

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: P1221437

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3000K\_L24\_Narrow\_120V)

Issue Date: 1/21/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1221437  
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\_L24\_Narrow\_120V)  
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, TRANSLUCENT WHITE SHADE, NARROW DISTRIBUTION.  
LIGHT LEVEL 1 - 24,000 LUMENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

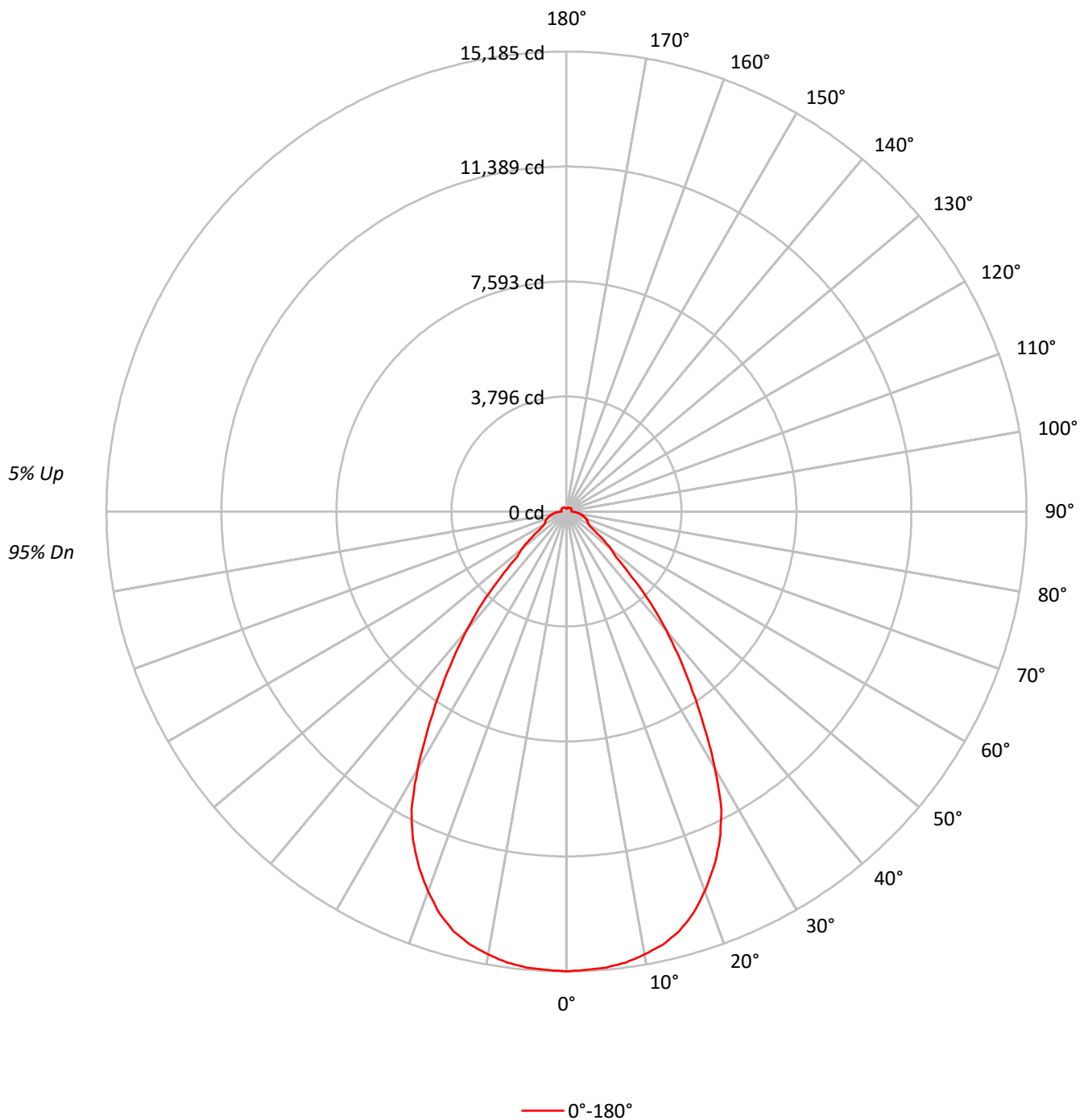
Lumens per Lamp: N/A  
Luminaire Lumens: 21753.3 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.05 / 1.01  
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')  
CIE Type: Direct

Input Watts (W): 154.6  
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



CATALOG NUMBER: PRLX-UHBS2-2436-MV-L8C5-TRWH-08 (3000K\_L24\_Narrow\_120V)

### 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 | 0  |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |  |  |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |  |  |
| 1   | 110 | 107 | 103 | 100 | 107 | 104 | 101 | 98  | 99  | 96  | 94  | 94  | 92  | 91  | 90 | 89 | 87 | 85 |  |  |
| 2   | 103 | 97  | 91  | 87  | 100 | 94  | 90  | 86  | 90  | 86  | 83  | 86  | 83  | 81  | 83 | 80 | 78 | 76 |  |  |
| 3   | 96  | 88  | 82  | 77  | 94  | 86  | 81  | 76  | 83  | 78  | 74  | 80  | 76  | 72  | 77 | 73 | 70 | 68 |  |  |
| 4   | 90  | 81  | 74  | 69  | 88  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 65  | 71 | 67 | 64 | 62 |  |  |
| 5   | 84  | 74  | 67  | 62  | 82  | 73  | 66  | 61  | 71  | 65  | 60  | 68  | 63  | 59  | 66 | 62 | 58 | 57 |  |  |
| 6   | 79  | 69  | 61  | 56  | 77  | 68  | 61  | 56  | 65  | 60  | 55  | 63  | 58  | 54  | 62 | 57 | 54 | 52 |  |  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 50  | 58 | 53 | 49 | 48 |  |  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 52  | 47  | 57  | 51  | 47  | 55  | 50  | 46  | 54 | 49 | 46 | 44 |  |  |
| 9   | 66  | 55  | 48  | 44  | 65  | 55  | 48  | 44  | 53  | 47  | 43  | 52  | 47  | 43  | 51 | 46 | 42 | 41 |  |  |
| 10  | 63  | 52  | 45  | 41  | 62  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 43  | 40  | 48 | 43 | 39 | 38 |  |  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 87563 |
| 5°  | 83242 |
| 10° | 78831 |
| 15° | 74091 |
| 20° | 67506 |
| 25° | 59883 |
| 30° | 48862 |
| 35° | 36302 |
| 40° | 25873 |
| 45° | 15694 |
| 50° | 10006 |
| 55° | 6327  |
| 60° | 4816  |
| 65° | 4647  |
| 70° | 4422  |
| 75° | 4035  |
| 80° | 3476  |
| 85° | 2694  |

**MAXIMUM LUMINANCE 45°-90°:**

Luminance: 15694 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1434.5  | 6.6       |
| 10°-20°   | 4019.8  | 18.5      |
| 20°-30°   | 5432.5  | 25.0      |
| 30°-40°   | 4559.2  | 21.0      |
| 40°-50°   | 2458.1  | 11.3      |
| 50°-60°   | 1114.0  | 5.1       |
| 60°-70°   | 757.6   | 3.5       |
| 70°-80°   | 605.9   | 2.8       |
| 80°-90°   | 338.8   | 1.6       |
| 90°-100°  | 186.5   | 0.9       |
| 100°-110° | 187.9   | 0.9       |
| 110°-120° | 176.4   | 0.8       |
| 120°-130° | 154.3   | 0.7       |
| 130°-140° | 126.3   | 0.6       |
| 140°-150° | 95.9    | 0.4       |
| 150°-160° | 63.8    | 0.3       |
| 160°-170° | 32.4    | 0.1       |
| 170°-180° | 9.5     | 0.0       |
| 0°-30°    | 10886.9 | 50.0      |
| 0°-40°    | 15446.0 | 71.0      |
| 0°-60°    | 19018.1 | 87.4      |
| 0°-90°    | 20720.4 | 95.3      |
| 90°-120°  | 550.7   | 2.5       |
| 90°-150°  | 927.2   | 4.3       |
| 90°-180°  | 1033.0  | 4.7       |
| 0°-180°   | 21753.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 15185 |      |
| 5°   | 15117 | ###  |
| 15°  | 14357 | 4020 |
| 25°  | 11979 | 5433 |
| 35°  | 7270  | 4559 |
| 45°  | 3050  | 2458 |
| 55°  | 1155  | 1114 |
| 65°  | 768   | 758  |
| 75°  | 576   | 606  |
| 85°  | 313   | 284  |
| 90°  | 166   | 101  |
| 95°  | 171   | 141  |
| 105° | 178   | 188  |
| 115° | 178   | 176  |
| 125° | 172   | 154  |
| 135° | 163   | 126  |
| 145° | 152   | 96   |
| 155° | 138   | 64   |
| 165° | 113   | 32   |
| 175° | 100   | 10   |
| 180° | 98    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°     |         |
|--------|---------|
| 0°     | 15185.2 |
| 2.5°   | 15146.9 |
| 5°     | 15116.9 |
| 7.5°   | 15019.3 |
| 10°    | 14852.0 |
| 12.5°  | 14654.5 |
| 15°    | 14356.6 |
| 17.5°  | 13919.0 |
| 20°    | 13343.3 |
| 22.5°  | 12712.8 |
| 25°    | 11979.4 |
| 27.5°  | 11075.0 |
| 30°    | 9817.0  |
| 32.5°  | 8501.9  |
| 35°    | 7269.5  |
| 37.5°  | 6154.1  |
| 40°    | 5124.3  |
| 42.5°  | 4120.7  |
| 45°    | 3050.4  |
| 47.5°  | 2206.0  |
| 50°    | 1893.0  |
| 52.5°  | 1546.2  |
| 55°    | 1155.2  |
| 57.5°  | 941.2   |
| 60°    | 840.7   |
| 62.5°  | 797.1   |
| 65°    | 767.9   |
| 67.5°  | 729.6   |
| 70°    | 683.8   |
| 72.5°  | 633.5   |
| 75°    | 576.5   |
| 77.5°  | 516.4   |
| 80°    | 451.9   |
| 82.5°  | 385.1   |
| 85°    | 313.0   |
| 87.5°  | 236.4   |
| 90°    | 165.9   |
| 92.5°  | 168.9   |
| 95°    | 171.1   |
| 97.5°  | 173.4   |
| 100°   | 174.9   |
| 102.5° | 177.1   |
| 105°   | 177.9   |
| 107.5° | 178.6   |
| 110°   | 178.6   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 178.6 |
| 115°   | 177.9 |
| 117.5° | 177.1 |
| 120°   | 175.6 |
| 122.5° | 174.1 |
| 125°   | 171.9 |
| 127.5° | 169.6 |
| 130°   | 168.1 |
| 132.5° | 165.1 |
| 135°   | 162.9 |
| 137.5° | 160.6 |
| 140°   | 158.4 |
| 142.5° | 155.4 |
| 145°   | 152.4 |
| 147.5° | 149.4 |
| 150°   | 146.4 |
| 152.5° | 142.6 |
| 155°   | 138.1 |
| 157.5° | 132.1 |
| 160°   | 125.3 |
| 162.5° | 119.3 |
| 165°   | 113.3 |
| 167.5° | 106.6 |
| 170°   | 100.6 |
| 172.5° | 99.1  |
| 175°   | 99.8  |
| 177.5° | 99.1  |
| 180°   | 98.3  |

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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 | 13.13            | 14.31 | 13.58 | 14.72 | 15.16 | 13.13          | 14.31 | 13.58 | 14.72 | 15.16 |
|                 | 3H   | 15.15            | 16.19 | 15.61 | 16.62 | 17.10 | 15.15          | 16.19 | 15.61 | 16.62 | 17.10 |
|                 | 4H   | 16.01            | 16.99 | 16.50 | 17.43 | 17.94 | 16.01          | 16.99 | 16.50 | 17.43 | 17.94 |
|                 | 6H   | 16.73            | 17.63 | 17.23 | 18.09 | 18.61 | 16.73          | 17.63 | 17.23 | 18.09 | 18.61 |
|                 | 8H   | 17.00            | 17.86 | 17.52 | 18.34 | 18.86 | 17.00          | 17.86 | 17.52 | 18.34 | 18.86 |
|                 | 12H  | 17.22            | 18.03 | 17.73 | 18.51 | 19.05 | 17.22          | 18.03 | 17.73 | 18.51 | 19.05 |
| 4H              | 2H   | 13.65            | 14.63 | 14.14 | 15.08 | 15.58 | 13.65          | 14.63 | 14.14 | 15.08 | 15.58 |
|                 | 3H   | 15.89            | 16.70 | 16.39 | 17.20 | 17.72 | 15.89          | 16.70 | 16.39 | 17.20 | 17.72 |
|                 | 4H   | 16.89            | 17.62 | 17.41 | 18.13 | 18.69 | 16.89          | 17.62 | 17.41 | 18.13 | 18.69 |
|                 | 6H   | 17.75            | 18.38 | 18.30 | 18.92 | 19.50 | 17.75          | 18.38 | 18.30 | 18.92 | 19.50 |
|                 | 8H   | 18.09            | 18.68 | 18.64 | 19.21 | 19.79 | 18.09          | 18.68 | 18.64 | 19.21 | 19.79 |
|                 | 12H  | 18.36            | 18.88 | 18.93 | 19.45 | 20.04 | 18.36          | 18.88 | 18.93 | 19.45 | 20.04 |
| 8H              | 4H   | 17.19            | 17.78 | 17.74 | 18.32 | 18.90 | 17.19          | 17.78 | 17.74 | 18.32 | 18.90 |
|                 | 6H   | 18.20            | 18.68 | 18.78 | 19.26 | 19.85 | 18.20          | 18.68 | 18.78 | 19.26 | 19.85 |
|                 | 8H   | 18.63            | 19.06 | 19.23 | 19.66 | 20.26 | 18.63          | 19.06 | 19.23 | 19.66 | 20.26 |
|                 | 12H  | 19.01            | 19.39 | 19.60 | 19.97 | 20.65 | 19.01          | 19.39 | 19.60 | 19.97 | 20.65 |
| 12H             | 4H   | 17.22            | 17.74 | 17.78 | 18.31 | 18.89 | 17.22          | 17.74 | 17.78 | 18.31 | 18.89 |
|                 | 6H   | 18.26            | 18.70 | 18.86 | 19.29 | 19.89 | 18.26          | 18.70 | 18.86 | 19.29 | 19.89 |
|                 | 8H   | 18.75            | 19.14 | 19.35 | 19.72 | 20.39 | 18.75          | 19.14 | 19.35 | 19.72 | 20.39 |