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## TONS DG-9931RL(ZHT-C35-24D) / UGR-Table

Luminaire: TONS DG-9931RL(ZHT-C35-24D)

Lamps: 1 x CREE CMB1306-0000-00PN0U0A30H RA90 300mA

Glare Evaluation According to UGR											
$\rho$ 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	3.5	4.1	3.7	4.3	4.5	3.5	4.1	3.7	4.3	4.5
	3H	3.3	3.9	3.6	4.1	4.4	3.3	3.9	3.6	4.1	4.4
	4H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3
	6H	3.2	3.7	3.5	4.0	4.2	3.2	3.7	3.5	4.0	4.2
	8H	3.1	3.6	3.5	3.9	4.2	3.1	3.6	3.5	3.9	4.2
	12H	3.1	3.6	3.4	3.9	4.2	3.1	3.6	3.4	3.9	4.2
4H	2H	3.2	3.8	3.5	4.0	4.3	3.2	3.8	3.5	4.0	4.3
	3H	3.1	3.6	3.4	3.9	4.2	3.1	3.6	3.4	3.9	4.2
	4H	3.0	3.4	3.4	3.7	4.1	3.0	3.4	3.4	3.7	4.1
	6H	3.0	3.3	3.4	3.6	4.0	3.0	3.3	3.4	3.6	4.0
	8H	2.9	3.2	3.3	3.6	4.0	2.9	3.2	3.3	3.6	4.0
	12H	2.9	3.1	3.3	3.5	3.9	2.9	3.1	3.3	3.5	3.9
8H	4H	2.9	3.2	3.3	3.6	4.0	2.9	3.2	3.3	3.6	4.0
	6H	2.8	3.0	3.3	3.5	3.9	2.8	3.0	3.3	3.5	3.9
	8H	2.8	3.0	3.2	3.4	3.9	2.8	3.0	3.2	3.4	3.9
	12H	2.7	2.9	3.2	3.3	3.8	2.7	2.9	3.2	3.3	3.8
12H	4H	2.9	3.1	3.3	3.5	3.9	2.9	3.1	3.3	3.5	3.9
	6H	2.8	3.0	3.2	3.4	3.9	2.8	3.0	3.2	3.4	3.9
	8H	2.7	2.9	3.2	3.3	3.8	2.7	2.9	3.2	3.3	3.8
Variation of the observer position for the luminaire distances S											
S = 1.0H		+4.9 / -19.4					+4.9 / -19.4				
S = 1.5H		+7.7 / -32.0					+7.7 / -32.0				
S = 2.0H		+9.7 / -33.7					+9.7 / -33.7				
Standard table		BK00					BK00				
Correction Summand		-16.2					-16.2				
Corrected Glare Indices referring to 1474lm Total Luminous Flux											

The UGR values have been calculated according to CIE Publ. 117    Spacing-to-Height-Ratio = 0.25.