

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: P247554

Luminaire Tested: **LD8B80D010 ER8B80935 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247554
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: LD8B80D010 ER8B80935 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7128.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

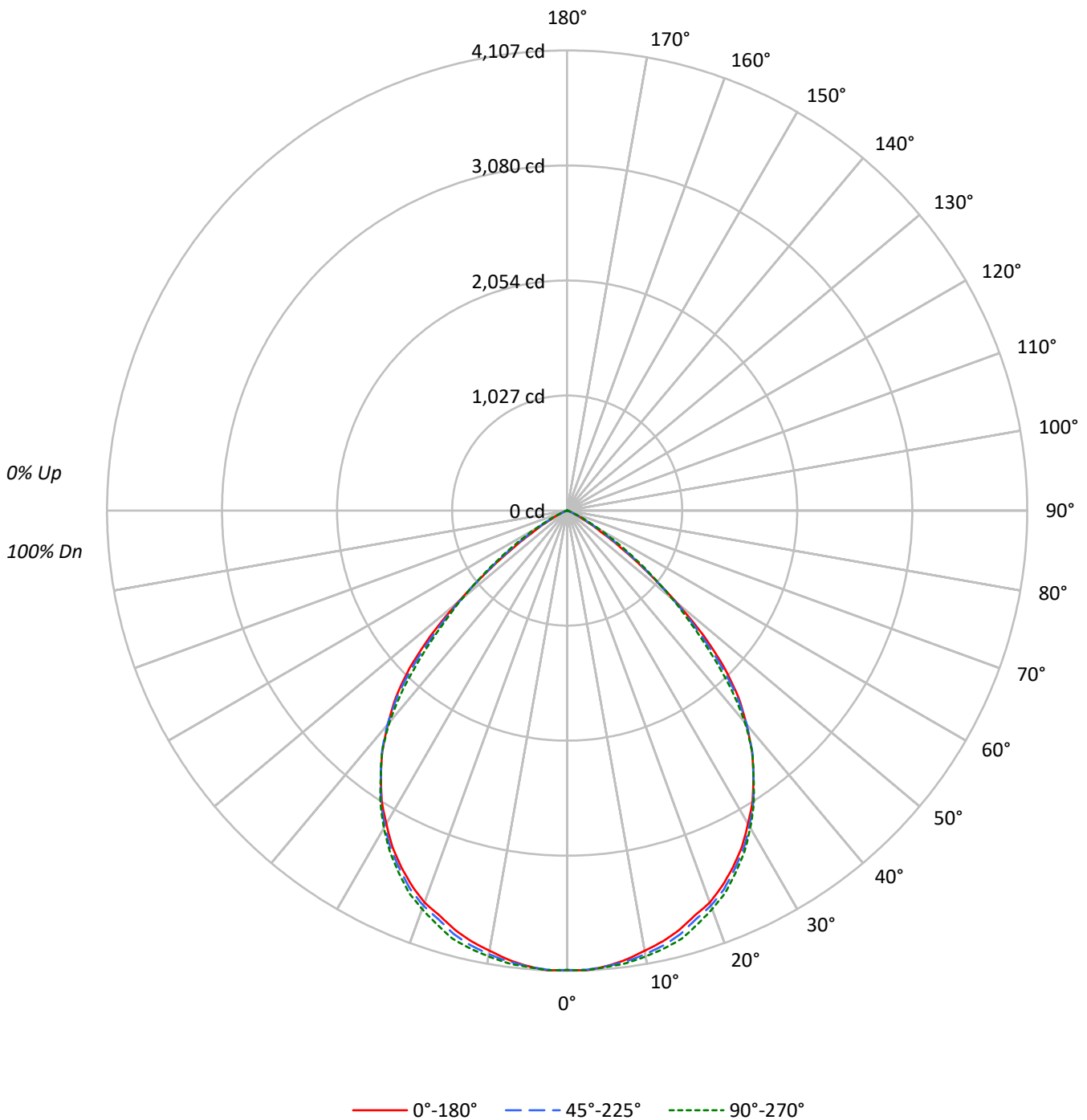
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 126447 | 126447 | 126447 |
| 5° | 126296 | 126348 | 126534 |
| 10° | 124926 | 125887 | 126529 |
| 15° | 123639 | 124919 | 126279 |
| 20° | 122135 | 123117 | 124180 |
| 25° | 119323 | 120194 | 121180 |
| 30° | 114942 | 115822 | 116430 |
| 35° | 109063 | 109157 | 109191 |
| 40° | 100212 | 100385 | 99355 |
| 45° | 86695 | 83647 | 79927 |
| 50° | 60801 | 59573 | 58795 |
| 55° | 33015 | 35762 | 38101 |
| 60° | 14567 | 17780 | 20142 |
| 65° | 5604 | 7034 | 8398 |
| 70° | 2849 | 2533 | 3309 |
| 75° | 917 | 1728 | 1525 |
| 80° | 764 | 160 | 906 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 387.9 | 5.4 |
| 10°-20° | 1101.6 | 15.5 |
| 20°-30° | 1624.5 | 22.8 |
| 30°-40° | 1808.2 | 25.4 |
| 40°-50° | 1455.2 | 20.4 |
| 50°-60° | 618.8 | 8.7 |
| 60°-70° | 116.0 | 1.6 |
| 70°-80° | 14.1 | 0.2 |
| 80°-90° | 1.8 | 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° | 3114.0 | 43.7 |
| 0°-40° | 4922.2 | 69.1 |
| 0°-60° | 6996.2 | 98.2 |
| 0°-90° | 7128.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7128.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4101 | 4101 | 4101 | 4101 | 4101 | |
| 5° | 4080 | 4081 | 4082 | 4089 | 4088 | 387 |
| 15° | 3873 | 3894 | 3913 | 3943 | 3956 | 1091 |
| 25° | 3507 | 3520 | 3533 | 3553 | 3562 | 1612 |
| 35° | 2897 | 2898 | 2900 | 2901 | 2901 | 1804 |
| 45° | 1988 | 1972 | 1918 | 1860 | 1833 | 1495 |
| 55° | 614 | 628 | 665 | 692 | 709 | 585 |
| 65° | 77 | 85 | 96 | 103 | 115 | 99 |
| 75° | 8 | 9 | 14 | 14 | 13 | 12 |
| 85° | 0 | 0 | 0 | 0 | 0 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4100.6 | 4100.6 | 4100.6 | 4100.6 | 4100.6 |
| 2.5° | 4107.4 | 4110.0 | 4101.4 | 4103.1 | 4105.7 |
| 5° | 4080.1 | 4081.0 | 4081.8 | 4088.6 | 4087.8 |
| 7.5° | 4041.7 | 4047.7 | 4057.9 | 4070.7 | 4074.1 |
| 10° | 3989.7 | 4005.1 | 4020.4 | 4035.8 | 4040.9 |
| 12.5° | 3938.5 | 3947.9 | 3975.2 | 3990.6 | 4003.4 |
| 15° | 3872.9 | 3894.2 | 3913.0 | 3942.8 | 3955.6 |
| 17.5° | 3789.3 | 3804.6 | 3822.6 | 3852.4 | 3870.3 |
| 20° | 3721.9 | 3726.2 | 3751.8 | 3778.2 | 3784.2 |
| 22.5° | 3622.1 | 3631.5 | 3657.9 | 3675.9 | 3691.2 |
| 25° | 3507.0 | 3519.8 | 3532.6 | 3553.0 | 3561.6 |
| 27.5° | 3380.8 | 3388.4 | 3406.4 | 3420.9 | 3428.5 |
| 30° | 3228.1 | 3245.2 | 3252.8 | 3259.7 | 3269.9 |
| 32.5° | 3079.7 | 3084.8 | 3091.6 | 3095.9 | 3101.0 |
| 35° | 2897.2 | 2898.0 | 2899.7 | 2900.6 | 2900.6 |
| 37.5° | 2710.4 | 2716.4 | 2714.7 | 2709.6 | 2712.1 |
| 40° | 2489.5 | 2499.8 | 2493.8 | 2478.4 | 2468.2 |
| 42.5° | 2266.9 | 2261.8 | 2241.3 | 2195.3 | 2174.0 |
| 45° | 1988.0 | 1971.8 | 1918.1 | 1860.1 | 1832.8 |
| 47.5° | 1653.7 | 1617.9 | 1572.7 | 1527.5 | 1509.6 |
| 50° | 1267.4 | 1262.2 | 1241.8 | 1223.9 | 1225.6 |
| 52.5° | 908.3 | 921.1 | 925.4 | 942.4 | 950.9 |
| 55° | 614.1 | 627.7 | 665.2 | 691.7 | 708.7 |
| 57.5° | 373.6 | 400.0 | 440.1 | 483.6 | 505.8 |
| 60° | 236.2 | 251.6 | 288.3 | 316.4 | 326.6 |
| 62.5° | 147.5 | 148.4 | 166.3 | 188.5 | 197.9 |
| 65° | 76.8 | 85.3 | 96.4 | 103.2 | 115.1 |
| 67.5° | 47.8 | 47.8 | 46.9 | 57.1 | 64.0 |
| 70° | 31.6 | 27.3 | 28.1 | 34.1 | 36.7 |
| 72.5° | 11.1 | 18.8 | 17.1 | 17.1 | 11.9 |
| 75° | 7.7 | 9.4 | 14.5 | 13.6 | 12.8 |
| 77.5° | 10.2 | 9.4 | 6.8 | 6.0 | 11.9 |
| 80° | 4.3 | 3.4 | 0.9 | 5.1 | 5.1 |
| 82.5° | 4.3 | 1.7 | 5.1 | 6.8 | 4.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)