

# Lighting Simulation

Partner for Contact:  
Order No.:  
Company:  
Customer No.:

Date: 25.06.2016  
Operator:

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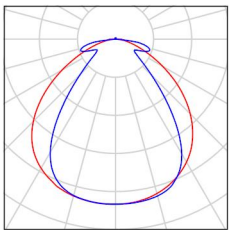
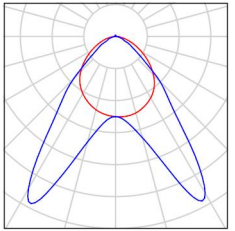
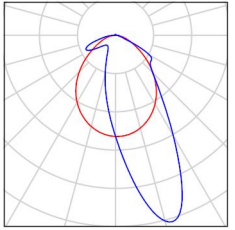
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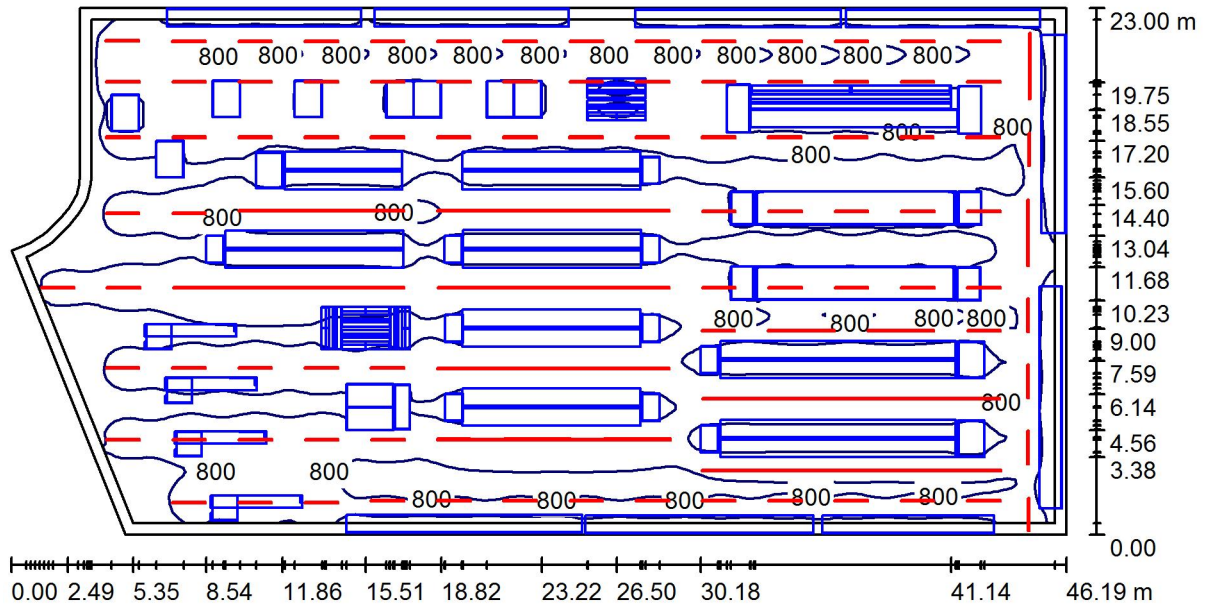
**Lighting Simulation / Luminaire parts list**

73 Pieces	<p>LHB04-65 4000K Ra80 80100DEG L00303 (Type 1)                  Article No.:                  Luminous flux (Luminaire): 8056 lm                  Luminous flux (Lamps): 8055 lm                  Luminaire Wattage: 62.1 W                  Luminaire classification according to CIE: 99                  CIE flux code: 58 85 96 99 100                  Fitting: 1 x User defined (Correction Factor 1.000).</p>	<p>See our luminaire catalog for an image of the luminaire.</p>	
35 Pieces	<p>LHB04-65 4000K Ra80 Double Asymmetric L00304 (Type 1)                  Article No.:                  Luminous flux (Luminaire): 8219 lm                  Luminous flux (Lamps): 8219 lm                  Luminaire Wattage: 62.1 W                  Luminaire classification according to CIE: 99                  CIE flux code: 56 88 98 99 100                  Fitting: 1 x User defined (Correction Factor 1.000).</p>	<p>See our luminaire catalog for an image of the luminaire.</p>	
44 Pieces	<p>LHB04-65 4000K Ra80 Single Asymmetric L00305 (Type 1)                  Article No.:                  Luminous flux (Luminaire): 7780 lm                  Luminous flux (Lamps): 7780 lm                  Luminaire Wattage: 62.1 W                  Luminaire classification according to CIE: 99                  CIE flux code: 56 83 96 99 100                  Fitting: 1 x User defined (Correction Factor 1.000).</p>	<p>See our luminaire catalog for an image of the luminaire.</p>	



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Room 1 / Summary



Height of Room: 4.000 m, Mounting Height: 3.000 m, Light loss factor: 0.90

Values in Lux, Scale 1:331

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	890	28	2462	0.031
Floor	30	552	9.95	1325	0.018
Ceiling	80	103	47	190	0.454
Walls (19)	50	171	15	1860	/

**Workplane:**

Height: 1.000 m  
Grid: 128 x 128 Points  
Boundary Zone: 0.500 m

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	73	LHB04-65 4000K Ra80 80100DEG L00303 (Type 1)* (1.000)	8056	8055	62.1
2	35	LHB04-65 4000K Ra80 Double Asymmetric L00304 (Type 1)* (1.000)	8219	8219	62.1
3	44	LHB04-65 4000K Ra80 Single Asymmetric L00305 (Type 1)* (1.000)	7780	7780	62.1

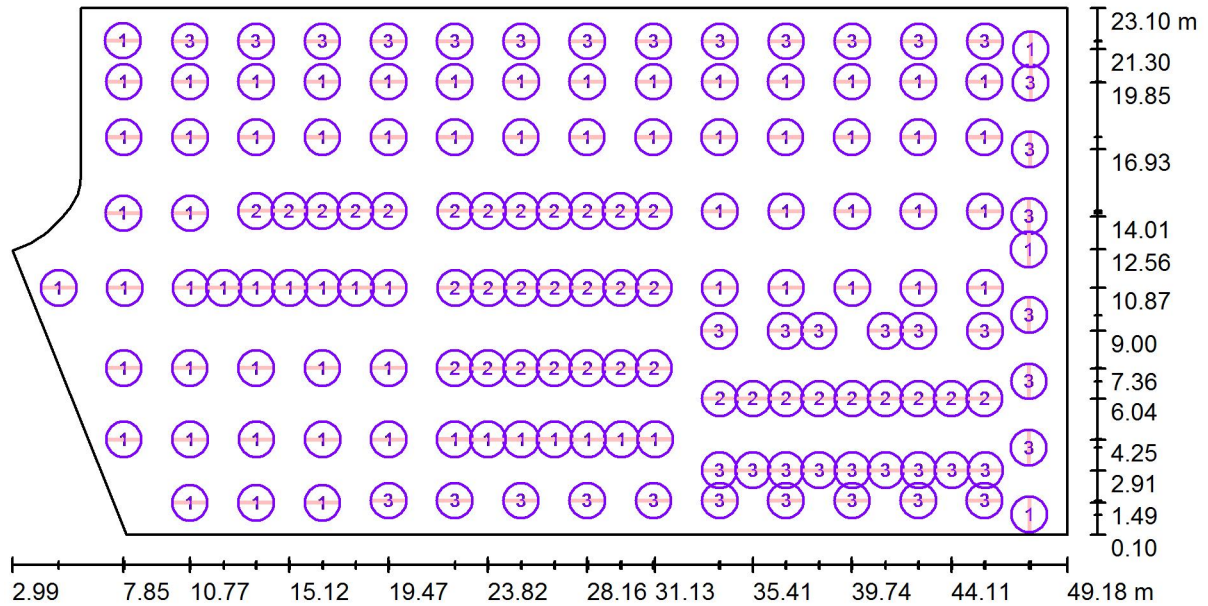
\*Modified Technical Specifications

Total: 1218083 Total: 1218000 9439.2

Specific connected load: 9.42 W/m<sup>2</sup> = 1.06 W/m<sup>2</sup>/100 lx (Ground area: 1002.40 m<sup>2</sup>)

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**Room 1 / Luminaires (layout plan)**



Scale 1 : 331

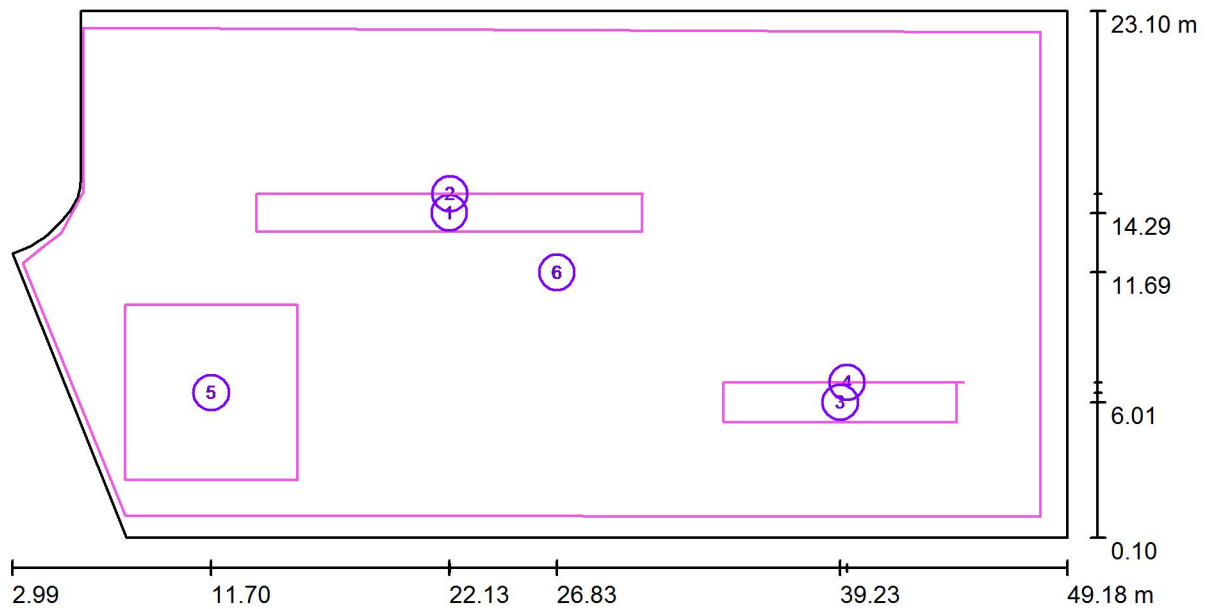
**Luminaire Parts List**

No.	Pieces	Designation
1	73	LHB04-65 4000K Ra80 80100DEG L00303 (Type 1)*
2	35	LHB04-65 4000K Ra80 Double Asymmetric L00304 (Type 1)*
3	44	LHB04-65 4000K Ra80 Single Asymmetric L00305 (Type 1)*

\*Modified Technical Specifications

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**Room 1 / Calculation surfaces (results overview)**



Scale 1 : 331

**Calculation Surface List**

No.	Designation	Type	Grid	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	u0	$E_{min} / E_{max}$
1	Calculation Surface Of Floor 1	perpendicular	64 x 8	1149	685	1669	0.597	0.411
2	Calculation Surface Of Rack 1	perpendicular	128 x 32	820	308	1423	0.376	0.216
3	Calculation Surface Of Floor 2	perpendicular	64 x 16	1280	977	1613	0.763	0.606
4	Calculation Surface Of Rack 2	perpendicular	64 x 16	924	339	1498	0.367	0.227
5	Calculation Surface Of Cashier desk area	perpendicular	32 x 32	888	475	1536	0.535	0.309
6	Calculation Surface	perpendicular	128 x 128	903	21	2514	0.023	0.008

**Summary of Results**

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u0	$E_{min} / E_{max}$
perpendicular	6	912	21	2514	0.02	0.01

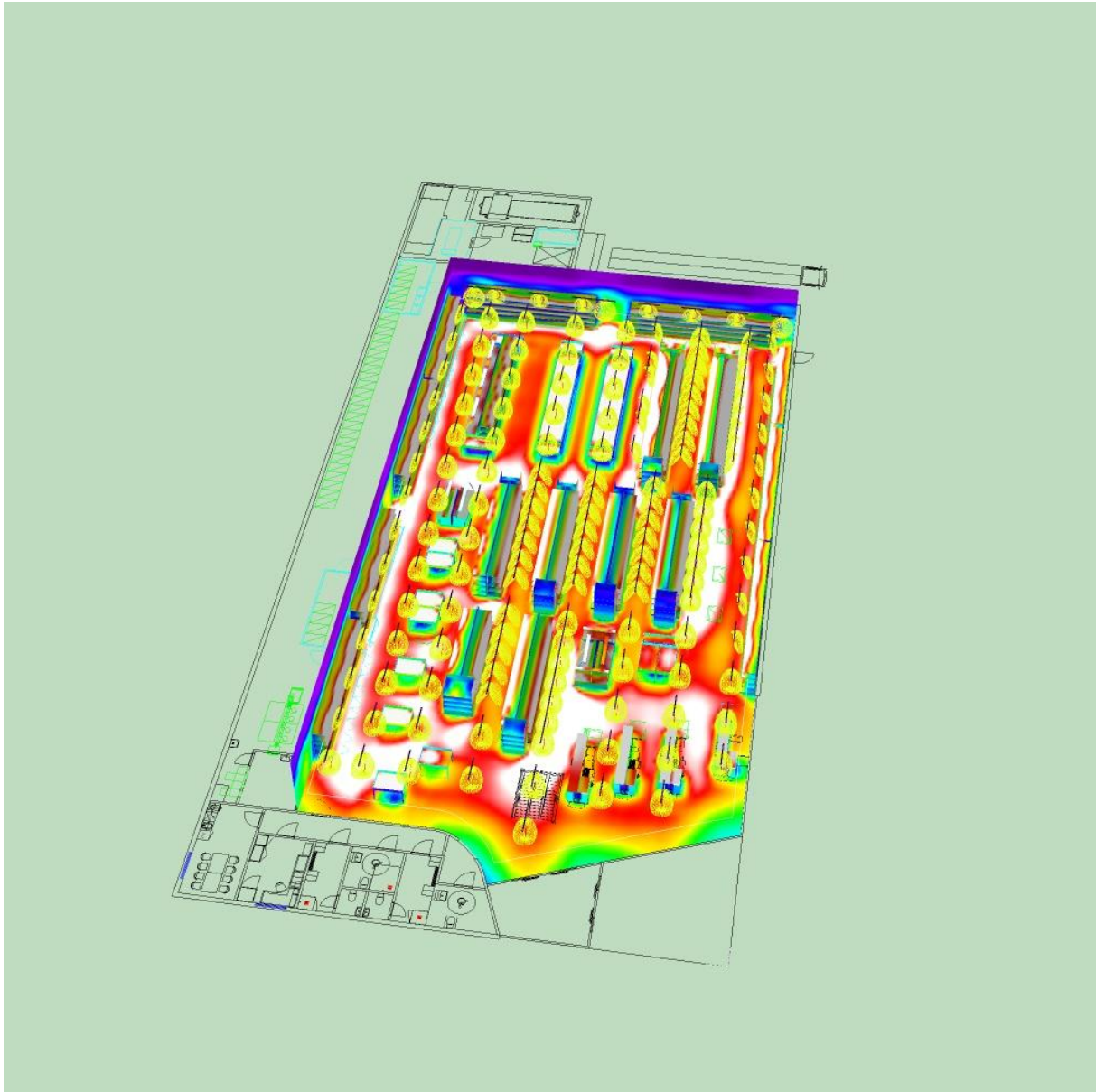
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**Room 1 / 3D Rendering**



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**Room 1 / False Color Rendering**

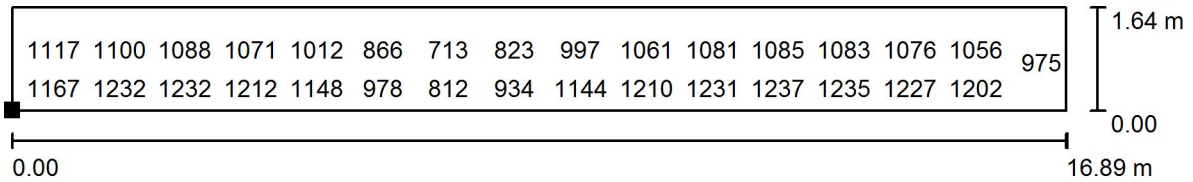


0    106.25    212.50    318.75    425    531.25    637.50    743.75    850    lx



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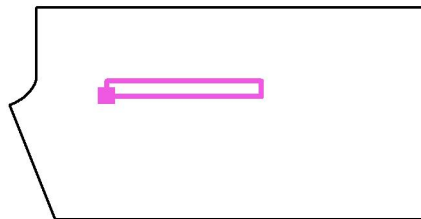
**Room 1 / Calculation Surface Of Floor 1 / Value Chart (E, Perpendicular)**



Values in Lux, Scale 1 : 121

Not all calculated values could be displayed.

Position of surface in room:  
 Marked point:  
 (13.684 m, 13.470 m, 1.000 m)

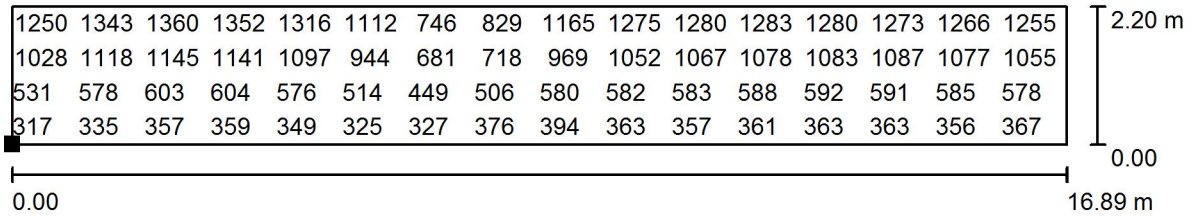


Grid: 64 x 8 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	u0	$E_{min} / E_{max}$
1149	685	1669	0.597	0.411

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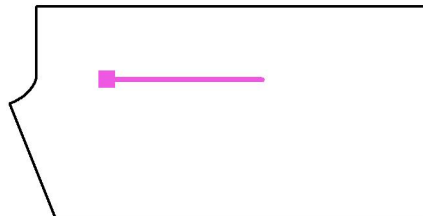
**Room 1 / Calculation Surface Of Rack 1 / Value Chart (E, Perpendicular)**



Values in Lux, Scale 1 : 121

Not all calculated values could be displayed.

Position of surface in room:  
 Marked point:  
 (13.708 m, 15.123 m, 0.000 m)

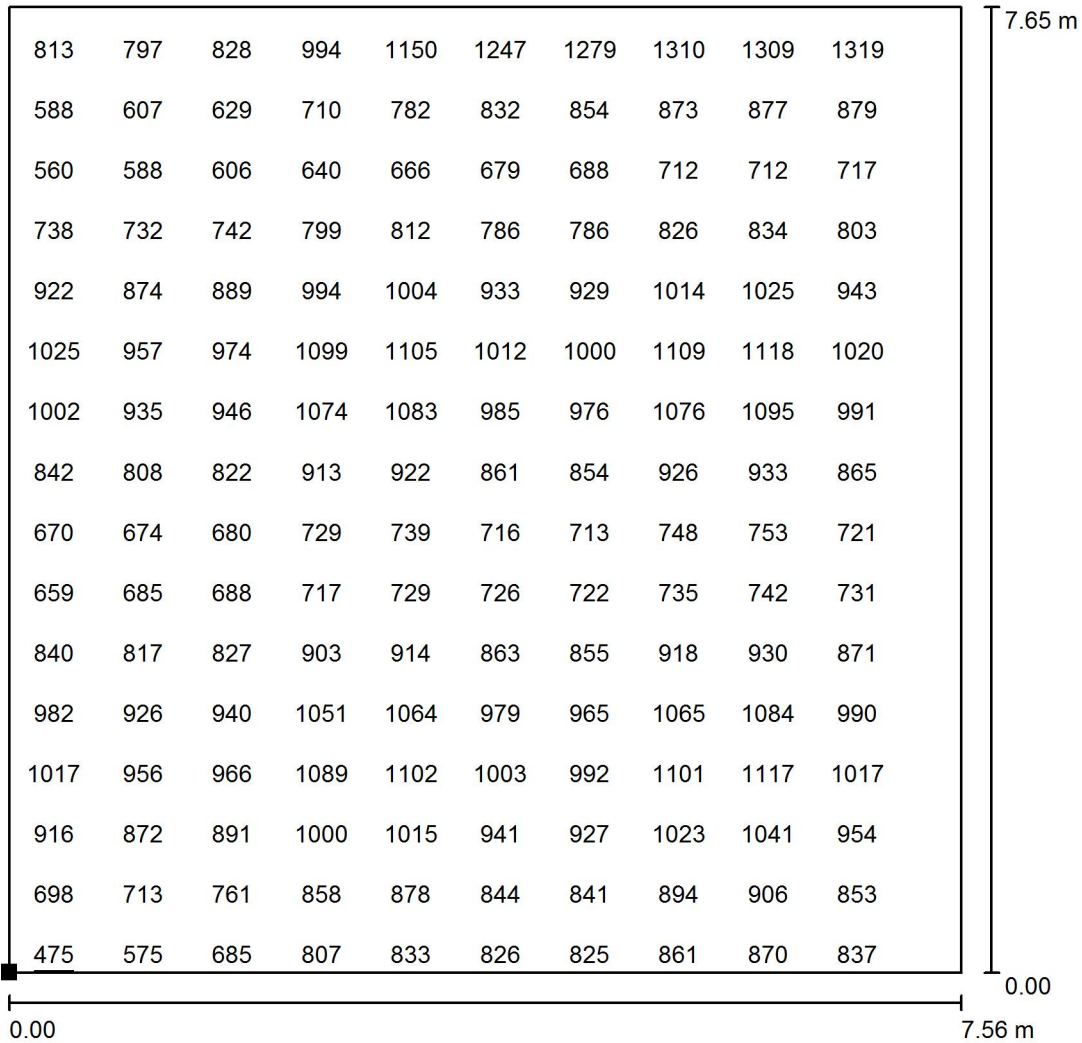


Grid: 128 x 32 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	u0	$E_{min} / E_{max}$
820	308	1423	0.376	0.216

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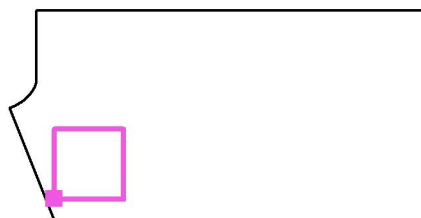
**Room 1 / Calculation Surface Of Cashier desk area / Value Chart (E, Perpendicular)**



Values in Lux, Scale 1 : 60

Not all calculated values could be displayed.

Position of surface in room:  
Marked point:  
(7.923 m, 2.607 m, 1.000 m)

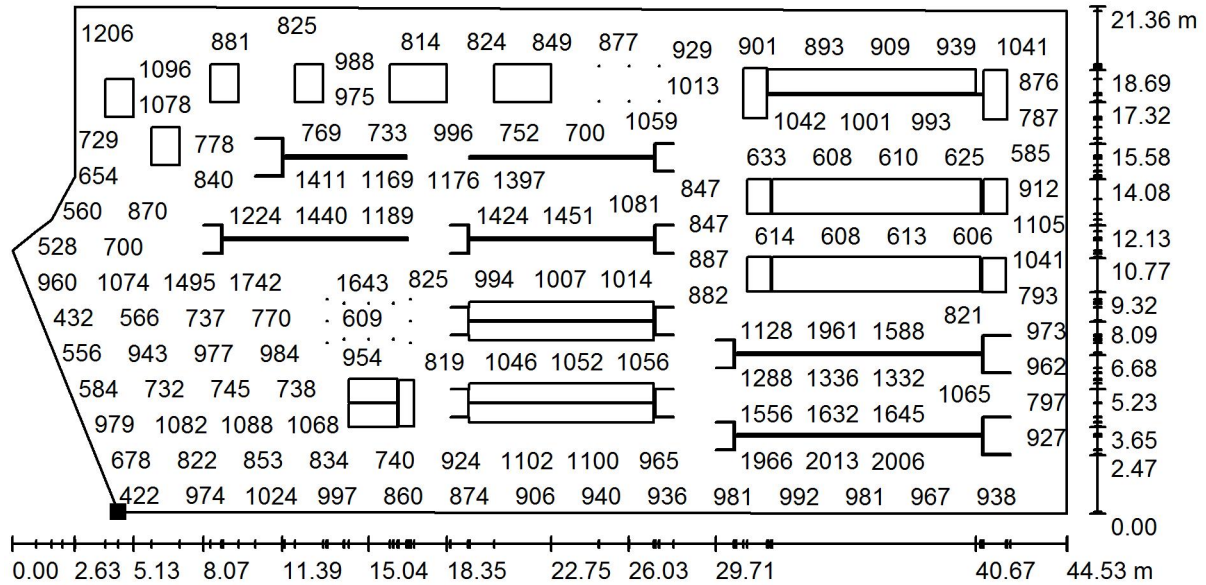


Grid: 32 x 32 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	u0	$E_{min} / E_{max}$
888	475	1536	0.535	0.309

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**Room 1 / Calculation Surface / Value Chart (E, Perpendicular)**



Values in Lux, Scale 1 : 319

Not all calculated values could be displayed.

Position of surface in room:  
Marked point:  
(7.942 m, 1.076 m, 1.000 m)



Grid: 128 x 128 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$	$E_{min} / E_{max}$
903	21	2514	0.023	0.008