

SAGA TABLE LIGHTING SET FOR MEETING ROOMS

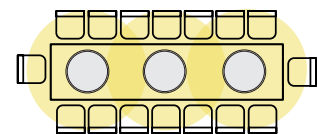
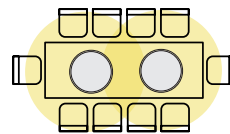
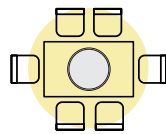
SET SPECIFICATION

PERFORMANCE PARAMETERS

Saga table lighting set for meeting rooms is designed to be used in a meeting room and will, under representative conditions, provide Biocentric light (BCL) for the people sitting around the meeting room table. The BCL impact (circadian impact) is measured by lux mEDI or CS. The key design parameter is the BCL impact, which benefits everyone sitting around the tables when the conditions below are met.

- Those sitting around the tables are facing the tables.
- The light recipe* is at system max.
- The table size is within the specified size range.

	Conf room 1x SAGA	Conf room 2x SAGA	Conf room 3x SAGA
Table size	up to 2m	up to 3,2m	up to 5,2m
Seats	up to 6	up to 10	up to 16
BCL impact facing table	> 300lux mEDI / 0,38 CS	> 450lux mEDI / 0,45 CS	> 450lux mEDI / 0,45 CS



In addition to key design parameter there is significant added value in terms of visual light quality, flicker, energy efficiency and sustainability.

Added value	Conf room 1x SAGA	Conf room 2x SAGA	Conf room 3x SAGA
Work surface illuminance	> 650lux	> 800lux	> 800lux
Floor illuminance	> 200lux	> 300lux	> 300lux
Efficacy		75lm/W	
mDER		46-96%	
CRI		>90	
Flicker handling	$P_{st}^{LM} \leq 1$, SVM $\leq 0,4$, IEEE 1789 comp.		
Life time	> 100 000h (L70B50), 0,87 (LLMF)		
Energy consumption per 24h	0,49kWh	0,89kWh	1,3kWh

* The light recipe is developed and tailored specifically for an office environment, ensuring that the user receives the right light at the right time to maintain a healthy circadian rhythm.

PERFORMANCE CONDITIONS

The BCL impact specification is based on light design modelling using DIALUX and cross correlated with measurements in realizations of spaces according to the conditions. The representative conditions are based on typical space conditions for a conference room and for the length of conference tables. Users are represented by multiple, evenly spaced, 1m² positions, each by average of semi-cylindrical surfaces facing the conference table at 1,2m above the floor.

Typical conditions for reflectivity of space surfaces from EN 12464-1:2021, table height and luminaire placement are assumed, and the performance applies when the installation site match these representative conditions. The solution can be used also in spaces that do not match these conditions, but the resulting performance parameters will then deviate from what is stated above.

Modelling parameters		Conf room 1x SAGA	Conf room 2x SAGA	Conf room 3x SAGA
Space width	m	3,8	3,8	3,8
Space length	m	3,8	5,4	6,8
Space height	m	2,7	2,7	2,7
Floor reflectivity	arbu	0,3	0,3	0,3
Wall reflectivity	arbu	0,6	0,6	0,6
Ceiling reflectivity	arbu	0,8	0,8	0,8
Table width	m	1,4	1,4	1,4
Table length	m	2	3,2	5,2
Table height	m	0,73	0,73	0,73
Table reflectivity	arbu	0,5	0,5	0,5
Table placement	Center of room			
Luminaire height	m	1,8	1,8	1,8
Luminaire placement	Center of table			

Energy consumption is calculated based on utility conditions for the use case in question and for the default light recipe running on the system. Utility conditions follows the standard SS-EN 15193.