



This unique luminaire presents the market with a revelation in cold store and high bay lighting. Purpose designed for operation in a wide ambient temperature range, this luminaire blends cutting edge LED technology with innovative and functional styling. Offered with cool white LEDs, the 'HBL' range is a high performance alternative to traditional HID luminaires, boasting significant through life advantages to the customer. Optical performance is enhanced with a choice of racking aisle or open area lens and reflector options. The light output can be tailored to the application through separate switching of the LED arrays. Excellent thermal management is achieved through the use of liquid filled heatpipes, drawing heat rapidly from the LEDs, these are in turn cooled via an array of cooling fins. The range is completed with emergency variants providing a comprehensive LED lighting solution.

- Ideal for Cold Stores down to -30°C , though equally suited to ambient up to $+30^{\circ}\text{C}$
- Instant white light, no restrike or run up delay
- Long life cutting edge LED technology mean zero lamp changes
- Energy efficient
- Compact and robust die-cast aluminium housing
- Racking aisle or open area optics maximising spacing and uniformity
- High mounting height capability
- Integrated emergency option, a benefit over HID solutions
- Choice of output through switching or dimming of LED arrays

Lamp and Control Gear Options

- Multi-die LED chip array
- High frequency control gear as standard

Materials

- Aluminium housing finished in white RAL9016 powder coat paint finish
- Clear polycarbonate optical lens
- Aluminium reflector
- Gearbox - mild steel in white RAL9016 powder coat paint finish

Installation Notes

- 4 x 9mm diameter holes to allow surface mounting or suspension via suitable chain, wire or drop rods
- Fused as standard
- For operation in ambient temperatures of -30°C to +30°C
- The IP20 remote gear box must be located in an ambient of +5°C to +25°C
- 1m lead supplied fitted to luminaire head for direct connection to the remote gear box
- Lens retained with M4 screws
- 100mm length of conduit supplied to protect wiring through mounting surface to remote gear box
- Installations using the rack optic should be installed with the length of the luminaire running parallel with the length of the aisle

Options

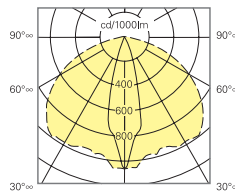
- Integrated 3hr maintained emergency option and high output option
- Output selection via switching and/or 1-10V dimming of the LED arrays. Select the appropriate Gear Box for the required function
- Racking aisle or open area optic choices
- Project specific optics can be developed where appropriate

Specification

To specify state: High performance LED luminaire, Aluminium housing with white RAL9016 powder coat finish, reflector and clear polycarbonate optical lens, suitable for surface or suspended mounting (ideal for coldstores), as Eaton's HBL High-Bay LED luminaire, part no. _____

Photometric Data

Cat. No. HBL1-WCW-R



LOR: 100%
ULOR: 100%
DLOR: 100%

SHR nom: 0.50
SHR max: 0.547

Utilisation factors / TM5

Reflectances			Room Index								
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	62	72	79	84	91	96	99	103	105
30			55	65	72	78	86	91	94	99	102
10			50	60	67	73	81	87	91	96	100
50	50	20	61	70	77	82	88	92	95	99	101
30			54	64	71	76	83	88	91	96	99
10			50	59	66	72	80	85	88	93	96
30	50	20	59	68	75	79	85	89	92	95	97
30			54	63	70	75	81	86	89	93	95
10			49	59	66	71	78	83	86	91	94
0	0	0	47	56	63	68	75	79	82	86	89
BZ-Class			3	3	3	3	3	3	3	3	3

See page 514 for Design Guide

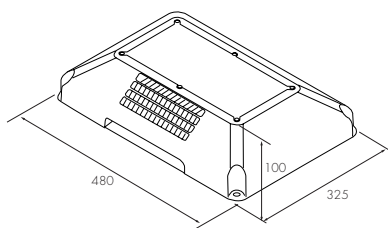
Remote gearbox



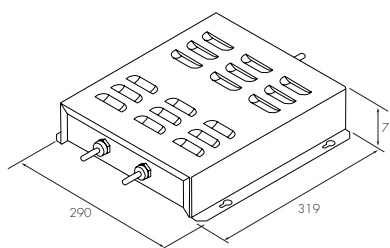
Emergency remote gearbox



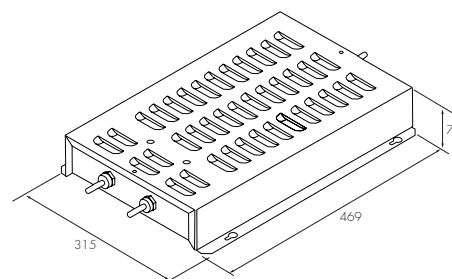
Dimensions



Luminaire head unit



Standard remote gearbox



Emergency remote gearbox

Catalogue Numbers

Lamp Option	Cat No	Description	Weight (kg)	Lumen Output
LED Array	HBL1-WCW-R	LED High-Bay IP65 (Rack optic)	6.3	8812
LED Array	HBL1-WCW-M	LED High-Bay IP65 (Medium optic)	6.3	9040
LED Array	HBL1-WCW-W	LED High-Bay IP65 (Wide optic)	6.3	9063
-	HBL1-GB	Remote gear box (IP20)	3.0	-
-	EBHBL1-GB	Remote gear box with emergency (IP20)	3.3	-
-	HBL1-GBD	Remote gear box with Dimming (IP20)	3.0	-
-	EBHBL1-GBD	Remote gear box with Dimming and Emergency (IP20)	3.3	-
-	EBHOHBL1-GB	Remote gear box with high output emergency (IP20)	3.6	-

For further information contact our technical support and application department on 01302 303240 or email lighting@cooper-ls.com

