

Vigilant[®] Ultra-Efficient LED High Bay

Technical Specification Sheet - CE

Vigilant® Ultra-Efficient LED High Bay - CE

Technical Information



Corded Model



Mechanical Information:

Fixture weight:
8.2 kg (18 lbs)

Shipping weight:
10.9 kg (24 lbs)

Mounting:
Stainless Steel Hook

Power Cord:
3 meters, H07RN-F or H07BN4-F Heavy Duty

Prefix: VEE

Integrated Wiring Box



Mechanical Information:

Fixture weight:
9.1 kg (20 lbs)

Shipping weight:
11.8 kg (26 lbs)

Mounting:
Various Kits (see page 9)

Wiring Box Cable Entries:
M25 x 3

Terminals:
0.5-4mm² x 3

Prefix: VWE

| Comparison | | |
|-----------------------|----------|----------|
| | Warranty | L70 |
| Dialight LED High Bay | 10yr | >150,000 |
| Metal Halide | 1 | 15,000 |
| High Pressure Sodium | 1 | 20,000 |

Certifications & Ratings:

| | |
|--|--|
| EN 60598-1:2015, IEC 60598-1:2014 | IK10 to EN 50102 (Polycarbonate lens) |
| EN 60598-2-1:1989, IEC 60598-2-1:2020 | IK06 to EN 50102 (Acrylic lens) |
| IEC60068 | IK05 to EN 50102 (Glass lens) |
| Salt spray testing - severity 1 | D-Marking to EN 60598 2-24 |
| IP66 to EN 60529 | L70 >150,000 hours @ 25°C ambient |

Variable Dimming as Standard:

Variable Dimming Control: DALI 1.0 and 2.0 compatible
0-10 VDC

Dimming Range: 10 VDC = 100% light output
0 VDC = <10% light output

Electrical Specifications:

Operating Voltage: 100-277 VAC
120-250 VDC

Total system power consumption: See table

Operating Temp: -40°C to +65°C

Harmonics: IEC 61000-3-2

Noise requirement /EMC: EN 61547: 2009
Radiated and Conducted Emissions: EN 55015

EMC Immunity: EN 61547: 2009

Transient protection: 100-277 VAC models tested to withstand up to 8kV/4kA per IEEE C62.41.
347-480 VAC models tested to withstand up to 6kV/3kA per IEEE C62.41

THD: < 20%

Power Factor: > 0.9

Construction:

Housing: Copper-free aluminium

Finish: Superior dual coat finish
-Sealed polyester topcoat
-Chemical-resistant epoxy primer

Lens: See table

Screws: Stainless steel 316

Photometric Information:

CRI: 80, 70

CCT: 5000K (cool white)
4000K (neutral white)

All values typical unless otherwise stated (tolerance +/- 10%)

WARNING: INSTALLATION & SECONDARY RETENTION: The use of this product without proper installation and inspections, including secondary safety retention/securing, could cause severe injury or death. Dialight recommends that all installations should use secondary retention (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end customer to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is installed safely (with secondary retention where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under the relevant law, Dialight disclaims all responsibility for personal injury and/or other damage resulting from any dislodgement or other dislocation of this product.

Vigilant® Ultra-Efficient LED High Bay - CE

Ordering Information



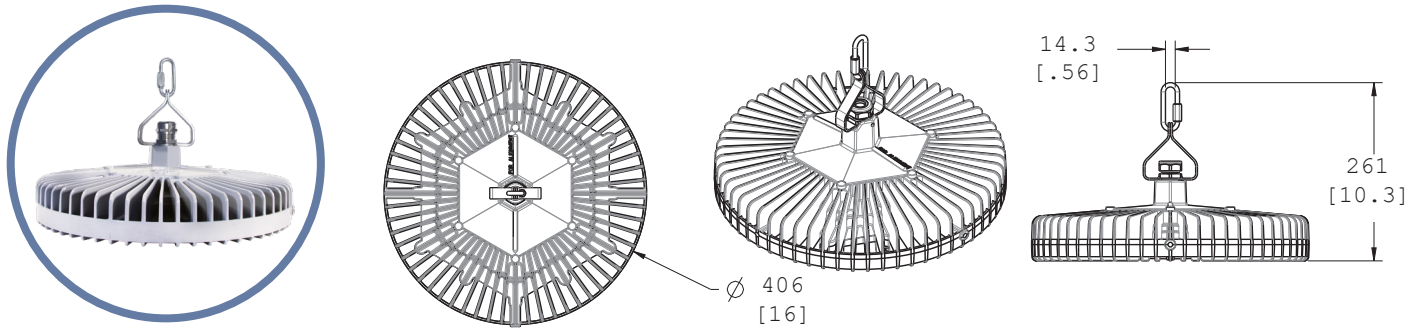
| Standard Model with 3 Meter Cable & Hook Mount | | | | | | | | |
|---|--------|---------|------|-------|-----|-------|-------------------|----------|
| Part Number | Lumens | Wattage | lm/W | CCT | CRI | Lens | Beam Distribution | Controls |
| VEE-7WC2-JNHW-NGN | 38,200 | 230 | 166 | 5000K | 80 | Glass | Wide | |
| VEE-7MC2-JNHW-NGN | 37,400 | 230 | 163 | 5000K | 80 | Glass | Medium | |
| VEE-7WC2-HNHW-NGN | 33,000 | 195 | 169 | 5000K | 80 | Glass | Wide | |
| VEE-7MC2-HNHW-NGN | 32,300 | 195 | 166 | 5000K | 80 | Glass | Medium | |
| VEE-7WC2-FNHW-NGN | 28,600 | 165 | 173 | 5000K | 80 | Glass | Wide | |
| VEE-7MC2-FNHW-NGN | 28,000 | 165 | 170 | 5000K | 80 | Glass | Medium | |
| Integrated Wiring Box - Standard with HBXW3 Bracket | | | | | | | | |
| VWE-7WC2-JAAW-NGN | 38,200 | 230 | 166 | 5000K | 80 | Glass | Wide | DALI* |
| VWE-7MC2-JAAW-NGN | 37,400 | 230 | 163 | 5000K | 80 | Glass | Medium | DALI* |
| VWE7-WC2-HAAW-NGN | 33,000 | 195 | 169 | 5000K | 80 | Glass | Wide | DALI* |
| VWE-7MC2-HAAW-NGN | 32,300 | 195 | 166 | 5000K | 80 | Glass | Medium | DALI* |
| VWE-7WC2-FAAW-NGN | 28,600 | 165 | 173 | 5000K | 80 | Glass | Wide | DALI* |
| VWE-7MC2-FAAW-NGN | 28,000 | 165 | 170 | 5000K | 80 | Glass | Medium | DALI* |

All values typical unless otherwise stated (tolerance +/- 10%)

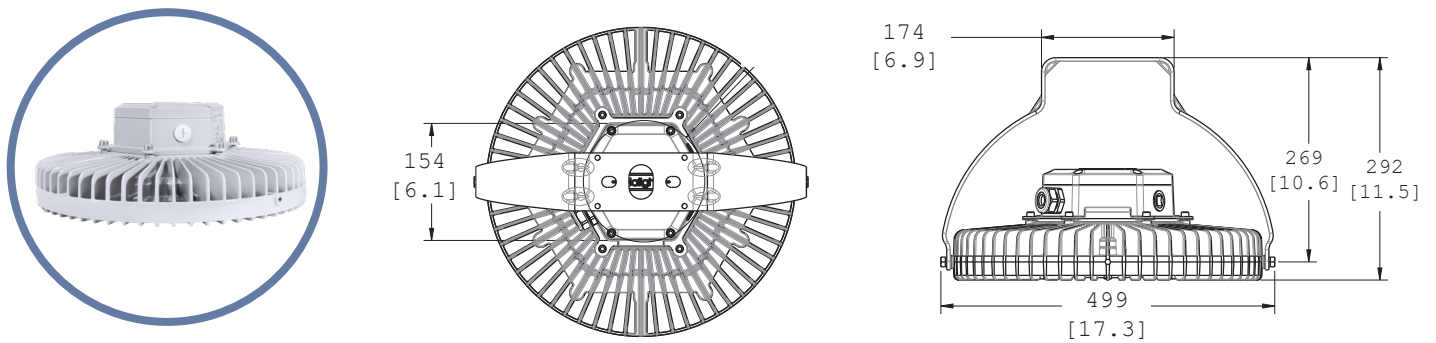
*DALI compatible models also come with 0-10V dimming

Dimensional Drawings

Corded Model with Hook Mount



Integrated Wiring Box



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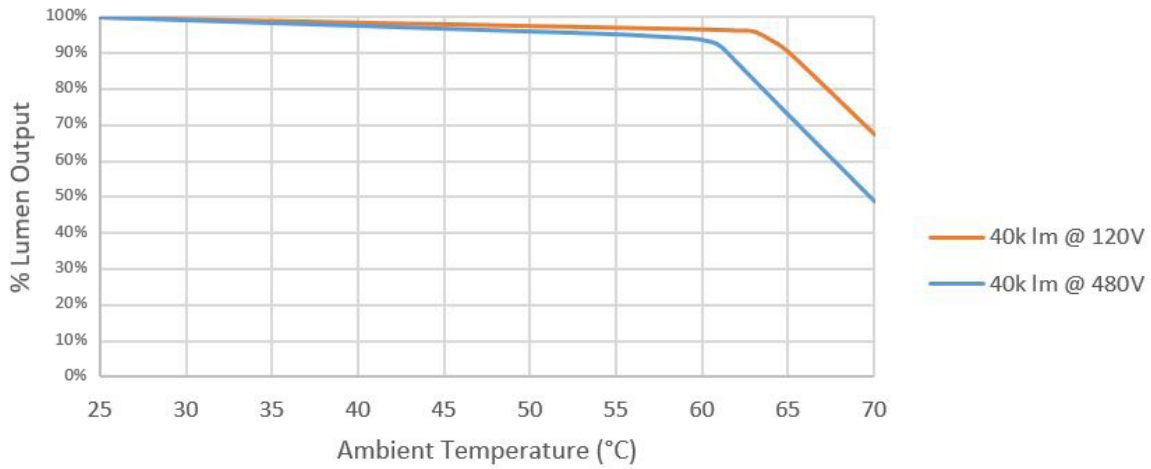
Lumen Tables

| Vigilant High Bay 100-277 VAC, 120-250 VDC and 347-480 VAC | | | | | |
|--|---------|---------------------|---------------|---------------------------|------|
| Output | Wattage | Optic | Lens Material | 70 CRI, 5000K / 4000K CCT | |
| | | | | Lumen Output | lm/W |
| J | 230 | High Efficacy Round | Glass | 41,300 | 180 |
| H | 195 | | | 35,700 | 183 |
| F | 165 | | | 30,900 | 187 |
| E | 140 | | | 26,300 | 188 |
| C | 96 | | | 19,100 | 200 |
| B | 80 | | | 15,000 | 188 |
| A | 65 | | | 12,100 | 186 |

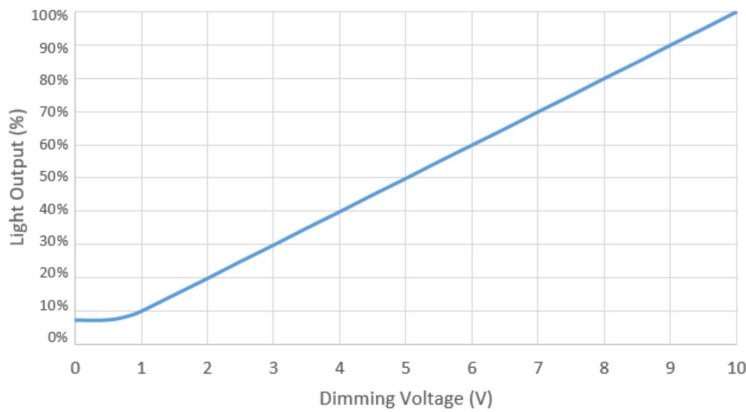
| Variable | Type | Scale Factor |
|-----------|-------------------------------|--------------|
| Lens | Glass - Clear | 100% |
| | Acrylic - Clear | 100% |
| | Polycarbonate - Clear | 99% |
| | Polycarbonate - Dome Diffused | 98% |
| Optic | Round | 100% |
| | Narrow | 97% |
| | Medium | 95% |
| | Aisle | 92% |
| CCT & CRI | CW 70 CRI | 100% |
| | NW 70 CRI | 100% |
| | CW 80 CRI | 96% |
| | NW 80 CRI | 96% |

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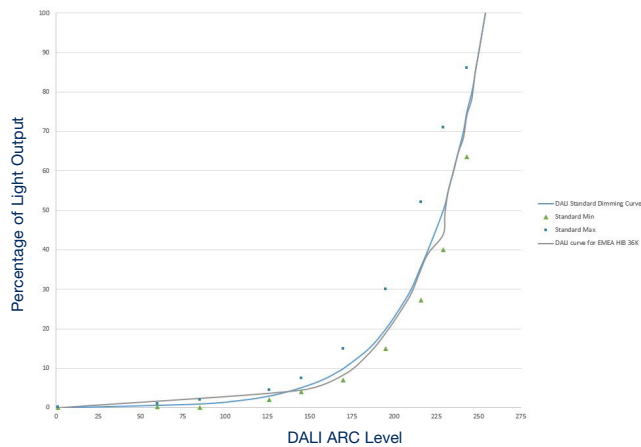
Thermal Roll-Off



Dimming Characterization 0-10V



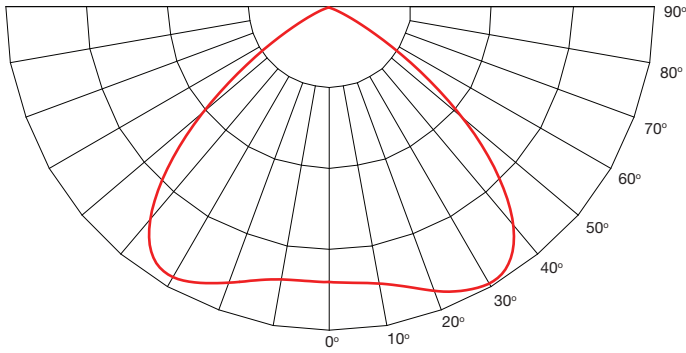
DALI Dimming



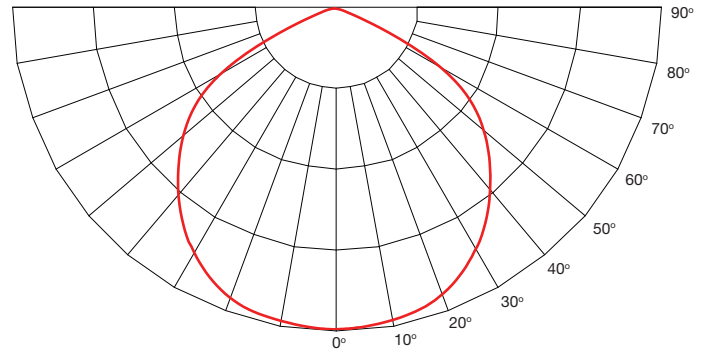
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Beam Distribution

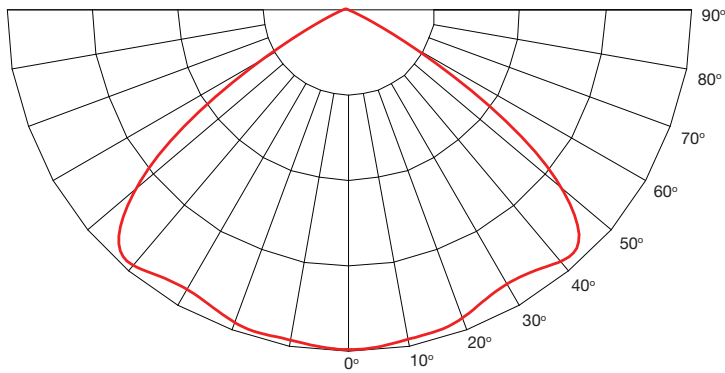
Medium



Round



Wide



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Lumen Maintenance Factor

| % Lumen Output (40k lm @ 120V) | | | | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Ambient Temp (°C) | Hours | | | | | | | | |
| | 0 | 15000 | 30000 | 45000 | 60000 | 75000 | 90000 | 100000 | 150000 |
| 25 | 100% | 96% | 93% | 90% | 87% | 84% | 81% | 80% | 71% |
| 30 | 100% | 96% | 93% | 90% | 87% | 84% | 81% | 79% | 71% |
| 35 | 99% | 95% | 92% | 89% | 86% | 84% | 80% | 79% | 71% |
| 40 | 99% | 95% | 92% | 89% | 86% | 83% | 80% | 79% | 70% |
| 45 | 98% | 94% | 91% | 88% | 85% | 82% | 80% | 78% | 69% |
| 50 | 98% | 94% | 91% | 87% | 84% | 82% | 79% | 77% | 69% |
| 55 | 97% | 93% | 90% | 87% | 84% | 81% | 78% | 76% | 68% |
| 60 | 97% | 93% | 89% | 86% | 83% | 80% | 77% | 75% | 67% |
| 65 | 90% | 87% | 84% | 80% | 78% | 75% | 72% | 70% | 62% |

| % Lumen Output (26k lm @ 120V) | | | | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Ambient Temp (°C) | Hours | | | | | | | | |
| | 0 | 15000 | 30000 | 45000 | 60000 | 75000 | 90000 | 100000 | 150000 |
| 25 | 100% | 97% | 95% | 92% | 90% | 88% | 86% | 84% | 77% |
| 30 | 99% | 97% | 94% | 92% | 90% | 87% | 85% | 84% | 77% |
| 35 | 99% | 96% | 94% | 91% | 89% | 87% | 85% | 83% | 76% |
| 40 | 98% | 96% | 93% | 91% | 89% | 86% | 84% | 83% | 76% |
| 45 | 98% | 95% | 93% | 90% | 88% | 86% | 84% | 82% | 75% |
| 50 | 97% | 94% | 92% | 90% | 87% | 85% | 83% | 81% | 75% |
| 55 | 97% | 94% | 91% | 89% | 87% | 84% | 82% | 81% | 74% |
| 60 | 96% | 93% | 91% | 88% | 86% | 84% | 81% | 80% | 73% |
| 65 | 96% | 93% | 90% | 88% | 85% | 83% | 81% | 79% | 72% |

In-rush Current

100-277 VAC Models

| Product | Output | Max Wattage | Inrush Current @ Input Voltage | | | | Approximate Time Duration (T50) of Inrush Current | | | |
|----------|--------|-------------|--------------------------------|--------|--------|--------|---|--------|--------|--------|
| | | | 100VAC | 120VAC | 230VAC | 277VAC | 100VAC | 120VAC | 230VAC | 277VAC |
| High Bay | 11k | 73 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |
| | 14k | 90 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |
| | 18k | 111 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |
| | 26k | 161 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |
| | 30k | 190 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |
| | 35k | 225 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |
| | 40k | 261 | 6.4 | 7.7 | 14.8 | 17.8 | 1.5ms | 1.5ms | 1.5ms | 1.5ms |

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Circuit Breakers

100-277 VAC Models

| Output | Max Wattage | Maximum # of Lights per Breaker @100VAC | | | Maximum # of Lights per Breaker @120VAC | | | Maximum # of Lights per Breaker @230VAC | | | Maximum # of Lights per Breaker @277VAC | | |
|--------|-------------|---|-----|-----|---|-----|-----|---|-----|-----|---|-----|-----|
| | | C10 | B16 | C16 | C10 | B16 | C16 | C10 | B16 | C16 | C10 | B16 | C16 |
| 11k | 73 | 10 | 16 | 16 | 12 | 19 | 19 | 23 | 37 | 37 | 27 | 43 | 43 |
| 14k | 90 | 8 | 13 | 13 | 10 | 16 | 16 | 19 | 30 | 30 | 22 | 36 | 36 |
| 18k | 111 | 6 | 10 | 10 | 8 | 13 | 13 | 15 | 24 | 24 | 17 | 28 | 28 |
| 26k | 161 | 4 | 7 | 7 | 5 | 9 | 9 | 11 | 17 | 17 | 12 | 19 | 19 |
| 30k | 190 | 4 | 6 | 6 | 5 | 7 | 7 | 9 | 14 | 14 | 10 | 17 | 17 |
| 35k | 225 | 3 | 5 | 5 | 4 | 6 | 6 | 8 | 12 | 12 | 9 | 14 | 14 |
| 40k | 261 | 3 | 4 | 4 | 3 | 5 | 5 | 7 | 10 | 10 | 8 | 12 | 12 |

Earth Leakage

| Voltage | Typical Measurements | | | |
|-----------|----------------------|---|-------------------------|----------------------------------|
| | Normal (mA) | Live to Neutral or L1 to L2 Reversed (mA) | Neutral or L2 Open (mA) | Neutral or L2 Open Reversed (mA) |
| 120V/60Hz | 0.27 | 0.25 | 0.46 | 0.45 |
| 230V/50Hz | 0.41 | 0.40 | 0.78 | 0.77 |
| 277V/60Hz | 0.56 | 0.56 | 1.05 | 1.03 |
| 347V/60Hz | 0.28 | 0.28 | 0.39 | 0.40 |
| 415V/50Hz | 0.26 | 0.26 | 0.40 | 0.40 |
| 480V/60Hz | 0.36 | 0.36 | 0.54 | 0.53 |

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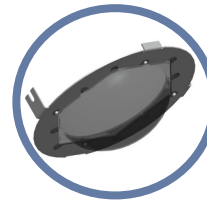
Accessories



- HBXW3-SSL-316M**
- 316 stainless steel bracket



- HBXCAB48**
- 48" long stainless steel safety rope (for use with safety bracket)
 - Includes 2 cables



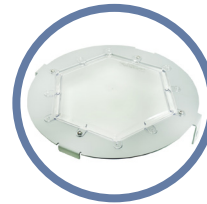
- HBXSBDK**
- Sand blast kit (dome lens)
- HBXSBDL**
- Sacrificial dome lens



- HBXW3-SSL-316FTM**
- 316 stainless steel forward throw bracket



- HBXSB**
- Safety tabs
 - 316 stainless steel
 - Includes 4 tabs



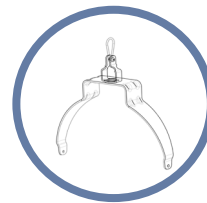
- HBXSBK**
- Sand blast kit (flat lens)
- HBXSBL**
- Sacrificial flat lens



- HBXW3**
- Powder-coated aluminium swivel bracket

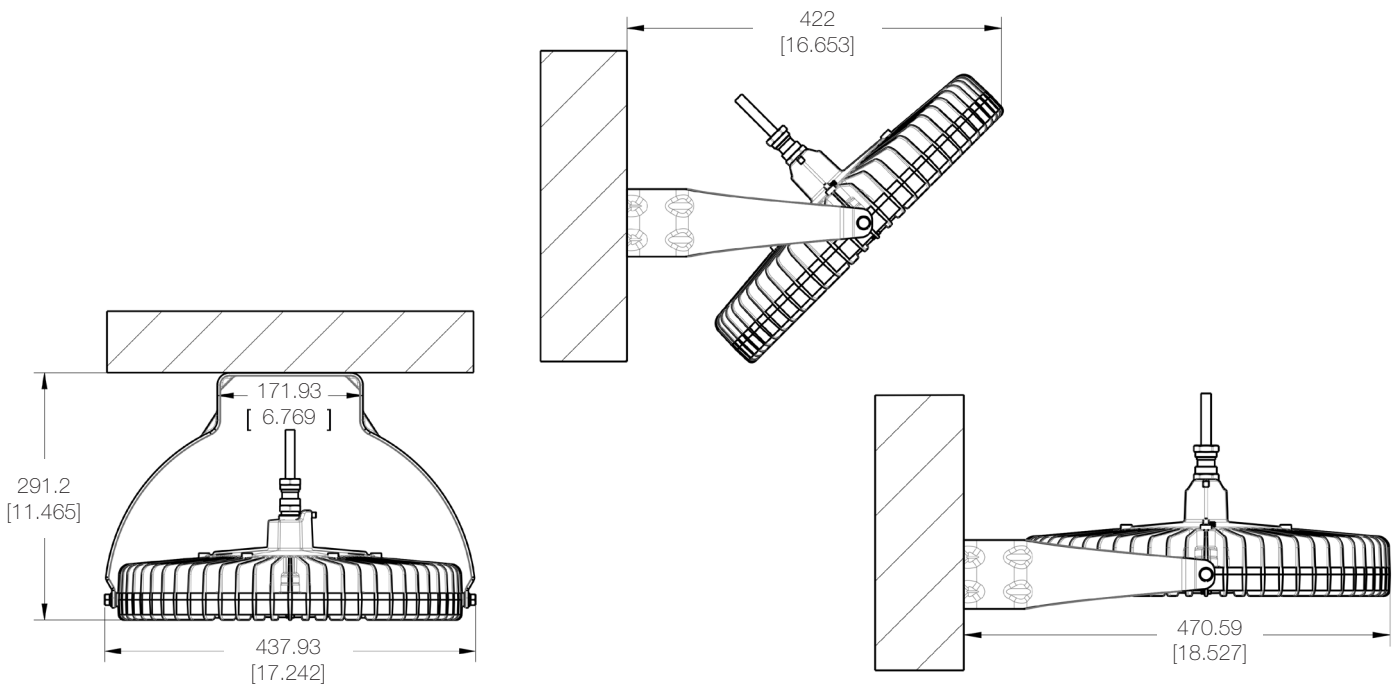


- HBXGS**
- Glare shield (internal use only, for use with flat lens)



- HBXW3EUHOOK**
- Swivel bracket with hanging hook

HBXW3 - Swivel Bracket



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