

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: P247225

Luminaire Tested: **LD8B120D010 ER8B120940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120940 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12016.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

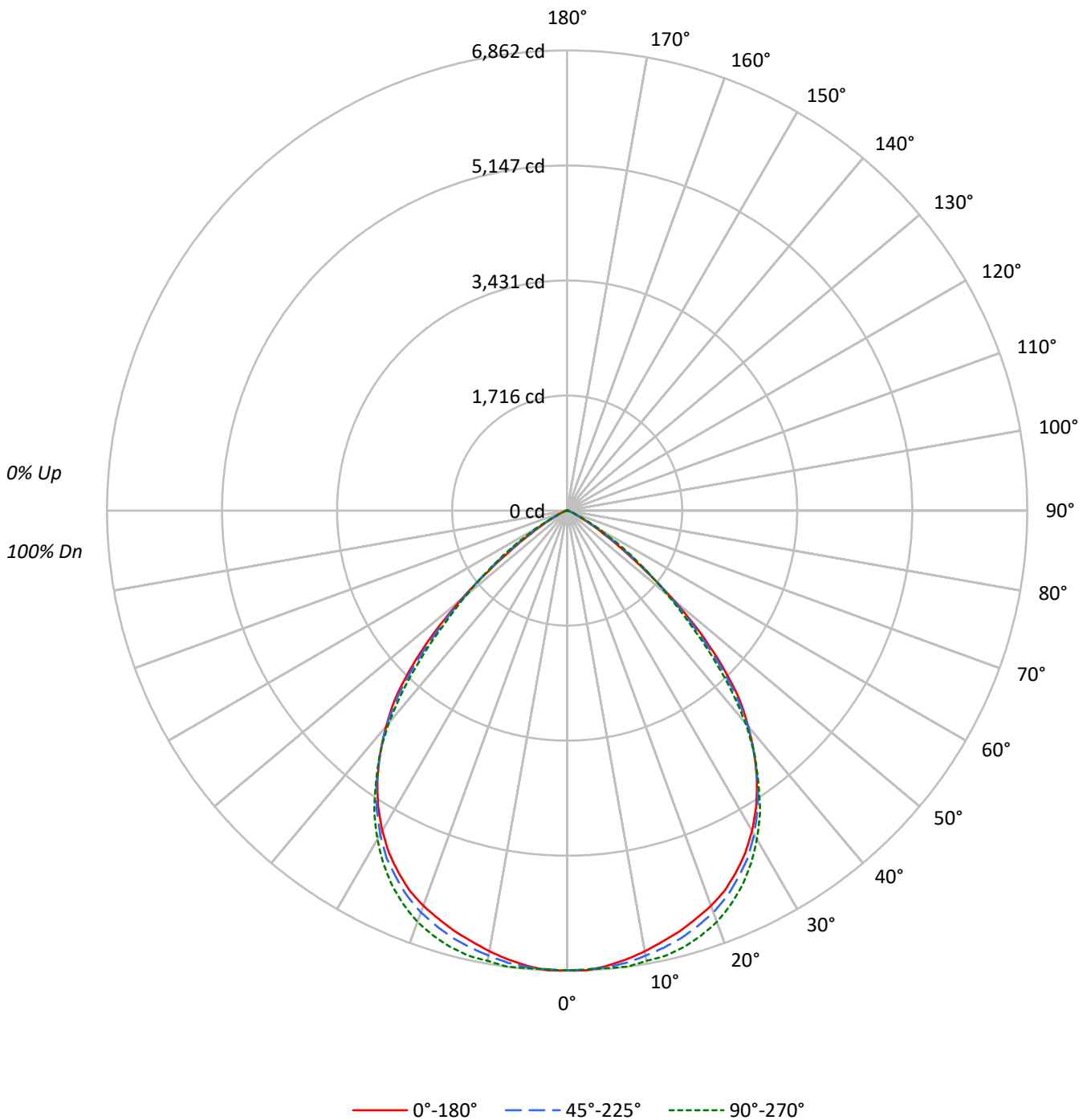
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | | | 81 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | | | | | 73 | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | | | | 65 | | | |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | 58 | | | |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 | | | | | 48 | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 51 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 50 | 45 | 41 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 211454 | 211454 | 211454 |
| 5° | 210921 | 211531 | 211977 |
| 10° | 208923 | 211018 | 213482 |
| 15° | 207267 | 210536 | 215060 |
| 20° | 205821 | 209221 | 214258 |
| 25° | 202597 | 205410 | 209963 |
| 30° | 196321 | 198472 | 201509 |
| 35° | 185676 | 186516 | 187205 |
| 40° | 169127 | 168970 | 166696 |
| 45° | 142196 | 137905 | 131953 |
| 50° | 98766 | 96560 | 93979 |
| 55° | 52837 | 58412 | 61869 |
| 60° | 25569 | 29054 | 32773 |
| 65° | 11200 | 11295 | 11777 |
| 70° | 6032 | 5563 | 5446 |
| 75° | 5314 | 4849 | 3443 |
| 80° | 231 | 923 | 0 |
| 85° | 460 | 460 | 2335 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 649.6 | 5.4 |
| 10°-20° | 1862.9 | 15.5 |
| 20°-30° | 2779.6 | 23.1 |
| 30°-40° | 3078.4 | 25.6 |
| 40°-50° | 2400.7 | 20.0 |
| 50°-60° | 1006.3 | 8.4 |
| 60°-70° | 201.6 | 1.7 |
| 70°-80° | 32.1 | 0.3 |
| 80°-90° | 5.0 | 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° | 5292.0 | 44.0 |
| 0°-40° | 8370.4 | 69.7 |
| 0°-60° | 11777.4 | 98.0 |
| 0°-90° | 12016.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12016.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6857 | 6857 | 6857 | 6857 | 6857 | |
| 5° | 6814 | 6819 | 6834 | 6852 | 6848 | 646 |
| 15° | 6492 | 6521 | 6595 | 6692 | 6737 | 1832 |
| 25° | 5954 | 5978 | 6037 | 6130 | 6171 | 2736 |
| 35° | 4932 | 4924 | 4955 | 4978 | 4973 | 3066 |
| 45° | 3261 | 3246 | 3162 | 3065 | 3026 | 2467 |
| 55° | 983 | 1021 | 1086 | 1130 | 1151 | 957 |
| 65° | 154 | 154 | 155 | 167 | 161 | 185 |
| 75° | 45 | 41 | 41 | 32 | 29 | 36 |
| 85° | 1 | 3 | 1 | 0 | 7 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247225

CATALOG NUMBER: LD8B120D010 ER8B120940 8LBS0H

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6857.3 | 6857.3 | 6857.3 | 6857.3 | 6857.3 |
| 2.5° | 6862.5 | 6849.4 | 6846.8 | 6854.7 | 6849.4 |
| 5° | 6814.0 | 6819.2 | 6833.7 | 6852.0 | 6848.1 |
| 7.5° | 6751.0 | 6760.2 | 6799.5 | 6846.8 | 6858.6 |
| 10° | 6672.3 | 6691.9 | 6739.2 | 6793.0 | 6817.9 |
| 12.5° | 6580.4 | 6606.7 | 6674.9 | 6752.3 | 6798.2 |
| 15° | 6492.5 | 6521.4 | 6594.9 | 6691.9 | 6736.6 |
| 17.5° | 6382.3 | 6420.3 | 6492.5 | 6597.5 | 6643.4 |
| 20° | 6272.1 | 6306.2 | 6375.7 | 6478.1 | 6529.2 |
| 22.5° | 6135.6 | 6160.5 | 6226.1 | 6312.7 | 6365.2 |
| 25° | 5954.5 | 5978.1 | 6037.2 | 6130.4 | 6171.0 |
| 27.5° | 5752.5 | 5780.0 | 5833.8 | 5898.1 | 5934.8 |
| 30° | 5513.6 | 5535.9 | 5574.0 | 5631.7 | 5659.3 |
| 32.5° | 5244.7 | 5246.0 | 5284.0 | 5327.3 | 5352.2 |
| 35° | 4932.4 | 4924.5 | 4954.7 | 4978.3 | 4973.0 |
| 37.5° | 4587.3 | 4588.6 | 4586.0 | 4588.6 | 4593.8 |
| 40° | 4201.5 | 4183.1 | 4197.6 | 4164.8 | 4141.1 |
| 42.5° | 3792.1 | 3773.7 | 3717.3 | 3645.1 | 3605.8 |
| 45° | 3260.7 | 3246.3 | 3162.3 | 3065.2 | 3025.8 |
| 47.5° | 2676.8 | 2632.2 | 2563.9 | 2481.3 | 2443.2 |
| 50° | 2058.8 | 2053.5 | 2012.8 | 1993.2 | 1959.0 |
| 52.5° | 1472.2 | 1472.2 | 1522.1 | 1514.2 | 1512.9 |
| 55° | 982.8 | 1020.9 | 1086.5 | 1129.8 | 1150.8 |
| 57.5° | 640.3 | 675.8 | 730.9 | 776.8 | 797.8 |
| 60° | 414.6 | 431.7 | 471.1 | 506.5 | 531.4 |
| 62.5° | 257.2 | 271.6 | 292.6 | 314.9 | 324.1 |
| 65° | 153.5 | 153.5 | 154.8 | 166.6 | 161.4 |
| 67.5° | 103.7 | 107.6 | 102.3 | 102.3 | 115.5 |
| 70° | 66.9 | 63.0 | 61.7 | 60.4 | 60.4 |
| 72.5° | 43.3 | 36.7 | 39.4 | 42.0 | 36.7 |
| 75° | 44.6 | 40.7 | 40.7 | 31.5 | 28.9 |
| 77.5° | 15.7 | 17.1 | 11.8 | 9.2 | 7.9 |
| 80° | 1.3 | 5.2 | 5.2 | 1.3 | 0.0 |
| 82.5° | 15.7 | 14.4 | 11.8 | 18.4 | 11.8 |
| 85° | 1.3 | 2.6 | 1.3 | 0.0 | 6.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)