

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P1221440

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3000K\_L32\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221440  
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3000K\_L32\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 2 - 32,000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

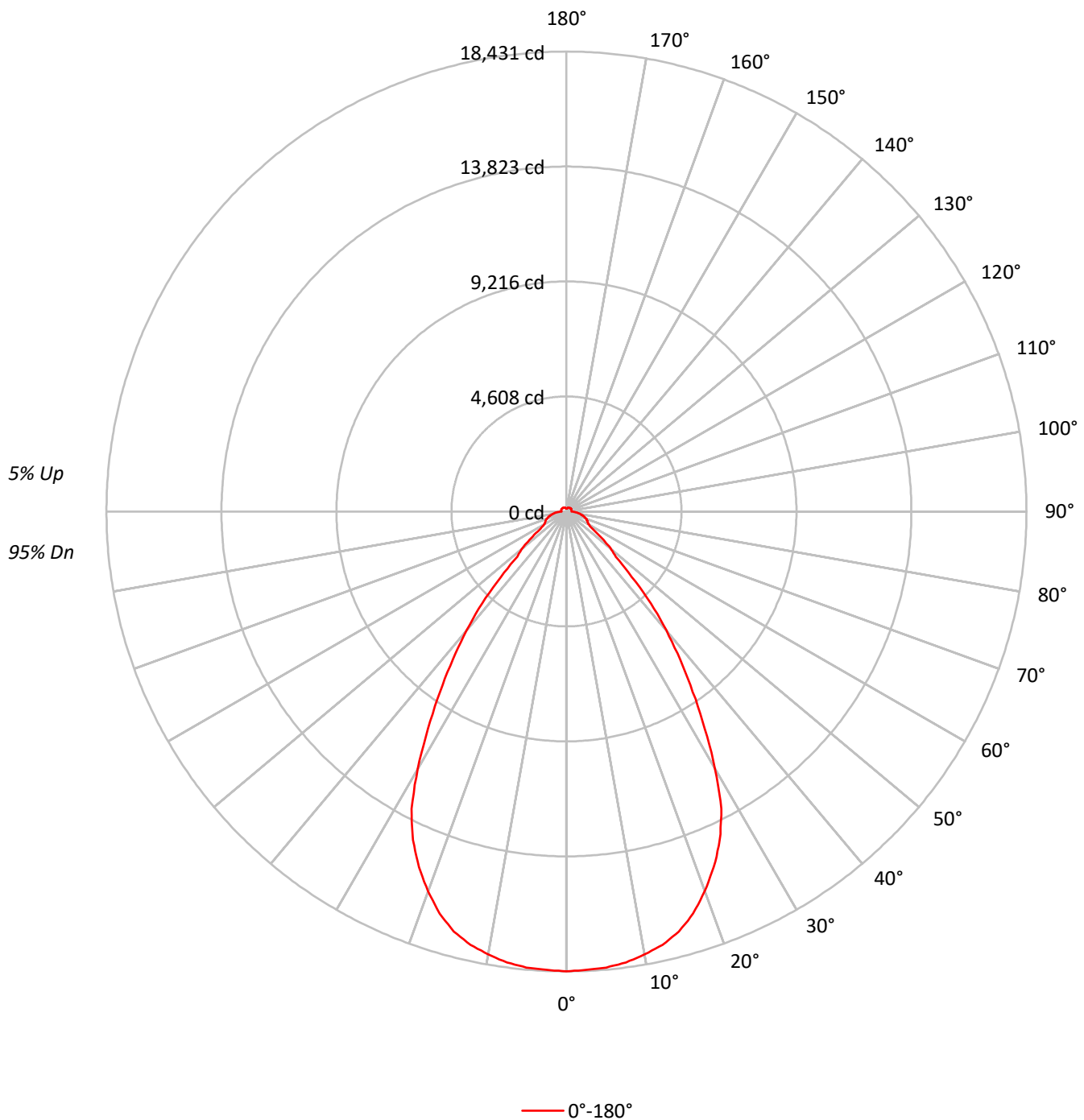
Lumens per Lamp: N/A  
Luminaire Lumens: 26402.3 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.01  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 193.1  
Input Voltage (V): 120  
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: 24 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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 |
| 1   | 110 | 107 | 103 | 100 | 107 | 104 | 101 | 98  | 99  | 96  | 94  | 94  | 92  | 91  | 90 | 89 | 87 |
| 2   | 103 | 97  | 91  | 87  | 100 | 94  | 90  | 86  | 90  | 86  | 83  | 86  | 83  | 81  | 83 | 80 | 78 |
| 3   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 76  | 83  | 78  | 74  | 80  | 76  | 72  | 77 | 73 | 70 |
| 4   | 90  | 81  | 74  | 69  | 88  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 65  | 71 | 67 | 64 |
| 5   | 84  | 74  | 67  | 62  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 68  | 63  | 59  | 66 | 62 | 58 |
| 6   | 79  | 69  | 61  | 56  | 77  | 68  | 61  | 56  | 65  | 60  | 55  | 63  | 58  | 54  | 62 | 57 | 54 |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 50  | 58 | 53 | 49 |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 52  | 47  | 57  | 51  | 47  | 55  | 50  | 46  | 54 | 49 | 46 |
| 9   | 66  | 55  | 48  | 44  | 65  | 55  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 51 | 46 | 42 |
| 10  | 63  | 52  | 45  | 41  | 62  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 43  | 40  | 48 | 43 | 39 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 106277 |
| 5°  | 101032 |
| 10° | 95679  |
| 15° | 89926  |
| 20° | 81933  |
| 25° | 72681  |
| 30° | 59305  |
| 35° | 44061  |
| 40° | 31402  |
| 45° | 19048  |
| 50° | 12144  |
| 55° | 7679   |
| 60° | 5845   |
| 65° | 5640   |
| 70° | 5366   |
| 75° | 4897   |
| 80° | 4218   |
| 85° | 3270   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 19048 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1741.1  | 6.6       |
| 10°-20°   | 4878.9  | 18.5      |
| 20°-30°   | 6593.5  | 25.0      |
| 30°-40°   | 5533.6  | 21.0      |
| 40°-50°   | 2983.4  | 11.3      |
| 50°-60°   | 1352.0  | 5.1       |
| 60°-70°   | 919.5   | 3.5       |
| 70°-80°   | 735.4   | 2.8       |
| 80°-90°   | 411.2   | 1.6       |
| 90°-100°  | 226.4   | 0.9       |
| 100°-110° | 228.0   | 0.9       |
| 110°-120° | 214.1   | 0.8       |
| 120°-130° | 187.3   | 0.7       |
| 130°-140° | 153.3   | 0.6       |
| 140°-150° | 116.3   | 0.4       |
| 150°-160° | 77.4    | 0.3       |
| 160°-170° | 39.3    | 0.1       |
| 170°-180° | 11.5    | 0.0       |
| 0°-30°    | 13213.6 | 50.0      |
| 0°-40°    | 18747.1 | 71.0      |
| 0°-60°    | 23082.6 | 87.4      |
| 0°-90°    | 25148.6 | 95.3      |
| 90°-120°  | 668.5   | 2.5       |
| 90°-150°  | 1125.4  | 4.3       |
| 90°-180°  | 1254.0  | 4.7       |
| 0°-180°   | 26402.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 18431 |      |
| 5°   | 18348 | ###  |
| 15°  | 17425 | 4879 |
| 25°  | 14540 | 6594 |
| 35°  | 8823  | 5534 |
| 45°  | 3702  | 2983 |
| 55°  | 1402  | 1352 |
| 65°  | 932   | 920  |
| 75°  | 700   | 735  |
| 85°  | 380   | 344  |
| 90°  | 201   | 123  |
| 95°  | 208   | 171  |
| 105° | 216   | 228  |
| 115° | 216   | 214  |
| 125° | 209   | 187  |
| 135° | 198   | 153  |
| 145° | 185   | 116  |
| 155° | 168   | 77   |
| 165° | 138   | 39   |
| 175° | 121   | 12   |
| 180° | 119   |      |

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      |
|--------|---------|
| 0°     | 18430.6 |
| 2.5°   | 18384.1 |
| 5°     | 18347.7 |
| 7.5°   | 18229.2 |
| 10°    | 18026.1 |
| 12.5°  | 17786.5 |
| 15°    | 17424.8 |
| 17.5°  | 16893.7 |
| 20°    | 16195.0 |
| 22.5°  | 15429.7 |
| 25°    | 14539.7 |
| 27.5°  | 13441.9 |
| 30°    | 11915.1 |
| 32.5°  | 10319.0 |
| 35°    | 8823.1  |
| 37.5°  | 7469.3  |
| 40°    | 6219.4  |
| 42.5°  | 5001.4  |
| 45°    | 3702.3  |
| 47.5°  | 2677.4  |
| 50°    | 2297.6  |
| 52.5°  | 1876.7  |
| 55°    | 1402.0  |
| 57.5°  | 1142.4  |
| 60°    | 1020.3  |
| 62.5°  | 967.5   |
| 65°    | 932.0   |
| 67.5°  | 885.5   |
| 70°    | 829.9   |
| 72.5°  | 768.9   |
| 75°    | 699.7   |
| 77.5°  | 626.8   |
| 80°    | 548.4   |
| 82.5°  | 467.3   |
| 85°    | 379.9   |
| 87.5°  | 287.0   |
| 90°    | 201.3   |
| 92.5°  | 205.0   |
| 95°    | 207.7   |
| 97.5°  | 210.4   |
| 100°   | 212.3   |
| 102.5° | 215.0   |
| 105°   | 215.9   |
| 107.5° | 216.8   |
| 110°   | 216.8   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 216.8 |
| 115°   | 215.9 |
| 117.5° | 215.0 |
| 120°   | 213.2 |
| 122.5° | 211.4 |
| 125°   | 208.6 |
| 127.5° | 205.9 |
| 130°   | 204.1 |
| 132.5° | 200.4 |
| 135°   | 197.7 |
| 137.5° | 195.0 |
| 140°   | 192.2 |
| 142.5° | 188.6 |
| 145°   | 184.9 |
| 147.5° | 181.3 |
| 150°   | 177.6 |
| 152.5° | 173.1 |
| 155°   | 167.6 |
| 157.5° | 160.3 |
| 160°   | 152.1 |
| 162.5° | 144.9 |
| 165°   | 137.6 |
| 167.5° | 129.4 |
| 170°   | 122.1 |
| 172.5° | 120.3 |
| 175°   | 121.2 |
| 177.5° | 120.3 |
| 180°   | 119.3 |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 13.81            | 14.98 | 14.26 | 15.39 | 15.83 | 13.81          | 14.98 | 14.26 | 15.39 | 15.83 |
|                 | 3H   | 15.82            | 16.86 | 16.28 | 17.29 | 17.78 | 15.82          | 16.86 | 16.28 | 17.29 | 17.78 |
|                 | 4H   | 16.68            | 17.66 | 17.17 | 18.11 | 18.61 | 16.68          | 17.66 | 17.17 | 18.11 | 18.61 |
|                 | 6H   | 17.40            | 18.30 | 17.90 | 18.77 | 19.28 | 17.40          | 18.30 | 17.90 | 18.77 | 19.28 |
|                 | 8H   | 17.68            | 18.53 | 18.19 | 19.01 | 19.53 | 17.68          | 18.53 | 18.19 | 19.01 | 19.53 |
|                 | 12H  | 17.89            | 18.70 | 18.41 | 19.18 | 19.73 | 17.89          | 18.70 | 18.41 | 19.18 | 19.73 |
| 4H              | 2H   | 14.33            | 15.30 | 14.81 | 15.75 | 16.25 | 14.33          | 15.30 | 14.81 | 15.75 | 16.25 |
|                 | 3H   | 16.57            | 17.37 | 17.06 | 17.87 | 18.39 | 16.57          | 17.37 | 17.06 | 17.87 | 18.39 |
|                 | 4H   | 17.57            | 18.29 | 18.08 | 18.80 | 19.36 | 17.57          | 18.29 | 18.08 | 18.80 | 19.36 |
|                 | 6H   | 18.43            | 19.06 | 18.97 | 19.59 | 20.17 | 18.43          | 19.06 | 18.97 | 19.59 | 20.17 |
|                 | 8H   | 18.76            | 19.35 | 19.31 | 19.88 | 20.47 | 18.76          | 19.35 | 19.31 | 19.88 | 20.47 |
|                 | 12H  | 19.03            | 19.56 | 19.60 | 20.12 | 20.71 | 19.03          | 19.56 | 19.60 | 20.12 | 20.71 |
| 8H              | 4H   | 17.86            | 18.46 | 18.41 | 18.99 | 19.57 | 17.86          | 18.46 | 18.41 | 18.99 | 19.57 |
|                 | 6H   | 18.87            | 19.35 | 19.45 | 19.94 | 20.52 | 18.87          | 19.35 | 19.45 | 19.94 | 20.52 |
|                 | 8H   | 19.30            | 19.73 | 19.90 | 20.33 | 20.93 | 19.30          | 19.73 | 19.90 | 20.33 | 20.93 |
|                 | 12H  | 19.68            | 20.07 | 20.28 | 20.64 | 21.32 | 19.68          | 20.07 | 20.28 | 20.64 | 21.32 |
| 12H             | 4H   | 17.89            | 18.41 | 18.46 | 18.98 | 19.57 | 17.89          | 18.41 | 18.46 | 18.98 | 19.57 |
|                 | 6H   | 18.93            | 19.37 | 19.53 | 19.97 | 20.57 | 18.93          | 19.37 | 19.53 | 19.97 | 20.57 |
|                 | 8H   | 19.43            | 19.81 | 20.02 | 20.39 | 21.06 | 19.43          | 19.81 | 20.02 | 20.39 | 21.06 |