

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: AtLite

Report Number: P27973

Luminaire Tested: **XR6C**

Test Date: 06/09/16

Test Information

Test Method: LM-79-08
Report Number: P27973
Test Lab: INNOVATION CENTER(G2)
Test Date: 06/09/16
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: AtLite
Catalog Number: XR6C
Description: XR6C LED EMERGENCY LIGHT HEAD WITH NEW 65ft LENS
Light Source: (1) SAMSUNG 5000K LED
LH351B
Ballast/Driver: (1) AGILENT DC POWER SUPPLY
IN0011

Summary

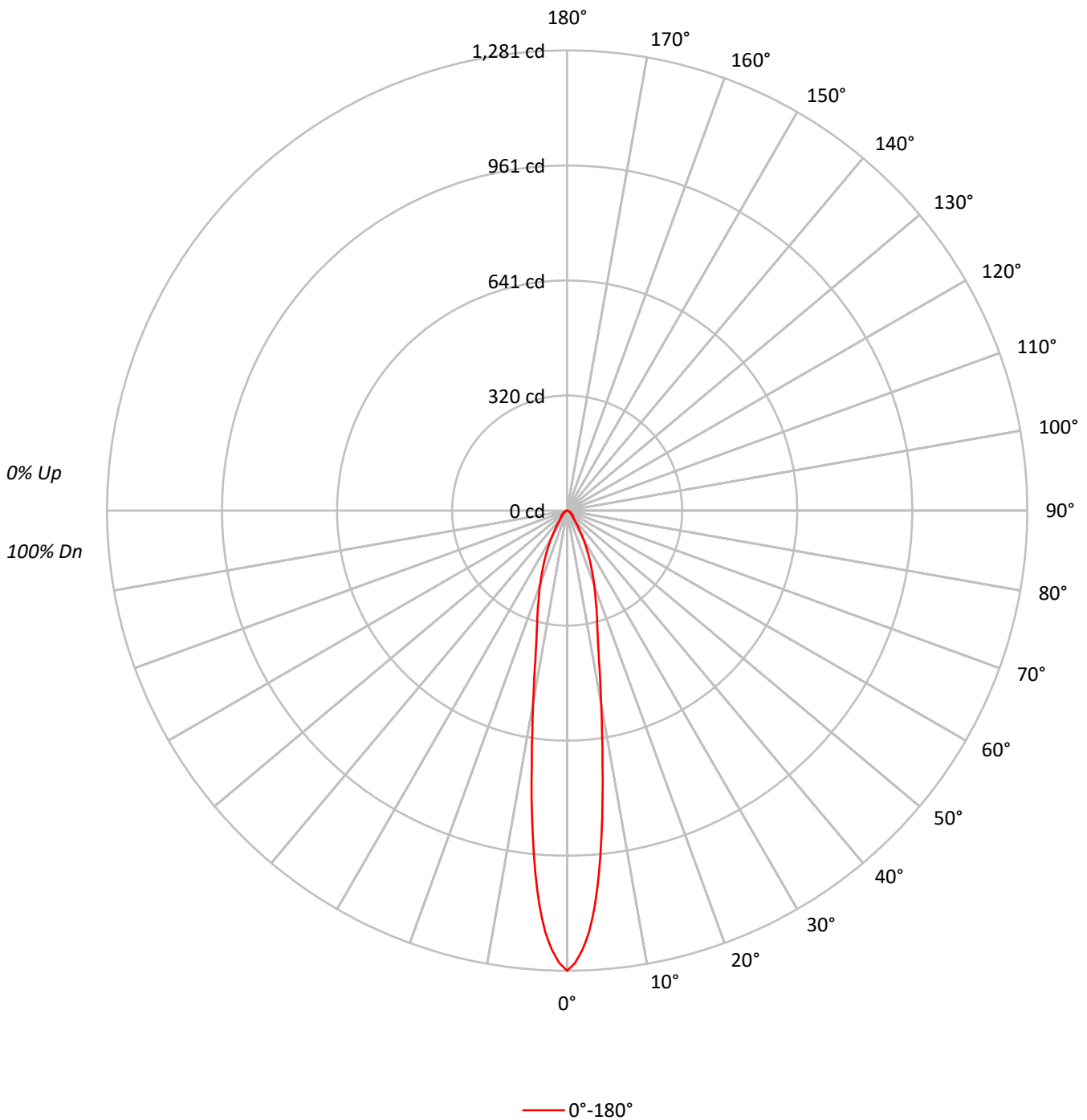
Lumens per Lamp: N/A
Luminaire Lumens: 309.4 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.35
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.84
Input Voltage (V): 4.80
Input Current (Ain): 0.800
Voltage Rise (V): NR
Power Factor: 1
Total Harmonic Distortion (THDi): N/A
Frequency (hertz): DC
Stabilization Time: 0.5 HR
Operation Time: 1 HR
Ambient Temperature (°C): 24.3
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 | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 86 | 84 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 78 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 |
| 6 | 91 | 83 | 77 | 74 | 90 | 82 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 75 | 72 | 71 |
| 7 | 87 | 79 | 74 | 70 | 86 | 78 | 73 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 67 |
| 8 | 84 | 76 | 70 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 65 |
| 9 | 81 | 73 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 70 | 66 | 63 | 62 |
| 10 | 78 | 70 | 65 | 61 | 77 | 69 | 64 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 61 | 60 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 280899 |
| 5° | 223420 |
| 10° | 121797 |
| 15° | 73099 |
| 20° | 51338 |
| 25° | 35083 |
| 30° | 22029 |
| 35° | 12582 |
| 40° | 8015 |
| 45° | 5892 |
| 50° | 6482 |
| 55° | 4970 |
| 60° | 4386 |
| 65° | 3632 |
| 70° | 2565 |
| 75° | 1694 |
| 80° | 1263 |
| 85° | 2516 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.3 | 25.9 |
| 10°-20° | 92.3 | 29.8 |
| 20°-30° | 66.9 | 21.6 |
| 30°-40° | 31.4 | 10.1 |
| 40°-50° | 17.1 | 5.5 |
| 50°-60° | 12.2 | 3.9 |
| 60°-70° | 6.7 | 2.2 |
| 70°-80° | 2.0 | 0.6 |
| 80°-90° | 0.7 | 0.2 |
| 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° | 239.5 | 77.4 |
| 0°-40° | 270.9 | 87.5 |
| 0°-60° | 300.1 | 97.0 |
| 0°-90° | 309.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 309.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1281 | |
| 5° | 1015 | 80 |
| 15° | 322 | 92 |
| 25° | 145 | 67 |
| 35° | 47 | 31 |
| 45° | 19 | 17 |
| 55° | 13 | 12 |
| 65° | 7 | 7 |
| 75° | 2 | 2 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CATALOG NUMBER: XR6C

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|------|
| 0° | 1281 |
| 1° | 1260 |
| 2° | 1223 |
| 3° | 1174 |
| 4° | 1103 |
| 5° | 1015 |
| 6° | 912 |
| 7° | 810 |
| 8° | 709 |
| 9° | 621 |
| 10° | 547 |
| 11° | 480 |
| 12° | 425 |
| 13° | 383 |
| 14° | 350 |
| 15° | 322 |
| 17.5° | 266 |
| 20° | 220 |
| 22.5° | 181 |
| 25° | 145 |
| 27.5° | 114 |
| 30° | 87 |
| 32.5° | 65 |
| 35° | 47 |
| 37.5° | 35 |
| 40° | 28 |
| 42.5° | 23 |
| 45° | 19 |
| 47.5° | 23 |
| 50° | 19 |
| 52.5° | 15 |
| 55° | 13 |
| 57.5° | 12 |
| 60° | 10 |
| 62.5° | 8 |
| 65° | 7 |
| 67.5° | 5 |
| 70° | 4 |
| 72.5° | 2 |
| 75° | 2 |
| 77.5° | 1 |
| 80° | 1 |
| 82.5° | 1 |
| 85° | 1 |
| 87.5° | 0 |



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0}$

(END OF REPORT)