

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: P247749

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBS0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-88)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBS0MW
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11639.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

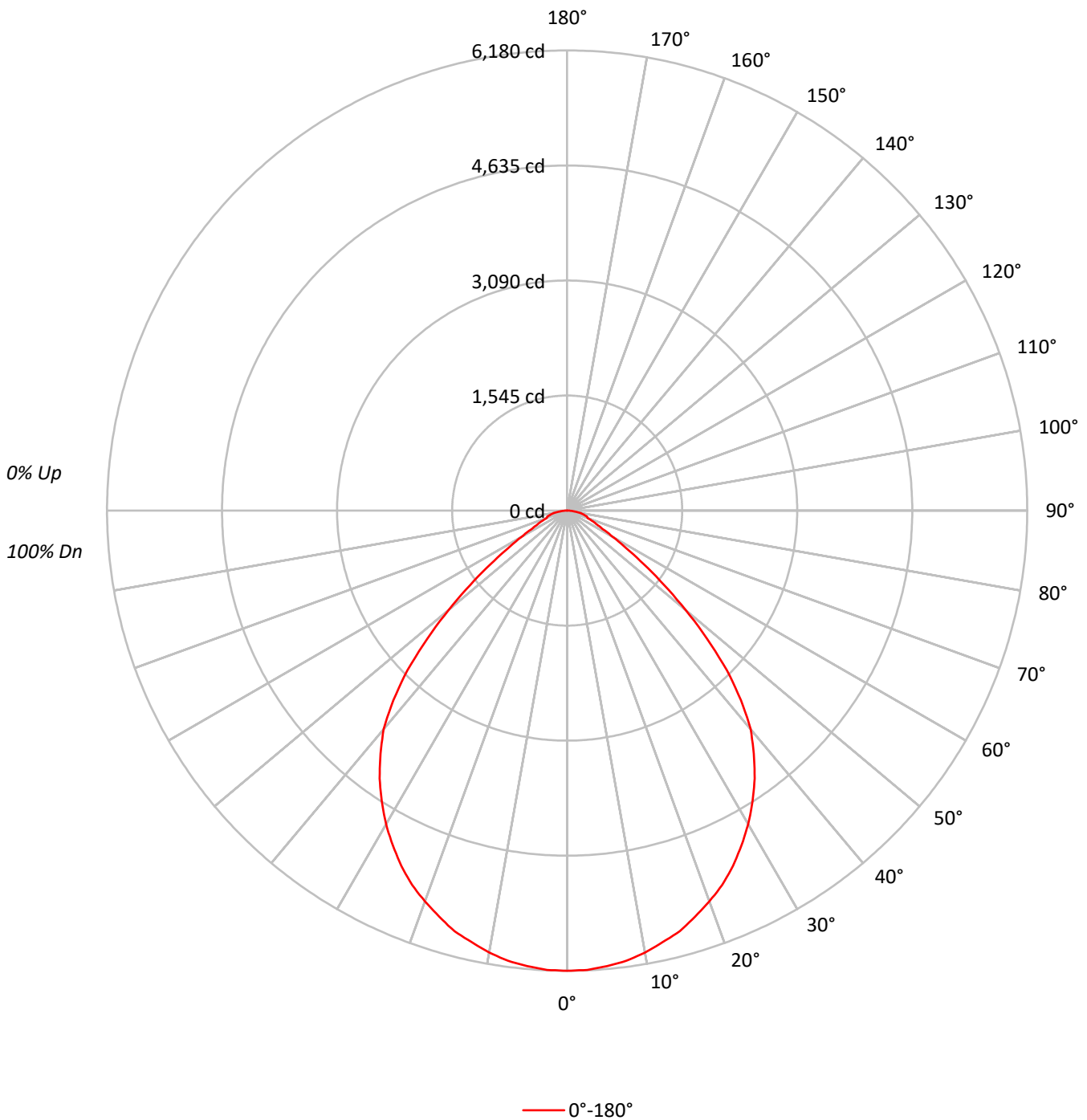
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | | | | | 100 | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | 88 | 85 | 82 | 86 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 62 | 58 | 67 | 61 | 57 | 65 | 60 | 57 | 55 | | | | | 55 | | | |
| 6 | 77 | 66 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 47 | 57 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 47 | 40 | 36 | 58 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | | | | | 33 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 190581 |
| 5° | 190105 |
| 10° | 188683 |
| 15° | 186718 |
| 20° | 183274 |
| 25° | 179212 |
| 30° | 173191 |
| 35° | 165318 |
| 40° | 154378 |
| 45° | 132240 |
| 50° | 99433 |
| 55° | 67401 |
| 60° | 43849 |
| 65° | 32170 |
| 70° | 26272 |
| 75° | 29786 |
| 80° | 31236 |
| 85° | 25333 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 582.8 | 5.0 |
| 10°-20° | 1645.3 | 14.1 |
| 20°-30° | 2420.6 | 20.8 |
| 30°-40° | 2734.1 | 23.5 |
| 40°-50° | 2302.6 | 19.8 |
| 50°-60° | 1161.7 | 10.0 |
| 60°-70° | 455.1 | 3.9 |
| 70°-80° | 257.0 | 2.2 |
| 80°-90° | 79.9 | 0.7 |
| 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° | 4648.7 | 39.9 |
| 0°-40° | 7382.8 | 63.4 |
| 0°-60° | 10847.0 | 93.2 |
| 0°-90° | 11639.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11639.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6180 | |
| 5° | 6142 | 583 |
| 15° | 5849 | 1645 |
| 25° | 5267 | 2421 |
| 35° | 4392 | 2734 |
| 45° | 3032 | 2303 |
| 55° | 1254 | 1162 |
| 65° | 441 | 455 |
| 75° | 250 | 257 |
| 85° | 72 | 80 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6180.4 |
| 2.5° | 6174.2 |
| 5° | 6141.5 |
| 7.5° | 6098.8 |
| 10° | 6025.9 |
| 12.5° | 5935.5 |
| 15° | 5848.8 |
| 17.5° | 5716.9 |
| 20° | 5585.0 |
| 22.5° | 5441.8 |
| 25° | 5267.2 |
| 27.5° | 5070.0 |
| 30° | 4864.0 |
| 32.5° | 4632.8 |
| 35° | 4391.6 |
| 37.5° | 4115.3 |
| 40° | 3835.1 |
| 42.5° | 3453.3 |
| 45° | 3032.4 |
| 47.5° | 2550.1 |
| 50° | 2072.7 |
| 52.5° | 1641.8 |
| 55° | 1253.7 |
| 57.5° | 944.7 |
| 60° | 711.0 |
| 62.5° | 542.7 |
| 65° | 440.9 |
| 67.5° | 359.3 |
| 70° | 291.4 |
| 72.5° | 281.4 |
| 75° | 250.0 |
| 77.5° | 208.5 |
| 80° | 175.9 |
| 82.5° | 111.8 |
| 85° | 71.6 |
| 87.5° | 22.6 |
| 90° | 0.0 |

(END OF REPORT)