

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: P251358

Luminaire Tested: **LSR8B60D010 EC8B60850 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60850 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3633.0 lumens
Efficiency: 192.5%
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

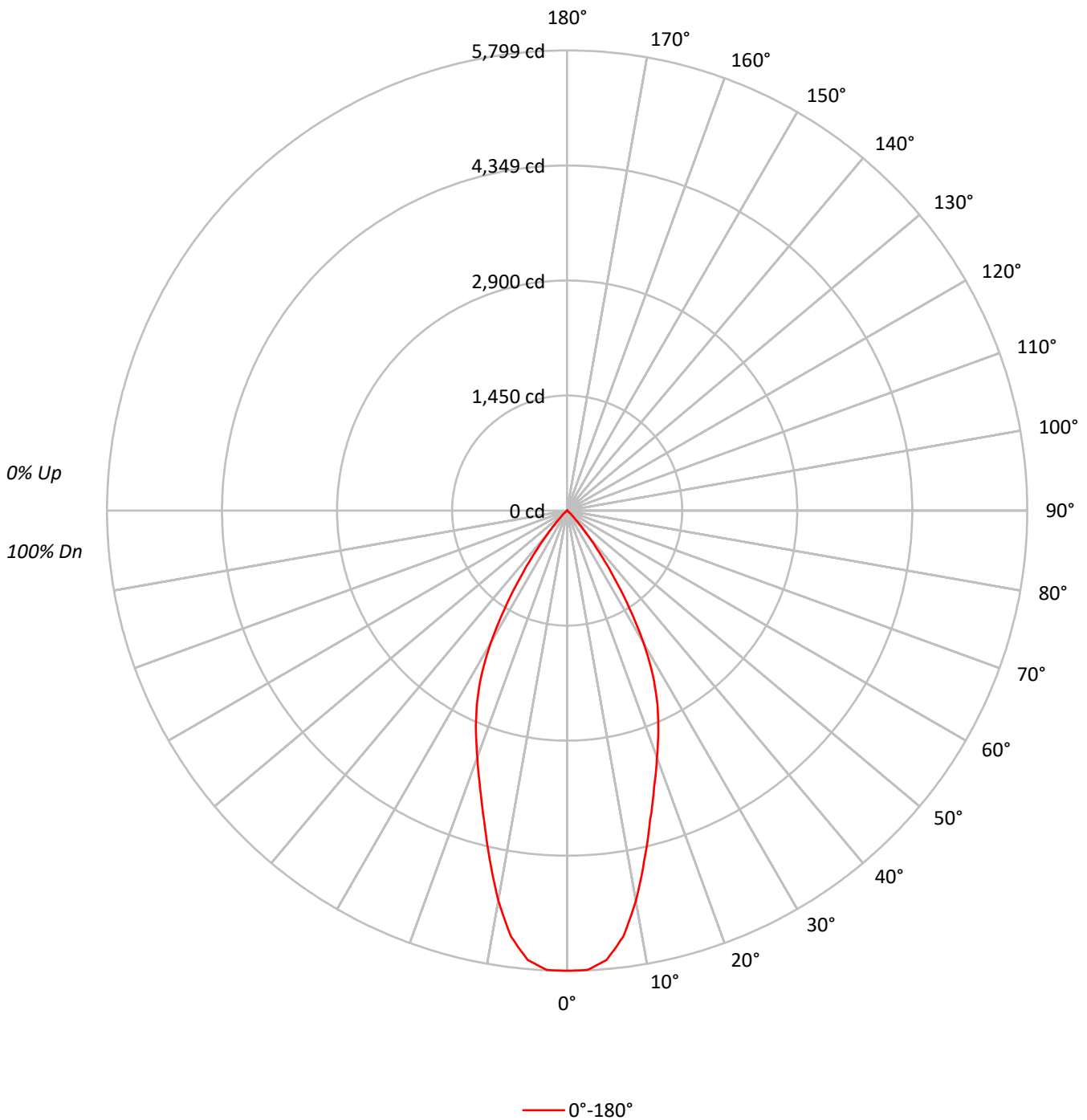
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 229 | 229 | 229 | 229 | 224 | 224 | 224 | 224 | 214 | 214 | 214 | 205 | 205 | 205 | 196 | 196 | 196 | 193 | | | |
| 1 | 219 | 214 | 210 | 206 | 215 | 210 | 206 | 203 | 202 | 199 | 196 | 195 | 193 | 191 | 189 | 187 | 185 | 182 | | | |
| 2 | 210 | 201 | 194 | 188 | 205 | 198 | 191 | 185 | 191 | 186 | 181 | 186 | 181 | 178 | 181 | 177 | 174 | 171 | | | |
| 3 | 200 | 189 | 180 | 173 | 196 | 186 | 178 | 171 | 181 | 174 | 169 | 176 | 171 | 166 | 172 | 167 | 163 | 161 | | | |
| 4 | 191 | 177 | 168 | 160 | 188 | 175 | 166 | 159 | 171 | 164 | 157 | 168 | 161 | 156 | 164 | 158 | 154 | 151 | | | |
| 5 | 182 | 167 | 157 | 149 | 179 | 166 | 156 | 149 | 162 | 154 | 147 | 159 | 152 | 146 | 156 | 150 | 145 | 142 | | | |
| 6 | 174 | 158 | 148 | 140 | 171 | 157 | 147 | 139 | 154 | 145 | 138 | 151 | 143 | 138 | 149 | 142 | 137 | 134 | | | |
| 7 | 166 | 150 | 139 | 131 | 164 | 148 | 138 | 131 | 146 | 137 | 130 | 144 | 136 | 130 | 142 | 135 | 129 | 127 | | | |
| 8 | 159 | 142 | 131 | 124 | 157 | 141 | 131 | 124 | 139 | 130 | 123 | 137 | 129 | 123 | 135 | 128 | 122 | 120 | | | |
| 9 | 152 | 135 | 124 | 117 | 150 | 134 | 124 | 117 | 132 | 123 | 117 | 131 | 122 | 116 | 129 | 121 | 116 | 113 | | | |
| 10 | 146 | 128 | 118 | 111 | 144 | 127 | 118 | 111 | 126 | 117 | 111 | 125 | 116 | 110 | 123 | 116 | 110 | 108 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 178814 |
| 5° | 175990 |
| 10° | 156341 |
| 15° | 129002 |
| 20° | 108622 |
| 25° | 91620 |
| 30° | 68625 |
| 35° | 38811 |
| 40° | 15329 |
| 45° | 4099 |
| 50° | 825 |
| 55° | 0 |
| 60° | 117 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | 0° | Flux | |
|-----------|--------|-----------|--------|------|------|------|
| 0°-10° | 520.2 | 14.3 | 27.6 | 0° | 5799 | |
| 10°-20° | 1133.9 | 31.2 | 60.1 | 5° | 5686 | 520 |
| 20°-30° | 1214.7 | 33.4 | 64.4 | 15° | 4041 | 1134 |
| 30°-40° | 658.3 | 18.1 | 34.9 | 25° | 2693 | 1215 |
| 40°-50° | 102.2 | 2.8 | 5.4 | 35° | 1031 | 658 |
| 50°-60° | 2.9 | 0.1 | 0.2 | 45° | 94 | 102 |
| 60°-70° | 0.7 | 0.0 | 0.0 | 55° | 0 | 3 |
| 70°-80° | 0.0 | 0.0 | 0.0 | 65° | 0 | 1 |
| 80°-90° | 0.0 | 0.0 | 0.0 | 75° | 0 | 0 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 0 | 0 |
| 100°-110° | 0.0 | 0.0 | 0.0 | 90° | 0 | 0 |
| 110°-120° | 0.0 | 0.0 | 0.0 | 95° | 0 | 0 |
| 120°-130° | 0.0 | 0.0 | 0.0 | 105° | 0 | 0 |
| 130°-140° | 0.0 | 0.0 | 0.0 | 115° | 0 | 0 |
| 140°-150° | 0.0 | 0.0 | 0.0 | 125° | 0 | 0 |
| 150°-160° | 0.0 | 0.0 | 0.0 | 135° | 0 | 0 |
| 160°-170° | 0.0 | 0.0 | 0.0 | 145° | 0 | 0 |
| 170°-180° | 0.0 | 0.0 | 0.0 | 155° | 0 | 0 |
| 0°-30° | 2868.9 | 79.0 | 152.0 | 165° | 0 | 0 |
| 0°-40° | 3527.2 | 97.1 | 186.9 | 175° | 0 | 0 |
| 0°-60° | 3632.3 | 100.0 | 192.5 | 180° | 0 | 0 |
| 0°-90° | 3633.0 | 100.0 | 192.5 | | | |
| 90°-120° | 0.0 | 0.0 | 0.0 | | | |
| 90°-150° | 0.0 | 0.0 | 0.0 | | | |
| 90°-180° | 0.0 | 0.0 | 0.0 | | | |
| 0°-180° | 3633.0 | 100.0 | 192.5 | | | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 5798.8 |
| 2.5° | 5795.1 |
| 5° | 5685.5 |
| 7.5° | 5414.3 |
| 10° | 4993.0 |
| 12.5° | 4502.5 |
| 15° | 4040.9 |
| 17.5° | 3650.5 |
| 20° | 3310.1 |
| 22.5° | 3004.3 |
| 25° | 2692.8 |
| 27.5° | 2340.8 |
| 30° | 1927.3 |
| 32.5° | 1469.5 |
| 35° | 1031.0 |
| 37.5° | 659.9 |
| 40° | 380.8 |
| 42.5° | 203.8 |
| 45° | 94.0 |
| 47.5° | 50.0 |
| 50° | 17.2 |
| 52.5° | 1.9 |
| 55° | 0.0 |
| 57.5° | 1.9 |
| 60° | 1.9 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 1.9 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 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)