



## LED Retrofit High Bay Lighting



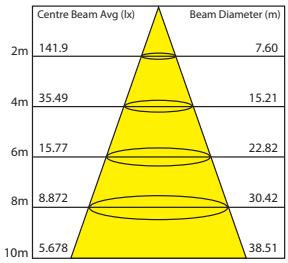
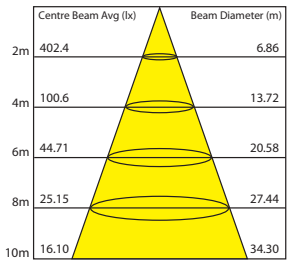
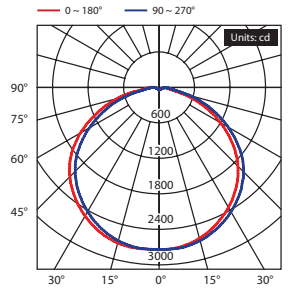
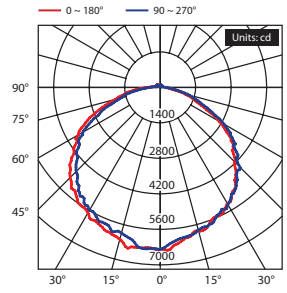
LBL-D Series: Retrofit E40 screw high bay LED bulbs available in 100W and 160W models

The ENSA™ LBL-D series enables rapid, energy efficient lighting upgrades of retail high bay installations in industrial and commercial environments. Quickly and easily replace E40 screw base lamps and save time on replacement with minimal interruption to operations.

The LBL-D series offers a far greater lifespan and energy efficiency than traditional metal halide lighting, saving on energy and lighting replacement costs. Available in 100W & 160W models in cool & natural white colour temperatures.

- High power bulb for industrial and commercial settings
- Improve energy efficiency & save on re-lamping costs
- E40 screw based for retrofit lighting installations
- Long life LEDs: minimum 25,000 hours rated service life
- Available in natural and cool white colour temperatures
- Reflector for high ceiling installations (*sold separately*)
- \*There may be some retrofit cases where the existing light ballast must be removed

## Series Specifications

Model	LBL-D100-E40	LBL-D160-E40																																				
Product Image																																						
Series Name	LBL-D Series: Retrofit High Bay LED Bulb																																					
<b>Optical</b>																																						
Light Output	9,000lm	20,000lm																																				
Luminous Efficacy	90lm/W	125lm/W																																				
Colour Temperature	4000K / 6500K																																					
Colour Rendering Index	> 80																																					
Beam Angle	120°	200°																																				
Light Decay	<80% at 6000 hours																																					
Rated Lifespan	>25,000 hours																																					
<b>Electrical</b>																																						
Power Consumption	100W	160W																																				
Input Voltage	220 ~ 240VAC, 50Hz																																					
Power Factor	> 0.9																																					
Dimmable	No																																					
<b>General</b>																																						
Construction / Material	Polybutylene Terephthalate (body) / Polycarbonate (lens)																																					
Plug / Socket / Base	E40 screw																																					
Operating Environment	-30 ~ +50°C																																					
Dimensions	Ø190 x 275mm	Ø280 x 350mm																																				
<b>Photometry</b>																																						
Illuminance at a Distance	 <table border="1"> <caption>Photometry Data for LBL-D100-E40</caption> <thead> <tr> <th>Distance (m)</th> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr><td>2m</td><td>141.9</td><td>7.60</td></tr> <tr><td>4m</td><td>35.49</td><td>15.21</td></tr> <tr><td>6m</td><td>15.77</td><td>22.82</td></tr> <tr><td>8m</td><td>8.872</td><td>30.42</td></tr> <tr><td>10m</td><td>5.678</td><td>38.51</td></tr> </tbody> </table>	Distance (m)	Centre Beam Avg (lx)	Beam Diameter (m)	2m	141.9	7.60	4m	35.49	15.21	6m	15.77	22.82	8m	8.872	30.42	10m	5.678	38.51	 <table border="1"> <caption>Photometry Data for LBL-D160-E40</caption> <thead> <tr> <th>Distance (m)</th> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr><td>2m</td><td>402.4</td><td>6.86</td></tr> <tr><td>4m</td><td>100.6</td><td>13.72</td></tr> <tr><td>6m</td><td>44.71</td><td>20.58</td></tr> <tr><td>8m</td><td>25.15</td><td>27.44</td></tr> <tr><td>10m</td><td>16.10</td><td>34.30</td></tr> </tbody> </table>	Distance (m)	Centre Beam Avg (lx)	Beam Diameter (m)	2m	402.4	6.86	4m	100.6	13.72	6m	44.71	20.58	8m	25.15	27.44	10m	16.10	34.30
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Luminous Light Distribution																																						

## Ordering Information

Type	Series	Wattage	Base	Colour Temperature	
LBL	-	100 (100W) 160 (160W)	-	E40	C (Cool white) N (Natural white)

LBL-D100-E40N: 100W E40 Base LED Retrofit Bulb in Natural White

## Additional Accessories

**LBL-D100RF**  
Optional plastic reflector available for 100W LBL-D Series LED bulbs only. Recommended for high ceiling installations.

