ASK ROOM LIGHTING SET FOR MEETING ROOMS

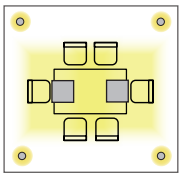
SET SPECIFICATION

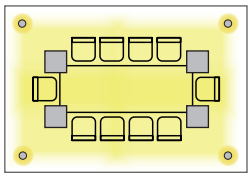
PERFORMANCE PARAMETERS

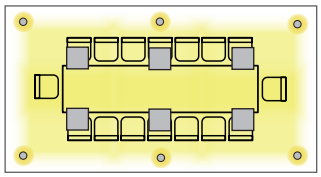
Ask room lighting set for meeting rooms is designed to be used in a meeting room and will, under representative conditions, provide Biocentric light (BCL) for the people sitting around the meeting room table. The BCL impact (circadian impact) is measured by lux mEDI or CS. The key design parameter is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

	2 x ASK + 4 x TYR	4 x ASK + 4 x TYR	6 x ASK + 6 x TYR
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	> 350lux mEDI*/ 0,41 CS	> 400lux mEDI*/ 0,43 CS	> 550lux mEDI*/ 0,47 CS
EN12464-1 compliant	Yes	Yes	Yes
Modeled room size (LxWxH)	3,8 x 3,8 x 2,7 (m)	5,6 x 3,8 x 2,7 (m)	7,6 x 3,8 x 2,7 (m)







* 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.

BRAINLIT

In addition to key design parameter there is significant added value in terms of a room light solution complying with standard requirements and visual light quality, flicker, energy efficiency and sustainability.

Added value	**Conf room 2x Ask 4x Tyr**	**Conf room 4x Ask 4x Tyr**	**Conf room 6x Ask 6x Tyr**
Work surface illuminance	> 650lux	> 650lux	> 900lux
Adjacent floor illuminance	> 500lux	> 700lux	> 800lux
Average cylindrical illuminance	> 250lux	> 350lux	> 500lux
Ambient light level	> 250lux	> 350lux	> 400lux
Max glare rating	18	18	19
Efficacy	80lm/W		
mDER	40% - 108%		
CRI	>90		
Flicker handling	P_{st}^{LM} ≤1, SVM ≤0,4, IEEE 1789 comp.		
Life time	83 000h (L70B50), 0,81 (LLMF)		
Energy consumption per 24h	1,3kWh	2,2kWh	3,2kWh

PERFORMANCE CONDITIONS

The BCL impact and visual light specification are based on light design modelling using DIALUX and cross correlated with measurements in realizations of spaces according to the conditions. Representative conditions are chosen based on typical space conditions for a conference room for the specified conference table length. Users are represented by multiple, evenly spaced, 1m^2 positions, each by average of semicylindrical 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 will hold true as long as the installation site match these representative conditions. The solution can be used also in spaces that do not match these conditions and the resulting performance parameters will then deviate from what is stated above.

Modelling parameters		**Conf room 2x Ask 4x Tyr**	**Conf room 4x Ask 4x Tyr**	**Conf room 6x Ask 6x Tyr**
Space width	m	3,8	3,8	3,8
Space length	m	3,8	5,6	7,6
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	arbu	Center of room	Center of room	Center of room
Luminaire height	m	In ceiling	In ceiling	In ceiling
Luminaire placement				
User position				
Maintenance factor used in Dialux		1,0	1,0	1,0

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.