



Guidance Notes Convention 7.01 - Lighting Options in SBEM

The convention is...

If the circuit wattage and lux values cannot be ascertained by either of the above methods it may be possible to use the 'Lighting chosen but calculation not carried out' option where **BOTH** the lumens per circuit wattage (Im/cw) and light output ratio (LOR) must be entered, calculated in line with building regulations guidance. This may not be possible for all zone activity selections. The evidence of how any values used have been obtained must be provided in the site notes.

a) If the lm/cw are known for the entire light fitting including the integral lamp(s) or LED chip(s) the LOR is 1

b) If the Im/cw are known for the lamp the LOR for the luminaire also must be obtained in order to use this information; except in the case of directional (downlight type) lamps which are not shielded by the luminaire or behind a diffuser in which case the LOR is 1

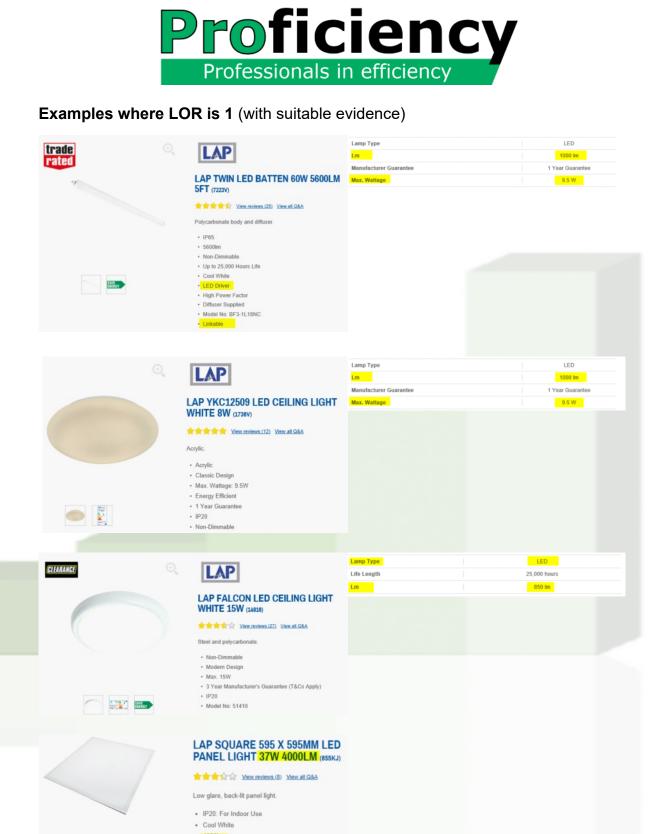
c) A "bulb" type lamp is not directional, so the LOR cannot be assumed to be 1 even if the bulb is not within a fitting or shade.

What it replaced was...

If the circuit wattage and lux values cannot be ascertained by either of the above methods it may be possible to use the 'Lighting chosen but calculation not carried out' option where the lumens per circuit wattage must be entered, calculated in line with building regulations guidance. This may not be possible for all zone activity selections. The evidence of how the values for lamp lumens and circuit wattage must be provided in the site notes.

In the following pages we will attempt to clarify the application of this convention with examples of which lighting types are applicable for paragraph a).

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rated	⊕,	LUCECO	Light Bulb(s) Supplied	Integrated LED
			Light Bulb Technology	LED
		LUCECO FTYPE FIXED FIRE RATED LED DOWNLIGHT WHITE 6W 600LM (70487)	Lm	600 lm
			Power Consumption	6 W
		The second secon		
		Integrated LED fire rated downlight. Fully dimmable with interchangeable bezel. Supplied with white twist and lock bezel.		
- 💍 🆸 🧈	•	IP65 Cool White Golim Auminium & Steel Body Up to 25,000 Hours Life		
▶ video		Dimmable Fire Rated to 30, 60 & 90mins		

Examples where LOR is NOT 1 (Irrespective of the lamp type within the fitting)

For these you need to know both the output of the lamp (lumens per circuit watt) and the light output ratio of the fitting. i.e. how much of the light gets out of the fitting in the right direction.

trade O	LAP	Lamp Type Length (Imperial)	<u> 78</u> 5'
rated		Length (Imperial)	5
	LAD TO HIGH EDEOLIENCY DALLAST	Life Length	10,000 hours
	LAP T8 HIGH FREQUENCY BALLAST WEATHERPROOF BATTEN 1 X 58W	Lm	5220 lm
	5' (1565MM) (59928)		
	👷 🚖 🚖 👔 View reviews (26) View all O&A		
INCLUDES LAMP &	Tough polycarbonate body and diffuser.		
DIFFUSER	• IP65		
	Non-Dimmable		
	High Power Factor		
	 Non-Emergency Lighting 		
	 High Frequency Ballast 		
	 Model No: 40005 		
	 Electronic High Frequency Ballast for Increased Energy Efficiency 		
	Reduced Flicker		
	• 10.000hr T8 Tube		
	Diffuser Included		
trade	HALF CIRCULAR CEILING LIGHT	Lamp Type	E27 GLS
	CHROME 60W (71298)	Manufacturer Guarantee	1 Year Guarantee
rated		Max. Wattage	60 W
	The second secon		
-	Steel and glass. Acid glass diffuser.		
	Dimmer Compatible		
	Traditional Design		
a 2	 Max. 60W 		
	1 Year Guarantee		
	Outside Zone		
	• IP20		
	 Model No: 21290 		
	 Wodel No. 21290 		

Paragraph a) cannot be applied to any of the following: (Irrespective of the lamp type within the fitting)

- An exposed bulb, whether in a lamp shade or not. (Paragraph c) applies).
- A fitting which is designed to accept a range of different lamps. (*Paragraph b*) may apply if you have <u>both</u> the *Im/cw* for the specific lamp and the LOR for the fitting).

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Disclaimer

Hopefully this will provide some clarity on the purpose and application of convention 7.01 - Lighting Options in SBEM.

Ultimately the arbiters of what you must do are your accreditation scheme, and their decision is the final one. The above does not override any guidance or instruction you are given by your scheme.

(This guidance is part of the CPD that was delivered by Proficiency in conjunction with Elmhurst in February 2023. Should you receive guidance from any scheme which contradicts anything in this document, please let us know. In that instance we can explore the reasons and either update this guidance or challenge the scheme to justify or correct theirs).

This guidance is believed to be correct at the date of writing but may not remain correct should conventions or cross scheme guidance be altered. Conventions issue 8.0 is current at time of issue.

February 2023 V1.0

Copyright note

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