

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: P251379

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201569)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70840 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4681.0 lumens
Efficiency: N/A
Efficacy: 61.7 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

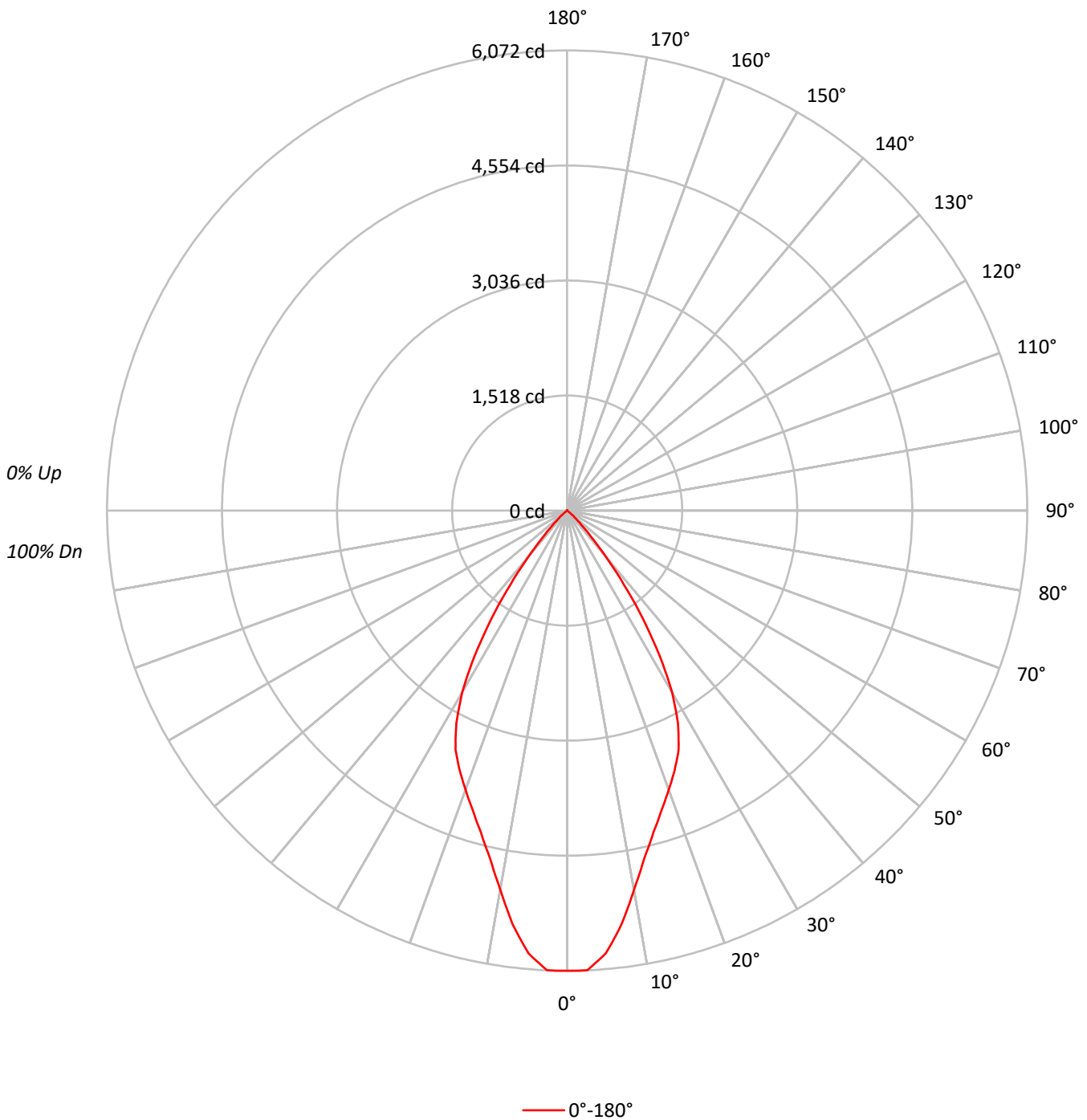
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 93 | 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 | 52 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 187254 |
| 5° | 181524 |
| 10° | 158980 |
| 15° | 140377 |
| 20° | 128607 |
| 25° | 118455 |
| 30° | 98599 |
| 35° | 65486 |
| 40° | 31857 |
| 45° | 11504 |
| 50° | 3488 |
| 55° | 237 |
| 60° | 0 |
| 65° | 153 |
| 70° | 0 |
| 75° | 0 |
| 80° | 373 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 533.7 | 11.4 |
| 10°-20° | 1240.7 | 26.5 |
| 20°-30° | 1570.2 | 33.5 |
| 30°-40° | 1077.2 | 23.0 |
| 40°-50° | 245.0 | 5.2 |
| 50°-60° | 12.0 | 0.3 |
| 60°-70° | 0.5 | 0.0 |
| 70°-80° | 0.8 | 0.0 |
| 80°-90° | 0.9 | 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° | 3344.5 | 71.4 |
| 0°-40° | 4421.7 | 94.5 |
| 0°-60° | 4678.8 | 100.0 |
| 0°-90° | 4681.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4681.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 6072 | |
| 5° | 5864 | 534 |
| 15° | 4397 | 1241 |
| 25° | 3482 | 1570 |
| 35° | 1740 | 1077 |
| 45° | 264 | 245 |
| 55° | 4 | 12 |
| 65° | 2 | 1 |
| 75° | 0 | 1 |
| 85° | 0 | 1 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 6072.5 |
| 2.5° | 6072.5 |
| 5° | 5864.3 |
| 7.5° | 5506.5 |
| 10° | 5077.3 |
| 12.5° | 4699.8 |
| 15° | 4397.2 |
| 17.5° | 4144.1 |
| 20° | 3919.1 |
| 22.5° | 3706.5 |
| 25° | 3481.5 |
| 27.5° | 3168.1 |
| 30° | 2769.1 |
| 32.5° | 2267.5 |
| 35° | 1739.6 |
| 37.5° | 1229.0 |
| 40° | 791.4 |
| 42.5° | 465.7 |
| 45° | 263.8 |
| 47.5° | 141.5 |
| 50° | 72.7 |
| 52.5° | 12.9 |
| 55° | 4.4 |
| 57.5° | 2.1 |
| 60° | 0.0 |
| 62.5° | 0.0 |
| 65° | 2.1 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 2.1 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 2.1 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 2.1 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)