

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: P245762

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20840 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2153.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

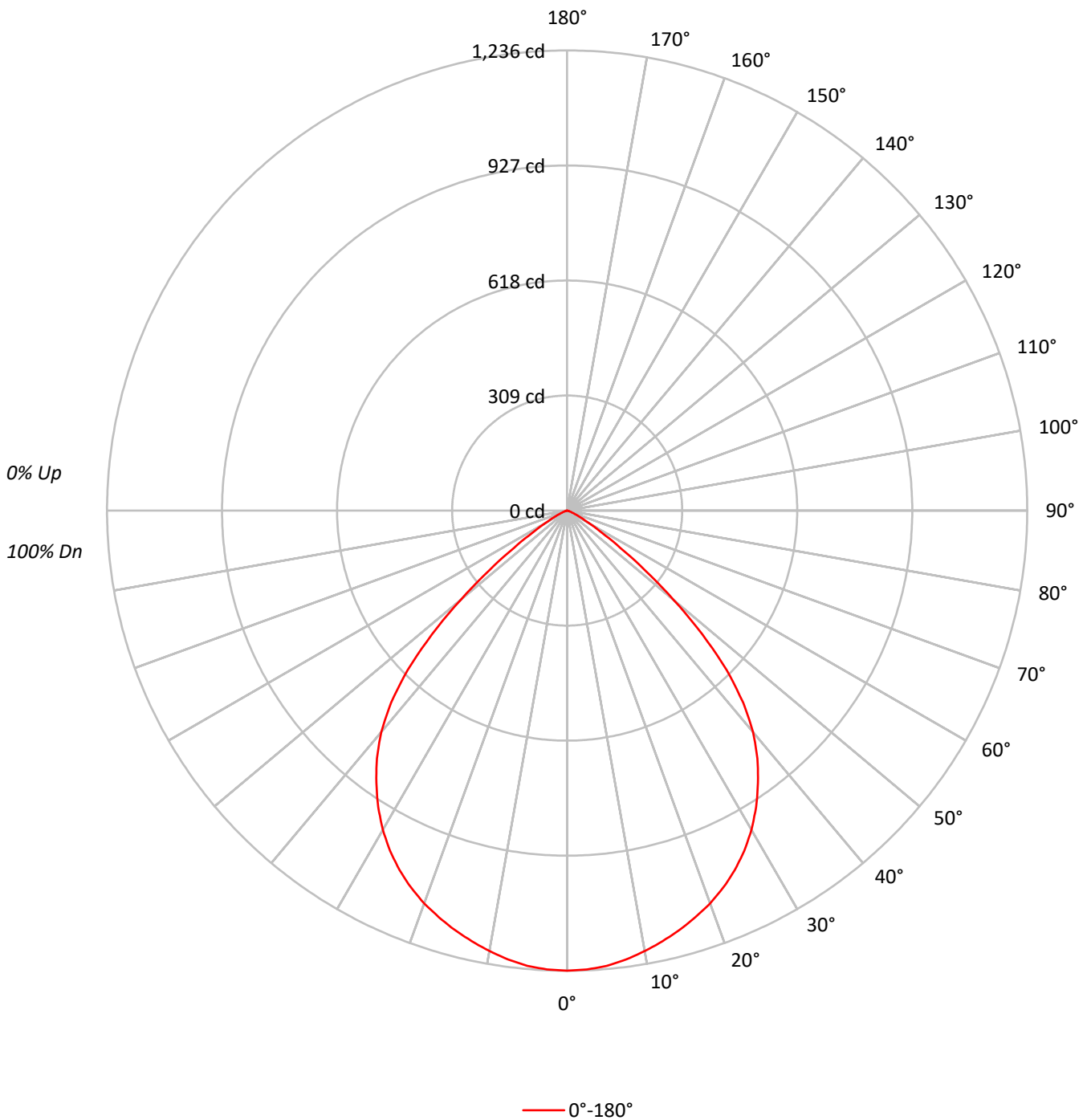
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 69 | 76 | 72 | 68 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 38108 |
| 5° | 37993 |
| 10° | 37618 |
| 15° | 37233 |
| 20° | 36842 |
| 25° | 36239 |
| 30° | 35247 |
| 35° | 33643 |
| 40° | 31277 |
| 45° | 26410 |
| 50° | 17932 |
| 55° | 9365 |
| 60° | 4200 |
| 65° | 2050 |
| 70° | 820 |
| 75° | 500 |
| 80° | 373 |
| 85° | 248 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.3 | 5.4 |
| 10°-20° | 329.0 | 15.3 |
| 20°-30° | 489.7 | 22.7 |
| 30°-40° | 556.7 | 25.9 |
| 40°-50° | 455.2 | 21.1 |
| 50°-60° | 169.7 | 7.9 |
| 60°-70° | 31.0 | 1.4 |
| 70°-80° | 4.8 | 0.2 |
| 80°-90° | 0.7 | 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° | 935.0 | 43.4 |
| 0°-40° | 1491.7 | 69.3 |
| 0°-60° | 2116.5 | 98.3 |
| 0°-90° | 2153.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2153.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1236 | |
| 5° | 1227 | 116 |
| 15° | 1166 | 329 |
| 25° | 1065 | 490 |
| 35° | 894 | 557 |
| 45° | 606 | 455 |
| 55° | 174 | 170 |
| 65° | 28 | 31 |
| 75° | 4 | 5 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1235.8 |
| 2.5° | 1233.7 |
| 5° | 1227.4 |
| 7.5° | 1216.1 |
| 10° | 1201.4 |
| 12.5° | 1184.5 |
| 15° | 1166.3 |
| 17.5° | 1145.2 |
| 20° | 1122.7 |
| 22.5° | 1096.0 |
| 25° | 1065.1 |
| 27.5° | 1030.0 |
| 30° | 989.9 |
| 32.5° | 944.3 |
| 35° | 893.7 |
| 37.5° | 839.6 |
| 40° | 777.0 |
| 42.5° | 699.8 |
| 45° | 605.6 |
| 47.5° | 492.5 |
| 50° | 373.8 |
| 52.5° | 263.5 |
| 55° | 174.2 |
| 57.5° | 109.6 |
| 60° | 68.1 |
| 62.5° | 43.6 |
| 65° | 28.1 |
| 67.5° | 16.2 |
| 70° | 9.1 |
| 72.5° | 5.6 |
| 75° | 4.2 |
| 77.5° | 2.8 |
| 80° | 2.1 |
| 82.5° | 0.7 |
| 85° | 0.7 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)