

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: P685256

Luminaire Tested: **LX6C80D010 EX6809040 6LRMDLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-20)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C80D010 EX6809040 6LRMDLI
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRMD45 TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

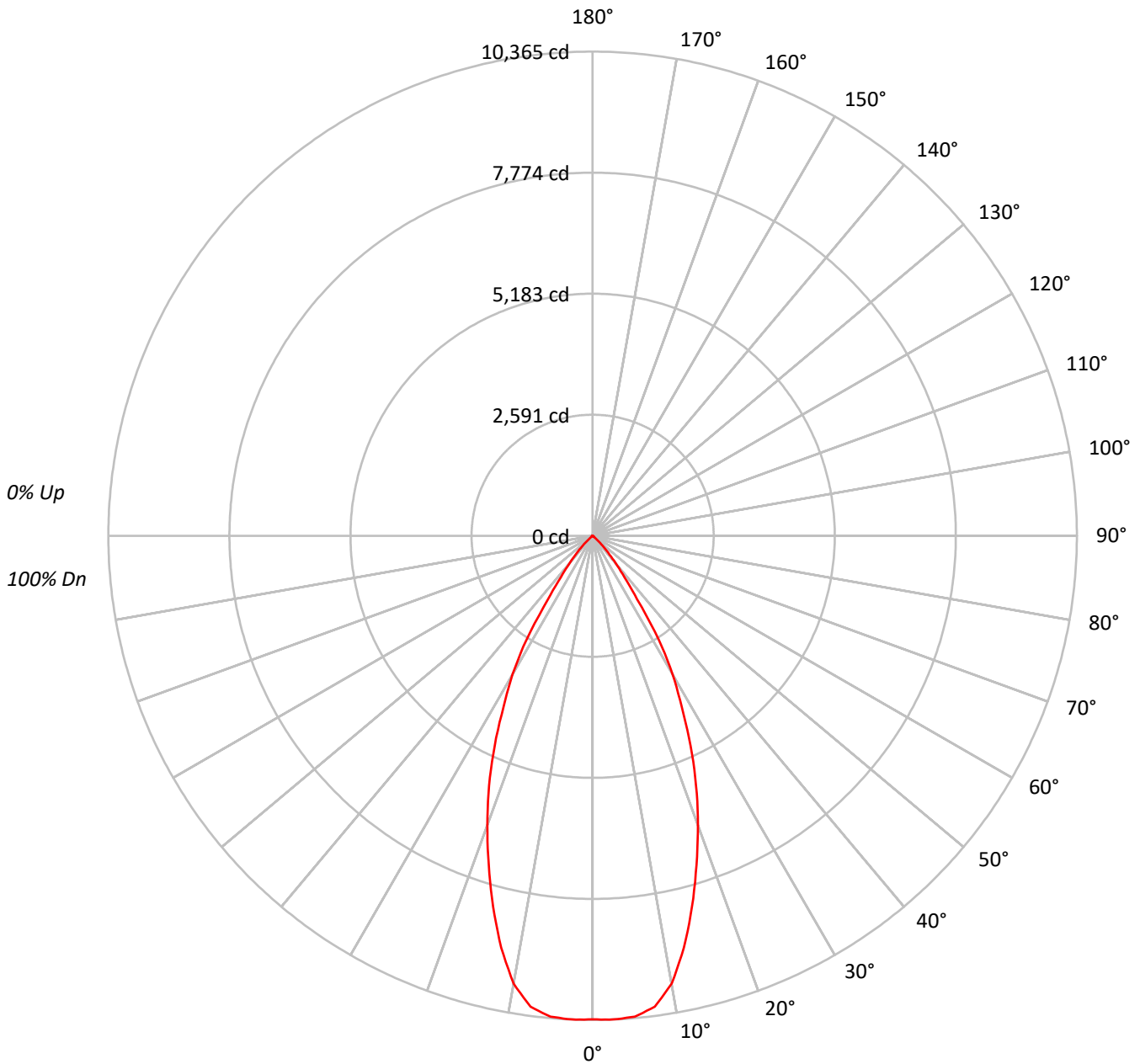
Lumens per Lamp: N/A
Luminaire Lumens: 6931.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 0.76 / 0.76 / 0.77
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
Input Voltage (V):
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

TEST NUMBER: P685256

CATALOG NUMBER: LX6C80D010 EX6809040 6LRMDLI

Luminous Intensity Polar Plot





TEST NUMBER: P685256

CATALOG NUMBER: LX6C80D010 EX6809040 6LRMDLI

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | |
| 2 | 109 | 104 | 100 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 | | | |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 78 | | | |
| 5 | 95 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 80 | 76 | 83 | 79 | 76 | 81 | 78 | 75 | 74 | | | |
| 6 | 90 | 82 | 77 | 73 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | 79 | 74 | 71 | 77 | 74 | 71 | 70 | | | |
| 7 | 86 | 78 | 72 | 68 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 66 | | | |
| 8 | 83 | 74 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | | | |
| 9 | 79 | 70 | 65 | 61 | 78 | 70 | 64 | 61 | 69 | 64 | 61 | 68 | 63 | 60 | 67 | 63 | 60 | 59 | | | |
| 10 | 76 | 67 | 61 | 58 | 75 | 66 | 61 | 58 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 567515 |
| 5° | 568604 |
| 10° | 541879 |
| 15° | 466592 |
| 20° | 384380 |
| 25° | 300223 |
| 30° | 216825 |
| 35° | 111039 |
| 40° | 54144 |
| 45° | 22498 |
| 50° | 4102 |
| 55° | 2380 |
| 60° | 1557 |
| 65° | 1154 |
| 70° | 850 |
| 75° | 763 |
| 80° | 568 |
| 85° | 0 |



TEST NUMBER: P685256

CATALOG NUMBER: LX6C80D010 EX6809040 6LRMDLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 968.5 | 14.0 |
| 10°-20° | 2278.6 | 32.9 |
| 20°-30° | 2256.8 | 32.6 |
| 30°-40° | 1144.1 | 16.5 |
| 40°-50° | 246.5 | 3.6 |
| 50°-60° | 23.5 | 0.3 |
| 60°-70° | 9.0 | 0.1 |
| 70°-80° | 3.3 | 0.0 |
| 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° | 5504.0 | 79.4 |
| 0°-40° | 6648.0 | 95.9 |
| 0°-60° | 6918.0 | 99.8 |
| 0°-90° | 6931.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6931.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10352 | |
| 5° | 10333 | 968 |
| 15° | 8221 | 2279 |
| 25° | 4963 | 2257 |
| 35° | 1659 | 1144 |
| 45° | 290 | 246 |
| 55° | 25 | 23 |
| 65° | 9 | 9 |
| 75° | 4 | 3 |
| 85° | 0 | 1 |
| 90° | 0 | |



TEST NUMBER: P685256

CATALOG NUMBER: LX6C80D010 EX6809040 6LRMDLI

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 10352.3 |
| 2.5° | 10364.8 |
| 5° | 10332.7 |
| 7.5° | 10170.7 |
| 10° | 9734.5 |
| 12.5° | 9033.1 |
| 15° | 8221.3 |
| 17.5° | 7389.9 |
| 20° | 6588.8 |
| 22.5° | 5787.7 |
| 25° | 4963.4 |
| 27.5° | 4123.1 |
| 30° | 3425.3 |
| 32.5° | 2638.4 |
| 35° | 1659.2 |
| 37.5° | 1116.2 |
| 40° | 756.6 |
| 42.5° | 489.6 |
| 45° | 290.2 |
| 47.5° | 130.0 |
| 50° | 48.1 |
| 52.5° | 32.0 |
| 55° | 24.9 |
| 57.5° | 17.8 |
| 60° | 14.2 |
| 62.5° | 10.7 |
| 65° | 8.9 |
| 67.5° | 7.1 |
| 70° | 5.3 |
| 72.5° | 3.6 |
| 75° | 3.6 |
| 77.5° | 1.8 |
| 80° | 1.8 |
| 82.5° | 1.8 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







(END OF REPORT)