

OliNo Energy BV

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CLS-LED Ultima U-1-1-4-03-3 MW MFLD30deg dimmable Ultima 30deg Dimmable / UGR-Table

Luminaire: CLS-LED Ultima U-1-1-4-03-3 MW MFLD30deg dimmable Ultima 30deg Dimmable
 Lamps: 16 x LED

Glare Evaluation According to UGR											
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	
ρ Walls	50	30	50	30	30	50	30	50	30	30	
ρ 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	5.7	6.4	6.0	6.6	6.8	5.9	6.6	6.1	6.8	6.9
	3H	7.2	7.8	7.4	8.0	8.2	7.3	7.9	7.6	8.2	8.4
	4H	7.6	8.2	7.9	8.5	8.7	7.8	8.4	8.1	8.7	8.9
	6H	8.0	8.6	8.4	8.8	9.1	8.8	9.4	9.1	9.6	9.9
	8H	8.2	8.7	8.5	9.0	9.3	9.5	10.0	9.9	10.3	10.6
	12H	8.3	8.8	8.6	9.1	9.4	9.9	10.4	10.3	10.7	11.0
4H	2H	6.2	6.8	6.5	7.0	7.3	6.3	6.9	6.6	7.2	7.4
	3H	7.8	8.3	8.2	8.6	8.9	8.0	8.4	8.3	8.7	9.1
	4H	8.4	8.9	8.8	9.2	9.5	8.7	9.1	9.0	9.4	9.7
	6H	9.0	9.3	9.4	9.7	10.1	9.9	10.2	10.3	10.6	11.0
	8H	9.2	9.5	9.6	9.9	10.3	10.8	11.1	11.2	11.5	11.9
	12H	9.3	9.6	9.8	10.0	10.4	11.3	11.6	11.8	12.0	12.4
8H	4H	8.7	9.0	9.1	9.4	9.8	8.9	9.2	9.3	9.6	10.0
	6H	9.4	9.6	9.8	10.0	10.5	10.3	10.6	10.8	11.0	11.4
	8H	9.6	9.8	10.1	10.3	10.7	11.6	11.8	12.1	12.2	12.7
	12H	9.9	10.0	10.4	10.5	11.0	12.3	12.5	12.8	13.0	13.5
12H	4H	8.8	9.0	9.2	9.4	9.9	8.9	9.2	9.3	9.6	10.0
	6H	9.5	9.7	10.0	10.1	10.6	10.4	10.6	10.9	11.0	11.5
	8H	9.8	10.0	10.3	10.5	11.0	11.8	12.0	12.3	12.4	12.9
Variation of the observer position for the luminaire distances S											
S = 1.0H	+2.9 / -2.0					+2.1 / -1.2					
S = 1.5H	+5.1 / -2.5					+4.0 / -1.5					
S = 2.0H	+7.0 / -2.9					+5.7 / -1.9					
Standard table	BK02					BK03					
Correction Summand	-7.7					-6.6					
Corrected Glare Indices referring to 1590lm Total Luminous Flux											

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