



Residential Fixed LED Downlights

Available in a variety of styles and wattages, in two colour temperatures

The residential fixed LED downlight range from ENSA™ comprises small and efficient LED fixtures in variety of styles, wattages and hole cut sizes to suit your installation needs.

The LDL-BA series features uniquely packaged LED cabinet lights, with six individual lights operating on a single transformer. This makes them ideal in showrooms and stores for shelf and display cases illumination. LDL-BB and LDL-A series downlights are small form factor LED fixtures available in flat and bevelled gimble styles, in cool and warm white colour temperatures.

- LDL-BA series: Set of six dimmable LED cabinet lights.
- LDL-BB series: Bevelled or flat style dimmable downlights.
- LDL-A series: Bevelled style 85lm/W LED downlights.
- Ideal energy efficient lighting replacement for halogens.
- Long life LEDs: minimum 30,000 hours rated service life.
- Hole cut sizes ranging from Ø34mm ~ Ø125mm.

Series Specifications

Model	LDL-BA3-F1	LDL-BA3-F2	LDL-BB10-F	LDL-BB12-F	LDL-A12																																																			
Product Image																																																								
Series Name	LDL-BA Series LED Cabinet Lights		LDL-BB Series Dimmable LED Downlights		LDL-A Series Fixed LED Downlight																																																			
Optical																																																								
Luminous Flux	200lm		700lm	850lm	1020lm																																																			
Luminous Efficacy	67lm/W		70lm/W	71lm/W	85lm/W																																																			
Colour Temperature	3000K / 6000K				3000K / 6500K																																																			
Colour Rendering Index	> 80				> 75																																																			
Beam Angle	45°		120°	95°	110°																																																			
Light Decay	< 30% over 10,000 hours																																																							
Rated Lifespan	>35,000 hours			> 30,000 hours																																																				
Electrical																																																								
Power Consumption	3W per light (6 pcs total)		10W	12W																																																				
Input Voltage	100 ~ 240VAC																																																							
Power Factor	> 0.9																																																							
Dimmable	Yes				N/A																																																			
General																																																								
Plug / Socket / Base	3-pin AC plug with external driver																																																							
Reflector / Diffuser	Clear reflector lens		Frosted diffuser																																																					
Housing Adjustments	N/A																																																							
Operating Environment	-20 ~ +40°C																																																							
Dimensions	Ø44 x 42mm	Ø50 x 38mm	Ø90 x 45mm	Ø110 x 50mm	Ø175 x 68mm																																																			
Hole Cut Size	Ø34mm	Ø45mm	Ø75mm	Ø90mm	Ø150mm																																																			
Equivalent Wattage	15W halogen		35W halogen	40W halogen	50W halogen																																																			
Photometry																																																								
Illuminance at a Distance	<table border="1"> <thead> <tr> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr><td>227</td><td>1.14</td></tr> <tr><td>56</td><td>2.28</td></tr> <tr><td>25</td><td>3.42</td></tr> <tr><td>14</td><td>4.57</td></tr> <tr><td>9</td><td>5.71</td></tr> </tbody> </table>		Centre Beam Avg (lx)	Beam Diameter (m)	227	1.14	56	2.28	25	3.42	14	4.57	9	5.71	<table border="1"> <thead> <tr> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr><td>247</td><td>2.61</td></tr> <tr><td>61</td><td>5.22</td></tr> <tr><td>27</td><td>7.83</td></tr> <tr><td>15</td><td>10.45</td></tr> <tr><td>10</td><td>13.05</td></tr> </tbody> </table>		Centre Beam Avg (lx)	Beam Diameter (m)	247	2.61	61	5.22	27	7.83	15	10.45	10	13.05	<table border="1"> <thead> <tr> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr><td>320</td><td>2.40</td></tr> <tr><td>80</td><td>4.82</td></tr> <tr><td>35</td><td>7.22</td></tr> <tr><td>20</td><td>9.64</td></tr> <tr><td>13</td><td>12.05</td></tr> </tbody> </table>		Centre Beam Avg (lx)	Beam Diameter (m)	320	2.40	80	4.82	35	7.22	20	9.64	13	12.05	<table border="1"> <thead> <tr> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr><td>393</td><td>2.77</td></tr> <tr><td>98</td><td>5.54</td></tr> <tr><td>44</td><td>8.31</td></tr> <tr><td>25</td><td>11.09</td></tr> <tr><td>16</td><td>13.86</td></tr> </tbody> </table>		Centre Beam Avg (lx)	Beam Diameter (m)	393	2.77	98	5.54	44	8.31	25	11.09	16	13.86
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Luminous Light Distribution																																																								
	0 ~ 180°		0 ~ 180°		0 ~ 180°		0 ~ 180° / 90 ~ 270°																																																	
	Units: cd		Units: cd		Units: cd		Units: cd																																																	
	90°		90°		90°		90°																																																	
	45°		45°		45°		45°																																																	

Ordering Information

Type	Series	Wattage	Housing Style	Colour Temperature	Other
LDL	BA BB	3 (3W) 10 (10W) 12 (12W)	F (Fixed)	C (Cool white) W (Warm white)	1~9 (Identifier)
	A		N/A	CW (Cool white) WW (Warm white)	N/A

LDL-BB10-FW: 10W Dimmable Fixed LED Downlight in Warm White