

**Project 1**

OliNo Energy BV

 Operator Marcel van der Steen  
 Telephone  
 Fax  
 e-Mail

**Econe EC905-830-001-10 Led tube T8 60 cm / UGR-Table**

Luminaire: Econe EC905-830-001-10 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	24.4	25.8	24.7	26.0	26.2	24.5	25.9	24.8	26.1	26.3
	3H	26.3	27.5	26.6	27.7	28.0	26.0	27.2	26.4	27.5	27.8
	4H	26.9	28.1	27.3	28.3	28.6	26.5	27.6	26.8	27.9	28.2
	6H	27.4	28.4	27.7	28.7	29.0	26.7	27.8	27.1	28.1	28.4
	8H	27.5	28.5	27.9	28.8	29.2	26.7	27.8	27.1	28.1	28.4
	12H	27.6	28.6	28.0	28.9	29.2	26.7	27.7	27.1	28.0	28.4
4H	2H	25.0	26.1	25.3	26.4	26.7	25.1	26.2	25.4	26.5	26.8
	3H	27.0	28.0	27.4	28.3	28.7	26.8	27.8	27.2	28.1	28.5
	4H	27.9	28.7	28.3	29.1	29.4	27.5	28.3	27.9	28.7	29.0
	6H	28.4	29.2	28.9	29.6	30.0	27.8	28.5	28.2	28.9	29.3
	8H	28.6	29.3	29.1	29.7	30.1	27.9	28.6	28.3	29.0	29.4
	12H	28.8	29.4	29.2	29.8	30.3	27.9	28.5	28.3	28.9	29.4
8H	4H	28.1	28.8	28.6	29.2	29.6	27.8	28.5	28.2	28.9	29.3
	6H	28.8	29.4	29.3	29.8	30.3	28.3	28.8	28.7	29.3	29.7
	8H	29.1	29.6	29.6	30.1	30.6	28.4	28.9	28.9	29.3	29.8
	12H	29.4	29.8	29.8	30.2	30.7	28.5	28.9	29.0	29.4	29.9
12H	4H	28.1	28.8	28.6	29.2	29.6	27.8	28.4	28.3	28.8	29.3
	6H	28.9	29.4	29.4	29.8	30.3	28.3	28.8	28.8	29.3	29.8
	8H	29.2	29.6	29.7	30.1	30.6	28.5	28.9	29.0	29.4	29.9
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 / -0.3					+0.3 / -0.4				
S = 2.0H		+0.4 / -0.6					+0.5 / -0.9				
Standard table		BK06					BK05				
Correction Summand		12.2					11.2				
Corrected Glare Indices referring to 973lm Total Luminous Flux											

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