

**Project 1**

OliNo Energy BV

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**Econe EC905-840-002-10 Led tube T8 60 cm / UGR-Table**

Luminaire: Econe EC905-840-002-10 Led tube T8 60 cm

Lamps: 144 x LED

<b>Glare Evaluation According to UGR</b>											
$\rho$ Ceiling		70	70	50	50	30	70	70	50	50	30
$\rho$ Walls		50	30	50	30	30	50	30	50	30	30
$\rho$ Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	20.6	21.9	21.1	22.3	22.7	20.2	21.5	20.7	21.9	22.3
	3H	22.7	23.9	23.2	24.3	24.8	21.9	23.1	22.4	23.5	24.0
	4H	23.7	24.8	24.2	25.2	25.7	22.5	23.6	23.0	24.1	24.6
	6H	24.6	25.6	25.1	26.1	26.6	22.9	23.9	23.4	24.4	25.0
	8H	25.0	26.0	25.5	26.4	27.0	23.0	24.0	23.5	24.5	25.0
	12H	25.4	26.3	25.9	26.8	27.3	23.0	24.0	23.6	24.5	25.0
4H	2H	21.1	22.2	21.6	22.7	23.2	20.8	21.9	21.3	22.4	22.9
	3H	23.5	24.4	24.0	24.9	25.5	22.8	23.7	23.3	24.2	24.8
	4H	24.6	25.5	25.2	26.0	26.6	23.5	24.4	24.1	24.9	25.5
	6H	25.7	26.4	26.3	27.0	27.6	24.0	24.8	24.6	25.3	25.9
	8H	26.2	26.9	26.8	27.5	28.1	24.2	24.9	24.8	25.4	26.1
	12H	26.7	27.3	27.3	27.9	28.5	24.3	24.9	24.9	25.5	26.1
8H	4H	24.9	25.6	25.5	26.2	26.8	24.0	24.7	24.6	25.2	25.9
	6H	26.2	26.8	26.8	27.4	28.1	24.7	25.3	25.3	25.9	26.6
	8H	26.9	27.4	27.5	28.0	28.7	25.0	25.5	25.6	26.1	26.8
	12H	27.5	28.0	28.2	28.6	29.3	25.1	25.6	25.8	26.2	26.9
12H	4H	25.0	25.6	25.5	26.2	26.8	24.1	24.7	24.7	25.3	25.9
	6H	26.3	26.8	26.9	27.4	28.1	24.9	25.4	25.5	26.0	26.7
	8H	27.0	27.5	27.7	28.1	28.8	25.2	25.7	25.9	26.3	27.0
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.2					+0.2 / -0.3				
S = 2.0H		+0.3 / -0.5					+0.4 / -0.5				
Standard table		BK08					BK06				
Correction Summand		10.8					8.5				
Corrected Glare Indices referring to 880lm Total Luminous Flux											

The UGR values have been calculated according to CIE Publ. 117 Spacing-to-Height-Ratio = 1.00.