



Distinctive LED luminaires with outstanding aesthetics, photometric performance and up to 94lm/w efficacy

- Recessed and semi-recessed LED luminaires (2500 and 3200lm) available with an opal or micro-prism technology diffuser
- Unique twin light chamber provides a smooth brightness transition and indirect/direct illumination
- Specifically designed to create a visually stimulating, extremely comfortable and uplifting environment using minimal energy
- Distinctive 70mm deep shallow body from deep drawn steel, to give superior strength and corner quality with no joins
- Quick and easy to install, supplied fully assembled in one box with external connector for fast electrical connection

### Applications

- Office
- Education
- Commercial
- Meeting Room
- Conference Room

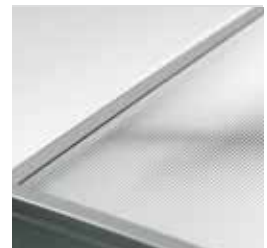
### LED Lamp Information

- Life time 50,000 Hours @L70 Ta 25C
- 3508lm (39W) / 2698lm (28W)
- 85 - 94 lm/W
- Colour Temperature 3000K and 4000K
- CRI 80
- SDCM MacAdams 3 initial

### Overview



Opal diffuser



MPT diffuser



Opal diffuser semi-recessed version



MPT diffuser semi-recessed version



Opal diffuser recessed version



MPT diffuser recessed version

**Standards**

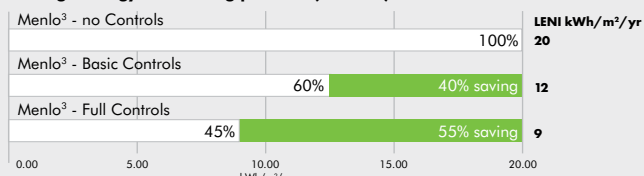


**Lamps**

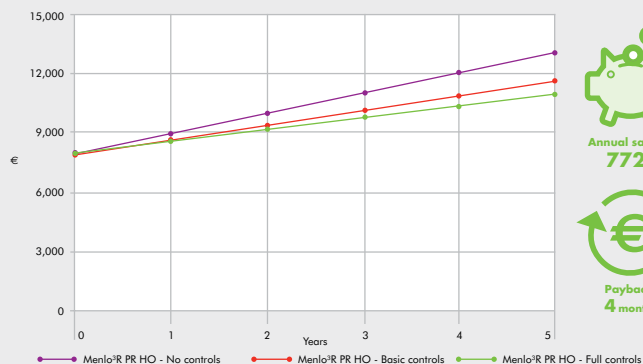


**Energy efficiency: Office – 15m x 15m x 2.8m | 500 lx**

**Average Energy Cost Saving per Year (Relative)**



Assumptions: Based on Menlo3R PR 3200lm. Basic controls assumes Manual on / Auto off (Absence Detection). Full controls assumes Absence Detection, Constant Illuminance & Daylight Detection



**Greater functionality and control**

Emergency luminaire spacing comparison for 0.5 lux open area:

	Maintenance Factor	BLF	Mounting Height (m)	Luminaire spacing (m)			
				Centre to end		Between centres	
			Trans	Axial	Trans	Axial	
<b>Menlo³ with LED emergency</b>	1	1	2.5	2.55	2.50	8.65	8.60
			3.0	2.60	2.60	9.15	9.10

BLF - Ballast Lumen Factor

**Easy to Comply**

Menlo³ has been designed in accordance with the following lighting regulations, making it easy to ensure that your lighting scheme complies.

Criteria for	Detail	Menlo³ LED
BREEAM	HEA4/5/6	✓
LENI	<20.82 kWh/m²/yr	✓
ECA*	including: >60Llm/w, UGR19	✓

\* ECA LED life testing on-going

**A Family of LED Solutions**

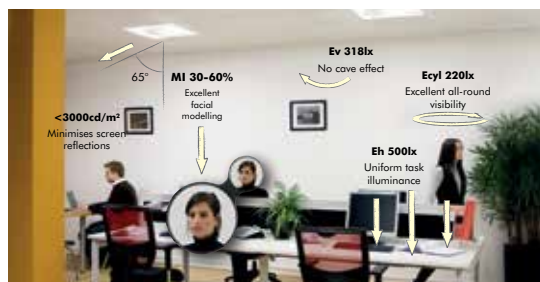
Maintaining the excellent photometric performance of the Menlo³ range, all LED versions have vastly improved efficacy, within the family of aesthetic options available.

	Menlo³ LED range		
	Recessed Opal	Semi-Recessed Opal	Circular
Lumen Output	3200lm	3300lm	3700lm
Efficacy	91Llm/w	94Llm/w	78Llm/w
Glare (Cd/m²)	<3000	<3000	<3000

**A real alternative to the traditional fluorescent equivalent**

The Menlo³ LED range provides excellent efficacy, yet maintains the superior lighting performance expected of the Menlo³ range.

	EN12464 Recommendation	Menlo³R PR	Menlo³R OP	Menlo³SR OP
Task Illuminance (Eh)	500 lux	513 lux	535 lux	505 lux
Glare	<3000Cd/m²	<3000Cd/m²	<3000Cd/m²	<3000Cd/m²
UGR	at or below 19	19	19	18
Cylindrical Illuminance (E <sub>cyl</sub> )	200 lux	196 lux	205 lux	212 lux
Modelling Index (MI)	30-60%	38%	38%	42%



**Materials/Finish**

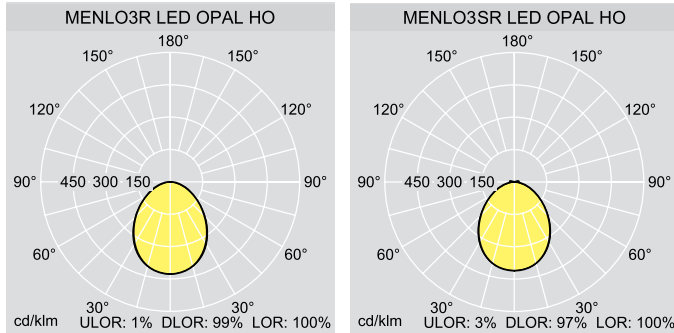
Body: deep drawn steel pre-painted white (RAL 9010)  
Light chamber/wings: extruded high purity acrylic (PMMA) bead suspended diffuser pearl finish  
Diffuser: high purity acrylic (PMMA) diffuser pearl finish  
MPT diffuser: Microprismatic and high purity acrylic (PMMA) pearl finish  
Suspension arms: moulded silver Polycarbonate

**Installation/Mounting**

Supplied fully assembled with protective film for quick, easy and clean installation. Suitable for lay-in installation into 15mm or 24, exposed tee ceilings. Unique 'wedge' brackets (included) are fitted externally via adjacent tile opening to allow pull up installation into most exposed tee or concealed grid ceilings without opening the luminaire. Electrical connection is quick and easy via externally mounted connector on back of body.

UK: Electrical connection via flush panel mounted GST 18/4 male connector (plug) for HF WL4 versions and GST 18/6 box T connector for dimmable WL6 versions which protrudes 30mm from back of body. E3TX emergency versions have an additional GST 18/3 box T connector (not mains rated) protruding 30mm for back of body. Appropriate female connectors (sockets) must be ordered separately (see Thorn Connect range) to electrically connect luminaires.

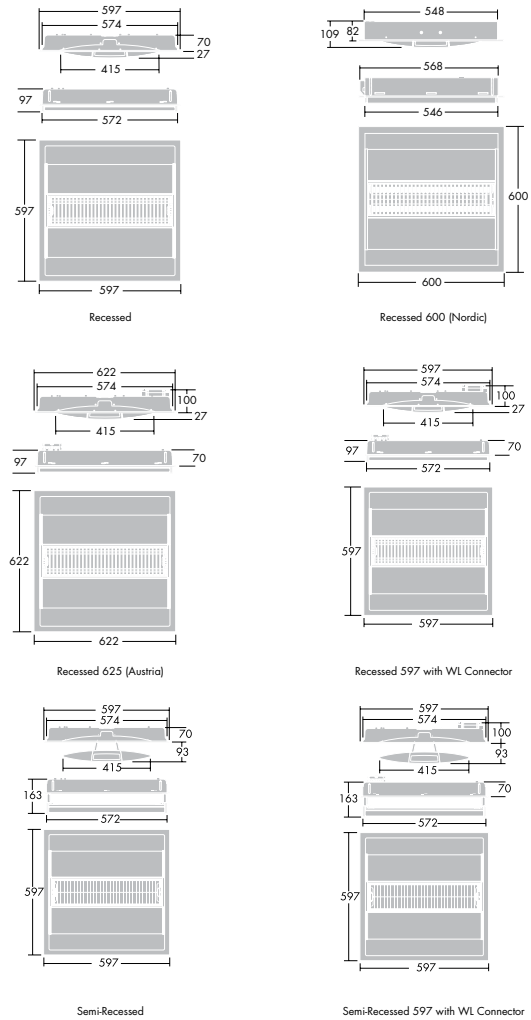
## Overview



## Specification

To specify state: Recessed mounted LED luminaire with shallow 70mm deep drawn body with distinctive diffusing pearl twin light chamber and MPT diffuser / Opal diffuser for direct / indirect lighting performance. Suitable for lay-in into exposed tee grids or for pull up into concealed grids with unique mini-wedge brackets and external electrical connection. DALI dimmable control gear with 3 hour manual or self / addressable test integral LED emergency versions.

To specify state: Semi-recessed mounted LED luminaire with shallow 70mm deep drawn body with suspended diffusing pearl optic and central MPT diffuser / Opal diffuser for direct / indirect lighting performance. Suitable for lay-in into exposed tee grids or for pull up into concealed grids with unique mini-wedge brackets and external electrical connection. DALI dimmable control gear with 3 hour manual or self / addressable test integral LED emergency versions.



## Standards



## Lamps



## Ordering Guide

Supplied complete with LEDs

Description	Wt (Kg)	SAP Code	Description	Wt (Kg)	SAP Code
<b>Menlo<sup>3</sup> Recessed LED</b>			<b>Nordic Range</b>		
<b>Menlo<sup>3</sup> Recessed LED Opal diffuser, dimmable</b>			<b>Menlo<sup>3</sup> Recessed LED</b>		
MENLO3R LED 2500 HFIX WL6 AC OP 597	5.5	96550946	<b>Menlo<sup>3</sup> Recessed LED Opal diffuser, dimmable</b>		
MENLO3R LED 3200 HFIX WL6 AC OP 597	5.5	96550947	MENLO3R LED 2500 HFIX ML AC OP 597	5.5	96550978
<b>Menlo<sup>3</sup> Recessed LED Opal diffuser, dimmable, emergency</b>			MENLO3R LED 2500 HFIX ML AC OP 597 3000K	5.5	96550990
MENLO3R LED 2500 HFIX E3 WL6 AC OP 597	5.7	96550950	MENLO3R LED 2500 HFIX WO5 AC OP 597	5.5	96550982
MENLO3R LED 2500 HFIX E3TX WL6 AC OP 597	5.7	96550954	MENLO3R LED 2500 HFIX WO5 AC OP 597 3000K	5.5	96550994
MENLO3R LED 3200 HFIX E3 WL6 AC OP 597	5.7	96550951	MENLO3R LED 2500 HFIX WO5 AC OP 600	7.1	96550986
MENLO3R LED 3200 HFIX E3TX WL6 AC OP 597	5.7	96550955	MENLO3R LED 2500 HFIX WO5 AC OP 600 3000K	7.1	96550998
<b>Menlo<sup>3</sup> Recessed LED Prismatic diffuser, dimmable</b>			MENLO3R LED 3200 HFIX ML AC OP 597	5.5	96550979
MENLO3R LED 2500 HFIX WL6 AC PR 597	5.7	96550948	MENLO3R LED 3200 HFIX ML AC OP 597 3000K	5.5	96550991
MENLO3R LED 3200 HFIX WL6 AC PR 597	5.7	96550949	MENLO3R LED 3200 HFIX WO5 AC OP 597	5.5	96550983
<b>Menlo<sup>3</sup> Recessed LED Prismatic diffuser, dimmable, emergency</b>			MENLO3R LED 3200 HFIX WO5 AC OP 597 3000K	5.5	96550995
MENLO3R LED 2500 HFIX E3 WL6 AC PR 597	5.9	96550952	MENLO3R LED 3200 HFIX WO5 AC OP 600	7.1	96550987
MENLO3R LED 2500 HFIX E3TX WL6 AC PR 597	5.9	96550956	MENLO3R LED 3200 HFIX WO5 AC OP 600 3000K	7.1	96550999
MENLO3R LED 3200 HFIX E3 WL6 AC PR 597	5.9	96550953	<b>Menlo<sup>3</sup> Recessed LED Opal diffuser, dimmable, emergency</b>		
MENLO3R LED 3200 HFIX E3TX WL6 AC PR 597	5.9	96550957	MENLO3R LED 2500 HFIX E3TX ML AC OP 597	5.7	96551002
<b>Menlo<sup>3</sup> Semi-Recessed LED</b>			MENLO3R LED 2500 HFIX E3TX WO5 AC OP 597	5.7	96551006
<b>Menlo<sup>3</sup> Semi-Recessed LED Opal diffuser, dimmable</b>			MENLO3R LED 3200 HFIX E3TX ML AC OP 597	5.7	96551003
MENLO3SR LED 2500 HFIX WL6 AC OP 597	5.3	96550958	MENLO3R LED 3200 HFIX E3TX WO5 AC OP 597	5.7	96551007
MENLO3SR LED 3300 HFIX WL6 AC OP 597	5.3	96550959	MENLO3R LED2500 HFIX E3TX ML AC OP 597 3K	5.7	96551010
<b>Menlo<sup>3</sup> Semi-Recessed LED Opal diffuser, dimmable, emergency</b>			MENLO3R LED3200 HFIX E3TX ML AC OP 597 3K	5.7	96551011
MENLO3SR LED 2500 HFIX E3 WL6 AC OP 597	5.5	96550962	MENLO3R LED3200 HFIX E3TX WO5 AC OP597 3K	5.7	96551015
MENLO3SR LED 2500 HFIX E3TX WL6 AC OP 597	5.5	96550966	<b>Menlo<sup>3</sup> Recessed LED Prismatic diffuser, dimmable</b>		
MENLO3SR LED 3300 HFIX E3 WL6 AC OP 597	5.5	96550963	MENLO3R LED 2500 HFIX ML AC PR 597	5.7	96550980
MENLO3SR LED 3300 HFIX E3TX WL6 AC OP 597	5.5	96550967	MENLO3R LED 2500 HFIX ML AC PR 597 3000K	5.7	96550992
<b>Menlo<sup>3</sup> Semi-Recessed LED Prismatic diffuser, dimmable</b>			MENLO3R LED 2500 HFIX WO5 AC PR 597	5.7	96550984
MENLO3SR LED 2500 HFIX WL6 AC PR 597	5.5	96550960	MENLO3R LED 2500 HFIX WO5 AC PR 597 3000K	5.7	96550996
MENLO3SR LED 3300 HFIX WL6 AC PR 597	5.5	96550961	MENLO3R LED 2500 HFIX WO5 AC PR 600	7.3	96550988
<b>Menlo<sup>3</sup> Semi-Recessed LED Prismatic diffuser, dimmable, emergency</b>			MENLO3R LED 2500 HFIX WO5 AC PR 600 3000K	7.3	96551000
MENLO3SR LED 2500 HFIX E3 WL6 AC PR 597	5.7	96550964	MENLO3R LED 3200 HFIX ML AC PR 597	5.7	96550981
MENLO3SR LED 2500 HFIX E3TX WL6 AC PR 597	5.7	96550968	MENLO3R LED 3200 HFIX ML AC PR 597 3000K	5.7	96550993
MENLO3SR LED 3300 HFIX E3 WL6 AC PR 597	5.7	96550965	MENLO3R LED 3200 HFIX WO5 AC PR 597	5.7	96550985
MENLO3SR LED 3300 HFIX E3TX WL6 AC PR 597	5.7	96550969	MENLO3R LED 3200 HFIX WO5 AC PR 597 3000K	5.7	96550997
<b>French Range</b>			MENLO3R LED 3200 HFIX WO5 AC PR 600	7.3	96550989
<b>Menlo<sup>3</sup> Recessed LED</b>			MENLO3R LED 3200 HFIX WO5 AC PR 600 3000K	7.3	96551001
<b>Menlo<sup>3</sup> Recessed LED Opal diffuser, dimmable</b>			<b>Menlo<sup>3</sup> Recessed LED Prismatic diffuser, dimmable, emergency</b>		
MENLO3R LED 2500 HFIX IS5 AC OP 597	5.7	96550970	MENLO3R LED 2500 HFIX E3TX ML AC PR 597	5.9	96551004
MENLO3R LED 3200 HFIX IS5 AC OP 597	5.7	96550971	MENLO3R LED 2500 HFIX E3TX WO5 AC PR 597	5.9	96551008
<b>Menlo<sup>3</sup> Recessed LED Prismatic diffuser, dimmable</b>			MENLO3R LED 3200 HFIX E3TX ML AC PR 597	5.9	96551005
MENLO3R LED 2500 HFIX IS5 AC PR 597	5.9	96550972	MENLO3R LED 3200 HFIX E3TX WO5 AC PR 597	5.9	96551009
MENLO3R LED 3200 HFIX IS5 AC PR 597	5.9	96550973	MENLO3R LED2500 HFIX E3TX ML AC PR 597 3K	5.9	96551012
<b>Menlo<sup>3</sup> Semi-Recessed LED</b>			MENLO3R LED2500 HFIX E3TX WO5 AC PR597 3K	5.9	96551016
<b>Menlo<sup>3</sup> Semi-Recessed LED Opal diffuser, dimmable</b>			MENLO3R LED3200 HFIX E3TX ML AC PR 597 3K	5.9	96551013
MENLO3SR LED 2500 HFIX IS5 AC OP 597	5.5	96550974	MENLO3R LED3200 HFIX E3TX WO5 AC PR597 3K	5.9	96551017
MENLO3SR LED 3300 HFIX IS5 AC OP 597	5.5	96550975	<b>Austrian Range</b>		
<b>Menlo<sup>3</sup> Semi-Recessed LED Prismatic diffuser, dimmable</b>			<b>Menlo<sup>3</sup> Recessed LED</b>		
MENLO3SR LED 2500 HFIX IS5 AC PR 597	5.7	96550976	<b>Menlo<sup>3</sup> Recessed LED Opal diffuser, dimmable</b>		
MENLO3SR LED 3300 HFIX IS5 AC PR 597	5.7	96550977	MENLO3R LED 2500 HFIX IS5 AC OP 625	5.7	96551018
			MENLO3R LED 3200 HFIX IS5 AC OP 625	5.7	96551019
			<b>Menlo<sup>3</sup> Recessed LED Prismatic diffuser, dimmable</b>		
			MENLO3R LED 2500 HFIX IS5 AC PR 625	5.9	96551020
			MENLO3R LED 3200 HFIX IS5 AC PR 625	5.9	96551021
			<b>Menlo<sup>3</sup> Recessed Accessories</b>		
CONNECT EM S3 R	Wieland GST 3 pole socket for connecting E3TX luminaires	0.02	96503766		
CONNECT S6 B	Wieland GST 6 pole socket for connecting HFI luminaires	1.00	96233052		
GRIPPLE SAFETY WIRE		0.01	96239327		

HFI Digital dimmable electronic ballast with DALI and DSI function  
 WL6 Wieland GST 6 pole connector  
 WL5 Wieland GST 5 pole connector  
 E3 3hr Emergency function, manual test  
 E3TX 3hr Emergency function, selftest/addressable test