

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: P250561

Luminaire Tested: **LD8B80D010 ER8B80840 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80840 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5301.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

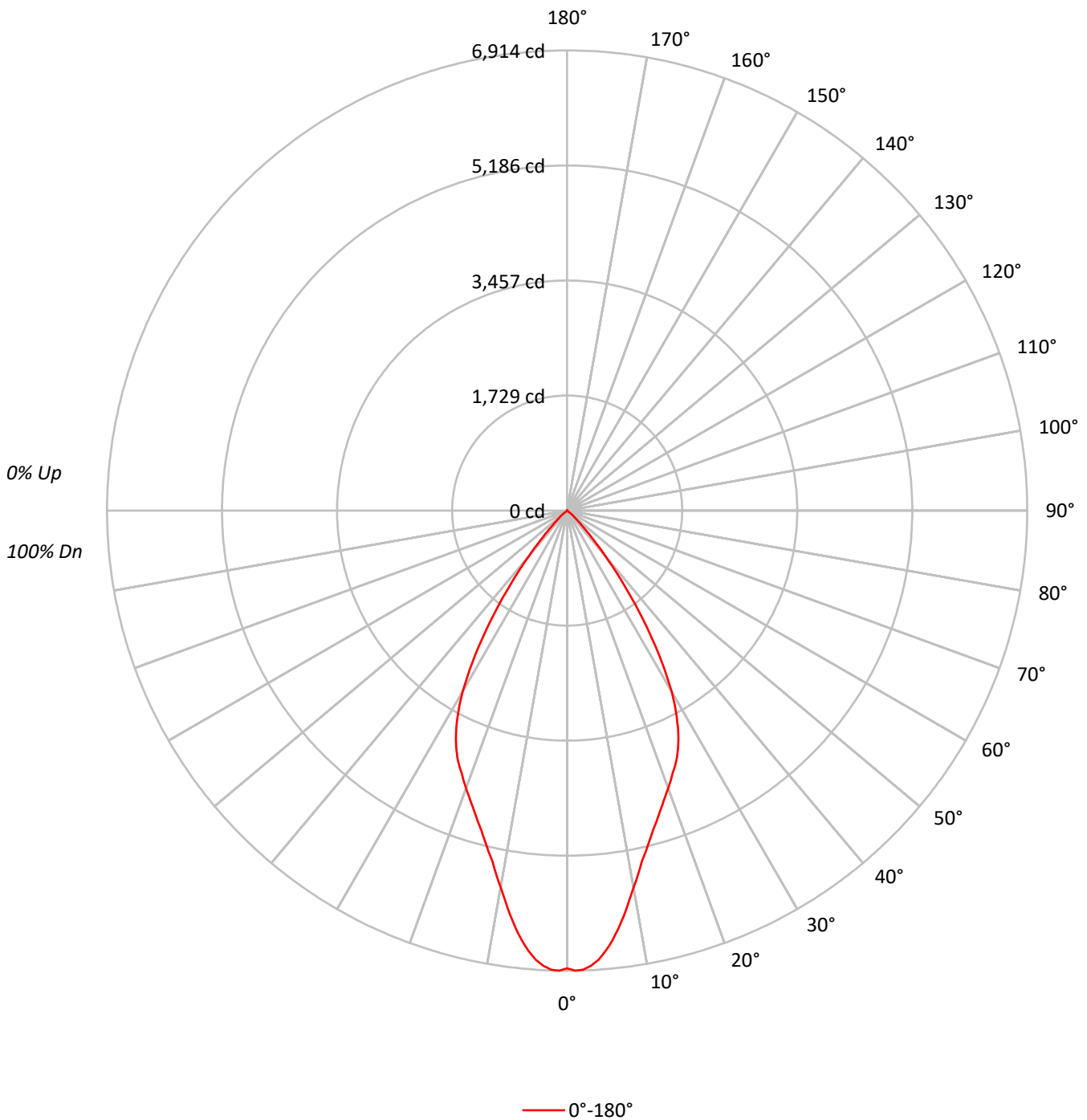
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | | 101 | 100 | 98 | | 98 | 97 | 96 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | | 95 | 93 | 91 | | 93 | 91 | 89 | 87 |
| 3 | 103 | 96 | 92 | 88 | 101 | 95 | 91 | 87 | 92 | 89 | 86 | | 90 | 87 | 84 | | 88 | 85 | 83 | 81 |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | | 85 | 81 | 78 | | 83 | 80 | 77 | 76 |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | | 80 | 76 | 73 | | 79 | 75 | 72 | 71 |
| 6 | 88 | 79 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | | 76 | 71 | 68 | | 74 | 71 | 68 | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 68 | 64 | 73 | 68 | 64 | | 72 | 67 | 64 | | 70 | 66 | 63 | 62 |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | | 68 | 63 | 60 | | 67 | 63 | 60 | 58 |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | | 64 | 60 | 56 | | 63 | 59 | 56 | 55 |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | | 61 | 56 | 53 | | 60 | 56 | 53 | 51 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 212098 |
| 5° | 205613 |
| 10° | 180075 |
| 15° | 158982 |
| 20° | 145680 |
| 25° | 134140 |
| 30° | 111648 |
| 35° | 74155 |
| 40° | 36092 |
| 45° | 13070 |
| 50° | 3934 |
| 55° | 274 |
| 60° | 0 |
| 65° | 190 |
| 70° | 0 |
| 75° | 0 |
| 80° | 462 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 604.1 | 11.4 |
| 10°-20° | 1403.0 | 26.5 |
| 20°-30° | 1780.0 | 33.6 |
| 30°-40° | 1219.4 | 23.0 |
| 40°-50° | 277.9 | 5.2 |
| 50°-60° | 13.9 | 0.3 |
| 60°-70° | 0.6 | 0.0 |
| 70°-80° | 1.0 | 0.0 |
| 80°-90° | 1.1 | 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° | 3787.1 | 71.4 |
| 0°-40° | 5006.5 | 94.4 |
| 0°-60° | 5298.3 | 99.9 |
| 0°-90° | 5301.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5301.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6878 | |
| 5° | 6642 | 604 |
| 15° | 4980 | 1403 |
| 25° | 3942 | 1780 |
| 35° | 1970 | 1219 |
| 45° | 300 | 278 |
| 55° | 5 | 14 |
| 65° | 3 | 1 |
| 75° | 0 | 1 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6878.2 |
| 1° | 6914.1 |
| 2° | 6901.2 |
| 3° | 6850.0 |
| 4° | 6762.9 |
| 5° | 6642.5 |
| 6° | 6496.5 |
| 7° | 6327.5 |
| 8° | 6140.4 |
| 9° | 5940.6 |
| 10° | 5751.0 |
| 11° | 5576.8 |
| 12° | 5389.9 |
| 13° | 5254.1 |
| 14° | 5110.6 |
| 15° | 4980.0 |
| 16° | 4862.2 |
| 17° | 4746.8 |
| 18° | 4639.3 |
| 19° | 4534.2 |
| 20° | 4439.4 |
| 21° | 4342.1 |
| 22° | 4242.2 |
| 23° | 4155.1 |
| 24° | 4057.8 |
| 25° | 3942.5 |
| 26° | 3814.4 |
| 27° | 3665.8 |
| 28° | 3507.0 |
| 29° | 3330.2 |
| 30° | 3135.6 |
| 31° | 2915.2 |
| 32° | 2687.3 |
| 33° | 2449.0 |
| 34° | 2205.6 |
| 35° | 1969.9 |
| 37.5° | 1391.0 |
| 40° | 896.6 |
| 42.5° | 527.7 |
| 45° | 299.7 |
| 47.5° | 161.4 |
| 50° | 82.0 |
| 52.5° | 15.4 |
| 55° | 5.1 |
| 57.5° | 2.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 60° | 0.0 |
| 62.5° | 0.0 |
| 65° | 2.6 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 2.6 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 2.6 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 2.6 |
| 90° | 0.0 |

(END OF REPORT)