

|            |  |
|------------|--|
| Project:   |  |
| Type:      |  |
| Catalog #: |  |



215W model with option diffuse lens

### STANDARD



The PDM2 series is a group of full-body, premium-performance LED high bay luminaires. These luminaires are designed to illuminate a wide variety of settings, including commercial, industrial and retail settings such as warehouses, manufacturing plants, sporting venues and big-box retailers. With a painted, steel housing, the PDM2 provides high levels of durability and performance. High-efficacy, long-life LEDs provide both energy and maintenance cost savings compared to traditional, High Intensity Discharge (HID) high bays.

### FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide 122,000 hours of operation with at least 70% of initial lumen output (L<sub>70</sub>).\*\*
- Delivers from 12,193 lumens (140 lumens per watt, LPW) to 60,629 lumens (142 LPW).\*
- Universal 120-277 AC voltage (50-60Hz) is standard. Step-down transformers are required for 347-480V applications.
- 0-10vdc dimming drivers are standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Painted steel housings are standard.
- Chain-mount kits (includes v-hooks and 1/8" thick, 1-meter long chain) are standard.
- Accessories include lenses (clear & diffused), wire-guard kits, surface-mounting kits, pendant-mounting kits, and cable-mounting kits.
- Easy installation in new construction or retrofit.

\* Contact factory for other color temperatures and lumen packages.

\*\* L<sub>70</sub> hours are IES TM-21-11 calculated hours.

### WARRANTY & LISTINGS

- cULus listed for damp locations in ambient temperatures from -20°C to 50°C (-4°F to 122°F).
- DLC premium approved.
- Flicker-free per IEEE1789-2015 (low risk of adverse effects of flicker at 100% light output level).
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- Complies with FCC Part 15, class A.
- Complies with IEEE C.62.41-1991, input transient protection (2.5kV).
- 5-year warranty of all electronics and housing.

### MOUNTING OPTIONS

- Chain mounting with V-hooks is standard.
- Optional surface mounting kits provides attachment to flat ceilings.
- Optional pendant mounting kits provides pendant attachment to junction boxes.
- Optional cable mounting kits provide suspension at two lengths (i.e., 3 & 5 meters).

### ORDERING INFORMATION

**Example:** PDM290-4K-DIM + PDM2-CL-1223 + PDM2-WG-1223 + PDM2-KIT-12  
Full-body LED high bay, 4000k + clear lens + wire-guard kit + surface-mount kit

| Model          | Luminaire Lumens | Luminaire Watts | Lumens Per Watt | Color Temperature | Accessories (Order Separately)                                 |
|----------------|------------------|-----------------|-----------------|-------------------|----------------------------------------------------------------|
| PDM290-4K-DIM  | 12,193           | 87              | 140             | 4K = 4000k        | PDM2-CL-1223 = Clear lens – 90W, 135W & 180W                   |
| PDM290-5K-DIM  | 12,394           | 87              | 142             | 5K = 5000k        | PDM2-CL-1723 = Clear lens – 215W                               |
| PDM2135-4K-DIM | 18,401           | 132             | 139             | 4K = 4000k        | PDM2-CL-1245 = Clear lens – 265W & 320W                        |
| PDM2135-5K-DIM | 18,564           | 132             | 141             | 5K = 5000k        | PDM2-CL-1745 = Clear lens – 425W                               |
| PDM2180-4K-DIM | 24,457           | 175             | 140             | 4K = 4000k        | PDM2-DL-1223 = Diffuse lens – 90W, 135W & 180W                 |
| PDM2180-5K-DIM | 24,603           | 175             | 141             | 5K = 5000k        | PDM2-DL-1723 = Diffuse lens – 215W                             |
| PDM2215-4K-DIM | 29,929           | 213             | 141             | 4K = 4000k        | PDM2-DL-1245 = Diffuse lens – 265W & 320W                      |
| PDM2215-5K-DIM | 30,356           | 213             | 143             | 5K = 5000k        | PDM2-DL-1745 = Diffuse lens – 425W                             |
| PDM2265-4K-DIM | 37,590           | 267             | 141             | 4K = 4000k        | PDM2-WG-1223 = Wire-guard kit – 90W, 135W & 180W               |
| PDM2265-5K-DIM | 37,996           | 267             | 142             | 5K = 5000k        | PDM2-WG-1723 = Wire-guard kit – 215W                           |
| PDM2320-4K-DIM | 44,235           | 320             | 138             | 4K = 4000k        | PDM2-WG-1245 = Wire-guard kit – 265W & 320W                    |
| PDM2320-5K-DIM | 44,460           | 320             | 139             | 5K = 5000k        | PDM2-WG-1745 = Wire-guard kit – 425W                           |
| PDM2425-4K-DIM | 59,278           | 428             | 139             | 4K = 4000k        | PDM2-KIT-12 = Surface-mount kit – 90W, 135W, 180W, 265W & 320W |
| PDM2425-5K-DIM | 60,629           | 428             | 142             | 5K = 5000k        | PDM2-KIT-17 = Surface-mount kit – 215W & 425W                  |
|                |                  |                 |                 |                   | PDM2-PK = Pendant-mount kit – all models                       |
|                |                  |                 |                 |                   | PDM2-CMK3 = Cable-mounting kit, 3 meters long                  |
|                |                  |                 |                 |                   | PDM2-CMK5 = Cable-mounting kit, 5 meters long                  |
|                |                  |                 |                 |                   | KTAT-250-480-277/A = 347/480V to 277V transformer, 250W        |
|                |                  |                 |                 |                   | KTAT-375-480-277/A = 347/480V to 277V transformer, 375W        |
|                |                  |                 |                 |                   | BLPSDTX-COVER = Transformer cover box                          |

### ELECTRICAL DATA

| Model          | Color Temp. | CRI <sup>1</sup> | Luminaire Lumens | Luminaire Watts | Lumens/Watt | Input Voltage <sup>2</sup> | Input Current (A) |      |      | Power Factor | THD <sup>3</sup> | L <sub>70</sub> Hours <sup>4</sup> |
|----------------|-------------|------------------|------------------|-----------------|-------------|----------------------------|-------------------|------|------|--------------|------------------|------------------------------------|
|                |             |                  |                  |                 |             |                            | 120V              | 240V | 277V |              |                  |                                    |
| PDM290-4K-DIM  | 4000k       | >80              | 12,193           | 87              | 140         | 120-277                    | 0.73              | 0.36 | 0.31 | >90%         | <20%             | 122,000                            |
| PDM290-5K-DIM  | 5000k       | >80              | 12,394           | 87              | 142         | 120-277                    | 0.73              | 0.36 | 0.31 | >90%         | <20%             | 122,000                            |
| PDM2135-4K-DIM | 4000k       | >80              | 18,401           | 132             | 139         | 120-277                    | 1.10              | 0.55 | 0.48 | >90%         | <20%             | 122,000                            |
| PDM2135-5K-DIM | 5000k       | >80              | 18,564           | 132             | 141         | 120-277                    | 1.10              | 0.55 | 0.48 | >90%         | <20%             | 122,000                            |
| PDM2180-4K-DIM | 4000k       | >80              | 24,457           | 175             | 140         | 120-277                    | 1.46              | 0.73 | 0.63 | >90%         | <20%             | 122,000                            |
| PDM2180-5K-DIM | 5000k       | >80              | 24,603           | 175             | 141         | 120-277                    | 1.46              | 0.73 | 0.63 | >90%         | <20%             | 122,000                            |
| PDM2215-4K-DIM | 4000k       | >80              | 29,929           | 213             | 141         | 120-277                    | 1.78              | 0.89 | 0.77 | >90%         | <20%             | 122,000                            |
| PDM2215-5K-DIM | 5000k       | >80              | 30,356           | 213             | 143         | 120-277                    | 1.78              | 0.89 | 0.77 | >90%         | <20%             | 122,000                            |
| PDM2265-4K-DIM | 4000k       | >80              | 37,590           | 267             | 141         | 120-277                    | 2.23              | 1.11 | 0.96 | >90%         | <20%             | 122,000                            |
| PDM2265-5K-DIM | 5000k       | >80              | 37,996           | 267             | 142         | 120-277                    | 2.23              | 1.11 | 0.96 | >90%         | <20%             | 122,000                            |
| PDM2320-4K-DIM | 4000k       | >80              | 44,235           | 320             | 138         | 120-277                    | 2.67              | 1.33 | 1.16 | >90%         | <20%             | 122,000                            |
| PDM2320-5K-DIM | 5000k       | >80              | 44,460           | 320             | 139         | 120-277                    | 2.67              | 1.33 | 1.16 | >90%         | <20%             | 122,000                            |
| PDM2425-4K-DIM | 4000k       | >80              | 59,278           | 428             | 139         | 120-277                    | 3.57              | 1.78 | 1.55 | >90%         | <20%             | 122,000                            |
| PDM2425-5K-DIM | 5000k       | >80              | 60,629           | 428             | 142         | 120-277                    | 3.57              | 1.78 | 1.55 | >90%         | <20%             | 122,000                            |

<sup>1</sup> Color rendering index.

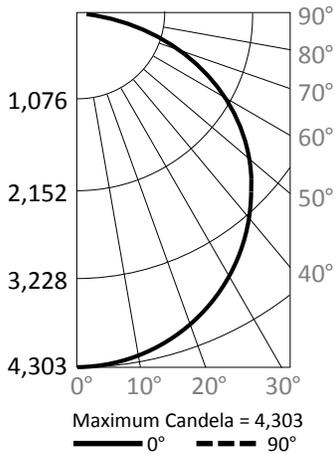
<sup>2</sup> All 50-60Hz.

<sup>3</sup> Total harmonic distortion.

<sup>4</sup> L<sub>70</sub> refers to the number of hours at which lumen output declines to 70% of the initial level. L<sub>70</sub> hours are IES TM-21-11 calculated hours.

### PHOTOMETRIC DATA

#### PDM290-5K-DIM (12,394 Lumens)



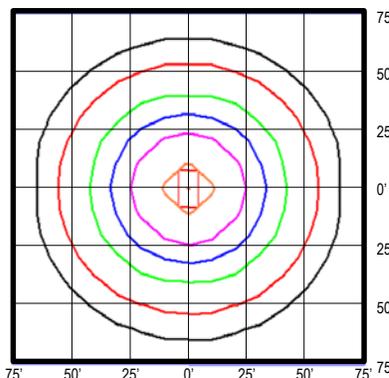
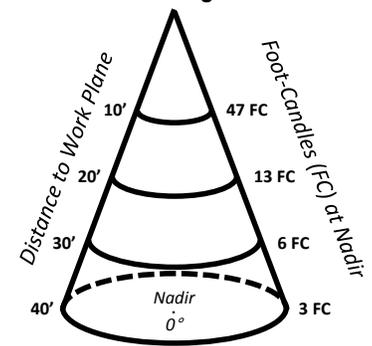
#### Candlepower Summary

|     | 0°    | 90°   |
|-----|-------|-------|
| 0°  | 4,303 | 4,303 |
| 10° | 4,274 | 4,302 |
| 20° | 4,110 | 4,154 |
| 30° | 3,767 | 3,822 |
| 40° | 3,305 | 3,385 |
| 50° | 2,713 | 2,841 |
| 60° | 1,987 | 2,179 |
| 70° | 1,176 | 1,045 |
| 80° | 385   | 268   |
| 90° | 0     | 0     |

#### Zonal Lumen Summary

| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 406    | 3.3%      |
| 0° - 20°   | 1,582  | 12.8%     |
| 0° - 30°   | 3,397  | 27.4%     |
| 0° - 40°   | 5,614  | 45.3%     |
| 0° - 50°   | 7,947  | 64.1%     |
| 0° - 60°   | 10,069 | 81.2%     |
| 0° - 70°   | 11,644 | 94.0%     |
| 0° - 80°   | 12,313 | 99.3%     |
| 0° - 90°   | 12,394 | 100.0%    |
| 90° - 180° | 0      | 0.0%      |
| 0° - 180°  | 12,394 | 100.0%    |

#### Cone of Light



#### Foot Candles

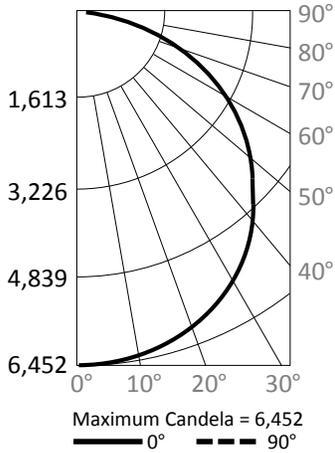
- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

## PHOTOMETRIC DATA

### PDM2135-5K-DIM (18,564 Lumens)

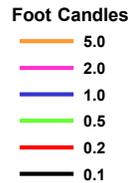
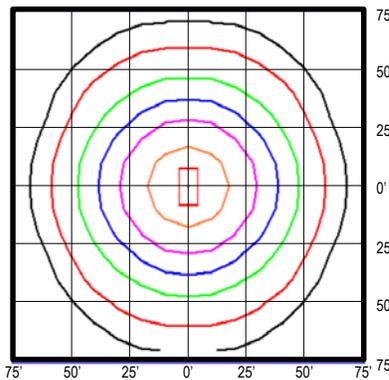
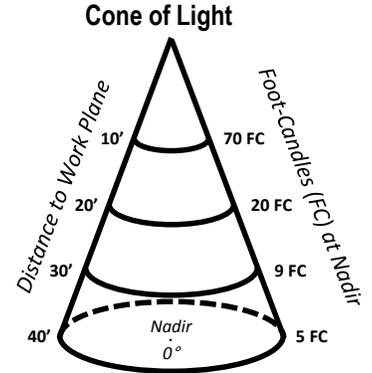


#### Candlepower Summary

|     | 0°    | 90°   |
|-----|-------|-------|
| 0°  | 6,452 | 6,452 |
| 10° | 6,398 | 6,438 |
| 20° | 6,143 | 6,215 |
| 30° | 5,642 | 5,845 |
| 40° | 4,948 | 5,133 |
| 50° | 4,066 | 4,265 |
| 60° | 3,003 | 3,257 |
| 70° | 1,772 | 1,305 |
| 80° | 580   | 300   |
| 90° | 0     | 0     |

#### Zonal Lumen Summary

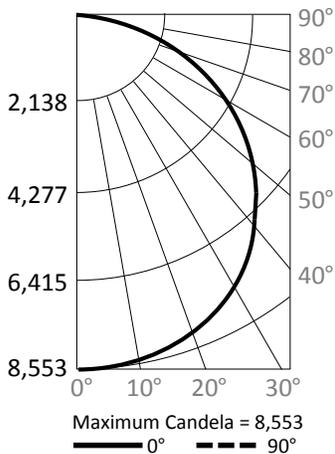
| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 610    | 3.3%      |
| 0° - 20°   | 2,377  | 12.8%     |
| 0° - 30°   | 5,110  | 27.5%     |
| 0° - 40°   | 8,470  | 45.6%     |
| 0° - 50°   | 11,998 | 64.6%     |
| 0° - 60°   | 15,214 | 82.0%     |
| 0° - 70°   | 17,465 | 94.1%     |
| 0° - 80°   | 18,441 | 99.3%     |
| 0° - 90°   | 18,564 | 100.0%    |
| 90° - 180° | 0      | 0.0%      |
| 0° - 180°  | 18,564 | 100.0%    |



#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

### PDM2180-5K-DIM (24,603 Lumens)

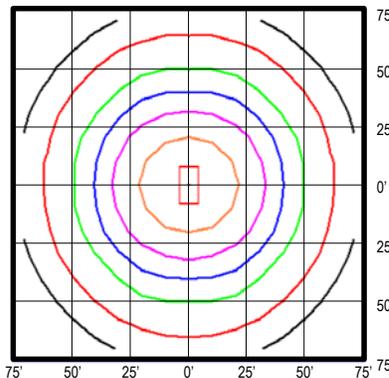
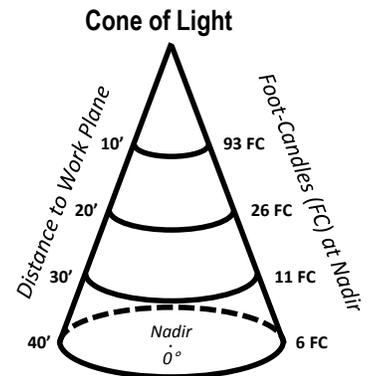


#### Candlepower Summary

|     | 0°    | 90°   |
|-----|-------|-------|
| 0°  | 8,553 | 8,553 |
| 10° | 8,487 | 8,480 |
| 20° | 8,173 | 8,255 |
| 30° | 7,487 | 7,759 |
| 40° | 6,581 | 6,870 |
| 50° | 5,425 | 5,678 |
| 60° | 3,993 | 3,802 |
| 70° | 2,383 | 2,084 |
| 80° | 808   | 346   |
| 90° | 0     | 0     |

#### Zonal Lumen Summary

| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 809    | 3.3%      |
| 0° - 20°   | 3,155  | 12.8%     |
| 0° - 30°   | 6,787  | 27.6%     |
| 0° - 40°   | 11,259 | 45.8%     |
| 0° - 50°   | 15,964 | 64.9%     |
| 0° - 60°   | 20,185 | 82.0%     |
| 0° - 70°   | 23,093 | 93.9%     |
| 0° - 80°   | 24,441 | 99.3%     |
| 0° - 90°   | 24,603 | 100.0%    |
| 90° - 180° | 0      | 0.0%      |
| 0° - 180°  | 24,603 | 100.0%    |

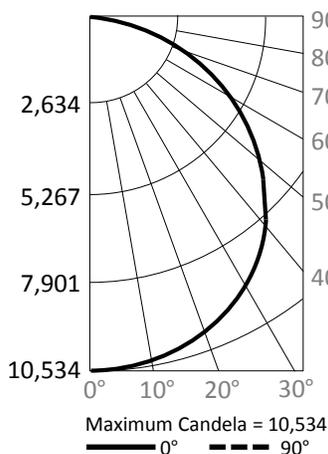


#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

## PHOTOMETRIC DATA

### PDM2215-5K-DIM (30,356 Lumens)

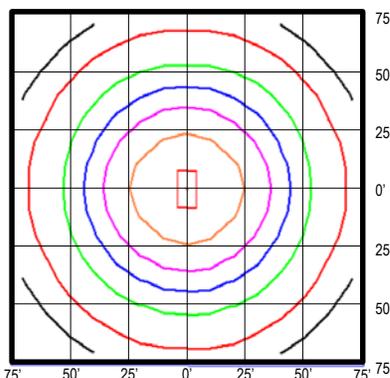
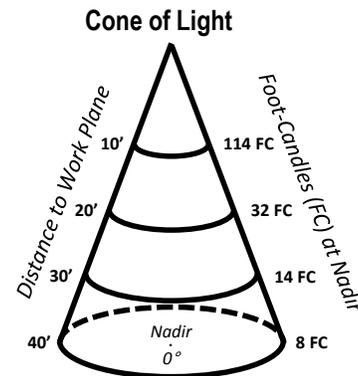


#### Candlepower Summary

|     | 0°     | 90°    |
|-----|--------|--------|
| 0°  | 10,534 | 10,534 |
| 10° | 10,446 | 10,436 |
| 20° | 10,036 | 10,119 |
| 30° | 9,191  | 9,493  |
| 40° | 8,048  | 8,416  |
| 50° | 6,605  | 7,015  |
| 60° | 4,857  | 4,897  |
| 70° | 2,885  | 2,838  |
| 80° | 972    | 560    |
| 90° | 0      | 0      |

#### Zonal Lumen Summary

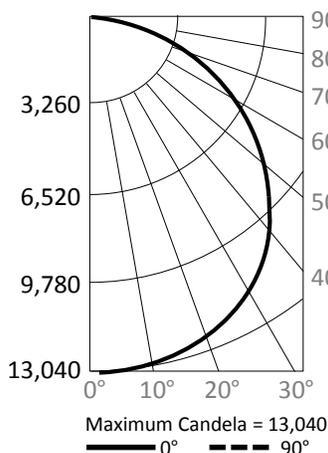
| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 993    | 3.3%      |
| 0° - 20°   | 3,870  | 12.7%     |
| 0° - 30°   | 8,310  | 27.4%     |
| 0° - 40°   | 13,770 | 45.4%     |
| 0° - 50°   | 19,513 | 64.3%     |
| 0° - 60°   | 24,683 | 81.3%     |
| 0° - 70°   | 28,355 | 93.4%     |
| 0° - 80°   | 30,118 | 99.2%     |
| 0° - 90°   | 30,356 | 100.0%    |
| 90° - 180° | 0      | 0.0%      |
| 0° - 180°  | 30,356 | 100.0%    |



#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

### PDM2265-5K-DIM (37,996 Lumens)

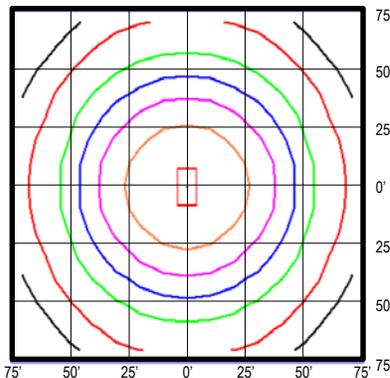
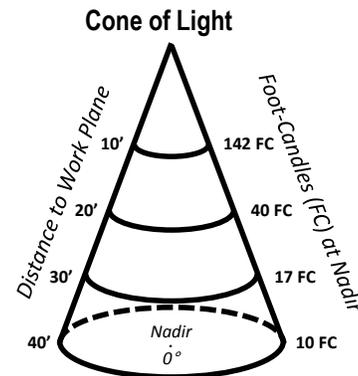


#### Candlepower Summary

|     | 0°     | 90°    |
|-----|--------|--------|
| 0°  | 13,040 | 13,040 |
| 10° | 12,940 | 12,943 |
| 20° | 12,450 | 12,545 |
| 30° | 11,488 | 11,728 |
| 40° | 10,159 | 10,193 |
| 50° | 8,449  | 8,458  |
| 60° | 6,305  | 5,687  |
| 70° | 3,864  | 2,705  |
| 80° | 1,376  | 592    |
| 90° | 0      | 0      |

#### Zonal Lumen Summary

| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 1,234  | 3.2%      |
| 0° - 20°   | 4,813  | 12.7%     |
| 0° - 30°   | 10,349 | 27.2%     |
| 0° - 40°   | 17,160 | 45.2%     |
| 0° - 50°   | 24,351 | 64.1%     |
| 0° - 60°   | 30,907 | 81.3%     |
| 0° - 70°   | 35,544 | 93.5%     |
| 0° - 80°   | 37,692 | 99.2%     |
| 0° - 90°   | 37,991 | 100.0%    |
| 90° - 180° | 5      | 0.0%      |
| 0° - 180°  | 37,996 | 100.0%    |

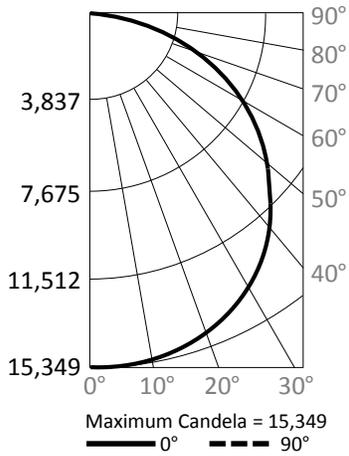


#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

## PHOTOMETRIC DATA

### PDM2320-5K-DIM (44,460 Lumens)

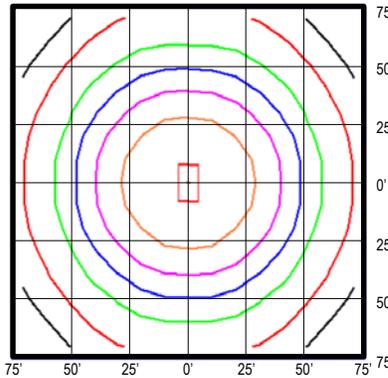
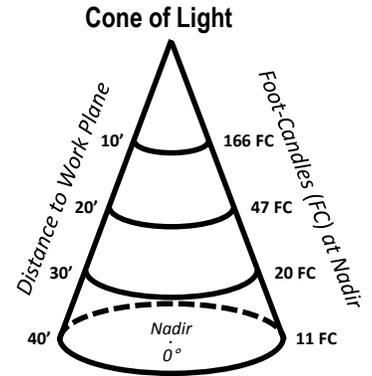


#### Candlepower Summary

|     | 0°     | 90°    |
|-----|--------|--------|
| 0°  | 15,349 | 15,349 |
| 10° | 15,202 | 15,293 |
| 20° | 14,607 | 14,738 |
| 30° | 13,474 | 13,773 |
| 40° | 11,901 | 12,003 |
| 50° | 9,818  | 10,013 |
| 60° | 7,312  | 6,602  |
| 70° | 4,456  | 3,264  |
| 80° | 1,578  | 701    |
| 90° | 0      | 0      |

#### Zonal Lumen Summary

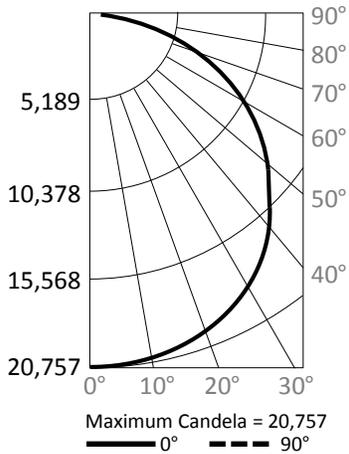
| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 1,453  | 3.3%      |
| 0° - 20°   | 5,665  | 12.7%     |
| 0° - 30°   | 12,168 | 27.4%     |
| 0° - 40°   | 20,153 | 45.3%     |
| 0° - 50°   | 28,564 | 64.2%     |
| 0° - 60°   | 36,216 | 81.5%     |
| 0° - 70°   | 41,604 | 93.6%     |
| 0° - 80°   | 44,106 | 99.2%     |
| 0° - 90°   | 44,456 | 100.0%    |
| 90° - 180° | 4      | 0.0%      |
| 0° - 180°  | 44,460 | 100.0%    |



#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

### PDM2425-5K-DIM (60,629 Lumens)

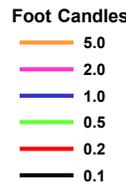
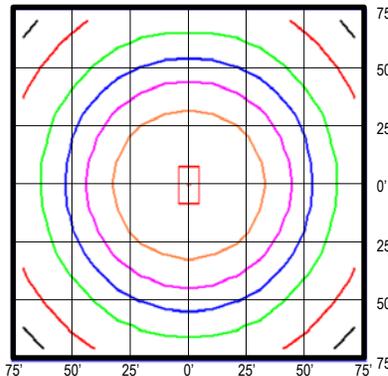
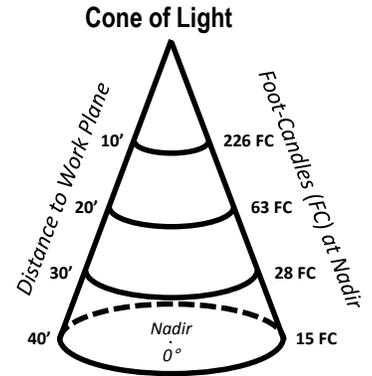


#### Candlepower Summary

|     | 0°     | 90°    |
|-----|--------|--------|
| 0°  | 20,757 | 20,757 |
| 10° | 20,548 | 20,583 |
| 20° | 19,742 | 19,889 |
| 30° | 18,239 | 18,567 |
| 40° | 16,086 | 16,566 |
| 50° | 13,307 | 13,877 |
| 60° | 9,917  | 9,531  |
| 70° | 5,987  | 5,317  |
| 80° | 2,089  | 1,138  |
| 90° | 0      | 30     |

#### Zonal Lumen Summary

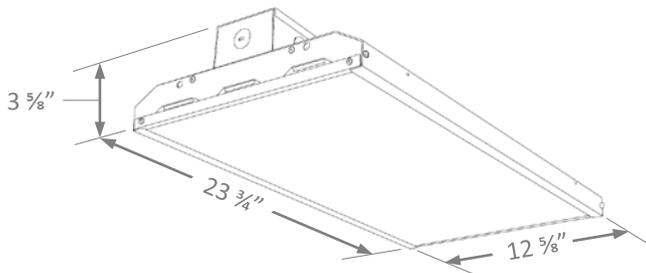
| Zone       | Lumens | % Fixture |
|------------|--------|-----------|
| 0° - 10°   | 1,962  | 3.2%      |
| 0° - 20°   | 7,645  | 12.6%     |
| 0° - 30°   | 16,413 | 27.1%     |
| 0° - 40°   | 27,217 | 44.9%     |
| 0° - 50°   | 38,652 | 63.8%     |
| 0° - 60°   | 49,008 | 80.8%     |
| 0° - 70°   | 56,412 | 93.0%     |
| 0° - 80°   | 60,036 | 99.0%     |
| 0° - 90°   | 60,600 | 100.0%    |
| 90° - 180° | 29     | 0.0%      |
| 0° - 180°  | 60,629 | 100.0%    |



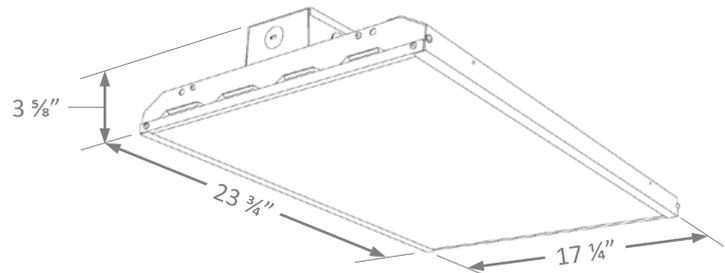
#### Notes:

- Isofootcandle plots depict initial foot-candles at grade.
- Gridlines represent units of mounting height of 25 feet.

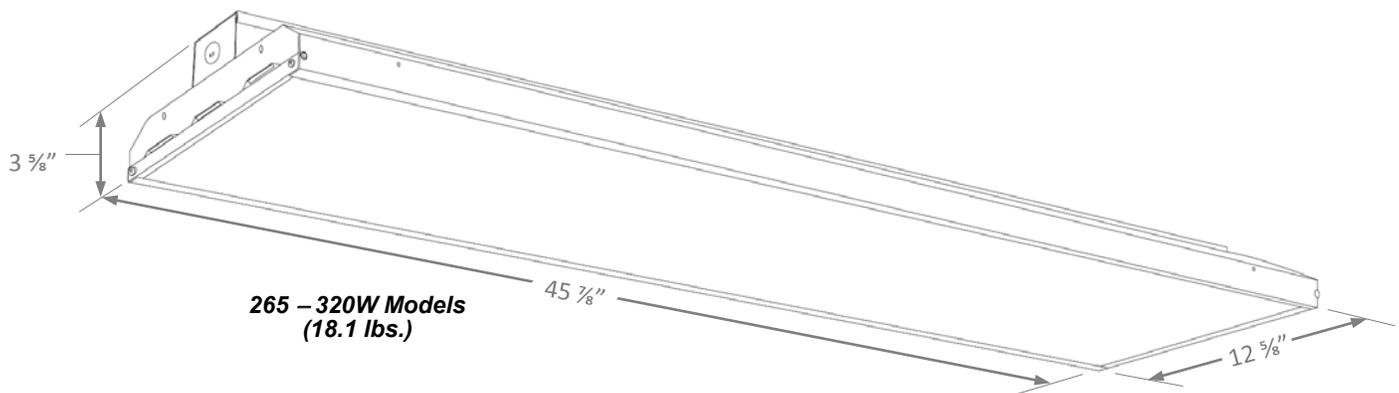
### DIMENSIONS



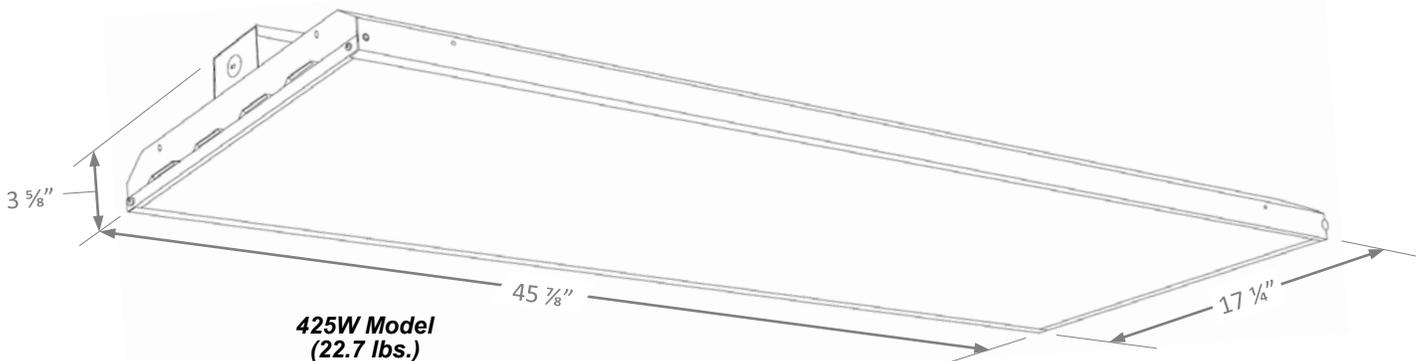
**90 – 180W Models**  
(9.9 – 11.0 lbs.)



**215W Model**  
(14.0 lbs.)



**265 – 320W Models**  
(18.1 lbs.)



**425W Model**  
(22.7 lbs.)

### TRANSFORMER COVER BOX

- Attach transformer to cover box.
- Make wiring connections.
- Attach transformer cover box assembly to luminaire driver enclosure.

