

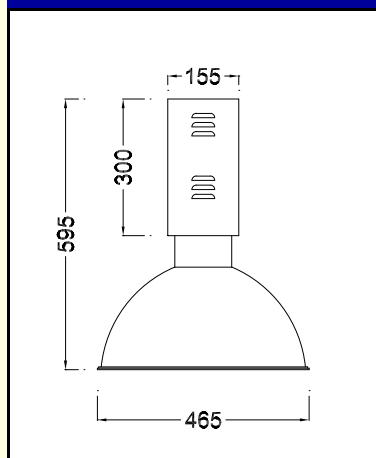
HB — BUDGET HIGHBAY



SPUN ALUMINIUM REFLECTOR

| MODELS | |
|---------|-------------------------------|
| HB250MV | 250 Watt Mercury Vapour |
| HB400MV | 400 Watt Mercury Vapour |
| HB250MH | 250 Watt Metal Halide |
| HB400MH | 250 Watt Metal Halide |
| HB150S | 150 Watt High pressure sodium |
| HB250S | 250 Watt High pressure sodium |
| HB400S | 400 Watt High pressure sodium |

DIMENSIONS



EASY ACCESS ENCLOSURE

FEATURES

- High quality spun and polished aluminium reflector
- Available in mercury vapour, metal halide and high pressure sodium
- Optional fused terminal block
- Metal control gear enclosure pre-treated and degreased before being polyester epoxy powder coated and baked for high protection and quality
- High temperature internal wiring for added safety
- Supplied with 22mm cable entry for hard wiring or 1.5 meter flex and plug
- E39 porcelain high temperature lamp holder
- Control gear enclosure has hinged access doors on both sides to allow easy entry for maintenance and installation
- Control gear is tray mounted for easy removal

APPLICATION

The HB budget HighBay is suitable for factories, warehouses, loading bays, industrial plants, sports halls, service bays, and most industrial applications

It is a true high bay with high performance at mounting heights of 7 meters and above.

HB — BUDGET HIGHBAY

Manufactured to standards—EN60598.1



EN60598.2.1
EN60598.2.2
EN55015 (AS/NZS4051)

EMC compliant supplier Code N1562



HB — BUDGET HIGHBAY



Supplied suspension hook

The HighBay can be chain suspended using the supplied hook, or from the two formed hangers. The position of the gear tray can be adjusted to accommodate different shape ballasts. This ensures the HighBay will always be balanced, even with change of ballast.

HB — OPTIONS



STAND-BY LAMP & RELAY supplied as 150w or 250 w tungsten halogen

The HB high bay may be fitted with a stand-by lamp & relay. The operation of this relay is such that when power is applied or reapplied, the incandescent lamp switches on immediately. As soon as the electronic change-over relay senses the voltage drop across the ballast following lamp ignition, the incandescent lamp will remain on for a further 3 minutes while the HID lamp runs up to full light output. After these 3 minutes the HID lamp will have reached approximately 70% - 75% of it's full light output.

In the case of a power interruption the incandescent lamp is immediately re-activated and remains on until the HID lamp again reaches 70% - 75% of it's full light output.

If the HID lamp fails to ignite for any reason, the relay will switch on the incandescent lamp.

HB — ACCESSORIES



HINGE CLIP ARRANGEMENT

The HBDB diffuser bowl is UV stabilized polycarbonate, capable of operation in the high temperatures generated by HID lamps. This drop bowl is suitable for up to 400 watt.

Part Number: HBDB



POLYCARBONATE DROP SIDE DIFFUSER

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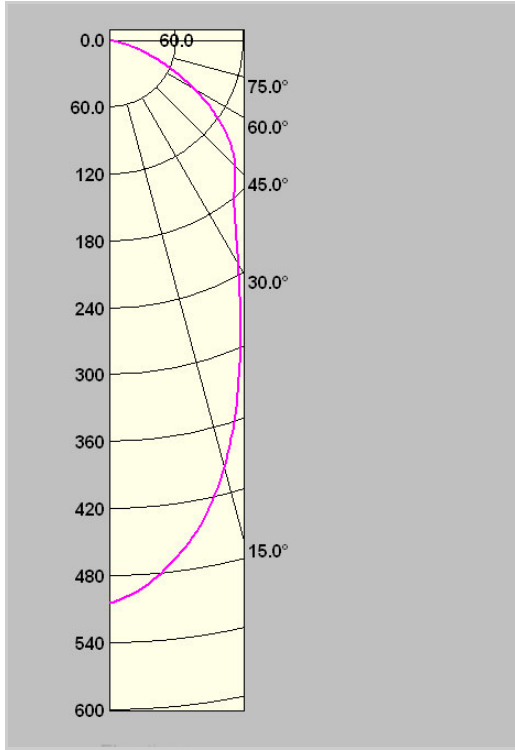


EN60598.2.1
EN60598.2.2
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HB400MV 400 WATT MERCURY VAPOUR

POLAR CURVE cd/1000 lms
I Max 504 cd in C0 plane at 0° gamma



C0 Plane

Luminous intensity Table (cd/1000lms)

| γ Gamma | C0 |
|---------|-----|
| 0° | 504 |
| 5° | 482 |
| 10° | 447 |
| 15° | 396 |
| 20° | 335 |
| 25° | 277 |
| 30° | 230 |
| 35° | 196 |
| 40° | 174 |
| 45° | 159 |
| 50° | 140 |
| 55° | 116 |
| 60° | 89 |
| 65° | 63 |
| 70° | 40 |
| 75° | 22 |
| 80° | 9 |
| 85° | 3 |
| 90° | 1 |

Average Luminance Table

| γ Gamma | C0 |
|---------|------|
| 45° | 1410 |
| 55° | 1270 |
| 65° | 937 |
| 75° | 534 |
| 85° | 216 |

Luminance in cd/m²/1000lms

| Utilisation Factor Table - CIBSE TM5 (fine grid method. min/ave 0.8) | | | | | | | | | | | |
|--|----------|-------|--------------------|------|------|------|------|---------------------|------|------|------|
| LOR: 72.2% | | | SHR Nom: 1.0 : 1.0 | | | | | SHR Max: 1.10 : 1.0 | | | |
| Reflectance | | | Room Index (K) | | | | | | | | |
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | 0.46 | 0.53 | 0.58 | 0.61 | 0.66 | 0.69 | 0.72 | 0.75 | 0.76 |
| 0.70 | 0.30 | 0.20 | 0.41 | 0.48 | 0.53 | 0.57 | 0.62 | 0.66 | 0.69 | 0.72 | 0.74 |
| 0.70 | 0.10 | 0.20 | 0.37 | 0.44 | 0.50 | 0.54 | 0.59 | 0.63 | 0.66 | 0.70 | 0.72 |
| 0.50 | 0.50 | 0.20 | 0.45 | 0.52 | 0.56 | 0.60 | 0.64 | 0.67 | 0.69 | 0.72 | 0.73 |
| 0.50 | 0.30 | 0.20 | 0.40 | 0.47 | 0.52 | 0.56 | 0.61 | 0.64 | 0.67 | 0.70 | 0.72 |
| 0.50 | 0.10 | 0.20 | 0.37 | 0.44 | 0.49 | 0.53 | 0.58 | 0.62 | 0.64 | 0.68 | 0.70 |
| 0.30 | 0.50 | 0.20 | 0.44 | 0.50 | 0.55 | 0.58 | 0.62 | 0.65 | 0.67 | 0.69 | 0.71 |
| 0.30 | 0.30 | 0.20 | 0.40 | 0.47 | 0.51 | 0.55 | 0.59 | 0.62 | 0.65 | 0.67 | 0.69 |
| 0.30 | 0.10 | 0.20 | 0.37 | 0.44 | 0.48 | 0.52 | 0.57 | 0.60 | 0.63 | 0.66 | 0.68 |
| 0.00 | 0.00 | 0.00 | 0.35 | 0.42 | 0.46 | 0.50 | 0.55 | 0.58 | 0.60 | 0.63 | 0.65 |
| Distribution Factors | Floor: | | 0.35 | 0.42 | 0.46 | 0.50 | 0.55 | 0.58 | 0.60 | 0.63 | 0.65 |
| | Wall: | | 0.37 | 0.30 | 0.26 | 0.22 | 0.18 | 0.15 | 0.12 | 0.09 | 0.08 |
| | Ceiling: | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BZ Numbers: | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

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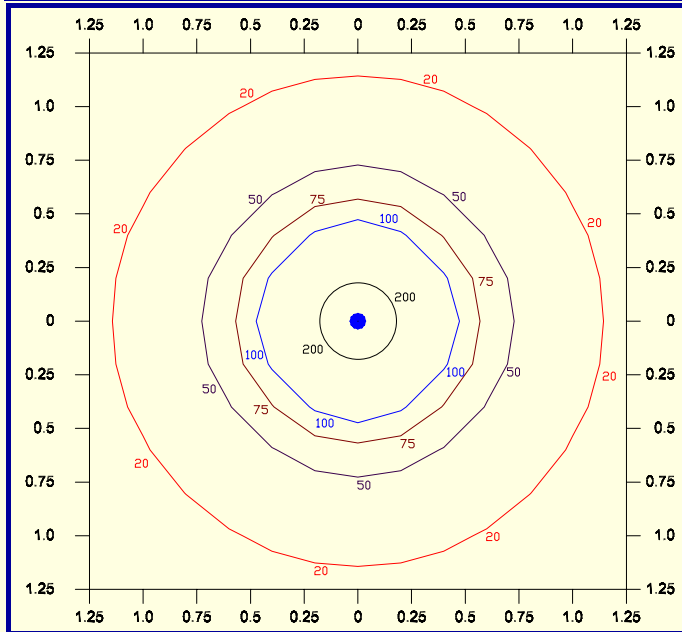
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PRESENTED DATA BASED ON HB400MH 400 WATT METAL HALIDE MODEL

HORIZONTAL ISOLUX (LUX) for one luminaire



Distance in mounting heights



| | |
|-----------------|-----------|
| Mounting Height | 8 meters |
| Light source | M/Halide |
| Lamp lumens | 38000 lms |
| Maint Factor | 0.8 |

To calculate the change in value of the isolux line with change of mounting height use the following formula, the new isolux value is equal to:

$$\text{Old Isolux} \times \frac{\text{Old M/H}^2}{\text{New M/H}^2}$$

To calculate the change in value of the isolux line with change of lamp lumens, the new isolux value is equal to:

$$\text{Old Isolux} \times \frac{\text{New Lumens}}{\text{Old Lumens}}$$

Note that the above isolux plot is for direct flux only. Inter-reflection has not been considered

The Horizontal illuminance matrix shown is taken for an array of 16 luminaires.

Room Details

| | |
|-----------------|----------------|
| Mounting height | 8 meters |
| Light source | M/Halide |
| Lamp Lumens | 38000 lms |
| Maint Factor | 0.8 |
| Reflections | 0.5, 0.5, 0.2 |
| Spacings | 7 meters apart |
| W/Plane | 0 meters |

Illuminance Details

| | |
|----------|---------|
| Ave: | 421 lux |
| Max: | 516 lux |
| Min: | 369 lux |
| Min/Ave: | 0.88 |
| Min/max: | 0.72 |

HORIZONTAL ILLUMINANCE

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 411 | 391 | 369 | 414 | 459 | 422 | 387 | 422 | 459 | 414 | 369 | 391 | 411 |
| 391 | 385 | 372 | 409 | 443 | 418 | 391 | 418 | 443 | 409 | 372 | 385 | 391 |
| 369 | 372 | 369 | 398 | 424 | 407 | 389 | 407 | 424 | 398 | 369 | 372 | 369 |
| 414 | 409 | 398 | 436 | 470 | 446 | 419 | 446 | 470 | 436 | 398 | 409 | 414 |
| 459 | 443 | 424 | 470 | 516 | 480 | 445 | 480 | 516 | 470 | 424 | 443 | 459 |
| 422 | 418 | 407 | 446 | 480 | 456 | 429 | 456 | 480 | 446 | 407 | 418 | 422 |
| 387 | 391 | 389 | 419 | 445 | 429 | 411 | 429 | 445 | 419 | 389 | 391 | 387 |
| 422 | 418 | 407 | 446 | 480 | 456 | 429 | 456 | 480 | 446 | 407 | 418 | 422 |
| 459 | 443 | 424 | 470 | 516 | 480 | 445 | 480 | 516 | 470 | 424 | 443 | 459 |
| 414 | 409 | 397 | 436 | 470 | 446 | 419 | 446 | 470 | 436 | 397 | 409 | 414 |
| 369 | 372 | 369 | 397 | 424 | 407 | 389 | 407 | 424 | 397 | 369 | 372 | 369 |
| 391 | 385 | 372 | 409 | 443 | 418 | 391 | 418 | 443 | 409 | 372 | 385 | 391 |
| 411 | 391 | 369 | 414 | 459 | 422 | 387 | 422 | 459 | 414 | 369 | 391 | 411 |

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