

Project 1

Company:
Partner for Contact:
Project n°:

Date: 23.04.2009
Operator: Ronny Coene

MODULAR LIGHTING INSTRUMENTS

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MODULAR LIGHTING INSTRUMENTS

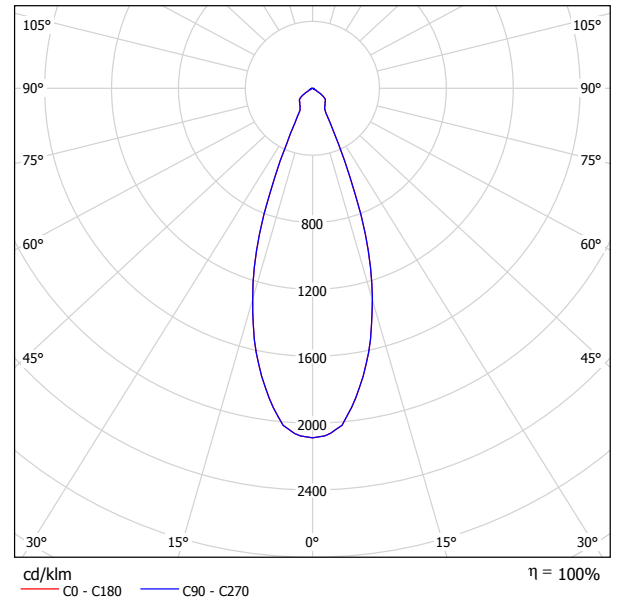
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MODULAR 9X170198 SL100 MR16 k-1 b / Luminaire Data Sheet



Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 84 97 99 100 101

No picture available of the K-1 unit.

Luminous emittance 1:

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	22.3	23.2	22.6	23.4	23.6	22.3	23.2	22.6	23.4	23.6
	3H	22.4	23.2	22.7	23.4	23.7	22.4	23.2	22.7	23.4	23.7
	4H	22.5	23.2	22.8	23.5	23.7	22.5	23.2	22.8	23.5	23.7
	6H	22.6	23.2	22.9	23.5	23.8	22.6	23.2	22.9	23.5	23.8
	8H	22.7	23.3	23.0	23.6	23.9	22.7	23.3	23.0	23.6	23.9
4H	12H	22.8	23.4	23.2	23.7	24.0	22.8	23.4	23.2	23.7	24.0
	2H	22.4	23.1	22.7	23.4	23.6	22.4	23.1	22.7	23.4	23.6
	3H	22.6	23.2	22.9	23.5	23.8	22.6	23.2	22.9	23.5	23.8
	4H	22.7	23.2	23.1	23.6	23.9	22.7	23.2	23.1	23.6	23.9
	6H	22.9	23.3	23.3	23.7	24.1	22.9	23.3	23.3	23.7	24.1
8H	8H	23.1	23.4	23.5	23.8	24.2	23.1	23.4	23.5	23.8	24.2
	12H	23.3	23.6	23.7	24.0	24.4	23.3	23.6	23.7	24.0	24.4
	4H	22.7	23.1	23.1	23.5	23.9	22.7	23.1	23.1	23.5	23.9
	6H	23.0	23.3	23.5	23.8	24.2	23.0	23.3	23.5	23.8	24.2
	8H	23.3	23.5	23.7	24.0	24.4	23.3	23.5	23.7	24.0	24.4
12H	12H	23.6	23.8	24.1	24.3	24.8	23.6	23.8	24.1	24.3	24.8
	4H	22.7	23.1	23.2	23.5	23.9	22.7	23.1	23.2	23.5	23.9
	6H	23.1	23.3	23.5	23.8	24.2	23.1	23.3	23.5	23.8	24.2
8H	23.3	23.6	23.8	24.0	24.5	23.3	23.6	23.8	24.0	24.5	
Variation of the observer position for the luminaire distances S											
S = 1.0H	+0.7 / -0.4					+0.7 / -0.4					
S = 1.5H	+1.6 / -2.7					+1.6 / -2.7					
S = 2.0H	+2.9 / -3.3					+2.9 / -3.3					
Standard table	BK02					BK02					
Correction Summand	5.3					5.3					
Corrected Glare Indices referring to 862lm Total Luminous Flux											

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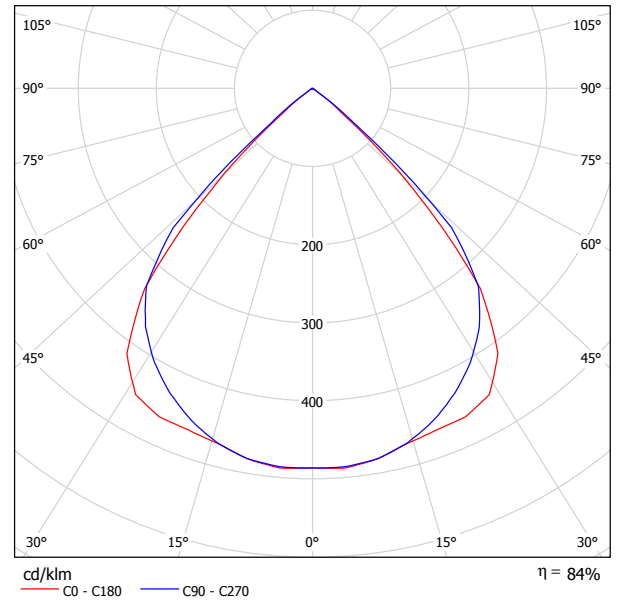
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MODULAR 9X175837 SL100 TL5 1x39W bap do / Luminaire Data Sheet



Luminaire classification according to CIE: 100
CIE flux code: 78 100 100 100 85

Luminous emittance 1:



Luminous emittance 1:

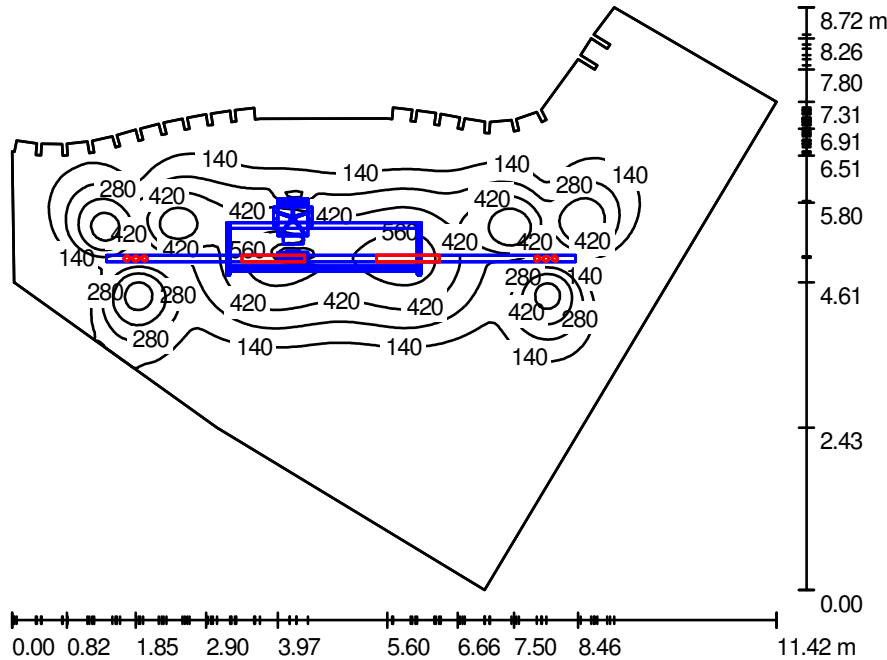
Glare Evaluation According to UGR											
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	
ρ Walls	50	30	50	30	30	50	30	50	30	30	
ρ Floor	20	20	20	20	20	20	20	20	20	20	
Room Size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	19.3	20.2	19.6	20.4	20.6	19.6	20.4	19.8	20.6	20.9
	3H	19.2	20.0	19.5	20.2	20.5	19.4	20.2	19.7	20.4	20.7
	4H	19.1	19.9	19.4	20.1	20.4	19.3	20.1	19.7	20.3	20.6
	6H	19.1	19.7	19.4	20.0	20.3	19.3	19.9	19.6	20.2	20.5
	8H	19.0	19.7	19.4	20.0	20.3	19.2	19.9	19.6	20.2	20.5
4H	12H	19.0	19.6	19.3	19.9	20.2	19.2	19.8	19.5	20.1	20.4
	2H	19.2	19.9	19.5	20.2	20.4	19.4	20.1	19.7	20.4	20.6
	3H	19.0	19.6	19.4	19.9	20.3	19.2	19.8	19.6	20.1	20.5
	4H	19.0	19.5	19.3	19.8	20.2	19.2	19.7	19.5	20.0	20.4
	6H	18.9	19.3	19.3	19.7	20.1	19.1	19.5	19.5	19.9	20.3
8H	8H	18.8	19.3	19.3	19.6	20.0	19.0	19.4	19.5	19.8	20.2
	12H	18.8	19.2	19.2	19.6	20.0	19.0	19.4	19.4	19.8	20.2
	4H	18.8	19.3	19.3	19.6	20.0	19.0	19.4	19.5	19.8	20.2
	6H	18.8	19.1	19.2	19.5	20.0	19.0	19.3	19.4	19.7	20.1
	8H	18.7	19.0	19.2	19.4	19.9	18.9	19.2	19.4	19.6	20.1
12H	12H	18.7	18.9	19.1	19.4	19.9	18.9	19.1	19.3	19.6	20.1
	4H	18.8	19.2	19.2	19.6	20.0	19.0	19.4	19.4	19.8	20.2
	6H	18.7	19.0	19.2	19.4	19.9	18.9	19.2	19.4	19.6	20.1
8H	18.7	18.9	19.1	19.4	19.9	18.9	19.1	19.3	19.6	20.1	
Variation of the observer position for the luminaire distances S											
S = 1.0H	+2.3 / -11.5					+2.6 / -12.1					
S = 1.5H	+4.2 / -20.2					+4.2 / -24.8					
S = 2.0H	+6.2 / -22.9					+6.2 / -26.6					
Standard table	BK00					BK00					
Correction	0.2					0.4					
Summand	0.2					0.4					
Corrected Glare Indices referring to 3100lm Total Luminous Flux											

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Room 1 / Summary



Height of Room: 3.000 m, Light loss factor: 0.80

Values in Lux, Scale 1:113

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	179	14	686	0.076
Floor	30	144	11	380	0.077
Ceiling	70	38	19	56	0.488
Walls (83)	70	38	10	182	/

Workplane:

Height: 0.800 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Luminaire Parts List

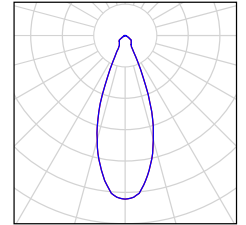
No.	Pieces	Designation (Correction Factor)	Φ [lm]	P [W]
1	6	MODULAR 9X170198 SL100 MR16 k-1 b (1.000)	862	52.6
2	2	MODULAR 9X175837 SL100 TL5 1x39W bap do (1.000)	3100	41.0
Total:			11372	397.6

Specific connected load: $7.71 \text{ W/m}^2 = 4.31 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 51.58 m^2)

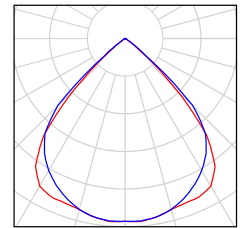
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6 Pieces MODULAR 9X170198 SL100 MR16 k-1 b
Article No.: 9X170198
Luminaire Luminous Flux: 862 lm
Luminaire Wattage: 52.6 W
Luminaire classification according to CIE: 100
CIE flux code: 84 97 99 100 101
Fitting: 1 x 41871WFL (Correction Factor 1.000).



2 Pieces MODULAR 9X175837 SL100 TL5 1x39W bap do
Article No.: 9X175837
Luminaire Luminous Flux: 3100 lm
Luminaire Wattage: 41.0 W
Luminaire classification according to CIE: 100
CIE flux code: 78 100 100 100 85
Fitting: 1 x TL5 HO sup80 39W/840 (Correction Factor 1.000).



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Room 1 / 3D Rendering



Project 1

EMPFANG.dlx

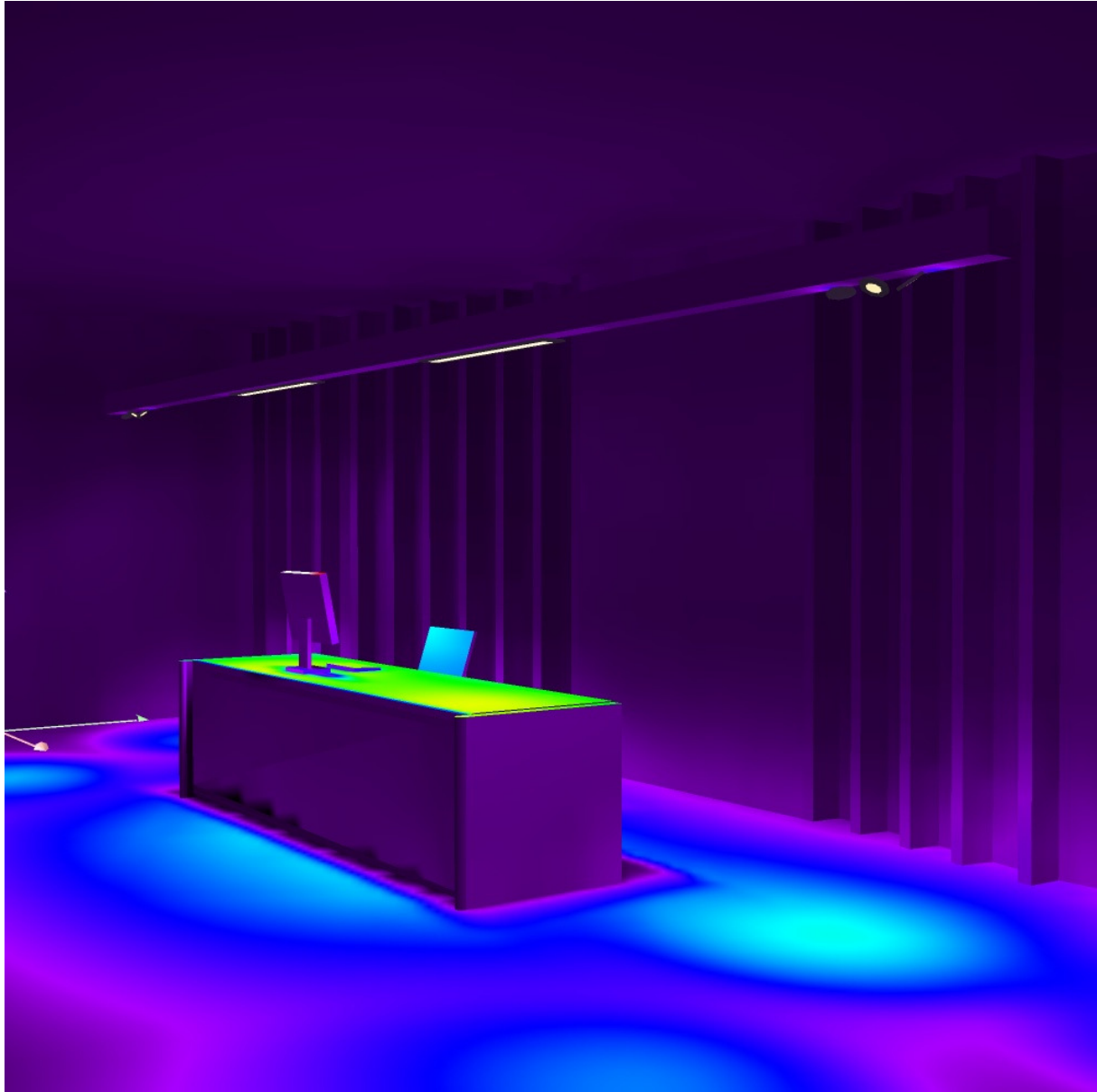
23.04.2009

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Room 1 / False Color Rendering



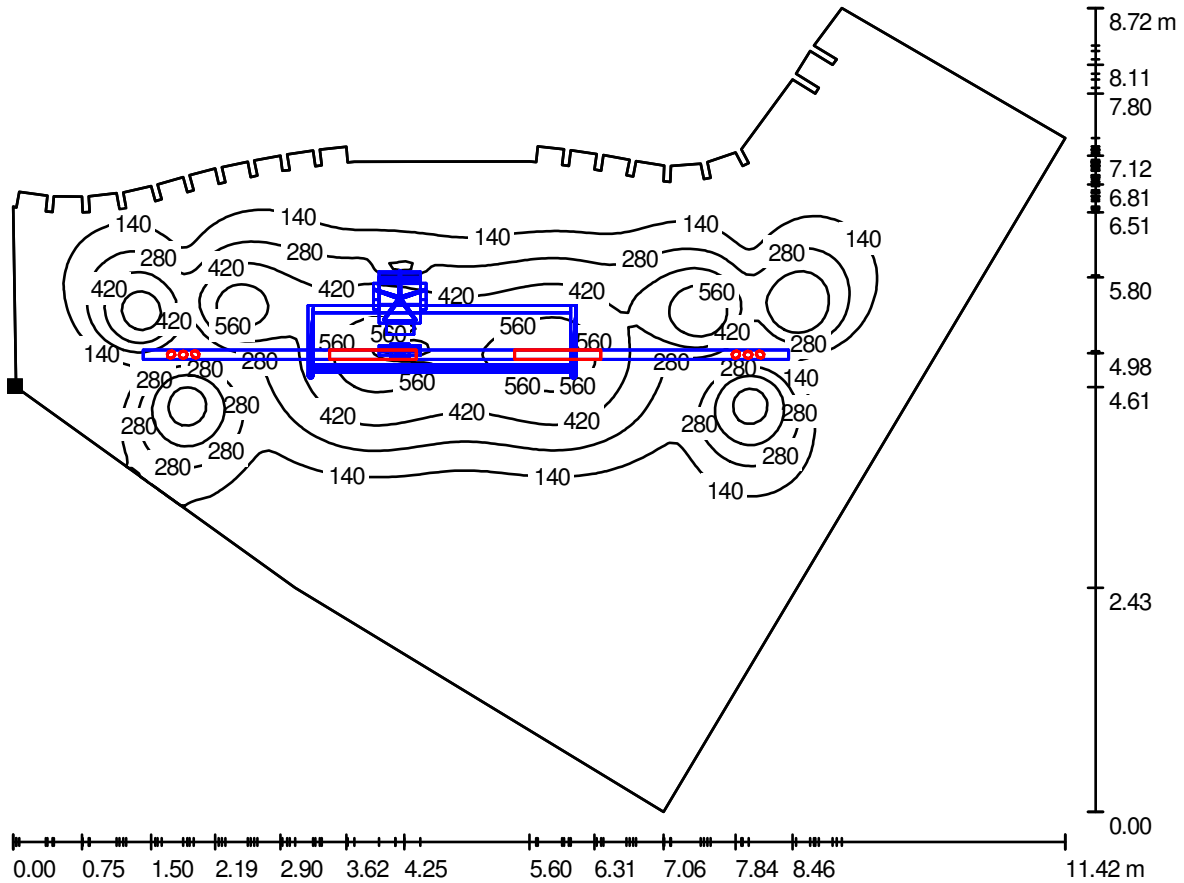
0 125 250 375 500 625 750 875 1000 lx

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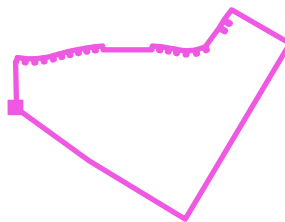
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Room 1 / Workplane / Isolines (E)



Values in Lux, Scale 1 : 82

Position of surface in room:
Marked point:
(0.000 m, 0.000 m, 0.800 m)



Grid: 128 x 128 Points

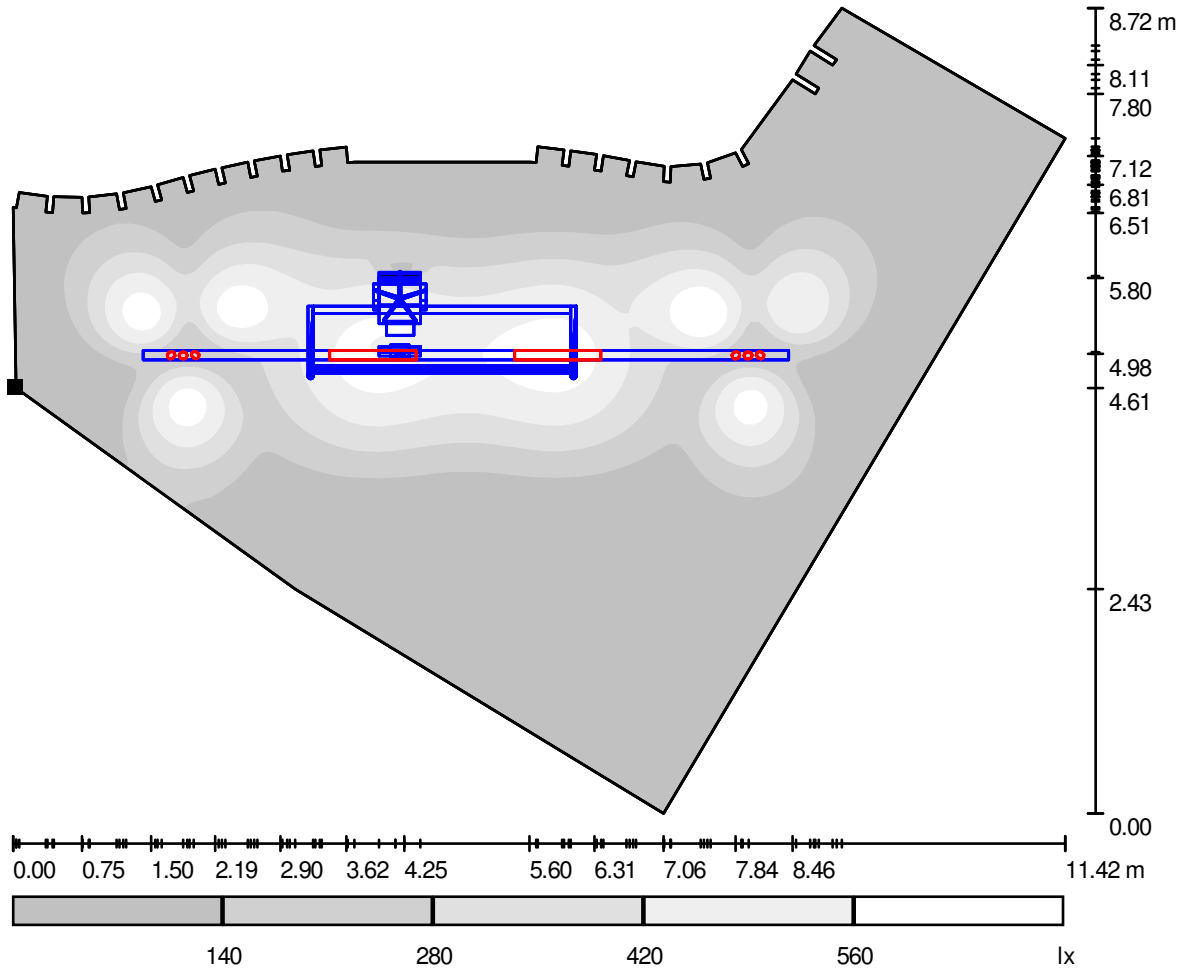
E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
179	14	686	0.076	0.020

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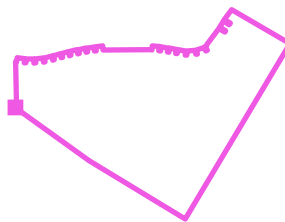
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Room 1 / Workplane / Greyscale (E)



Scale 1 : 82

Position of surface in room:
Marked point:
(0.000 m, 0.000 m, 0.800 m)



Grid: 128 x 128 Points

E_{av} [lx]
179

E_{min} [lx]
14

E_{max} [lx]
686

u_0
0.076

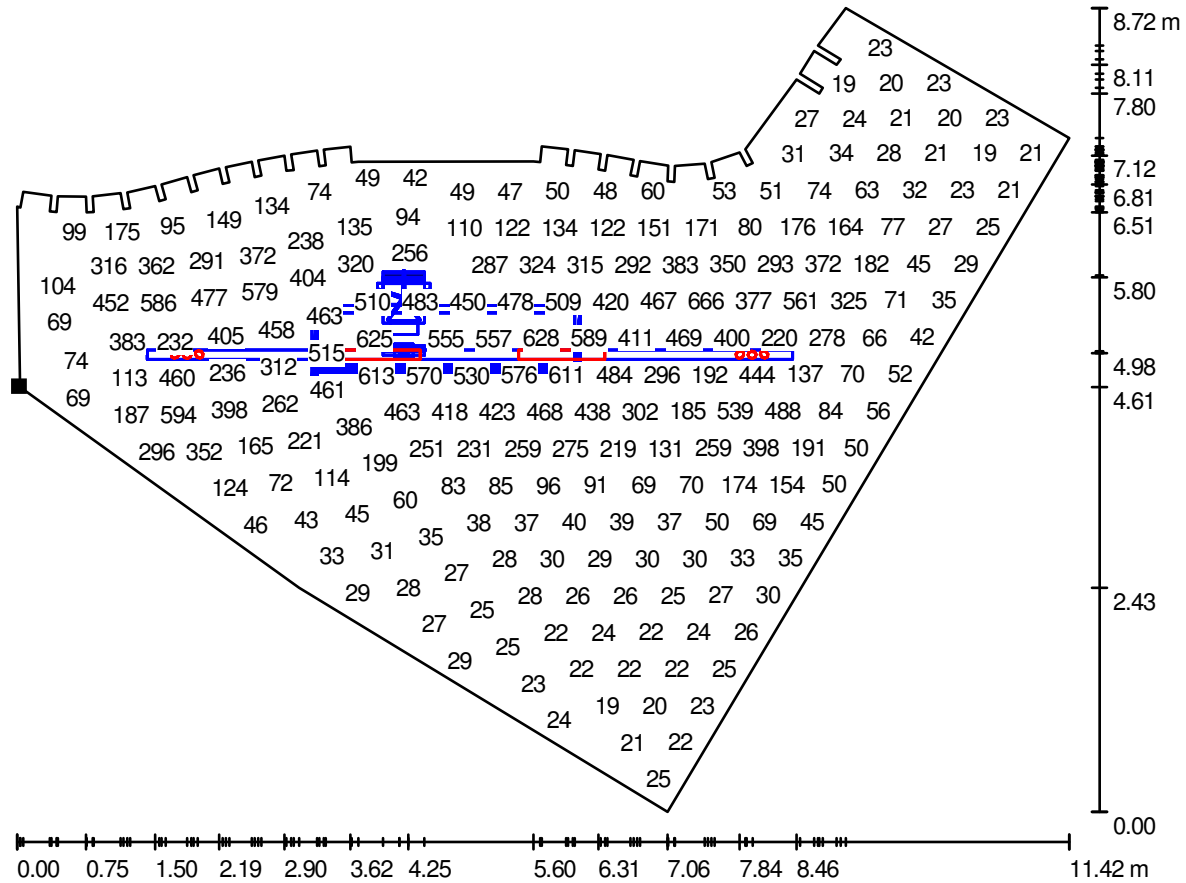
E_{min} / E_{max}
0.020

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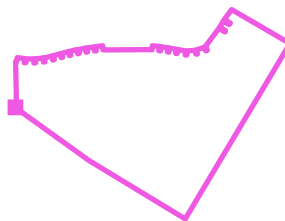
Room 1 / Workplane / Value Chart (E)



Values in Lux, Scale 1 : 82

Not all calculated values could be displayed.

Position of surface in room:
Marked point:
(0.000 m, 0.000 m, 0.800 m)



Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
179	14	686	0.076	0.020