

OliNo Energy BV

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## LedLighting BV 001 PPL-150 led tube with opal cover / UGR-Table

 Luminaire: LedLighting BV 001 PPL-150 led tube with opal cover  
 Lamps: 1 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	18.9	20.3	19.3	20.6	20.9	18.6	19.9	19.0	20.3	20.6
	3H	21.0	22.2	21.4	22.6	23.0	20.3	21.6	20.8	21.9	22.3
	4H	22.0	23.1	22.4	23.5	23.9	21.0	22.1	21.4	22.5	22.9
	6H	22.8	23.9	23.3	24.3	24.7	21.4	22.5	21.9	22.9	23.3
	8H	23.2	24.3	23.7	24.7	25.1	21.6	22.6	22.0	23.0	23.4
	12H	23.6	24.6	24.1	25.0	25.5	21.6	22.6	22.1	23.0	23.5
4H	2H	19.5	20.6	19.9	21.0	21.4	19.2	20.4	19.7	20.8	21.2
	3H	21.9	22.8	22.3	23.3	23.7	21.2	22.2	21.7	22.7	23.1
	4H	23.0	23.9	23.5	24.3	24.8	22.0	22.9	22.5	23.4	23.8
	6H	24.0	24.8	24.5	25.3	25.8	22.6	23.4	23.1	23.9	24.4
	8H	24.5	25.3	25.0	25.7	26.3	22.8	23.5	23.3	24.0	24.6
	12H	25.0	25.7	25.5	26.2	26.7	22.9	23.6	23.4	24.1	24.6
8H	4H	23.3	24.0	23.8	24.5	25.1	22.5	23.2	23.0	23.7	24.3
	6H	24.6	25.2	25.1	25.7	26.3	23.3	23.9	23.9	24.4	25.0
	8H	25.2	25.8	25.8	26.3	26.9	23.6	24.2	24.2	24.7	25.3
	12H	25.9	26.4	26.5	26.9	27.5	23.8	24.3	24.4	24.8	25.5
12H	4H	23.4	24.0	23.9	24.5	25.1	22.6	23.3	23.1	23.8	24.3
	6H	24.7	25.2	25.3	25.8	26.4	23.5	24.0	24.1	24.6	25.2
	8H	25.4	25.9	26.0	26.4	27.1	23.9	24.4	24.5	24.9	25.5
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					+0.3 / -0.6				
Standard table		BK08					BK06				
Correction Summand		5.9					3.8				
Corrected Glare Indices referring to 2138lm Total Luminous Flux											

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