

X-RANGE

EN 12464-1:2011
5.12.1 Food stuffs and luxury food industry
200lx - UGR \leq 25
U_o \geq 0,4 - Ra \geq 80

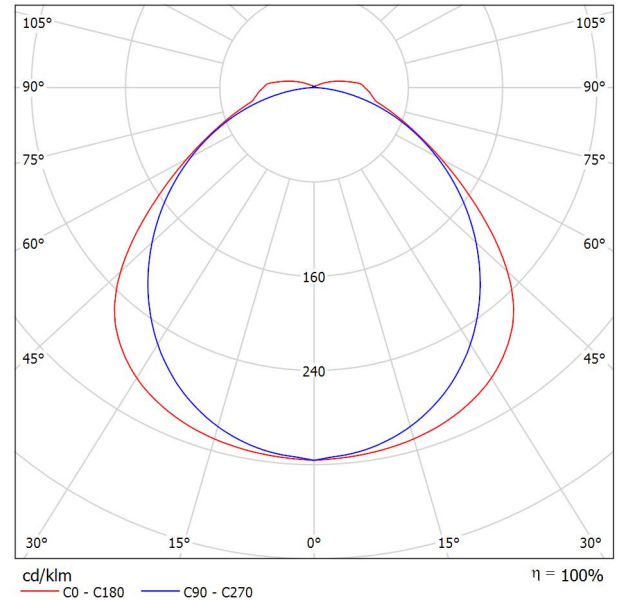
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TRILUX Olexeon 1500 B 6000-840 ETDD / Luminaire Data Sheet



Luminous emittance 1:



Luminaire classification according to CIE: 96
 CIE flux code: 46 78 93 96 100

LED weather-proof surface-mounted luminaire IP66. For ceiling, wall and suspended mounting. Suspended mounting possible via optional accessories. Mounting with stainless steel fixing clamps (included). With symmetric wide light intensity distribution. Luminaire luminous flux 5700 lm, connected load 53 W, luminous efficiency of luminaire 108 lm/W. Light colour neutral white, colour temperature 4000 K, colour rendering index Ra > 80. service life L80(tq 25 °C) = 35,000 h, service life L70(tq 25 °C) = 50,000 h. Luminaire body of glass fibre-reinforced polyester, similar to RAL 7035 light grey. Diffuser of PMMA. Dimensions (L x W): 1500 mm x 88 mm, luminaire height 77 mm. Safety class I, protection rating IP66, impact resistance IK04/0,5 J, heat resistance 650 °C. Rapid-mount luminaire with Wieland rapid plug system. 5-pole-version for dimmable luminaires. Connection socket at one head side. With electronic transformer, digitally dimmable (DALI).

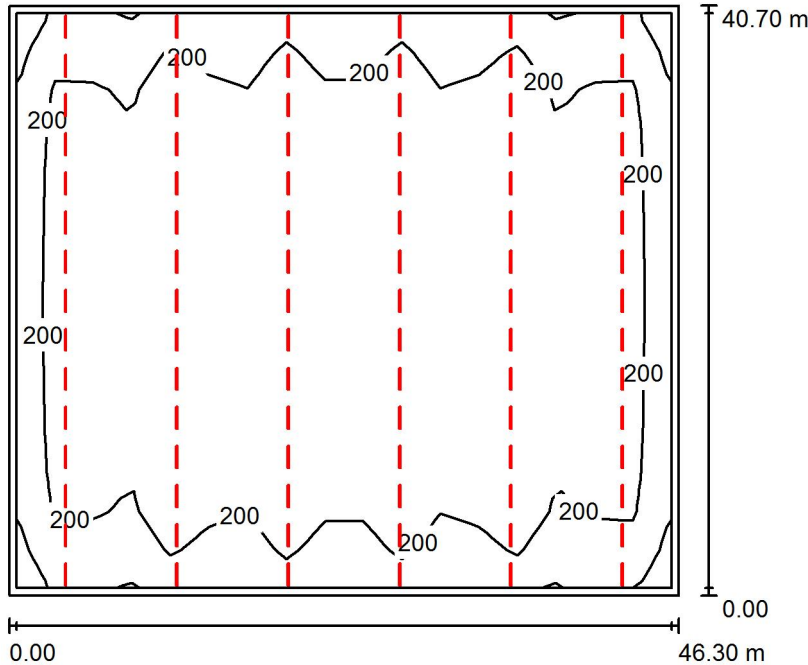
Luminous emittance 1:

Glare Evaluation According to UGR											
	70	70	50	50	30	70	70	50	50	30	
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	20.3	21.6	20.7	21.9	22.3	20.5	21.7	20.8	22.1	22.4
	3H	21.5	22.6	21.9	23.0	23.3	21.8	23.0	22.2	23.3	23.7
	4H	22.0	23.1	22.4	23.4	23.8	22.3	23.4	22.7	23.8	24.2
	6H	22.5	23.5	22.9	23.9	24.3	22.7	23.7	23.1	24.1	24.5
	8H	22.7	23.7	23.2	24.1	24.5	22.8	23.7	23.2	24.1	24.5
4H	2H	21.0	22.1	21.4	22.5	22.9	21.1	22.2	21.5	22.6	23.0
	3H	22.4	23.3	22.8	23.7	24.1	22.7	23.6	23.1	24.0	24.5
	4H	23.0	23.9	23.5	24.3	24.7	23.4	24.2	23.8	24.6	25.1
	6H	23.7	24.4	24.1	24.8	25.3	23.8	24.6	24.3	25.0	25.5
	8H	24.0	24.7	24.5	25.2	25.7	24.0	24.6	24.5	25.1	25.6
8H	2H	23.4	24.1	23.9	24.5	25.0	23.7	24.3	24.2	24.8	25.3
	3H	24.2	24.8	24.7	25.3	25.8	24.3	24.9	24.8	25.4	25.9
	4H	24.7	25.2	25.2	25.7	26.3	24.6	25.1	25.1	25.6	26.1
	6H	25.3	25.7	25.8	26.3	26.8	24.7	25.1	25.3	25.7	26.3
	8H	25.3	25.7	25.8	26.3	26.8	24.7	25.1	25.3	25.7	26.3
12H	4H	23.4	24.0	23.9	24.5	25.0	23.7	24.3	24.2	24.8	25.3
	6H	24.3	24.8	24.9	25.3	25.9	24.4	24.9	25.0	25.4	26.0
	8H	24.9	25.3	25.4	25.8	26.4	24.7	25.1	25.3	25.7	26.3
Variation of the observer position for the luminaire distances S											
S = 1.0H	+0.2 / -0.1					+0.1 / -0.1					
S = 1.5H	+0.4 / -0.5					+0.3 / -0.4					
S = 2.0H	+0.5 / -0.9					+0.5 / -0.8					
Standard table	BK06					BK05					
Correction Summand	7.6					7.1					
Corrected Glare Indices referring to 5700lm Total Luminous Flux											

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Foodproduction 4m -200lx / Summary



Height of Room: 4.000 m, Mounting Height: 4.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:523

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	210	145	257	0.691
Floor	20	205	82	262	0.401
Ceiling	50	49	28	249	0.579
Walls (4)	30	109	49	280	/

Workplane:

Height: 0.100 m
 Grid: 17 x 15 Points
 Boundary Zone: 0.500 m

Luminaire Parts List

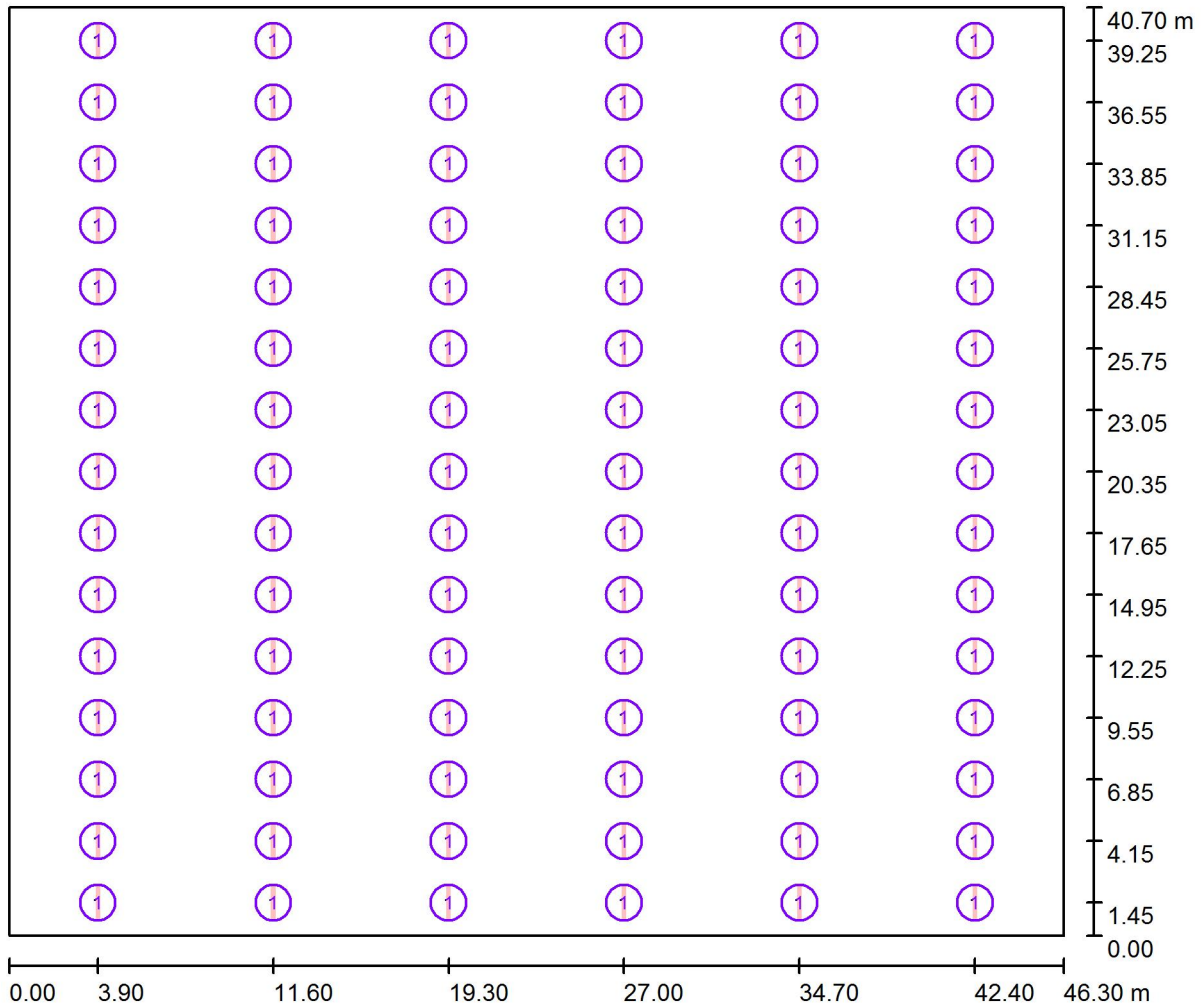
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	90	TRILUX Olexeon 1500 B 6000-840 ETDD (1.000)	5700	5700	53.0
Total:			512960	513000	4770.0

Specific connected load: $2.53 \text{ W/m}^2 = 1.21 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1884.41 m^2)

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Foodproduction 4m -200lx / Luminaires (layout plan)



Scale 1 : 332

Luminaire Parts List

No.	Pieces	Designation
1	90	TRILUX Olexeon 1500 B 6000-840 ETDD