

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: P250547

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250547
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: LSR8B80D010 EC8B80830 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131.0 lumens
Efficiency: N/A
Efficacy: 69.0 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

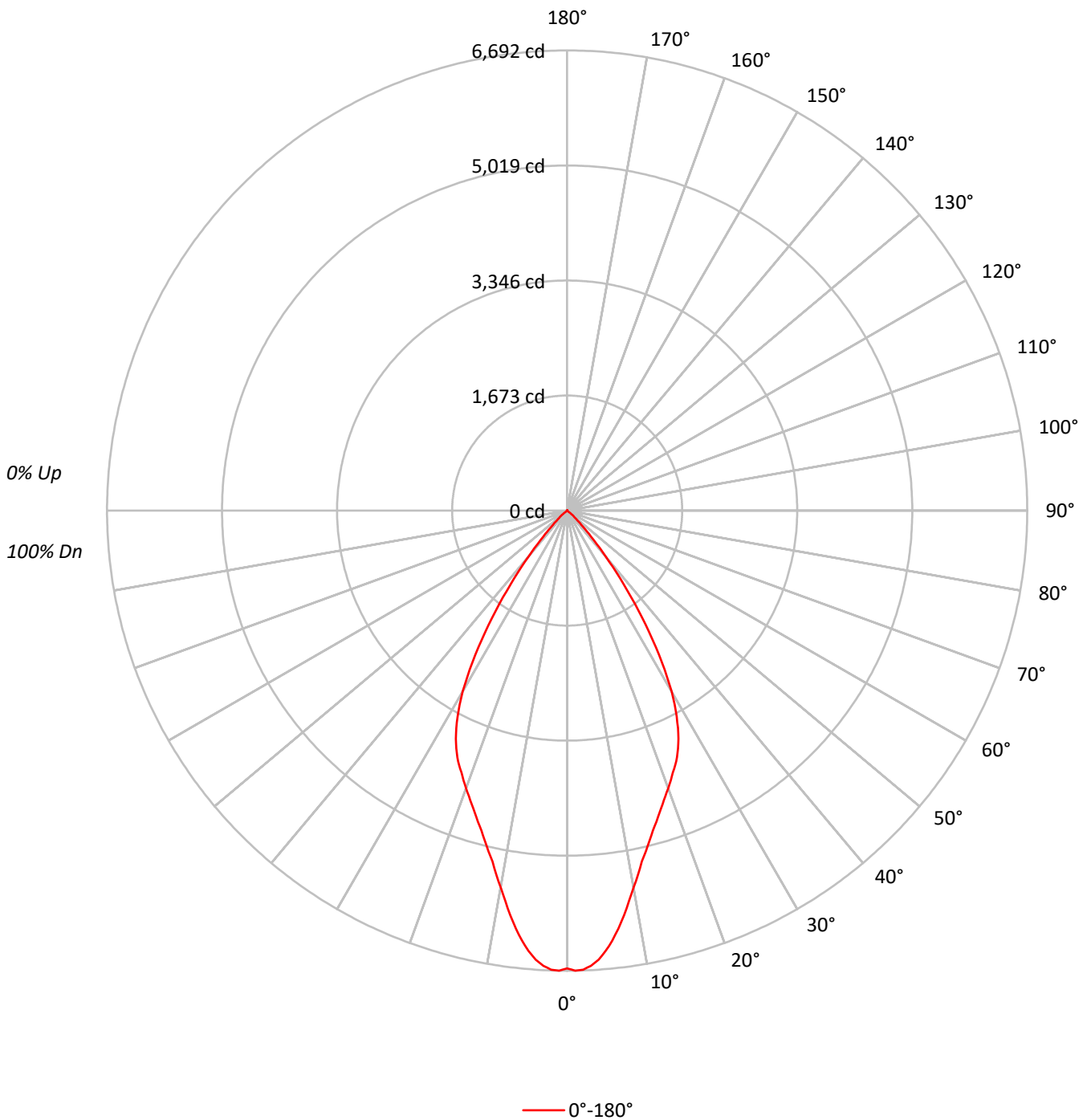
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 205296 |
| 5° | 199019 |
| 10° | 174301 |
| 15° | 153884 |
| 20° | 141011 |
| 25° | 129839 |
| 30° | 108066 |
| 35° | 71780 |
| 40° | 34932 |
| 45° | 12651 |
| 50° | 3809 |
| 55° | 269 |
| 60° | 0 |
| 65° | 182 |
| 70° | 0 |
| 75° | 0 |
| 80° | 444 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 584.8 | 11.4 |
| 10°-20° | 1358.0 | 26.5 |
| 20°-30° | 1722.9 | 33.6 |
| 30°-40° | 1180.3 | 23.0 |
| 40°-50° | 269.0 | 5.2 |
| 50°-60° | 13.4 | 0.3 |
| 60°-70° | 0.6 | 0.0 |
| 70°-80° | 1.0 | 0.0 |
| 80°-90° | 1.0 | 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° | 3665.7 | 71.4 |
| 0°-40° | 4846.0 | 94.4 |
| 0°-60° | 5128.4 | 99.9 |
| 0°-90° | 5131.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5131.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6658 | |
| 5° | 6430 | 585 |
| 15° | 4820 | 1358 |
| 25° | 3816 | 1723 |
| 35° | 1907 | 1180 |
| 45° | 290 | 269 |
| 55° | 5 | 13 |
| 65° | 2 | 1 |
| 75° | 0 | 1 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6657.6 |
| 1° | 6692.4 |
| 2° | 6679.9 |
| 3° | 6630.3 |
| 4° | 6546.0 |
| 5° | 6429.5 |
| 6° | 6288.2 |
| 7° | 6124.5 |
| 8° | 5943.5 |
| 9° | 5750.1 |
| 10° | 5566.6 |
| 11° | 5398.0 |
| 12° | 5217.0 |
| 13° | 5085.6 |
| 14° | 4946.7 |
| 15° | 4820.3 |
| 16° | 4706.2 |
| 17° | 4594.6 |
| 18° | 4490.5 |
| 19° | 4388.8 |
| 20° | 4297.1 |
| 21° | 4202.8 |
| 22° | 4106.1 |
| 23° | 4021.9 |
| 24° | 3927.6 |
| 25° | 3816.1 |
| 26° | 3692.1 |
| 27° | 3548.3 |
| 28° | 3394.5 |
| 29° | 3223.4 |
| 30° | 3035.0 |
| 31° | 2821.7 |
| 32° | 2601.1 |
| 33° | 2370.5 |
| 34° | 2134.9 |
| 35° | 1906.8 |
| 37.5° | 1346.4 |
| 40° | 867.8 |
| 42.5° | 510.8 |
| 45° | 290.1 |
| 47.5° | 156.2 |
| 50° | 79.4 |
| 52.5° | 14.9 |
| 55° | 5.0 |
| 57.5° | 2.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 60° | 0.0 |
| 62.5° | 0.0 |
| 65° | 2.5 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 2.5 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 2.5 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 2.5 |
| 90° | 0.0 |

(END OF REPORT)