

## Eisen Series

Housing and Trim: Die-cast aluminium  
 Mounting type: Recess adjustable, rotatable  
 Heat Management: Die-cast aluminium heat sink  
 Reflector: Aluminium  
 Diffuser: Clear PMMA

LED Modules  
 GERMAN Technology  
 Comfort COB - Up to 1800lm  
 Long service life time : 50,000 hours (L80/B10)  
 Ambient temperature - 40°C to +40°C

Drivers: 350mA  
 (optional: Dimmable available)  
 Power factor at full load : 0.97  
 SELV , Low Ripple current < 1% ,THD <15%  
 Warranty: 5 years

Standards  
 EN 620301 : LED modules for general lighting - Safety specification  
 EN 62471 : Photobiological safety of lamps and systems  
 EN 55015 : Radio disturbance emissions  
 EN 61000-3-2 Limited for harmonic emissions  
 EN 61547 : Immunity requirements

Application: Commercial Building, Lobby, Conventional Hall, Ballroom, Concourse



Powered by:



| Model       | Wattage | Voltage | Frequency | Power Factor | Colour        | Colour Temperature | Module Luminous Flux (Lm) | Module Efficacy Lm/W | Typ. Beam Angle | Typ. CRI Ra | Energy Efficiency | Dimension (W x L x H) mm | Dimension (Cut out) mm |
|-------------|---------|---------|-----------|--------------|---------------|--------------------|---------------------------|----------------------|-----------------|-------------|-------------------|--------------------------|------------------------|
| ES1-3-1x12W | 1x12.2W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 1720                      | 141                  | 10, 23, 38      | >82         | A+                | 115 x 115 x 95           | 100 x 100              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 1810                      | 149                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 1865                      | 153                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 1885                      | 155                  | 10, 23, 38      | >82         | A+                |                          |                        |
| ES1-3-2x12W | 2x12.2W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 2x1720                    | 141                  | 10, 23, 38      | >82         | A+                | 115 x 230 x 95           | 100 x 215              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 2x1810                    | 149                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 2x1865                    | 153                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 2x1885                    | 155                  | 10, 23, 38      | >82         | A+                |                          |                        |
| ES1-3-3x12W | 3x12.2W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 3x1720                    | 141                  | 10, 23, 38      | >82         | A+                | 115 x 350 x 95           | 100 x 335              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 3x1810                    | 149                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 3x1865                    | 153                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 3x1885                    | 155                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         |         |           |              |               |                    |                           |                      |                 |             |                   |                          |                        |

\*Colour tolerance: 3 MacAdam    \*\*Production tolerance of luminous flux and efficiency: ±10%    \*\*\*Min. CRI ±3%    \*\*\*\*Power consumption: ±10%  
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|-------------|---------|---------|-----------|--------------|---------------|--------------------|---------------------------|----------------------|-----------------|-------------|-------------------|--------------------------|------------------------|
| ES1-4-1x25W | 1x25.1W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 1720                      | 141                  | 10, 23, 38      | >82         | A+                | 115 x 115 x 95           | 100 x 100              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 1810                      | 149                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 1865                      | 153                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 1885                      | 155                  | 10, 23, 38      | >82         | A+                |                          |                        |
| ES1-3-2x12W | 2x12.2W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 2x1720                    | 141                  | 10, 23, 38      | >82         | A+                | 115 x 230 x 95           | 100 x 215              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 2x1810                    | 149                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 2x1865                    | 153                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 2x1885                    | 155                  | 10, 23, 38      | >82         | A+                |                          |                        |
| ES1-3-3x12W | 3x12.2W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 3x1720                    | 141                  | 10, 23, 38      | >82         | A+                | 115 x 350 x 95           | 100 x 335              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 3x1810                    | 149                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 3x1865                    | 153                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 3x1885                    | 155                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         |         |           |              |               |                    |                           |                      |                 |             |                   |                          |                        |

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|-------------|---------|---------|-----------|--------------|---------------|--------------------|---------------------------|----------------------|-----------------|-------------|-------------------|--------------------------|------------------------|
| ES1-4-1x25W | 1x25.1W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 3445                      | 137                  | 10, 23, 38      | >82         | A+                | 115 x 115 x 95           | 100 x 100              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 3625                      | 144                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 3730                      | 148                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 3765                      | 150                  | 10, 23, 38      | >82         | A+                |                          |                        |
| ES1-4-2x25W | 2x25.1W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 2x3445                    | 137                  | 10, 23, 38      | >82         | A+                | 115 x 230 x 95           | 100 x 215              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 2x3625                    | 144                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 2x3730                    | 148                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 2x3765                    | 150                  | 10, 23, 38      | >82         | A+                |                          |                        |
| ES1-4-3x25W | 3x25.1W | 220-240 | 50/60Hz   | 0.95         | Warm white    | 2700K              | 3x3445                    | 137                  | 10, 23, 38      | >82         | A+                | 115 x 350 x 95           | 100 x 335              |
|             |         | 220-240 | 50/60Hz   | 0.95         | Warm white    | 3000K              | 3x3625                    | 144                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Neutral white | 4000K              | 3x3730                    | 148                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         | 220-240 | 50/60Hz   | 0.95         | Cool white    | 5700K              | 3x3765                    | 150                  | 10, 23, 38      | >82         | A+                |                          |                        |
|             |         |         |           |              |               |                    |                           |                      |                 |             |                   |                          |                        |

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