

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: METALUX

Report Number: L061706401

Luminaire Tested: **RHB-18-UNV-L835-CD-U WITH RHB-ALR**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: L061706401  
Test Lab: LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RHB-18-UNV-L835-CD-U WITH RHB-ALR  
Description: LED High bay  
Light Source: -  
Ballast/Driver: -  
MEAN WELL HLG-150H-36A

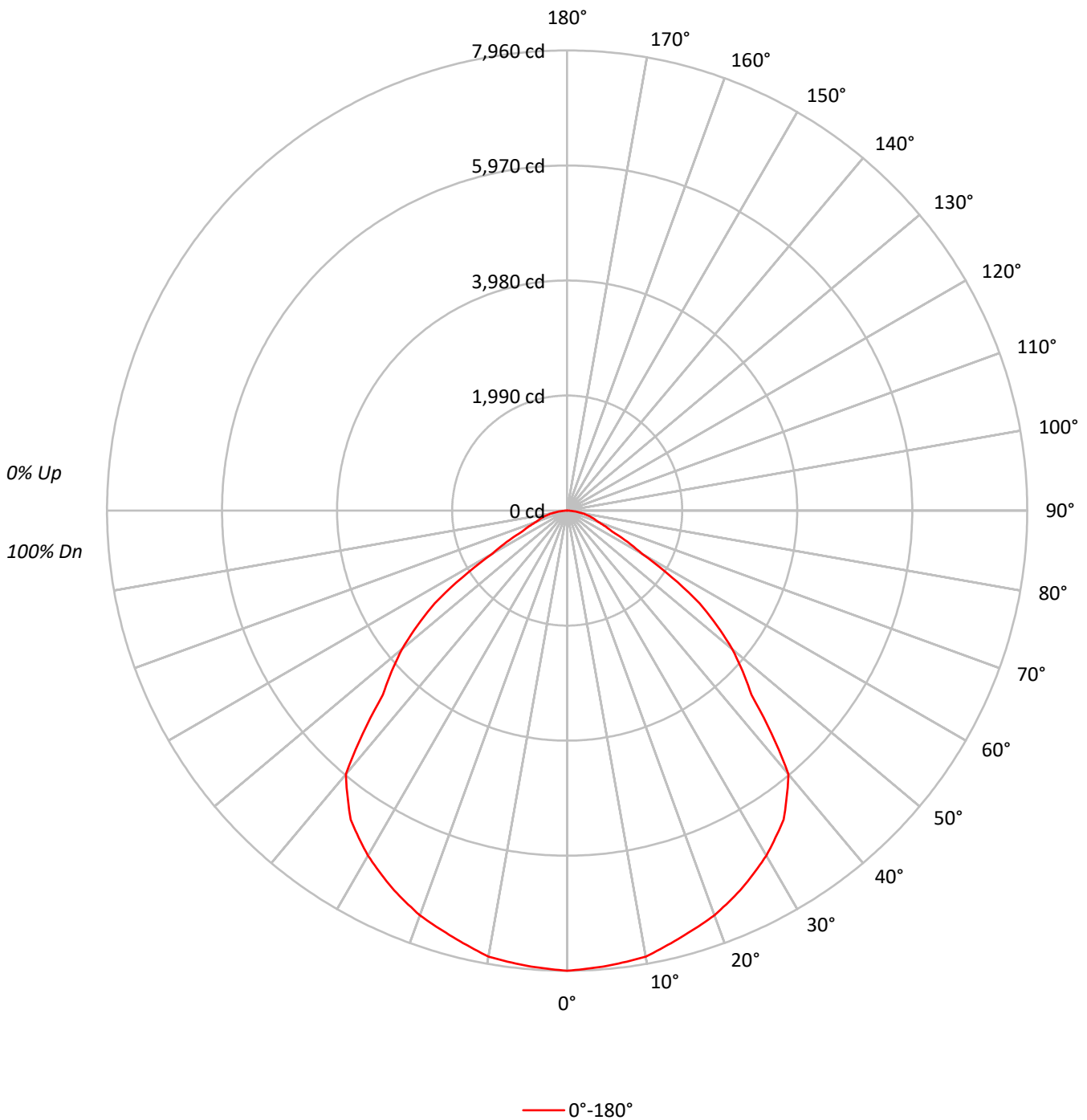
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17800.2 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.32  
Luminous Opening: Circular (Dia: 1.27' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 154.46  
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

TEST NUMBER: L061706401

CATALOG NUMBER: RHB-18-UNV-L835-CD-U WITH RHB-ALR

### Luminous Intensity Polar Plot





TEST NUMBER: L061706401

CATALOG NUMBER: RHB-18-UNV-L835-CD-U WITH RHB-ALR

**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   | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |
| 2   | 102 | 95  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3   | 95  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 76  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |
| 4   | 87  | 77  | 69  | 63  | 85  | 76  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 52  |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |
| 7   | 70  | 57  | 49  | 44  | 68  | 57  | 49  | 44  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |
| 8   | 65  | 53  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 48  | 43  | 39  | 37  |
| 9   | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |
| 10  | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 42  | 36  | 32  | 30  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 67637 |
| 5°  | 67444 |
| 10° | 67594 |
| 15° | 67173 |
| 20° | 67366 |
| 25° | 67420 |
| 30° | 67602 |
| 35° | 67705 |
| 40° | 66054 |
| 45° | 54160 |
| 50° | 49308 |
| 55° | 41450 |
| 60° | 25508 |
| 65° | 17211 |
| 70° | 14186 |
| 75° | 14051 |
| 80° | 12625 |
| 85° | 8384  |



TEST NUMBER: L061706401

CATALOG NUMBER: RHB-18-UNV-L835-CD-U WITH RHB-ALR

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 752.8   | 4.2       |
| 10°-20°   | 2161.0  | 12.1      |
| 20°-30°   | 3317.5  | 18.6      |
| 30°-40°   | 4058.3  | 22.8      |
| 40°-50°   | 3601.5  | 20.2      |
| 50°-60°   | 2413.1  | 13.6      |
| 60°-70°   | 934.3   | 5.2       |
| 70°-80°   | 444.7   | 2.5       |
| 80°-90°   | 117.0   | 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°    | 6231.3  | 35.0      |
| 0°-40°    | 10289.6 | 57.8      |
| 0°-60°    | 16304.2 | 91.6      |
| 0°-90°    | 17800.2 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 17800.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7960 |      |
| 5°  | 7907 | 753  |
| 15° | 7636 | 2161 |
| 25° | 7191 | 3318 |
| 35° | 6527 | 4058 |
| 45° | 4507 | 3602 |
| 55° | 2798 | 2413 |
| 65° | 856  | 934  |
| 75° | 428  | 445  |
| 85° | 86   | 117  |
| 90° | 0    |      |



TEST NUMBER: L061706401

CATALOG NUMBER: RHB-18-UNV-L835-CD-U WITH RHB-ALR

**CANDELA DISTRIBUTION (FULL):**

|     | 0°   |
|-----|------|
| 0°  | 7960 |
| 5°  | 7907 |
| 10° | 7834 |
| 15° | 7636 |
| 20° | 7450 |
| 25° | 7191 |
| 30° | 6890 |
| 35° | 6527 |
| 40° | 5955 |
| 45° | 4507 |
| 50° | 3730 |
| 55° | 2798 |
| 60° | 1501 |
| 65° | 856  |
| 70° | 571  |
| 75° | 428  |
| 80° | 258  |
| 85° | 86   |
| 90° | 0    |

(END OF REPORT)