| 30° | 1074.2 |
| 32.5° | 1025.2 |
| 35° | 969.8 |
| 37.5° | 908.7 |
| 40° | 840.5 |
| 42.5° | 758.1 |
| 45° | 655.0 |
| 47.5° | 534.3 |
| 50° | 408.5 |
| 52.5° | 293.4 |
| 55° | 201.1 |
| 57.5° | 131.4 |
| 60° | 88.1 |
| 62.5° | 60.4 |
| 65° | 41.9 |
| 67.5° | 27.7 |
| 70° | 18.5 |
| 72.5° | 12.8 |
| 75° | 9.9 |
| 77.5° | 7.1 |
| 80° | 4.3 |
| 82.5° | 2.1 |
| 85° | 1.4 |
| 87.5° | 0.7 |
| 90° | 0.0 |

(END OF REPORT)