

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: P247235

Luminaire Tested: **LD8B90D010 ER8B90930 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90930 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8517.3 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

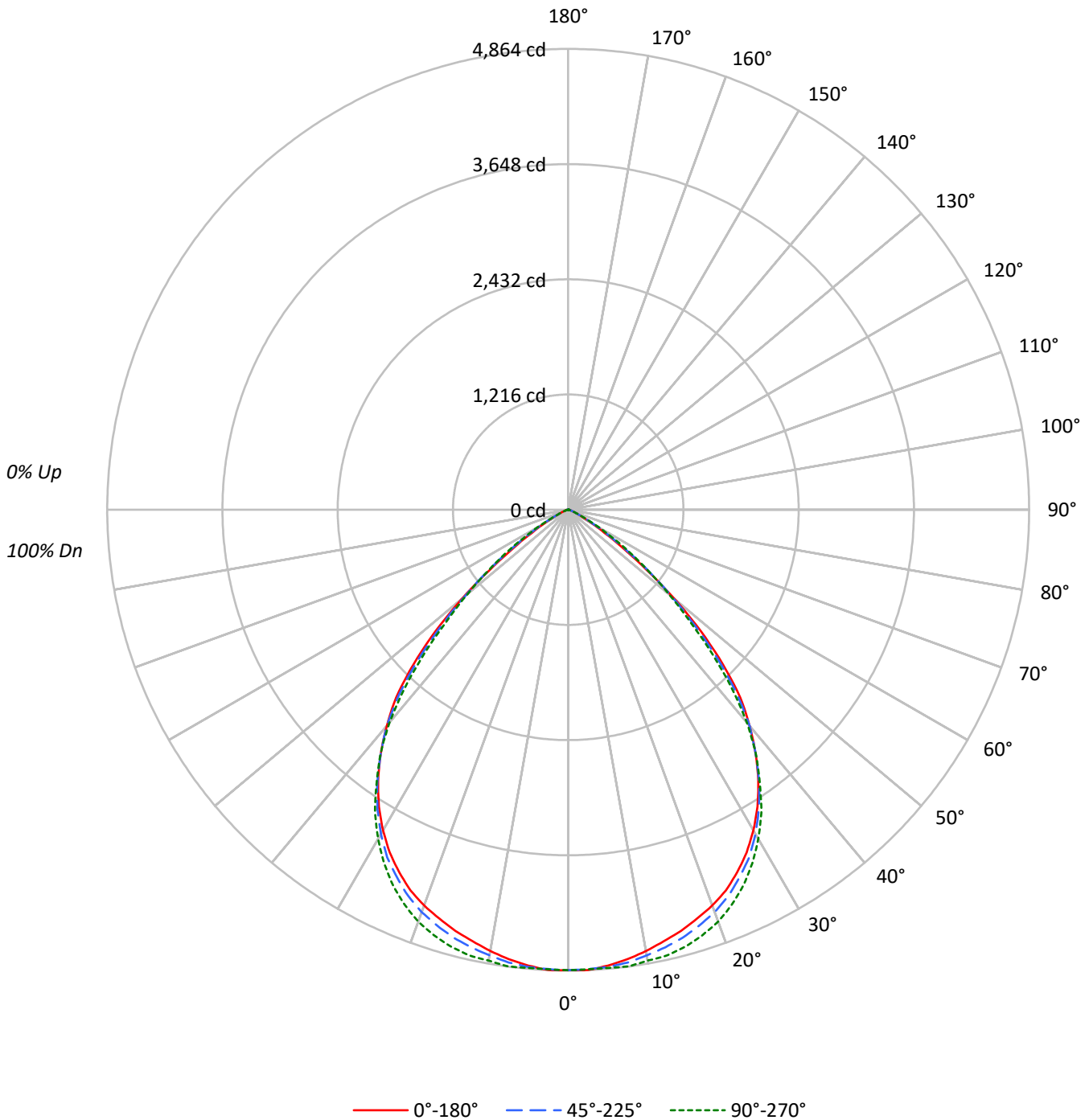
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | | | | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | | | | | |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | | |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | | |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 | | | | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | | |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 50 | 45 | 41 | 40 | | | | | | |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 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° | 460.5 | 5.4 |
| 10°-20° | 1320.5 | 15.5 |
| 20°-30° | 1970.3 | 23.1 |
| 30°-40° | 2182.1 | 25.6 |
| 40°-50° | 1701.7 | 20.0 |
| 50°-60° | 713.3 | 8.4 |
| 60°-70° | 142.9 | 1.7 |
| 70°-80° | 22.7 | 0.3 |
| 80°-90° | 3.5 | 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° | 3751.2 | 44.0 |
| 0°-40° | 5933.3 | 69.7 |
| 0°-60° | 8348.2 | 98.0 |
| 0°-90° | 8517.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8517.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4861 | 4861 | 4861 | 4861 | 4861 | |
| 5° | 4830 | 4834 | 4844 | 4857 | 4854 | 458 |
| 15° | 4602 | 4623 | 4675 | 4744 | 4775 | 1298 |
| 25° | 4221 | 4238 | 4279 | 4345 | 4374 | 1940 |
| 35° | 3496 | 3491 | 3512 | 3529 | 3525 | 2173 |
| 45° | 2311 | 2301 | 2242 | 2173 | 2145 | 1749 |
| 55° | 697 | 724 | 770 | 801 | 816 | 679 |
| 65° | 109 | 109 | 110 | 118 | 114 | 131 |
| 75° | 32 | 29 | 29 | 22 | 20 | 26 |
| 85° | 1 | 2 | 1 | 0 | 5 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4860.7 | 4860.7 | 4860.7 | 4860.7 | 4860.7 |
| 2.5° | 4864.4 | 4855.1 | 4853.3 | 4858.9 | 4855.1 |
| 5° | 4829.9 | 4833.8 | 4844.0 | 4857.0 | 4854.2 |
| 7.5° | 4785.3 | 4791.8 | 4819.7 | 4853.3 | 4861.6 |
| 10° | 4729.5 | 4743.5 | 4776.9 | 4815.1 | 4832.7 |
| 12.5° | 4664.5 | 4683.0 | 4731.4 | 4786.2 | 4818.8 |
| 15° | 4602.2 | 4622.6 | 4674.7 | 4743.5 | 4775.1 |
| 17.5° | 4524.0 | 4550.9 | 4602.2 | 4676.5 | 4709.1 |
| 20° | 4445.9 | 4470.0 | 4519.3 | 4591.8 | 4628.2 |
| 22.5° | 4349.1 | 4366.7 | 4413.3 | 4474.7 | 4511.9 |
| 25° | 4220.8 | 4237.5 | 4279.4 | 4345.4 | 4374.3 |
| 27.5° | 4077.5 | 4097.0 | 4135.3 | 4180.8 | 4206.8 |
| 30° | 3908.3 | 3924.1 | 3951.1 | 3992.0 | 4011.5 |
| 32.5° | 3717.6 | 3718.5 | 3745.5 | 3776.2 | 3793.9 |
| 35° | 3496.2 | 3490.7 | 3512.1 | 3528.8 | 3525.1 |
| 37.5° | 3251.6 | 3252.6 | 3250.7 | 3252.6 | 3256.3 |
| 40° | 2978.2 | 2965.2 | 2975.4 | 2952.2 | 2935.3 |
| 42.5° | 2687.9 | 2674.9 | 2634.9 | 2583.8 | 2555.9 |
| 45° | 2311.3 | 2301.1 | 2241.6 | 2172.7 | 2144.8 |
| 47.5° | 1897.4 | 1865.8 | 1817.4 | 1758.8 | 1731.8 |
| 50° | 1459.3 | 1455.6 | 1426.8 | 1412.8 | 1388.6 |
| 52.5° | 1043.5 | 1043.5 | 1079.0 | 1073.4 | 1072.3 |
| 55° | 696.6 | 723.6 | 770.1 | 800.8 | 815.6 |
| 57.5° | 453.9 | 479.0 | 518.0 | 550.6 | 565.5 |
| 60° | 293.9 | 306.0 | 333.9 | 359.1 | 376.7 |
| 62.5° | 182.3 | 192.5 | 207.4 | 223.2 | 229.7 |
| 65° | 108.8 | 108.8 | 109.7 | 118.2 | 114.5 |
| 67.5° | 73.4 | 76.2 | 72.5 | 72.5 | 81.8 |
| 70° | 47.4 | 44.6 | 43.7 | 42.8 | 42.8 |
| 72.5° | 30.7 | 26.0 | 27.9 | 29.8 | 26.0 |
| 75° | 31.6 | 28.8 | 28.8 | 22.3 | 20.5 |
| 77.5° | 11.2 | 12.1 | 8.4 | 6.5 | 5.6 |
| 80° | 0.9 | 3.7 | 3.7 | 0.9 | 0.0 |
| 82.5° | 11.2 | 10.2 | 8.4 | 13.0 | 8.4 |
| 85° | 0.9 | 1.9 | 0.9 | 0.0 | 4.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)