ADVANTAGE ENVIRONMENTAL LIGHTING

| | |
|---|---|
| CATALOG #: | |
| PROJECT: | |
| TYPE: | |

# AEHBR HIGHBAY ROUND LED LIGHT

***STANDARD***

c UL us | FC | WET | 4kV Surge Protection | IP66

## FEATURES

- *Available in 4000k (neutral white) and 5000k (cool white) color temperatures.**
- *Long-life LEDs provide 174,000 hours of operation with at least 70% of initial lumen output ($L_{70}$).***
- *Provides a range of 14,000 to 34,000 nominal lumens.**
- *Universal 120-277 AC voltage (50-60Hz) and 6-foot incoming AC power cords are standard.*
- *0-10vdc dimming drivers are standard.*
- *Watertight, compression-type electrical connectors.*
- *Mounting options include suspension from pre-installed mounting hook, yoke mounting, snap hook, and attachment to electrical conduit.*
- *Glass lens.*
- *Power factor ≥ 0.90.*
- *Total harmonic distortion ≤ 20%.*
- *Color rendering index ≥ 80.*
- *Die cast aluminum housing, painted black.*
- *Easy installation in new construction or retrofit.*

** Contact factory for other color temperatures and lumen packages.*
*** $L_{70}$ hours are IES TM-21-11 calculated hours.*

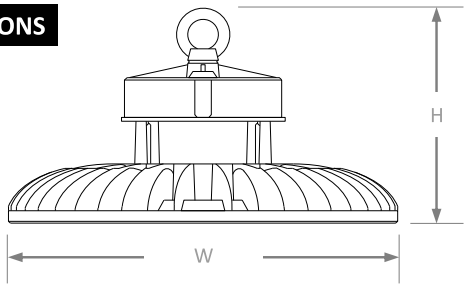
## WARRANTY & LISTINGS

- *cULus listed for wet locations in ambient temperatures from - 30°C to 50°C (-22°F to 122°F).*
- *DLC approved.*
- *IP66 rated for ingress protection.*
- *Complies with FCC Part 15, Class B.*
- *Complies with EN61000-4-5, surge immunity protection (4kV).*
- *5-year warranty of all electronics and housing.*

## MOUNTING OPTIONS

- *Suspension from pre-installed mounting eyebolt with locking set screw is standard.*
- *Ceiling-mounted installation (using optional yoke mounting bracket, provides up to 180° of adjustability.*
- *Two ways to mount luminaire to electrical conduit:*
  - *Attach conduit (½" NPS) to optional yoke mounting bracket.*
  - *Optional pendant snap hook*

## DIMENSIONS




| Model | Diameter | Height | Weight |
|---|---|---|---|
| 14L & 21L | 11.7" | 7.3" | 6.8 lbs. |
| 28L & 34L | 14.2" | 8.5" | 11.2 lbs. |

## ORDERING INFORMATION

**Example:**

| Model | Lumen Output | | Color Temperature | | Mounting Accessories (Order Separately) | |
|---|---|---|---|---|---|---|
| AEHBR | 14L | 14,000 | 4K | 4000k | PSH | Pendant snap hook |
| | 21L | 21,000 | 5K | 5000k | YB1 | Yoke mount bracket (14L & 21L |
| | 28L | 28,000 | | | YB2 | Yoke mount bracket (28L & 34L |
| | 34L | 34,000 | | | | |

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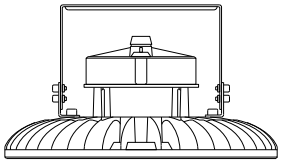
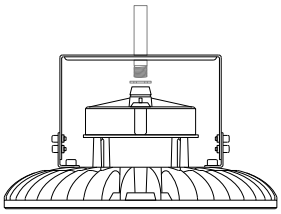
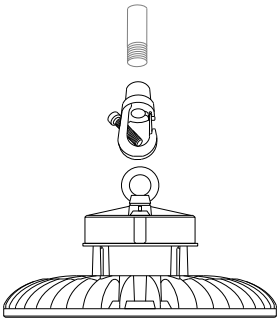
## MOUNTING OPTIONS



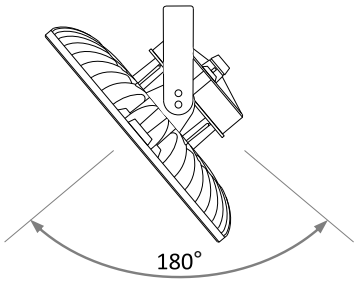
Ceiling-Mounted



½" Conduit-Mounted



¾" Conduit-Mounted




Adjustable

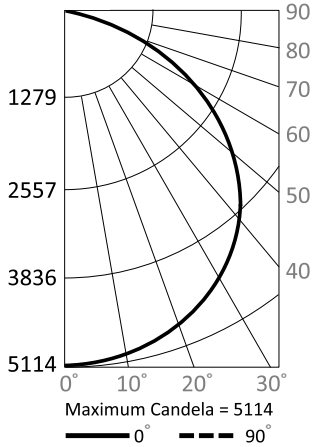
## ELECTRICAL DATA

| Model | Color Temperature | CRI [1] | Luminaire Lumens | Luminaire Watts | Lumens/ Watt | Input Voltage[2] | Input Current (A) | | | Power Factor | THD [3] | $L_{70}$ Hours[4] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 120V | 240V | 277V | | | |
| AEHBR 14L 4K | 4000k | >80 | 14,497 | 102 | 142 | 120-277 | 0.85 | 0.43 | 0.37 | >0.90 | <20% | 174,000 |
| AEHBR 14L 5K | 5000k | >80 | 14,864 | 102 | 146 | 120-277 | 0.85 | 0.43 | 0.37 | >0.90 | <20% | 174,000 |
| AEHBR 21L 4K | 4000k | >80 | 20,859 | 150 | 139 | 120-277 | 1.25 | 0.63 | 0.54 | >0.90 | <20% | 174,000 |
| AEHBR 21L 5K | 5000k | >80 | 21,406 | 150 | 142 | 120-277 | 1.25 | 0.63 | 0.54 | >0.90 | <20% | 174,000 |
| AEHBR 28L 4K | 4000k | >80 | 28,341 | 200 | 141 | 120-277 | 1.67 | 0.83 | 0.72 | >0.90 | <20% | 174,000 |
| AEHBR 28L 5K | 5000k | >80 | 28,948 | 200 | 145 | 120-277 | 1.67 | 0.83 | 0.72 | >0.90 | <20% | 174,000 |
| AEHBR 34L 4K | 4000k | >80 | 33,552 | 241 | 139 | 120-277 | 2.00 | 1.00 | 0.87 | >0.90 | <20% | 174,000 |
| AEHBR 34L 5K | 5000k | >80 | 34,240 | 241 | 142 | 120-277 | 2.00 | 1.00 | 0.87 | >0.90 | <20% | 174,000 |

*[1] Color rendering index.*
*[2] All 50-60Hz.*
*[3] Total harmonic distortion.*
*[4] $L_{70}$ refers to the number of hours at which lumen output declines to 70% of the initial level. $L_{70}$ hours are IES TM-21-11 calculated hours.*

## PHOTOMETRIC DATA

AEHBR 14L 4K (14,497 Lumens)



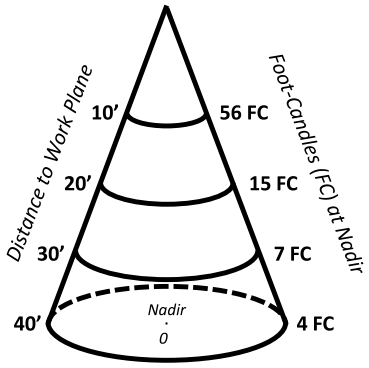

### Candlepower Summary

| Degrees | 0 | 90 |
|---|---|---|
| 0 | 5,114 | 5,114 |
| 10 | 5,019 | 5,004 |
| 20 | 4,789 | 4,783 |
| 30 | 4,410 | 4,404 |
| 40 | 3,864 | 3,855 |
| 50 | 3,154 | 3,144 |
| 60 | 2,224 | 2,194 |
| 70 | 1,172 | 1,145 |
| 80 | 279 | 252 |
| 90 | 12 | 24 |

### Zonal Lumen Summary

| Zone | | Lumens | % Fixture |
|---|---|---|---|
| 0 | 10 | 483 | 3.3% |
| 0 | 20 | 1,873 | 12.9% |
| 0 | 30 | 4,007 | 27.6% |
| 0 | 40 | 6,620 | 45.7% |
| 0 | 50 | 9,364 | 64.6% |
| 0 | 60 | 11,823 | 81.6% |
| 0 | 70 | 13,529 | 93.3% |
| 0 | 80 | 14,281 | 98.5% |
| 0 | 90 | 14,380 | 99.2% |
| 90 | 180 | 117 | 0.8% |
| 0 | 180 | 14,497 | 100.0% |

### Cone of Light



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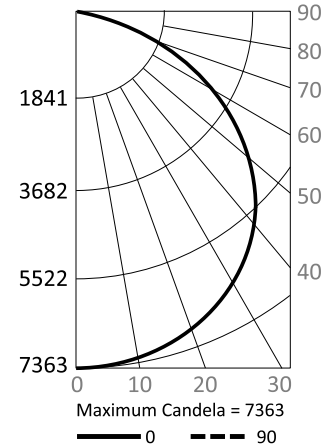
## PHOTOMETRIC DATA

### AEHBR 21L 4K (20,859 Lumens)



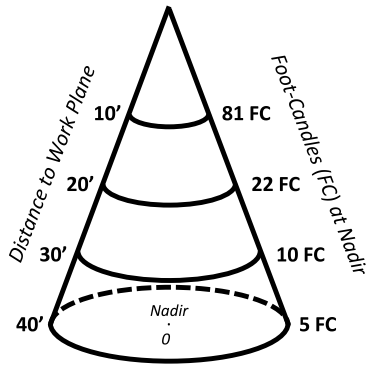

**Candlepower Summary**

| Degrees | 0 | 90 |
|---|---|---|
| 0 | 7,363 | 7,363 |
| 10 | 7,219 | 7,225 |
| 20 | 6,907 | 6,916 |
| 30 | 6,381 | 6,368 |
| 40 | 5,589 | 5,593 |
| 50 | 4,602 | 4,549 |
| 60 | 3,296 | 3,198 |
| 70 | 1,781 | 1,684 |
| 80 | 451 | 371 |
| 90 | 18 | 0 |

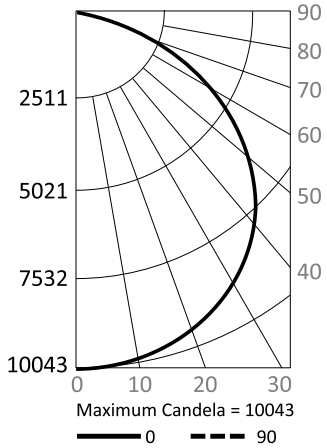
**Zonal Lumen Summary**

| Zone | | Lumens | % Fixture |
|---|---|---|---|
| 0 | 10 | 695 | 3.3% |
| 0 | 20 | 2698 | 12.9% |
| 0 | 30 | 5773 | 27.7% |
| 0 | 40 | 9536 | 45.7% |
| 0 | 50 | 13487 | 64.7% |
| 0 | 60 | 17028 | 81.6% |
| 0 | 70 | 19503 | 93.5% |
| 0 | 80 | 20610 | 98.8% |
| 0 | 90 | 20752 | 99.5% |
| 90 | 180 | 107 | 0.5% |
| **0** | **180** | **20,859** | **100.0%** |

**Cone of Light**




### AEHBR 28L 4K (28,341 Lumens)



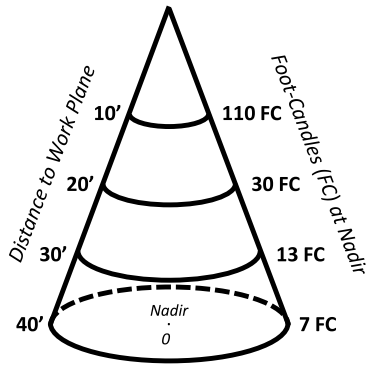

**Candlepower Summary**

| Degrees | 0 | 90 |
|---|---|---|
| 0 | 10,043 | 10,043 |
| 10 | 9,870 | 9,880 |
| 20 | 9,435 | 9,460 |
| 30 | 8,709 | 8,707 |
| 40 | 7,644 | 7,650 |
| 50 | 6,259 | 6,275 |
| 60 | 4,528 | 4,532 |
| 70 | 2,523 | 2,514 |
| 80 | 670 | 634 |
| 90 | 18 | 6 |

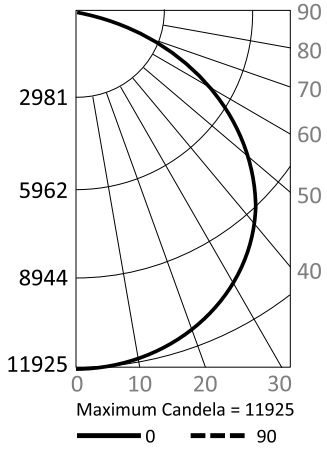
**Zonal Lumen Summary**

| Zone | | Lumens | % Fixture |
|---|---|---|---|
| 0 | 10 | 948 | 3.3% |
| 0 | 20 | 3,679 | 13.0% |
| 0 | 30 | 7,864 | 27.7% |
| 0 | 40 | 12,973 | 45.8% |
| 0 | 50 | 18,320 | 64.6% |
| 0 | 60 | 23,099 | 81.5% |
| 0 | 70 | 26,503 | 93.5% |
| 0 | 80 | 28,029 | 98.9% |
| 0 | 90 | 28,232 | 99.6% |
| 90 | 180 | 109 | 0.4% |
| **0** | **180** | **28,341** | **100.0%** |

**Cone of Light**




### AEHBR 34L 4K (33,552 Lumens)



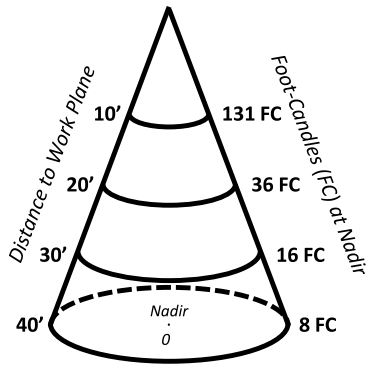

**Candlepower Summary**

| Degrees | 0 | 90 |
|---|---|---|
| 0 | 11,925 | 11,925 |
| 10 | 11,721 | 11,719 |
| 20 | 11,195 | 11,183 |
| 30 | 10,281 | 10,253 |
| 40 | 8,994 | 8,978 |
| 50 | 7,304 | 7,263 |
| 60 | 5,236 | 5,143 |
| 70 | 2,884 | 2,764 |
| 80 | 775 | 680 |
| 90 | 22 | 9 |

**Zonal Lumen Summary**

| Zone | | Lumens | % Fixture |
|---|---|---|---|
| 0 | 10 | 1,125 | 3.4% |
| 0 | 20 | 4,366 | 13.0% |
| 0 | 30 | 9,328 | 27.8% |
| 0 | 40 | 15,377 | 45.8% |
| 0 | 50 | 21,693 | 64.7% |
| 0 | 60 | 27,322 | 81.4% |
| 0 | 70 | 31,330 | 93.4% |
| 0 | 80 | 33,156 | 98.8% |
| 0 | 90 | 33,417 | 99.6% |
| 90 | 180 | 135 | 0.4% |
| **0** | **180** | **33,552** | **100.0%** |

**Cone of Light**



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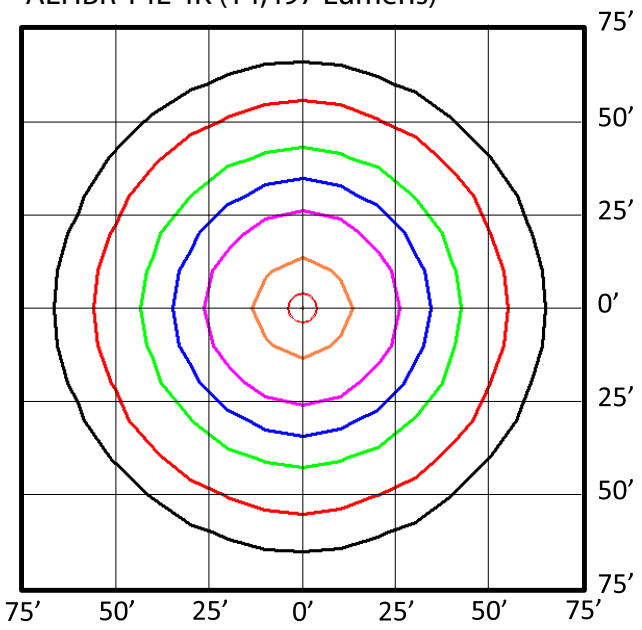
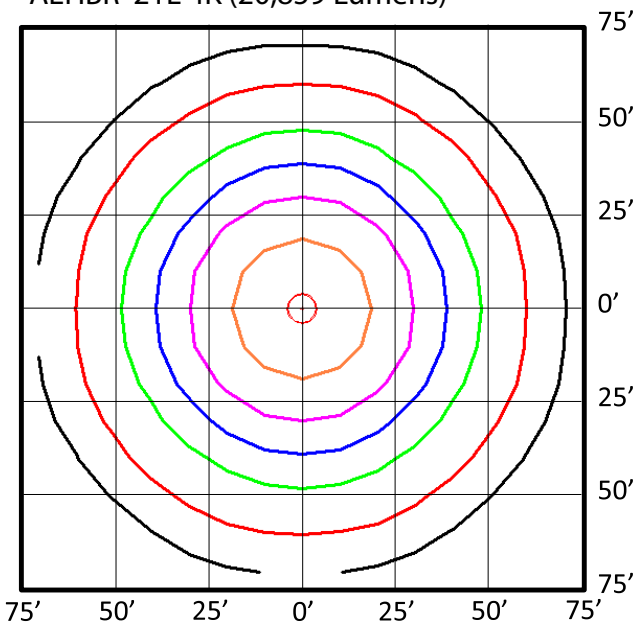
## PHOTOMETRIC DATA

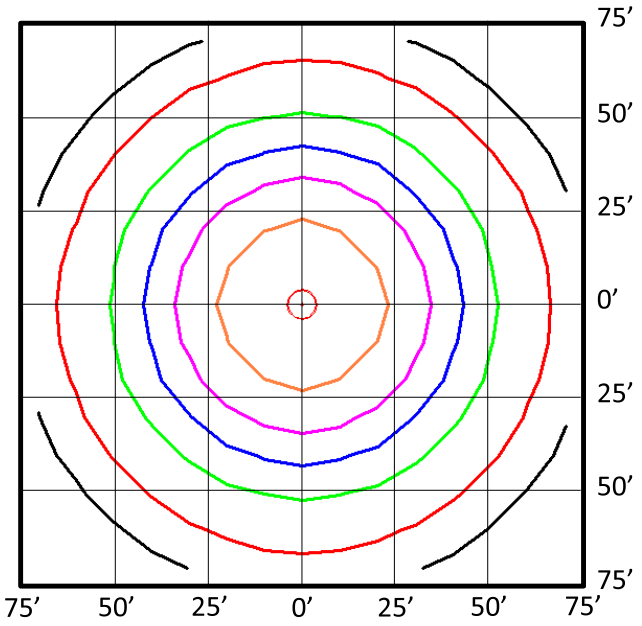
AEHBR 14L 4K (14,497 Lumens)



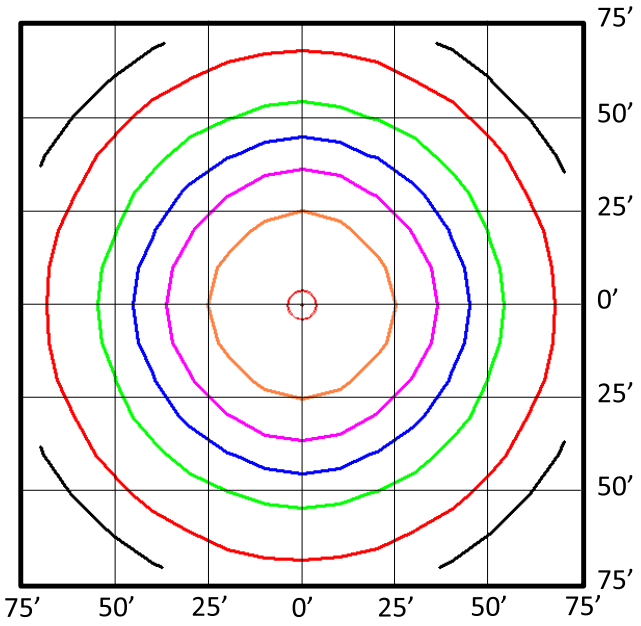

AEHBR 21L 4K (20,859 Lumens)




AEHBR 28L 4K (28,341 Lumens)




AEHBR 34L 4K (33,552 Lumens)




**Foot Candles**

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

**Notes:**

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