

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: L061706501

Luminaire Tested: **RHB-24-UNV-L840-CD-U WITH RHB-ALR**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: L061706501
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-24-UNV-L840-CD-U WITH RHB-ALR
Description: LED High bay
Light Source: -
Ballast/Driver: -
MEAN WELL HLG-185H-36B

Summary

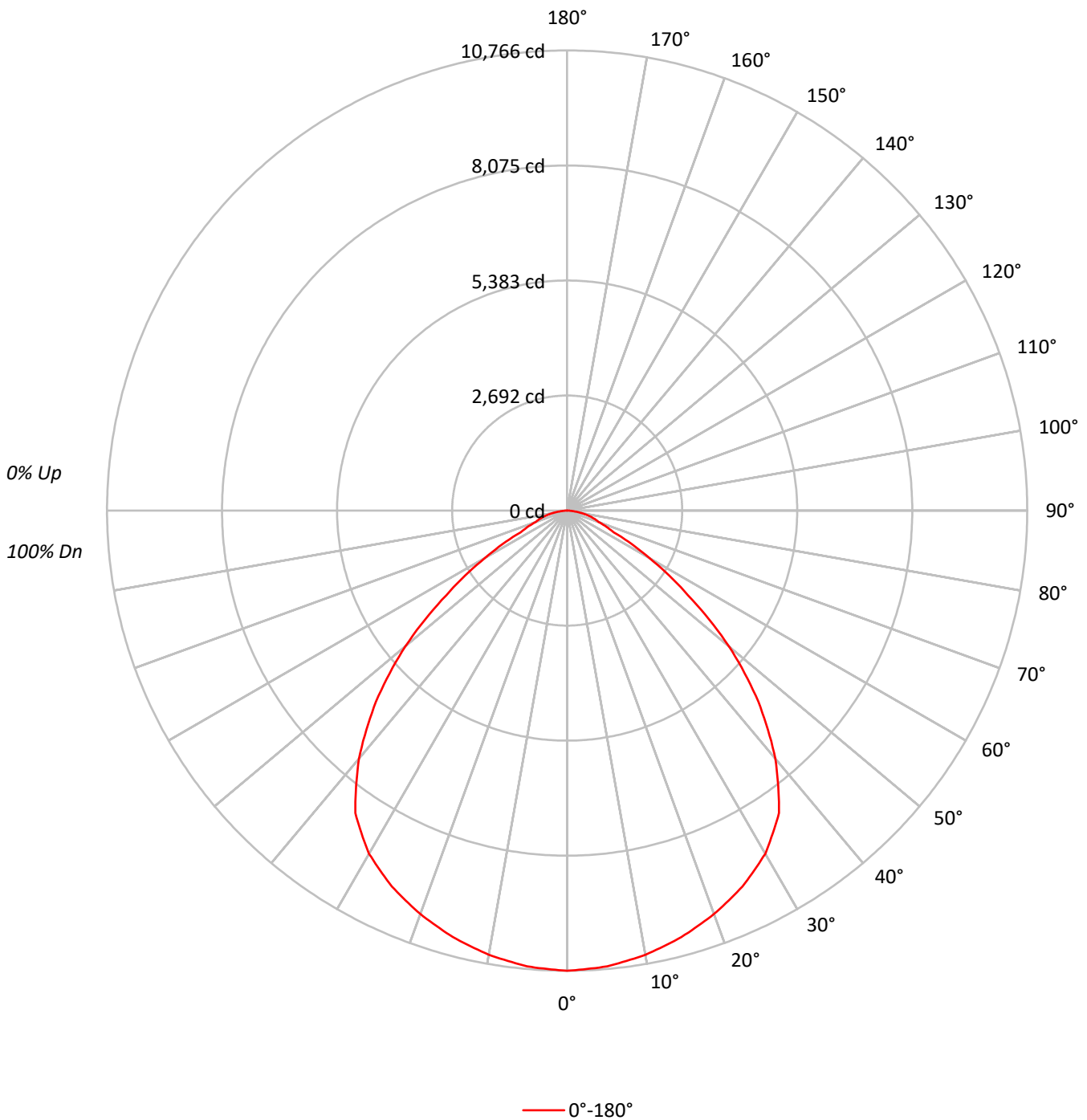
Lumens per Lamp: N/A
Luminaire Lumens: 23842.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.31
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 193.59
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





TEST NUMBER: L061706501

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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 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99 | 100 | 98 | 96 | 97 | 95 | 93 | 93 | 91 | 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 | 75 | 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 | 45 | 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 | 33 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 83413 |
| 5° | 83257 |
| 10° | 83016 |
| 15° | 82858 |
| 20° | 82821 |
| 25° | 82965 |
| 30° | 82933 |
| 35° | 81720 |
| 40° | 76664 |
| 45° | 69303 |
| 50° | 59520 |
| 55° | 46670 |
| 60° | 34338 |
| 65° | 22054 |
| 70° | 17851 |
| 75° | 17572 |
| 80° | 15661 |
| 85° | 10490 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1017.1 | 4.3 |
| 10°-20° | 2917.9 | 12.2 |
| 20°-30° | 4472.7 | 18.8 |
| 30°-40° | 5343.6 | 22.4 |
| 40°-50° | 4850.5 | 20.3 |
| 50°-60° | 3135.8 | 13.2 |
| 60°-70° | 1335.3 | 5.6 |
| 70°-80° | 610.4 | 2.6 |
| 80°-90° | 159.7 | 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° | 8407.7 | 35.3 |
| 0°-40° | 13751.3 | 57.7 |
| 0°-60° | 21737.5 | 91.2 |
| 0°-90° | 23842.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 23842.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10766 | |
| 5° | 10705 | ### |
| 15° | 10330 | 2918 |
| 25° | 9705 | 4473 |
| 35° | 8640 | 5344 |
| 45° | 6325 | 4850 |
| 55° | 3455 | 3136 |
| 65° | 1203 | 1335 |
| 75° | 587 | 610 |
| 85° | 118 | 160 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-----|-------|
| 0° | 10766 |
| 5° | 10705 |
| 10° | 10552 |
| 15° | 10330 |
| 20° | 10045 |
| 25° | 9705 |
| 30° | 9270 |
| 35° | 8640 |
| 40° | 7580 |
| 45° | 6325 |
| 50° | 4938 |
| 55° | 3455 |
| 60° | 2216 |
| 65° | 1203 |
| 70° | 788 |
| 75° | 587 |
| 80° | 351 |
| 85° | 118 |
| 90° | 0 |

(END OF REPORT)