



ZUMTOBEL



MIREL/MIRAL REFURBISHMENT GUIDE

HOW TO BRING YOUR OLD LOUVRE LUMINAIRES INTO THE FUTURE
WITHOUT HAVING TO MAKE COMPROMISES

REVOLUTIONARY LOUVRE LUMINAIRES: THE SUCCESS STORY OF THE T26 AND T16 ERA

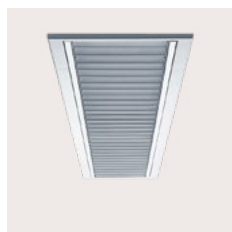
Over multiple product generations, the MIREL and MIRAL families have been synonymous with louvre luminaires in the era of fluorescent lamps. Extensive variety in options offers diverse applications with high efficiency due to direct emitting light characteristics. For renovations, Zumtobel now provides the MIREL evolution with LED for a 1 : 1 replacement. In the context of asset preservation, project-specific retrofit kits can be comfortably integrated into existing light chambers.

The diversity of the design is retained. As problem solvers in renovations, LED inserts are available for existing louvre optics, complete units with contemporary LED lens-based designs, or with microprism optics (MPO). All inserts include drivers and control systems. A wireless basicDIM control system enhances switching and dimming functions in renovations. It offers wireless sustainable lighting control options and increased lighting comfort without the need for complex new electrical installations.

The quality of the system and lighting is also ensured through color temperature control, color rendering, or emergency lighting functionality. Retrofit kits enable a gentle renovation of the lighting system within the circular economy, preserving valuable resources at the luminaire and ceiling structure level. Other environmental conditions remain intact (e.g., ceiling structure, ventilation systems).

SIMPLE INSTALLATION. EASY REPLACEMENT.

Linear 1-lamp



Original



Refurb insert



Lens



MPO

Linear 2-lamp



Original



Refurb insert

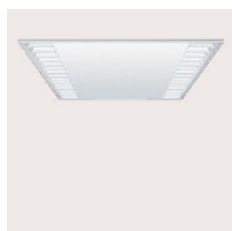


Lens

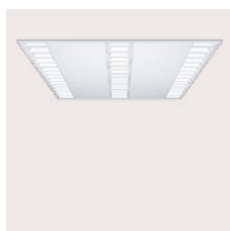


MPO

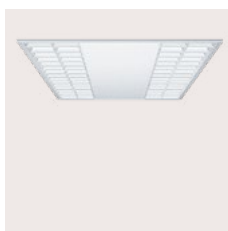
Square



Original



Original



Original



Lens

MIREL/MIRAL T16 REPLACEMENT

Original	Article no.	Product name
FEC / FEC2 / FED / FED2 / FEL / FEL2 / FA 1/28W/54W T16	42189841	LE FE 1/28 L12 2600-840 REF EVG
	42189842	LE FE 1/54 L12 4600-840 REF EVG
	42189977	LE FE 1/28 M600L12 2300-840 LENS EVG
	42189978	LE FE 1/54 M600L12 4000-840 LENS EVG
	42189981	LE FE 1/28 M625L12 2300-840 LENS EVG
	42189982	LE FE 1/54 M625L12 4000-840 LENS EVG
	42189855	LE FA 1/28 L12 2300-840 LENS EVG
	42189856	LE FA 1/54 L12 4000-840 LENS EVG
FEC / FEC2 / FED / FED2 / FEL / FEL2 / FA 1/35W/49W T16	42189843	LE FE 1/35 L15 3400-840 REF EVG
	42189844	LE FE 1/49 L15 4400-840 REF EVG
	42189979	LE FE 1/35 M600L15 2900-840 LENS EVG
	42189980	LE FE 1/49 M600L15 3800-840 LENS EVG
	42189983	LE FE 1/35 M625L15 2900-840 LENS EVG
	42189984	LE FE 1/49 M625L15 3800-840 LENS EVG
	42189867	LE FA 1/35 L15 2900-840 LENS EVG
	42189868	LE FA 1/49 L15 3800-840 LENS EVG
FEC / FEC2 / FED / FED2 / FEL / FEL2 2/28W/54W T16	42189845	LE FEA 2/28W L12 M600 840 LE EVG
	42189846	LE FEA 2/54W L12 M600 840 LE EVG
	42189985	LE FE 2/28 M600L12 4600-840 LENS EVG
	42189986	LE FE 2/54 M600L12 7100-840 LENS EVG
	42189989	LE FE 2/28 M625L12 4600-840 LENS EVG
	42189990	LE FE 2/54 M625L12 7100-840 LENS EVG
FEC / FEC2 / FED / FED2 / FEL / FEL2 2/35W/49W T16	42189847	LE FEA 2/35W L15 M600 840 LE EVG
	42189848	LE FEA 2/49W L15 M600 840 LE EVG
	42189987	LE FE 2/35 M600L15 5800-840 LENS EVG
	42189988	LE FE 2/49 M600L15 8000-840 LENS EVG
	42189991	LE FE 2/35 M625L15 5800-840 LENS EVG
	42189992	LE FE 2/49 M625L15 8000-840 LENS EVG

	REF	LENS	MPO	Module	Options
	●			L12 M600/M625	Light temperature: 830, 840, 930, 940 Optional: EVG switchable Dimmable DALI basicDIM Wireless Emergency light E3, E3D
	●				
		●		L12 M600	
		●			
		●		L12 M625	
		●			
		●		L12 surface	
		●			
	●			L15 M600/M625	
	●				
		●		L15 M600	
		●			
		●		L15 M625	
		●			
		●		L15 surface	
		●			
	●			L12 M600/M625	
	●				
		●	myPRODUCT	L12 M600	
		●	myPRODUCT		
		●	myPRODUCT	L12 M625	
		●	myPRODUCT		
	●			L15 M600/M625	
	●				
		●	myPRODUCT	L15 M600	
		●	myPRODUCT		
		●	myPRODUCT	L15 M625	
		●	myPRODUCT		
		●	myPRODUCT		
		●	myPRODUCT		

MIREL/MIRAL T16 REPLACEMENT

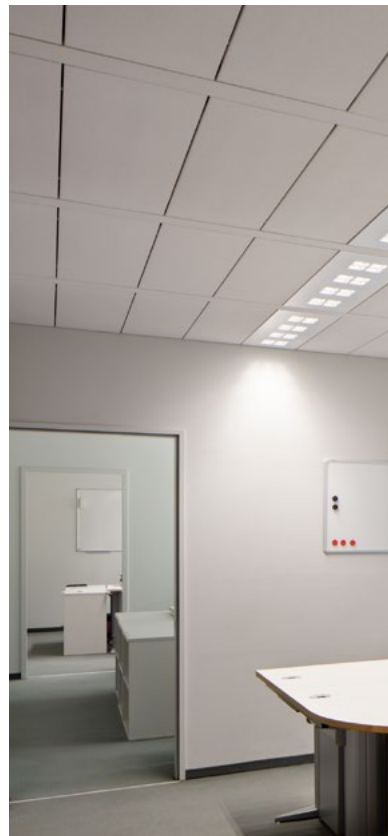
Original	Article no.	Product name
FEC B / FEC2 B / FED B FED2 B / FEL B / FEL2 B 2/28W/54W T16	42189849	LE FE B 2/28 M600L12 4600-840 LENS EVG
	42189850	LE FE B 2/54 M600L12 7100-840 LENS EVG
	42189993	LE FE B 2/28 M625L12 4600-840 LENS EVG
	42189994	LE FE B 2/54 M625L12 7100-840 LENS EVG
FEC B / FEC2 B / FED B FED2 B / FEL B / FEL2 B 2/35W/49W T16	42189851	LE FE B 2/35 M600L15 5800-840 LENS EVG
	42189852	LE FE B 2/49 M600L15 8000-840 LENS EVG
	42189995	LE FE B 2/35 M625L15 5800-840 LENS EVG
	42189996	LE FE B 2/49 M625L15 8000-840 LENS EVG
FEC B / FEC2 B / FED B FED2 B / FEL B / FEL2 B 2/3/4/14W T16	42189853	LE FE B 3/14 M600Q 3000-840 LENS EVG
	42189854	LE FE B 3/24 M600Q 4200-840 LENS EVG
	42189997	LE FE B 4/14 M600Q 3900-840 LENS EVG
	42189998	LE FE B 3/14 M625Q 2900-840 LENS EVG
	42189999	LE FE B 3/24 M625Q 4200-840 LENS EVG
	42190000	LE FE B 4/14 M625Q 3900-840 LENS EVG
Disassembly tool	22172421	FE/RE Refurbish demount tool

	REF	LENS	MPO	Module	Options
		●	myPRODUCT	L15 M600	Light colors: 830, 840, 930, 940 Optional: EVG switchable Dimmable DALI basicDIM Wireless Emergency light E3, E3D
		●	myPRODUCT		
		●	myPRODUCT	L15 M625	
		●	myPRODUCT		
		●	myPRODUCT	L15 M600	
		●	myPRODUCT		
		●	myPRODUCT	L15 M625	
		●	myPRODUCT		
		●		Q M600	
		●			
		●			
		●		Q M625	
		●			
		●			

MIREL/MIRAL T26 REPLACEMENT

Original	Article no.	Product name
REC / RED / REL / RES 1/36W/58W T26	42190371	LE RE 1/36 L12 3400-840 REF EVG
	42190372	LE RE 1/58 L15 4600-840 REF EVG
	42189857	LE RE 1/36 M600L12 2900-840 LENS EVG
	42189858	LE RE 1/58 M600L15 4000-840 LENS EVG
	42190367	LE RE 1/36 M625L12 2900-840 LENS EVG
	42190368	LE RE 1/58 M625L15 4000-840 LENS EVG
REC / RED / REL / RES 2/36W/58W T26	42190373	LE RE 2/36 L12 6600-840 REF EVG
	42190374	LE RE 2/58 L15 9000-840 REF EVG
	42189859	LE RE 2/36 M600L12 5800-840 LENS EVG
	42189860	LE RE 2/58 M600L15 7100-840 LENS EVG
	42190369	LE RE 2/36 M625L12 5800-840 LENS EVG
	42190370	LE RE 2/58 M625L15 7100-840 LENS EVG

	REF	LENS	MPO	Module	Options
	●			L12 M600/M625	Light colors: 830, 840, 930, 940 Optional: EVG switchable Dimmable DALI Emergency light E3, E3D
	●			L15 M600/M625	
		●	on request	L12 M600	
		●	on request	L15 M600	
		●	on request	L12 M625	
		●	on request	L15 M625	
	●			L12 M600/M625	
	●			L15 M600/M625	
		●	on request	L12 M600	
		●	on request	L15 M600	
		●	on request	L12 M625	
		●	on request	L15 M625	



European Patent Office, Munich | DE

Striving for CO₂ Neutrality: Successful implementation of energy-efficient lighting refurbishment. Energy-efficient, customized, and user-friendly: Zumtobel fulfills three requirements of the European Patent Office in Munich with one lighting solution. After nearly 30 years in operation, the lighting in the administrative building at the central Pschorr-Höfe location (BT1-6) had to be modernized, especially in light of the fluorescent lamp ban in 2023. With the state-of-the-art LED lighting solution, Zumtobel can save at least 78 percent of the primary energy demand for lighting in the property's offices. A significant step towards the European Patent Office's ambitious goal: to make all of the organisation's buildings CO₂-neutral by 2030.



T H E L I G H T



MIREL/MIRAL refurbishment set