

Hampstead Parish Church

As with any computer aided lighting design programme these figures must be taken as a general guide only and are not a guarantee of the final results, but we feel they are a fair representation based on the information supplied to us.

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Email: sales@commercial-lighting.co.uk

Date: 13.02.2020
Operator: Commercial Lighting Systems Ltd



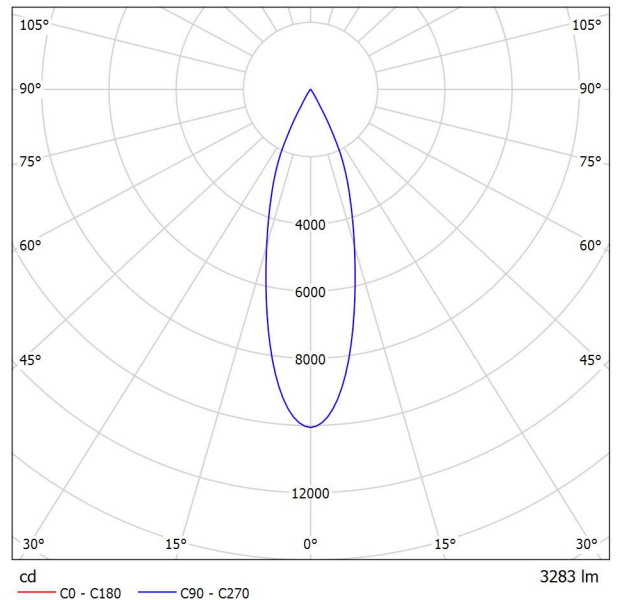
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Operator Commercial Lighting Systems Ltd
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Meyer + Sohn 8903046040 Monospot 3 mittelbreit ww / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling	70	70	50	50	30	70	70	50	50	30		
p Walls	50	30	50	30	30	50	30	50	30	30		
p 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	-0.2	0.4	0.0	0.6	0.8	-0.2	0.4	0.0	0.6	0.8	
	3H	0.8	1.4	1.1	1.6	1.9	0.8	1.4	1.1	1.6	1.9	
	4H	1.2	1.7	1.5	2.0	2.2	1.2	1.7	1.5	2.0	2.2	
	6H	1.5	2.0	1.8	2.2	2.5	1.5	2.0	1.8	2.2	2.5	
	8H	1.5	2.0	1.9	2.3	2.6	1.5	2.0	1.9	2.3	2.6	
4H	12H	1.6	2.0	1.9	2.3	2.6	1.6	2.0	1.9	2.3	2.6	
	2H	0.1	0.7	0.4	0.9	1.2	0.1	0.7	0.4	0.9	1.2	
	3H	1.4	1.8	1.7	2.1	2.4	1.4	1.8	1.7	2.1	2.4	
	4H	1.9	2.3	2.2	2.6	2.9	1.9	2.3	2.2	2.6	2.9	
	6H	2.2	2.6	2.6	2.9	3.3	2.2	2.6	2.6	2.9	3.3	
8H	8H	2.3	2.6	2.8	3.0	3.4	2.3	2.6	2.8	3.0	3.4	
	12H	2.4	2.7	2.8	3.0	3.5	2.4	2.7	2.8	3.0	3.5	
	4H	2.0	2.3	2.4	2.7	3.1	2.0	2.3	2.4	2.7	3.1	
	6H	2.5	2.7	2.9	3.1	3.6	2.5	2.7	2.9	3.1	3.6	
	8H	2.7	2.8	3.1	3.3	3.7	2.7	2.8	3.1	3.3	3.7	
12H	12H	2.8	2.9	3.2	3.4	3.8	2.8	2.9	3.2	3.4	3.8	
	4H	2.0	2.3	2.5	2.7	3.1	2.0	2.3	2.5	2.7	3.1	
	6H	2.5	2.7	3.0	3.1	3.6	2.5	2.7	3.0	3.1	3.6	
	8H	2.7	2.8	3.2	3.3	3.8	2.7	2.8	3.2	3.3	3.8	
	Variation of the observer position for the luminaire distances S											
S = 1.0H		+5.2 / -5.1					+5.2 / -5.1					
S = 1.5H		+7.9 / -5.9					+7.9 / -5.9					
S = 2.0H		+9.8 / -6.5					+9.8 / -6.5					
Standard table		BK00					BK00					
Correction												
Summand		-14.3					-14.3					
Corrected Glare Indices referring to 3283lm Total Luminous Flux												

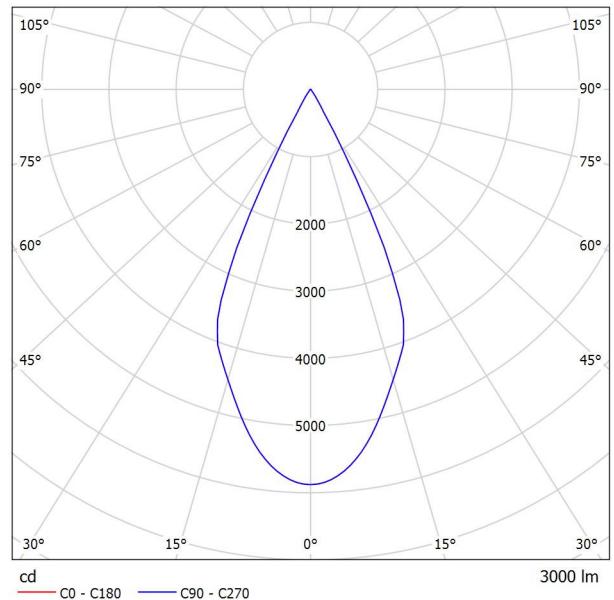
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Meyer + Sohn 8903046060 Monospot 3 Vario Optic wide ww / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p 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	-0.2	0.5	0.1	0.7	0.9	-0.2	0.5	0.1	0.7	0.9	
	3H	0.7	1.3	1.0	1.5	1.7	0.7	1.3	1.0	1.5	1.7	
	4H	0.8	1.3	1.1	1.6	1.8	0.8	1.3	1.1	1.6	1.8	
	6H	0.8	1.3	1.1	1.5	1.8	0.8	1.3	1.1	1.5	1.8	
	8H	0.7	1.2	1.1	1.5	1.8	0.7	1.2	1.1	1.5	1.8	
	12H	0.7	1.1	1.0	1.4	1.8	0.7	1.1	1.0	1.4	1.8	
4H	2H	0.2	0.7	0.5	1.0	1.2	0.2	0.7	0.5	1.0	1.2	
	3H	1.1	1.6	1.5	1.9	2.2	1.1	1.6	1.5	1.9	2.2	
	4H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3	
	6H	1.2	1.6	1.6	1.9	2.3	1.2	1.6	1.6	1.9	2.3	
	8H	1.2	1.5	1.6	1.9	2.3	1.2	1.5	1.6	1.9	2.3	
	12H	1.2	1.4	1.6	1.8	2.2	1.2	1.4	1.6	1.8	2.2	
8H	4H	1.2	1.5	1.7	1.9	2.3	1.2	1.5	1.7	1.9	2.3	
	6H	1.2	1.4	1.7	1.9	2.3	1.2	1.4	1.7	1.9	2.3	
	8H	1.2	1.4	1.7	1.8	2.3	1.2	1.4	1.7	1.8	2.3	
	12H	1.1	1.3	1.6	1.7	2.2	1.1	1.3	1.6	1.7	2.2	
12H	4H	1.2	1.5	1.6	1.9	2.3	1.2	1.5	1.6	1.9	2.3	
	6H	1.2	1.4	1.6	1.8	2.3	1.2	1.4	1.6	1.8	2.3	
	8H	1.1	1.3	1.6	1.7	2.2	1.1	1.3	1.6	1.7	2.2	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+5.2 / -5.2					+5.2 / -5.2					
S = 1.5H		+7.9 / -6.2					+7.9 / -6.2					
S = 2.0H		+9.9 / -7.2					+9.9 / -7.2					
Standard table		BK00					BK00					
Correction												
Summand		-15.4					-15.4					
Corrected Glare Indices referring to 3000lm Total Luminous Flux												

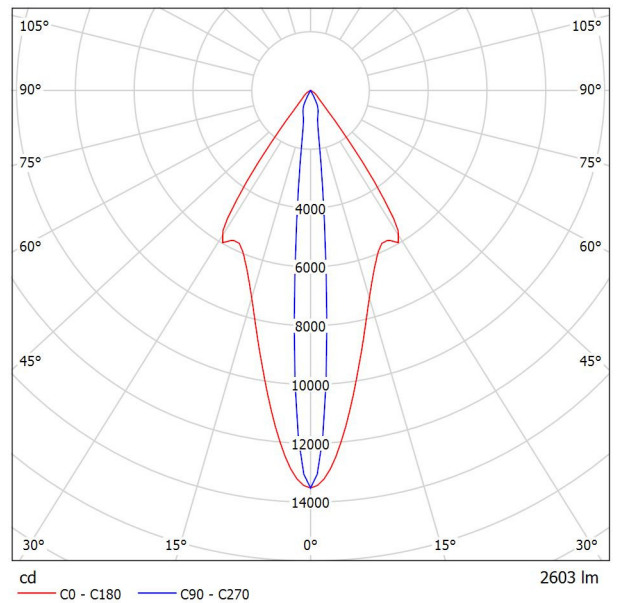
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Meyer + Sohn 8903046070 Monospot 3 Engstr. mit Rillenlas ww / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 94 99 100 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling	70	70	50	50	30	70	70	50	50	30		
p Walls	50	30	50	30	30	50	30	50	30	30		
p 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					20
2H	2H	17.8	18.5	18.1	18.7	18.9	1.5	2.2	1.7	2.4	2.6	
	3H	17.8	18.5	18.1	18.7	18.9	2.4	3.1	2.7	3.3	3.5	
	4H	17.9	18.5	18.2	18.7	19.0	2.6	3.2	2.9	3.5	3.8	
	6H	17.9	18.4	18.2	18.7	19.0	2.8	3.4	3.1	3.6	3.9	
	8H	17.9	18.4	18.2	18.7	19.0	2.8	3.4	3.2	3.7	4.0	
	12H	17.9	18.4	18.2	18.7	19.0	2.8	3.3	3.2	3.6	4.0	
4H	2H	17.6	18.2	17.9	18.5	18.7	2.4	3.0	2.7	3.2	3.5	
	3H	17.6	18.1	18.0	18.5	18.8	3.7	4.2	4.0	4.5	4.8	
	4H	17.7	18.1	18.1	18.5	18.8	4.0	4.4	4.4	4.8	5.1	
	6H	17.7	18.1	18.1	18.5	18.8	4.2	4.6	4.6	4.9	5.3	
	8H	17.7	18.1	18.2	18.4	18.8	4.2	4.6	4.7	4.9	5.3	
	12H	17.7	18.0	18.2	18.4	18.8	4.2	4.5	4.7	4.9	5.3	
8H	4H	17.6	17.9	18.0	18.3	18.7	4.5	4.8	4.9	5.2	5.6	
	6H	17.6	17.9	18.1	18.3	18.7	4.8	5.1	5.3	5.5	5.9	
	8H	17.6	17.8	18.1	18.3	18.7	4.9	5.1	5.4	5.5	6.0	
	12H	17.6	17.8	18.1	18.3	18.7	4.9	5.1	5.4	5.5	6.0	
	4H	17.5	17.8	18.0	18.2	18.6	4.6	4.8	5.0	5.2	5.7	
	6H	17.6	17.8	18.0	18.2	18.7	4.9	5.1	5.4	5.6	6.0	
12H	8H	17.6	17.8	18.1	18.2	18.7	5.0	5.2	5.5	5.6	6.1	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+5.5 / -4.8					+3.9 / -3.1					
S = 1.5H		+8.2 / -10.7					+6.5 / -3.7					
S = 2.0H		+10.2 / -13.2					+8.3 / -4.5					
Standard table		BK00					BK02					
Correction		2.1					-13.4					
Summand												
Corrected Glare Indices referring to 2603lm Total Luminous Flux												



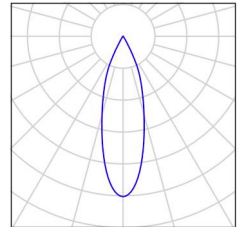
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Exterior Scene 1 / Luminaire parts list

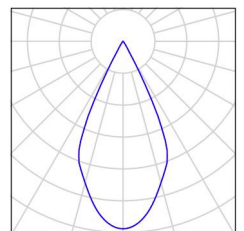
1 Pieces Meyer + Sohn 8903046040 Monospot 3
mittelbreit ww
Article No.: 8903046040
Luminous flux (Luminaire): 3283 lm
Luminous flux (Lamps): 3283 lm
Luminaire Wattage: 36.0 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



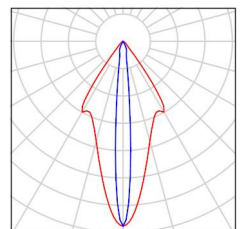
3 Pieces Meyer + Sohn 8903046060 Monospot 3 Vario
Optic wide ww
Article No.: 8903046060
Luminous flux (Luminaire): 3000 lm
Luminous flux (Lamps): 3000 lm
Luminaire Wattage: 36.0 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



1 Pieces Meyer + Sohn 8903046070 Monospot 3 Engstr.
mit Rillenlas ww
Article No.: 8903046070
Luminous flux (Luminaire): 2603 lm
Luminous flux (Lamps): 2603 lm
Luminaire Wattage: 36.0 W
Luminaire classification according to CIE: 100
CIE flux code: 94 99 100 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.

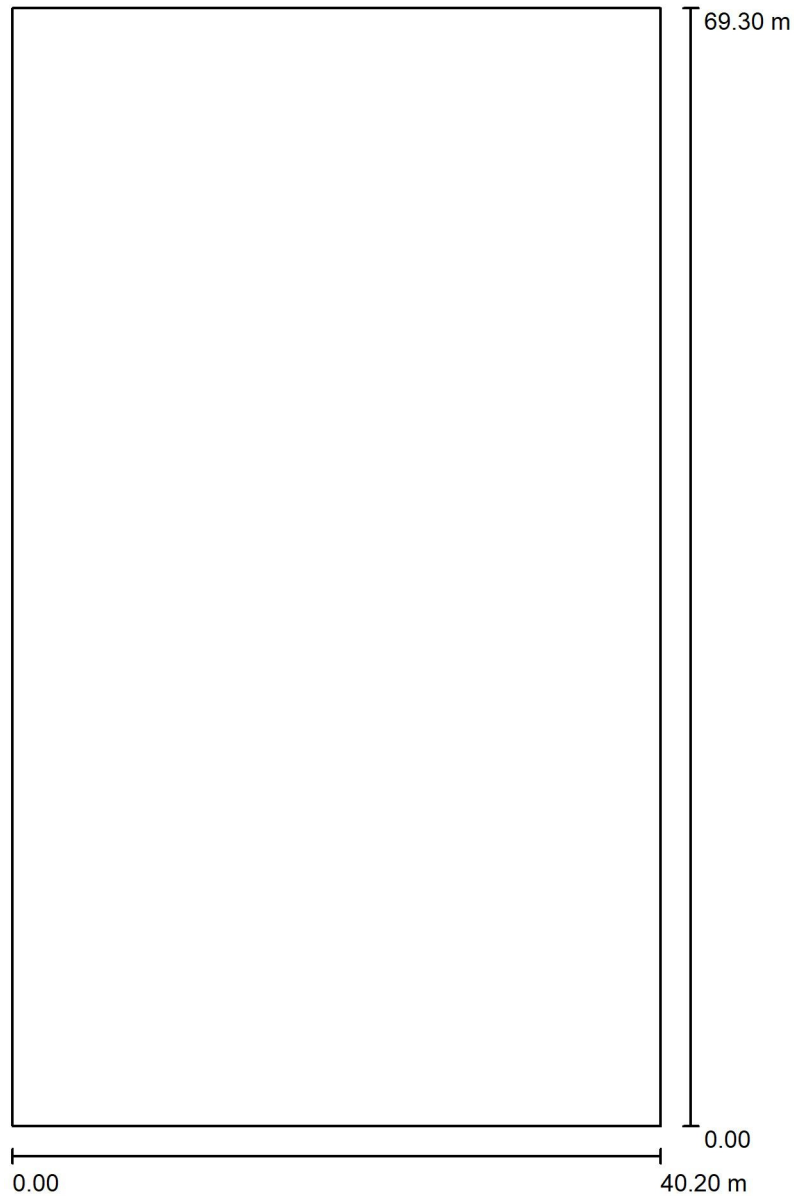




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Exterior Scene 1 / Floor plan



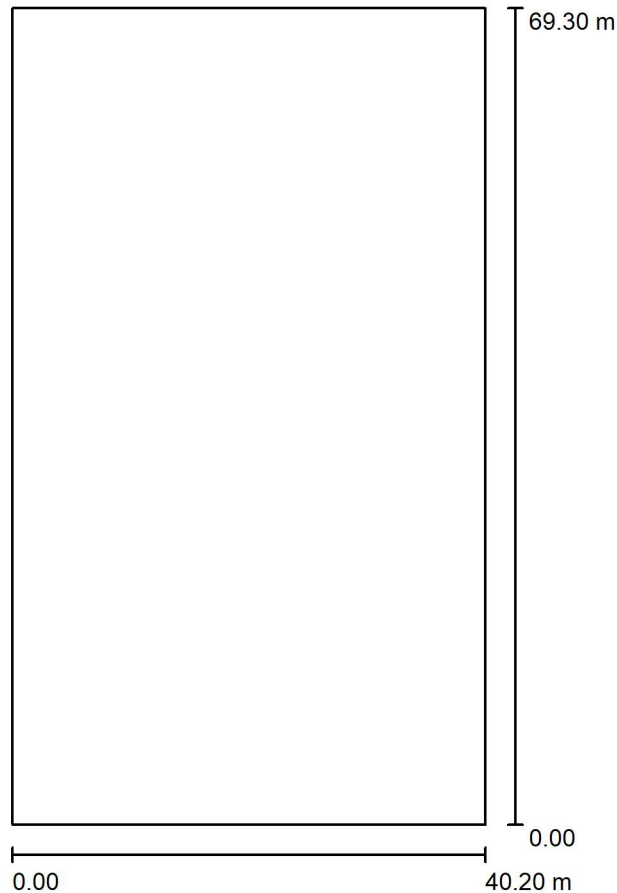
Scale 1 : 469



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Exterior Scene 1 / Light scene 2 / Planning data



Maintenance factor: 0.80, ULR (Upward Light Ratio): 29.5%

Scale 1:643

Luminaire Parts List

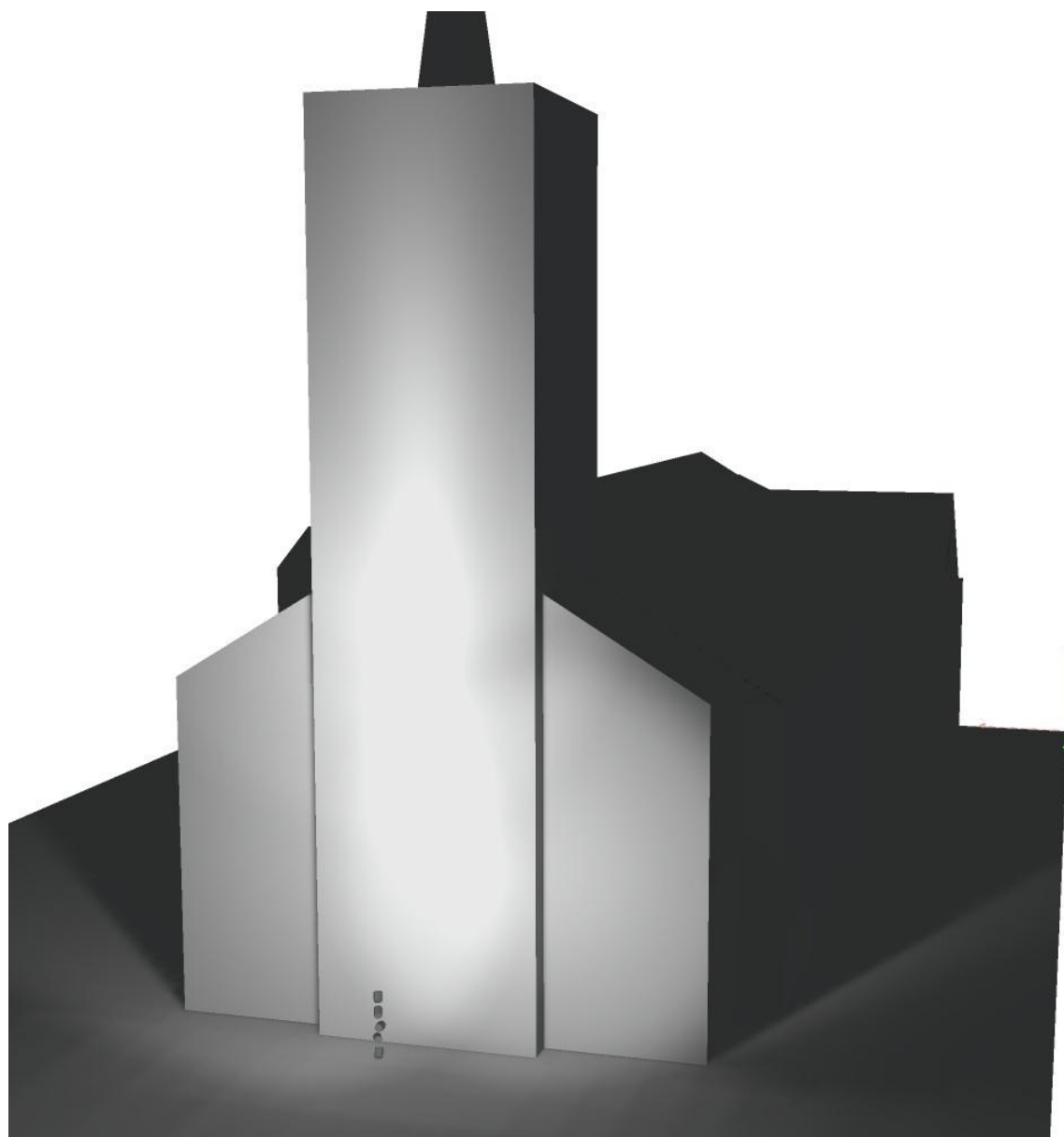
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Meyer + Sohn 8903046040 Monospot 3 mittelbreit ww (1.000)	3283	3283	36.0
2	3	Meyer + Sohn 8903046060 Monospot 3 Vario Optic wide ww (1.000)	3000	3000	36.0
3	1	Meyer + Sohn 8903046070 Monospot 3 Engstr. mit Rillenlas ww (1.000)	2603	2603	36.0
Total:			14886	Total: 14886	180.0



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Exterior Scene 1 / Light scene 2 / 3D Rendering

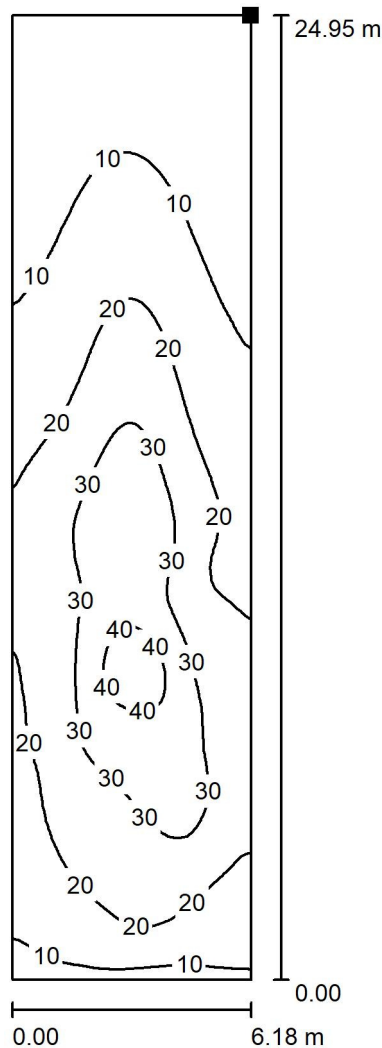




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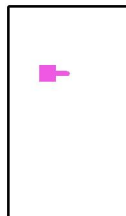
Operator Commercial Lighting Systems Ltd
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Exterior Scene 1 / Light scene 2 / Calculation Surface 1 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 196

Position of surface in external scene:
Marked point:
(13.100 m, 47.295 m, 25.000 m)



Grid: 128 x 128 Points

E_{av} [lx]
19

E_{min} [lx]
2.73

E_{max} [lx]
47

u_0
0.142

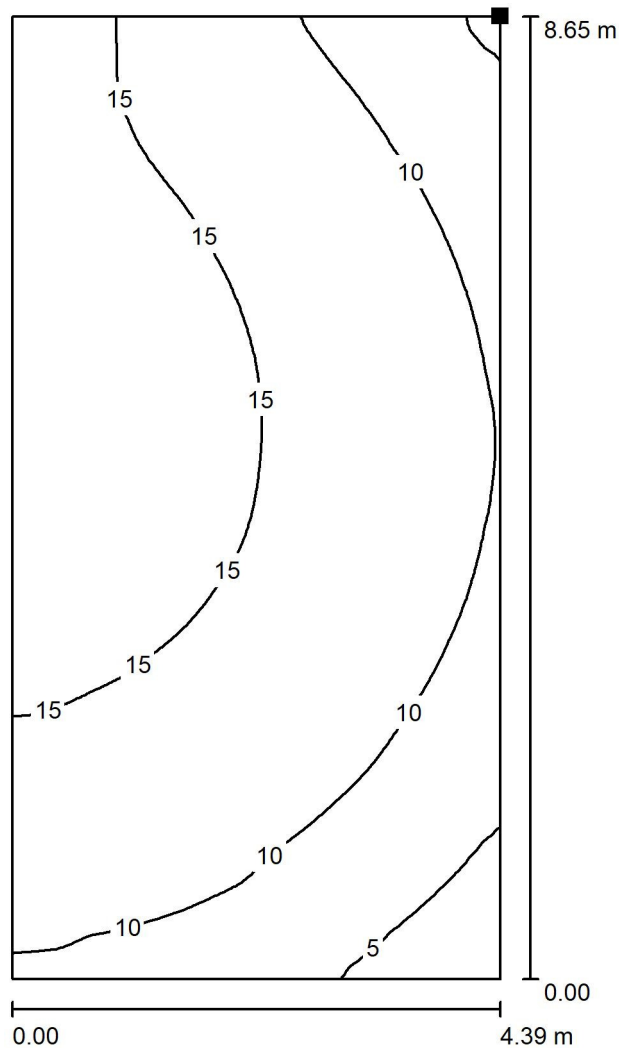
E_{min} / E_{max}
0.058



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Exterior Scene 1 / Light scene 2 / Calculation Surface 2 / Isolines (E, Perpendicular)

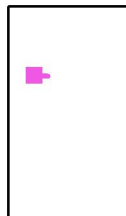


Values in Lux, Scale 1 : 68

Position of surface in external scene:

Marked point:

(8.700 m, 46.547 m, 8.700 m)



Grid: 128 x 128 Points

E_{av} [lx]
13

E_{min} [lx]
1.59

E_{max} [lx]
20

u_0
0.127

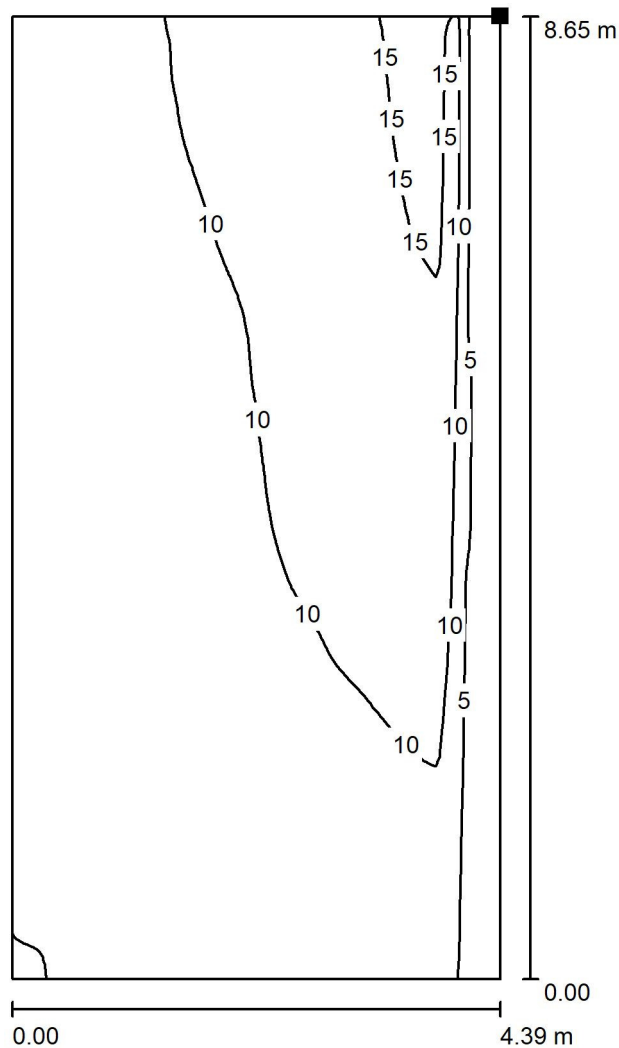
E_{min} / E_{max}
0.081



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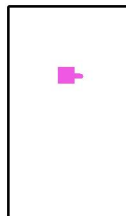
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Exterior Scene 1 / Light scene 2 / Calculation Surface 3 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 68

Position of surface in external scene:
Marked point:
(19.301 m, 46.543 m, 8.700 m)



Grid: 128 x 128 Points

E_{av} [lx]
8.64

E_{min} [lx]
0.11

E_{max} [lx]
17

u_0
0.013

E_{min} / E_{max}
0.007