

Ramsi LA 1. k

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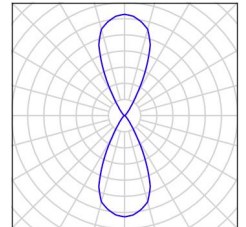
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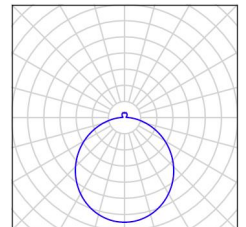
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Ramsi LA 1. k / Luminaire parts list

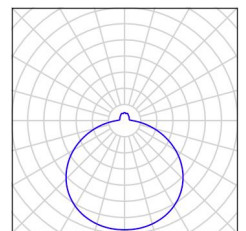
16 Pieces Glamox 11656424 D81-W70 LED 2x220 HF 830 WB
Article No.: 11656424
Luminous flux (Luminaire): 759 lm
Luminous flux (Lamps): 900 lm
Luminaire Wattage: 6.0 W
Luminaire classification according to CIE: 50
CIE flux code: 94 99 100 50 85
Fitting: 2 x D81 2X3W WIDE BEAM (Correction Factor 1.000).



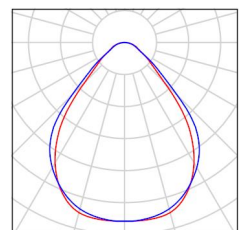
30 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



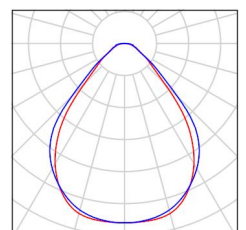
21 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction Factor 1.000).



3 Pieces Glamox C80S05100MP C80-SR3384 LED 6200 840 MP ME
Article No.: C80S05100MP
Luminous flux (Luminaire): 6208 lm
Luminous flux (Lamps): 6236 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 92 98 100 100
Fitting: 1 x LED C80 6200 (Correction Factor 1.000).



5 Pieces Glamox C80S56100MP C80-SR1410 LED 4600 840 MP HI
Article No.: C80S56100MP
Luminous flux (Luminaire): 4633 lm
Luminous flux (Lamps): 4636 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 91 98 100 100
Fitting: 1 x LED C80 4600 (Correction Factor 1.000).

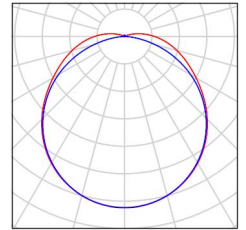


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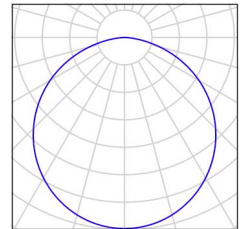
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Ramsi LA 1. k / Luminaire parts list

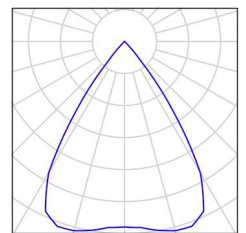
7 Pieces Glamox I20083545 i20-1200 LED 4600 840 OP
Article No.: I20083545
Luminous flux (Luminaire): 4617 lm
Luminous flux (Lamps): 4618 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 96
CIE flux code: 44 74 91 96 100
Fitting: 1 x LED i20 4600 (Correction Factor 1.000).



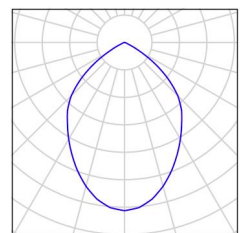
2 Pieces Glamox MOR213525 MODUL-R600 LED 4400 840 OP
Article No.: MOR213525
Luminous flux (Luminaire): 4388 lm
Luminous flux (Lamps): 4389 lm
Luminaire Wattage: 37.0 W
Luminaire classification according to CIE: 100
CIE flux code: 47 79 96 100 100
Fitting: 1 x LED MO-R 4400 840 (Correction Factor 1.000).



5 Pieces SITECO 2DN11K77VL336C Lunis 2® mini
Article No.: 2DN11K77VL336C
Luminous flux (Luminaire): 1630 lm
Luminous flux (Lamps): 1630 lm
Luminaire Wattage: 20.8 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED 3000K / CRI >= 80 (Correction Factor 1.000).



34 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI >= 80 (Correction Factor 1.000).

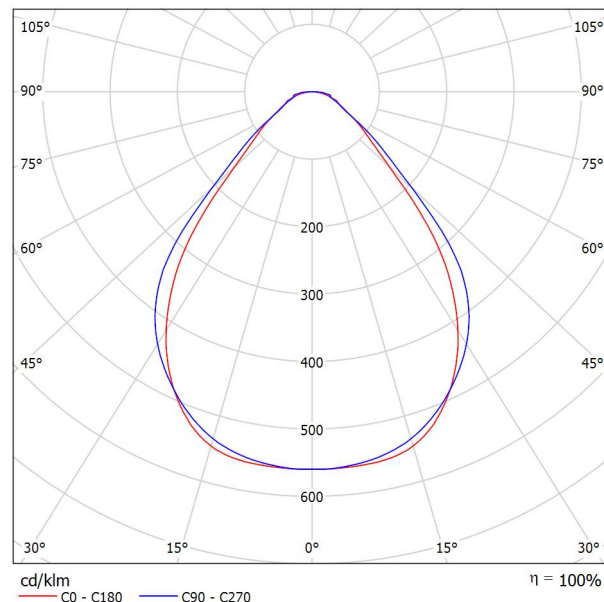


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Glamox C80S56100MP C80-SR1410 LED 4600 840 MP HI / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
 CIE flux code: 70 91 98 100 100

Lyskilde
 LED med 3 forskellige lumen ud per meter.
 Ca. 2800 lm per meter, 1800 lm per meter og 800 lm per meter.
 CRI > 80. 3000° og 4000°K
 50.000t, L80, F10 ved max. Ta
 MacAdams 3

Forkobling
 Kan leveres med konstant lys (HF) og dæmpbare (Dali) drivere.

Materiale & farve
 Armaturhus og endekapper i anodiseret aluminium.

Tilbehør
 Endestykker og optik enheder skal bestilles separat.

Tilslutning
 Kabelindføring fra top eller via endestykker. Integreret gennemfortrådning med klemrække på hvert lysmodul.

Optik
 Kan leveres med Opal optik (OP), Mikroprismatisk optik (MP) og en asymmetrisk optik (ASY).

Integreret nødlys
 Kan leveres med integreret nødlys. 1 og 3 timer varighed. Standard (S), selvtest (ST) og adresserbare (DALI).

Integrerede sensorer
 Kan leveres med en kombineret PIR og dagslyssensor (D2-SEN).

Luminous emittance 1:

Glare Evaluation According to UGR

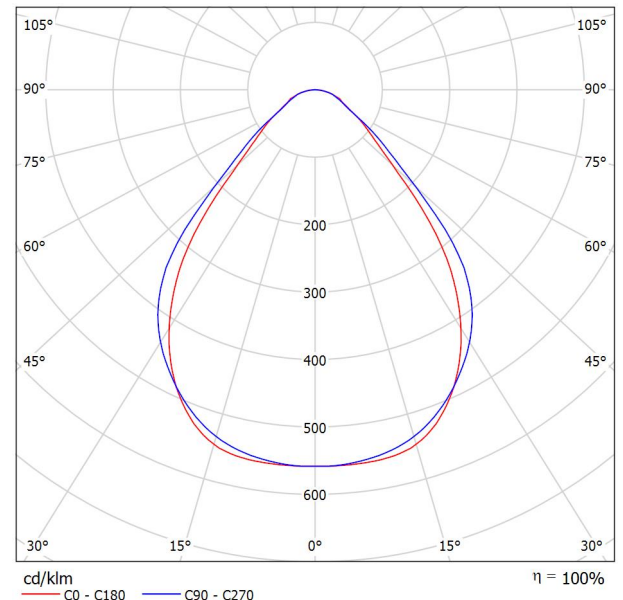
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	18.6	19.7	18.9	19.9	20.1	19.4	20.4	19.7	20.6	20.8
	3H	19.3	20.2	19.6	20.4	20.7	19.9	20.8	20.2	21.1	21.3
	4H	19.6	20.5	19.9	20.7	21.0	20.2	21.1	20.6	21.4	21.6
	6H	19.9	20.7	20.3	21.0	21.3	20.7	21.5	21.1	21.8	22.1
	8H	20.1	20.8	20.4	21.1	21.4	21.0	21.8	21.3	22.1	22.4
4H	12H	20.1	20.9	20.5	21.2	21.5	21.3	22.0	21.6	22.3	22.6
	2H	18.9	19.7	19.2	20.0	20.3	19.5	20.4	19.9	20.7	20.9
	3H	19.7	20.4	20.0	20.7	21.0	20.3	21.1	20.7	21.4	21.7
	4H	20.2	20.8	20.6	21.2	21.5	20.8	21.5	21.2	21.8	22.2
	6H	20.7	21.2	21.1	21.6	22.0	21.5	22.1	21.9	22.4	22.8
8H	12H	20.9	21.4	21.3	21.8	22.2	21.9	22.4	22.3	22.8	23.2
	2H	21.0	21.5	21.5	21.9	22.3	22.3	22.7	22.7	23.1	23.5
	4H	20.4	20.9	20.9	21.3	21.7	21.0	21.5	21.5	21.9	22.3
	6H	21.1	21.5	21.6	21.9	22.4	21.8	22.3	22.3	22.7	23.1
	8H	21.4	21.8	21.9	22.2	22.7	22.3	22.7	22.8	23.1	23.6
12H	12H	21.6	21.9	22.1	22.4	22.9	22.9	23.2	23.4	23.6	24.1
	4H	20.5	20.9	20.9	21.3	21.7	21.0	21.5	21.5	21.9	22.3
	6H	21.2	21.6	21.7	22.0	22.5	21.9	22.3	22.4	22.7	23.2
	8H	21.5	21.9	22.0	22.3	22.8	22.4	22.7	22.9	23.2	23.7
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.6 / -0.7					+0.4 / -0.6				
S = 1.5H		+1.1 / -1.1					+1.3 / -1.1				
S = 2.0H		+2.1 / -1.4					+2.4 / -1.4				
Standard table		BK04					BK04				
Correction		3.5					4.4				
Summand											
Corrected Glare Indices referring to 4636lm Total Luminous Flux											

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Glamox C80S05100MP C80-SR3384 LED 6200 840 MP ME / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
 CIE flux code: 70 92 98 100 100

Lyskilde
 LED med 3 forskellige lumen ud per meter.
 Ca. 2800 lm per meter, 1800 lm per meter og 800 lm per meter.
 CRI > 80. 3000° og 4000°K
 50.000t, L80, F10 ved max. Ta
 MacAdams 3

Forkobling
 Kan leveres med konstant lys (HF) og dæmpbare (Dali) drivere.

Materiale & farve
 Armaturhus og endekapper i anodiseret aluminium.

Tilbehør
 Endestykker og optik enheder skal bestilles separat.

Tilslutning
 Kabelindføring fra top eller via endestykker. Integreret gennemfortrådning med klemrække på hvert lysmodul.

Optik
 Kan leveres med Opal optik (OP), Mikroprismatisk optik (MP) og en asymmetrisk optik (ASY).

Integreret nødlys
 Kan leveres med integreret nødlys. 1 og 3 timer varighed. Standard (S), selvtest (ST) og adresserbare (DALI).

Integrerede sensorer
 Kan leveres med en kombineret PIR og dagslyssensor (D2-SEN).

Luminous emittance 1:

Glare Evaluation According to UGR

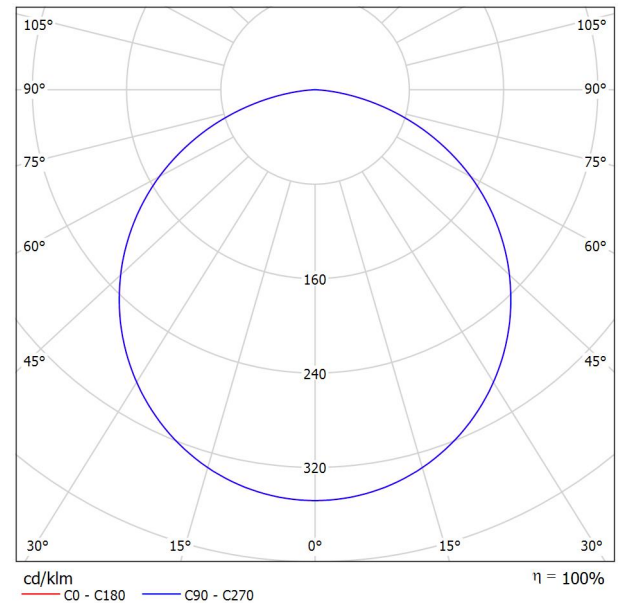
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	16.6	17.6	16.9	17.9	18.1	17.4	18.4	17.7	18.6	18.8
	3H	17.3	18.2	17.6	18.4	18.7	17.9	18.8	18.2	19.1	19.3
	4H	17.6	18.5	17.9	18.7	19.0	18.2	19.1	18.6	19.4	19.6
	6H	17.9	18.7	18.3	19.0	19.3	18.5	19.3	18.9	19.6	19.9
	8H	18.1	18.8	18.4	19.1	19.4	18.6	19.4	19.0	19.7	20.0
4H	12H	18.1	18.9	18.5	19.2	19.5	18.7	19.4	19.0	19.7	20.0
	2H	16.9	17.7	17.2	18.0	18.3	17.5	18.4	17.9	18.7	18.9
	3H	17.7	18.4	18.0	18.7	19.0	18.3	19.1	18.7	19.4	19.7
	4H	18.2	18.8	18.6	19.2	19.5	18.8	19.5	19.2	19.8	20.2
	6H	18.7	19.2	19.1	19.6	20.0	19.3	19.8	19.7	20.2	20.6
8H	8H	18.8	19.3	19.3	19.7	20.1	19.4	19.9	19.8	20.3	20.7
	12H	19.0	19.4	19.4	19.8	20.2	19.5	20.0	19.9	20.4	20.8
	4H	18.4	18.9	18.9	19.3	19.7	19.0	19.5	19.4	19.9	20.3
	6H	19.0	19.4	19.5	19.9	20.3	19.6	20.0	20.0	20.4	20.8
	8H	19.3	19.6	19.8	20.1	20.6	19.8	20.1	20.3	20.6	21.0
12H	12H	19.5	19.8	20.0	20.3	20.8	19.9	20.2	20.4	20.7	21.2
	4H	18.4	18.9	18.9	19.3	19.7	19.0	19.5	19.5	19.9	20.3
	6H	19.1	19.4	19.6	19.9	20.4	19.6	19.9	20.1	20.4	20.9
8H	8H	19.4	19.7	19.9	20.2	20.7	19.9	20.2	20.3	20.6	21.1
	12H	19.4	19.7	19.9	20.2	20.7	19.9	20.2	20.3	20.6	21.1
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.6 / -0.7					+0.5 / -0.7				
S = 1.5H		+1.2 / -1.1					+1.6 / -1.3				
S = 2.0H		+2.2 / -1.4					+2.8 / -1.8				
Standard table		BK04					BK03				
Correction		1.5					1.7				
Summand		1.5					1.7				
Corrected Glare Indices referring to 6236lm Total Luminous Flux											

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Glamox MOR213525 MODUL-R600 LED 4400 840 OP / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
 CIE flux code: 47 79 96 100 100

Lyskilde

LED med følgende lumen ud værdier.
 MP optik. 600 modul> 4200 lumen ud.
 MP optik. 300 modul> 3400 lumen ud.
 OP optik. 600 modul> 4300 lumen ud.
 OP optik. 300 modul> 3600 lumen ud.
 Cirkulær lysåbning: CI/MP> 3200 lumen ud, CI/OP> 3500 lumen ud.

Forkobling

Leveres med elektronisk driver (HF) eller DALI.

Montering

For nem installation i synlig T-profil lofter.

LED varianter er IP44 nedefra, IP20 fra toppen.

Tilslutning

Kabelindgang fra siden. Kan leveres med kabel eller kabel og stik. 3 eller 5-polet push-in terminal blok. Linect stik kan leveres på forespørgsel.

Optik

Mikroprismatisk optik, MP.
 Opal optik, OP.
 Cirkulær lysåbning, CI/MP eller CI/OP.

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	18.0	19.3	18.3	19.5	19.8	18.0	19.3	18.3	19.5
	3H	19.5	20.7	19.9	21.0	21.3	19.5	20.7	19.9	21.0
	4H	20.1	21.3	20.5	21.5	21.8	20.1	21.3	20.5	21.5
	6H	20.5	21.6	20.9	21.9	22.2	20.5	21.6	20.9	21.9
	8H	20.6	21.6	21.0	21.9	22.3	20.6	21.6	21.0	21.9
4H	12H	20.7	21.6	21.0	21.9	22.3	20.6	21.6	21.0	21.9
	2H	18.7	19.8	19.0	20.1	20.4	18.7	19.8	19.0	20.1
	3H	20.4	21.4	20.8	21.7	22.0	20.4	21.4	20.8	21.7
	4H	21.1	22.0	21.5	22.3	22.7	21.1	22.0	21.5	22.3
	6H	21.6	22.4	22.0	22.7	23.1	21.6	22.4	22.0	22.7
8H	12H	21.8	22.4	22.2	22.8	23.3	21.8	22.4	22.2	22.8
	2H	21.8	22.5	22.3	22.9	23.3	21.8	22.4	22.3	22.9
	4H	21.4	22.1	21.8	22.5	22.9	21.4	22.1	21.8	22.5
	6H	22.0	22.6	22.5	23.0	23.5	22.0	22.6	22.5	23.0
	8H	22.2	22.7	22.7	23.2	23.6	22.2	22.7	22.7	23.2
12H	12H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2
	4H	21.4	22.0	21.9	22.5	22.9	21.4	22.0	21.9	22.5
	6H	22.1	22.6	22.5	23.0	23.5	22.1	22.6	22.5	23.0
	8H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2
	12H	22.3	22.7	22.8	23.2	23.7	22.3	22.7	22.8	23.2
Variation of the observer position for the luminaire distances S										
S = 1.0H	+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H	+0.2 / -0.3					+0.2 / -0.4				
S = 2.0H	+0.4 / -0.7					+0.4 / -0.7				
Standard table	BK05					BK05				
Correction	4.6					4.6				
Summand										
Corrected Glare Indices referring to 4389lm Total Luminous Flux										

BELASTNING OG SIKRINGER

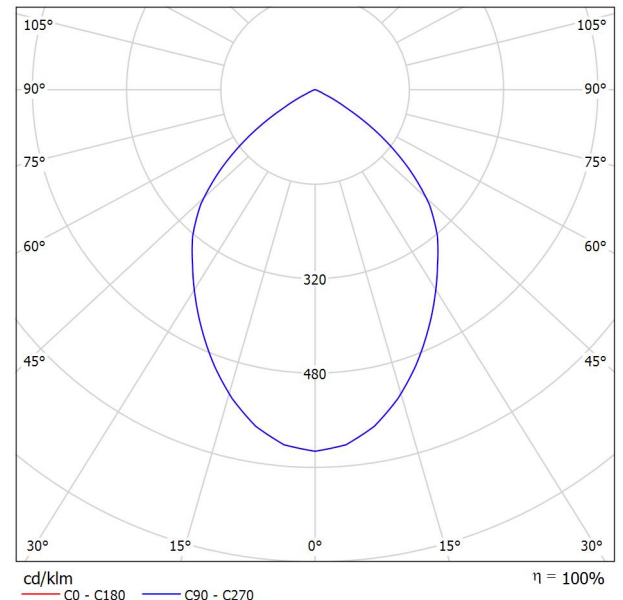
Maksimum antal af modul Micro med LED på MCB 16A Type B: 11 stk, 16A Type C: 22 stk.

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SITECO 5DN12K78VL3W3C Lunis 2® mini / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
 CIE flux code: 67 97 100 100 100

5DN12K78VL3W3C

Lunis 2® mini, downlight, light control with reflector, of plastic, aluminium vaporised, matt, light emission: direct distribution, LED light colour: 830, control gear: ECG, with Wieland GSTi3 18, 500mm cable, mains connection: 230V, AC, 50Hz, luminaire housing, of plastic, white, diameter: 172 mm, recess depth: 155 mm, clamping range: 1..40mm, mounting ring, flat, of plastic, white, protection rating (complete): IP20, insulation class (complete): insulation class I (protective earthing), certification: CE, ENEC, VDE, permissible ambient temperature for indoor applications: ≤ +25°C

Test report number: 51495

Luminous emittance 1:

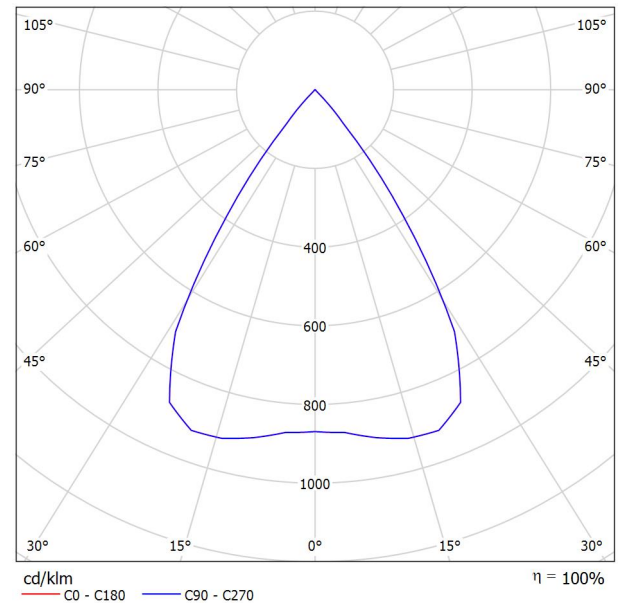
Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30		
ρ Walls	50	30	50	30	30	50	30	50	30	30		
ρ Floor	20	20	20	20	20	20	20	20	20	20		
Room Size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis						
2H	2H	21.3	22.3	21.6	22.5	22.7	21.3	22.3	21.6	22.5	22.7	
	3H	21.2	22.1	21.5	22.3	22.6	21.2	22.1	21.5	22.3	22.6	
	4H	21.1	22.0	21.4	22.2	22.5	21.1	22.0	21.4	22.2	22.5	
	6H	21.0	21.8	21.4	22.1	22.4	21.0	21.8	21.4	22.1	22.4	
	8H	21.0	21.8	21.4	22.1	22.4	21.0	21.8	21.4	22.1	22.4	
12H	21.0	21.7	21.3	22.0	22.3	21.0	21.7	21.3	22.0	22.3		
4H	2H	21.3	22.1	21.6	22.4	22.7	21.3	22.1	21.6	22.4	22.7	
	3H	21.2	21.9	21.5	22.2	22.5	21.2	21.9	21.5	22.2	22.5	
	4H	21.1	21.7	21.5	22.1	22.4	21.1	21.7	21.5	22.1	22.4	
	6H	21.0	21.6	21.5	21.9	22.3	21.0	21.6	21.5	21.9	22.3	
	8H	21.0	21.5	21.4	21.9	22.3	21.0	21.5	21.4	21.9	22.3	
12H	21.0	21.4	21.4	21.8	22.2	21.0	21.4	21.4	21.8	22.2		
8H	4H	21.0	21.5	21.4	21.9	22.3	21.0	21.5	21.4	21.9	22.3	
	6H	20.9	21.3	21.4	21.7	22.2	20.9	21.3	21.4	21.7	22.2	
	8H	20.9	21.2	21.4	21.7	22.1	20.9	21.2	21.4	21.7	22.1	
	12H	20.9	21.1	21.3	21.6	22.1	20.9	21.1	21.3	21.6	22.1	
12H	4H	21.0	21.4	21.4	21.8	22.2	21.0	21.4	21.4	21.8	22.2	
	6H	20.9	21.2	21.4	21.7	22.1	20.9	21.2	21.4	21.7	22.1	
	8H	20.8	21.1	21.3	21.6	22.1	20.8	21.1	21.3	21.6	22.1	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.8 / -1.4					+0.8 / -1.4					
S = 1.5H		+1.9 / -7.0					+1.9 / -7.0					
S = 2.0H		+3.7 / -12.4					+3.7 / -12.4					
Standard table		BK00					BK00					
Correction		2.8					2.8					
Summand												
Corrected Glare Indices referring to 880lm Total Luminous Flux												

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SITECO 2DN11K77VL336C Lunis 2® mini / Luminaire Data Sheet

Luminous emittance 1:



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

2DN11K77VL336C

Lunis 2® mini, downlight, light control with darklight reflector, of plastic, aluminium vaporised, highly specular, CAT 2 ($L \leq 1000 \text{ cd/m}^2$), light emission: direct distribution, LED light colour: 830, control gear: ECG, with terminal, 2-pole, max. 1.5 mm^2 , mains connection: 230V, AC, 50Hz, luminaire housing, of plastic, white, diameter: 172 mm, recess depth: 155 mm, clamping range: 1..40mm, mounting ring, flat, of plastic, white, protection rating (complete): IP20, insulation class (complete): insulation class II (safety insulation), certification: CE, ENEC, VDE, permissible ambient temperature for indoor applications: $\leq +25^\circ\text{C}$

Test report number: 54954

Luminous emittance 1:

Glare Evaluation According to UGR

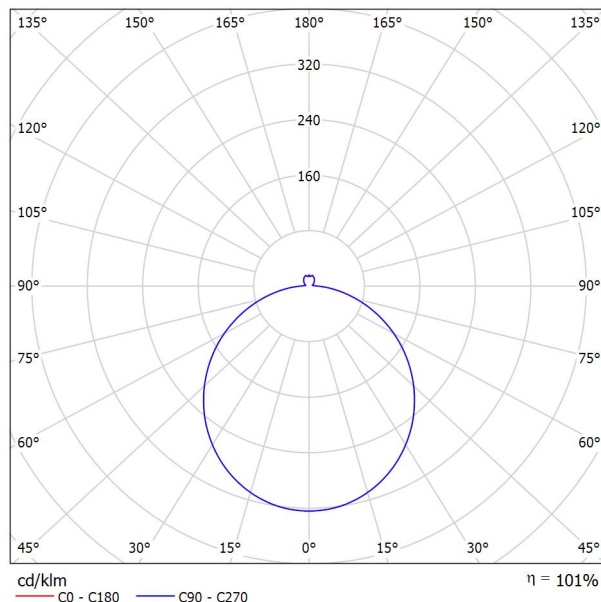
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.5	18.2	17.8	18.3	18.5	17.5	18.2	17.8	18.3	18.5
	3H	17.4	18.0	17.7	18.2	18.4	17.4	18.0	17.7	18.2	18.4
	4H	17.3	17.9	17.6	18.1	18.4	17.3	17.9	17.6	18.1	18.4
	6H	17.2	17.7	17.6	18.0	18.3	17.2	17.7	17.6	18.0	18.3
	8H	17.2	17.7	17.5	18.0	18.3	17.2	17.7	17.5	18.0	18.3
4H	12H	17.2	17.6	17.5	17.9	18.2	17.2	17.6	17.5	17.9	18.2
	2H	17.3	17.9	17.6	18.1	18.4	17.3	17.9	17.6	18.1	18.4
	3H	17.2	17.6	17.5	17.9	18.2	17.2	17.6	17.5	17.9	18.2
	4H	17.1	17.5	17.5	17.8	18.2	17.1	17.5	17.5	17.8	18.2
	6H	17.0	17.3	17.4	17.7	18.1	17.0	17.3	17.4	17.7	18.1
8H	12H	17.0	17.3	17.4	17.6	18.0	17.0	17.3	17.4	17.6	18.0
	16.9	17.2	17.4	17.6	18.0	16.9	17.2	17.4	17.6	18.0	
	4H	17.0	17.3	17.4	17.6	18.0	17.0	17.3	17.4	17.6	18.0
	6H	16.9	17.1	17.3	17.5	18.0	16.9	17.1	17.3	17.5	18.0
	8H	16.8	17.0	17.3	17.5	17.9	16.8	17.0	17.3	17.5	17.9
12H	12H	16.8	16.9	17.3	17.4	17.9	16.8	16.9	17.3	17.4	17.9
	4H	16.9	17.2	17.4	17.6	18.0	16.9	17.2	17.4	17.6	18.0
	6H	16.8	17.0	17.3	17.5	17.9	16.8	17.0	17.3	17.5	17.9
	8H	16.8	16.9	17.3	17.4	17.9	16.8	16.9	17.3	17.4	17.9
	Variation of the observer position for the luminaire distances S										
S = 1.0H		+5.8 / -31.1					+5.8 / -31.1				
S = 1.5H		+8.6 / -32.1					+8.6 / -32.1				
S = 2.0H		+10.6 / -33.8					+10.6 / -33.8				
Standard table		BK00					BK00				
Correction Summand		-1.2					-1.2				
Corrected Glare Indices referring to 1630lm Total Luminous Flux											

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Glamox A20231320 A20-S420 LED 2400 830 / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 94
 CIE flux code: 46 77 94 94 101

Lyskilde

LED

Levetid: Minimum 50 000 timer, L70, Max Ta

A20-S320:

LED 1300 lumen ud

A20-S420:

LED 2400 lumen ud

For præcise lumen værdier se databladet på varenr. niveau

Konventionel med kompakte lysstofrør

A20-S320:

1 x T5-C 22W

A20-S420:

1 x T5-C 22, 40, 55W

1 x T5-C 22 40W

A20-S620:

3 x TC-L 36W

Leveres uden lyskilder.

Forkobling

Elektronisk forkobling (HF), analog dæmpning (HFDa), digital dæmpning (HFDd) eller DALI.

Materiale & farve

Armaturomhus i støbt aluminium, malet i polyester-pulverlak i sølvgrå (RAL 9006). Opal satin akryl afskærmning.

Montering

Armaturomhus til montering på væg eller loft.

Tilslutning

5-polet push-in klemme forberedt for gennemgangskobling.

Integrerede sensorer

Ultrasonisk bevægelsessensor type U-SEN.

Luminous emittance 1:

Glare Evaluation According to UGR

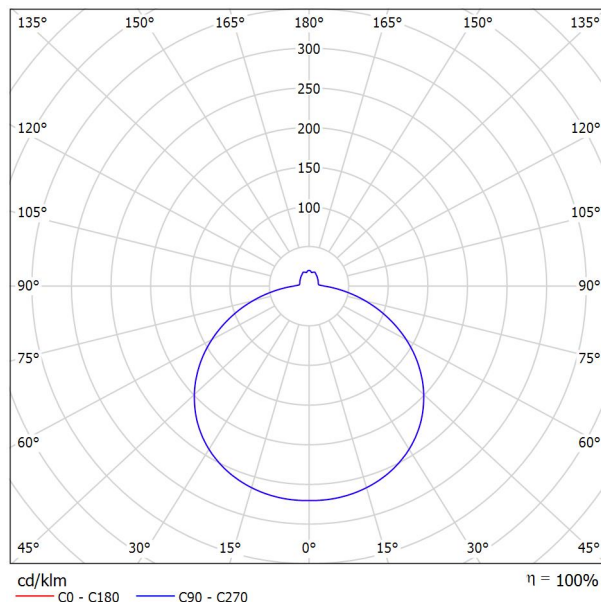
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.3	18.5	17.6	18.9	19.2	17.3	18.5	17.6	18.9	19.2
	3H	18.9	20.1	19.3	20.5	20.8	18.9	20.1	19.3	20.5	20.8
	4H	19.7	20.7	20.1	21.1	21.5	19.7	20.7	20.1	21.1	21.5
	6H	20.3	21.3	20.7	21.7	22.1	20.3	21.3	20.7	21.7	22.1
	8H	20.5	21.5	21.0	21.9	22.4	20.5	21.5	21.0	21.9	22.4
12H	20.8	21.7	21.2	22.1	22.6	20.8	21.7	21.2	22.1	22.6	
4H	2H	18.0	19.0	18.4	19.4	19.8	18.0	19.0	18.4	19.4	19.8
	3H	19.8	20.8	20.3	21.2	21.6	19.8	20.8	20.3	21.2	21.6
	4H	20.7	21.5	21.2	22.0	22.5	20.7	21.5	21.2	22.0	22.5
	6H	21.5	22.2	22.0	22.7	23.2	21.5	22.2	22.0	22.7	23.2
	8H	21.8	22.4	22.3	22.9	23.5	21.8	22.4	22.3	22.9	23.5
12H	22.1	22.7	22.6	23.2	23.8	22.1	22.7	22.6	23.2	23.8	
8H	4H	21.0	21.7	21.6	22.2	22.7	21.0	21.7	21.6	22.2	22.7
	6H	22.0	22.5	22.5	23.1	23.6	22.0	22.5	22.5	23.1	23.6
	8H	22.4	22.9	23.0	23.5	24.1	22.4	22.9	23.0	23.5	24.1
	12H	22.9	23.3	23.4	23.8	24.5	22.9	23.3	23.4	23.8	24.5
	12H	21.1	21.7	21.6	22.2	22.8	21.1	21.7	21.6	22.2	22.8
6H	22.1	22.6	22.7	23.1	23.7	22.1	22.6	22.7	23.1	23.7	
8H	22.6	23.0	23.2	23.6	24.2	22.6	23.0	23.2	23.6	24.2	
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.3					+0.2 / -0.3				
S = 2.0H		+0.3 / -0.6					+0.3 / -0.6				
Standard table		BK07					BK07				
Correction Summ		5.7					5.7				
Corrected Glare Indices referring to 2367lm Total Luminous Flux											

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Glamox A20341320 A20-S620 LED 3500 830 / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 91
 CIE flux code: 42 74 93 91 100

Lyskilde

LED

Levetid: Minimum 50 000 timer, L70, Max Ta

A20-S320:

LED 1300 lumen ud

A20-S420:

LED 2400 lumen ud

For præcise lumen værdier se databladet på varenr. niveau

Konventionel med kompakte lysstofrør

A20-S320:

1 x T5-C 22W

A20-S420:

1 x T5-C 22, 40, 55W

1 x T5-C 22 40W

A20-S620:

3 x TC-L 36W

Leveres uden lyskilder.

Forkobling

Elektronisk forkobling (HF), analog dæmpning (HFDa), digital dæmpning (HFDd) eller DALI.

Materiale & farve

Armaturhus i støbt aluminium, malet i polyester-pulverlak i sølvgrå (RAL 9006). Opal satin akryl afskærmning.

Montering

Armatur til montering på væg eller loft.

Tilslutning

5-polet push-in klemme forberedt for gennemgangskobling.

Integrerede sensorer

Ultrasonisk bevægelsessensor type U-SEN.

Luminous emittance 1:

Glare Evaluation According to UGR

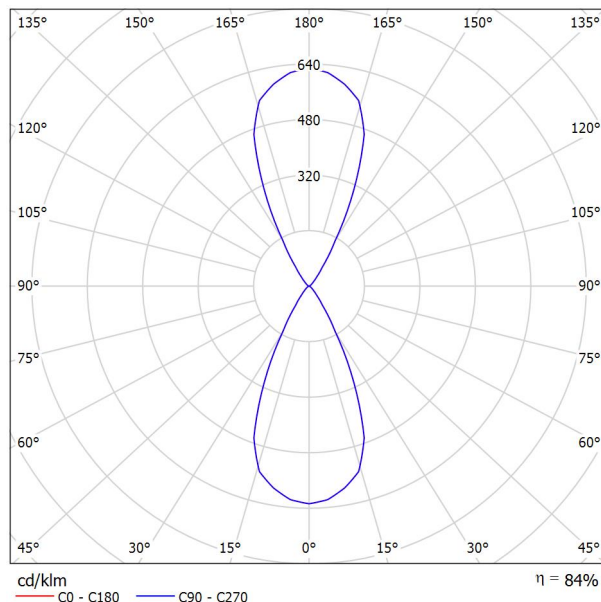
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	15.4	16.7	15.9	17.1	17.5	15.4	16.7	15.9	17.1	17.5
	3H	17.2	18.4	17.7	18.8	19.3	17.2	18.4	17.7	18.8	19.3
	4H	18.0	19.1	18.5	19.5	20.0	18.0	19.1	18.5	19.5	20.0
	6H	18.7	19.7	19.2	20.1	20.7	18.7	19.7	19.2	20.1	20.7
	8H	19.0	19.9	19.5	20.4	20.9	19.0	19.9	19.5	20.4	20.9
4H	12H	19.2	20.2	19.7	20.6	21.2	19.2	20.2	19.7	20.6	21.2
	2H	16.2	17.2	16.6	17.7	18.2	16.2	17.2	16.6	17.7	18.2
	3H	18.1	19.0	18.6	19.5	20.1	18.1	19.0	18.6	19.5	20.1
	4H	19.0	19.9	19.6	20.4	20.9	19.0	19.9	19.6	20.4	20.9
	6H	19.9	20.6	20.4	21.1	21.7	19.9	20.6	20.4	21.1	21.7
8H	8H	20.2	20.9	20.8	21.5	22.1	20.2	20.9	20.8	21.5	22.1
	12H	20.6	21.2	21.2	21.8	22.4	20.6	21.2	21.2	21.8	22.4
	4H	19.4	20.1	20.0	20.6	21.2	19.4	20.1	20.0	20.6	21.2
	6H	20.4	21.0	21.0	21.6	22.2	20.4	21.0	21.0	21.6	22.2
	8H	20.9	21.4	21.5	22.0	22.7	20.9	21.4	21.5	22.0	22.7
12H	12H	21.4	21.8	22.0	22.4	23.1	21.4	21.8	22.0	22.4	23.1
	4H	19.5	20.1	20.0	20.6	21.2	19.5	20.1	20.0	20.6	21.2
	6H	20.5	21.0	21.1	21.6	22.3	20.5	21.0	21.1	21.6	22.3
8H	21.1	21.5	21.7	22.1	22.8	21.1	21.5	21.7	22.1	22.8	
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.3					+0.2 / -0.3				
S = 2.0H		+0.3 / -0.5					+0.3 / -0.5				
Standard table		BK07					BK07				
Correction Summand		4.2					4.2				
Corrected Glare Indices referring to 3383lm Total Luminous Flux											

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Glamox 11656424 D81-W70 LED 2x220 HF 830 WB / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 50
CIE flux code: 94 99 100 50 85

Lyskilde
230V halogen (QPAR-CB16) 50W
12V halogen (QR-CBC51) 35W
Cool White LED (3W)
Warm White LED (3W)

Forkobling
Integreret elektronisk transformator til 12V halogen og strømforsyning til LED.

Materiale & farve
Armaturhus i støbt aluminium. Fosfor-kromateret for ekstra beskyttelse efterfulgt af et lag epoxy pulver og et ekstra lag af polyester pulverlak. Sort. Afdækning i hærdet sikkerhedsglas. Silikone pakning. Skruer i rustfrit stål.

Montering
For udenpåliggende væg montage.

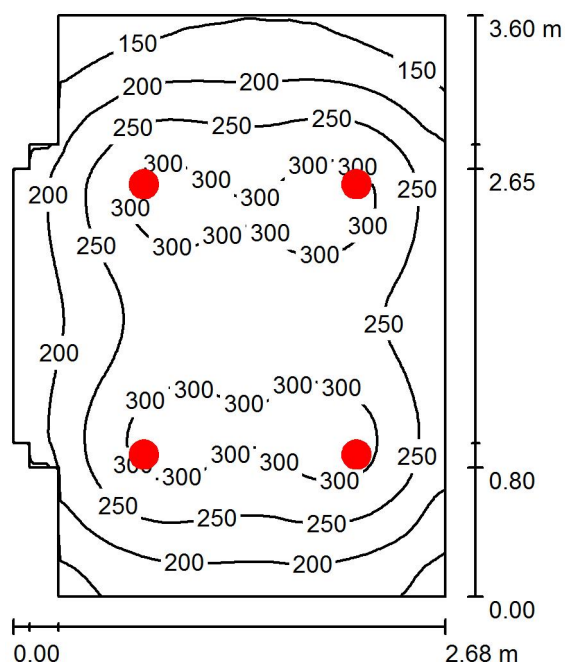
Tilslutning
1 x membran forskrning (kabel Ø <10 mm). 3-polet 2,5 mm² klemrække. Udendørs brug kræver passende fleksible kabler for at sikre vandtæthed af membranforskrningen.

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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Room 101 / Summary



Height of Room: 2.500 m, Mounting Height: 2.300 m, Light loss factor: 0.80

Values in Lux, Scale 1:47

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	242	106	321	0.440
Floor	20	182	113	221	0.622
Ceiling	70	37	26	48	0.690
Walls (12)	50	86	24	266	/

Workplane:

Height: 0.850 m
 Grid: 64 x 64 Points
 Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			3520	3520	64.0

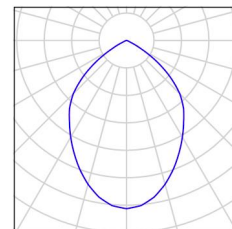
Specific connected load: $6.98 \text{ W/m}^2 = 2.89 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.17 m^2)

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Room 101 / Luminaire parts list

4 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction Factor 1.000).



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Room 101 / Photometric Results

Total Luminous Flux: 3520 lm
 Total Load: 64.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	204	38	242	/	/
Floor	141	41	182	20	12
Ceiling	0.00	37	37	70	8.31
Wall 1	48	39	87	50	14
Wall 2	59	37	96	50	15
Wall 3	39	38	77	50	12
Wall 4	40	37	77	50	12
Wall 5	31	38	70	50	11
Wall 6	61	36	97	50	15
Wall 7	16	40	55	50	8.80
Wall 8	50	37	87	50	14
Wall 9	11	39	50	50	7.94
Wall 10	66	34	100	50	16
Wall 11	19	38	57	50	9.13
Wall 12	53	40	92	50	15

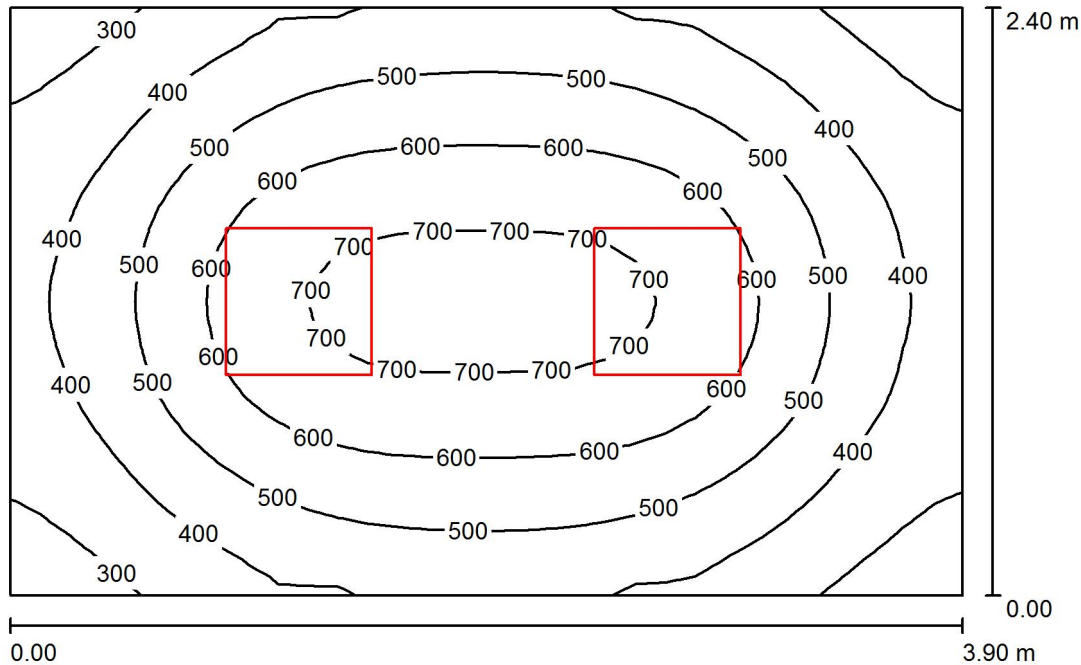
Uniformity on the working plane
 u_0 : 0.440 (1:2)
 $E_{\min} / E_{\max}$: 0.332 (1:3)

Specific connected load: $6.98 \text{ W/m}^2 = 2.89 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.17 m^2)

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Room 102A / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:31

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	498	253	730	0.508
Floor	20	353	232	451	0.659
Ceiling	70	96	27	115	0.275
Walls (4)	50	251	82	417	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox MOR213525 MODUL-R600 LED 4400 840 OP (1.000)	4388	4389	37.0
Total:			8776	8778	74.0

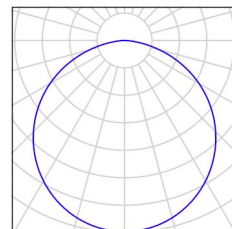
Specific connected load: $7.91 \text{ W/m}^2 = 1.59 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.36 m^2)

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Room 102A / Luminaire parts list

2 Pieces Glamox MOR213525 MODUL-R600 LED 4400
840 OP
Article No.: MOR213525
Luminous flux (Luminaire): 4388 lm
Luminous flux (Lamps): 4389 lm
Luminaire Wattage: 37.0 W
Luminaire classification according to CIE: 100
CIE flux code: 47 79 96 100 100
Fitting: 1 x LED MO-R 4400 840 (Correction
Factor 1.000).



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Room 102A / Photometric Results

Total Luminous Flux: 8776 lm
 Total Load: 74.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	387	111	498	/	/
Floor	242	110	353	20	22
Ceiling	0.00	96	96	70	21
Wall 1	157	100	258	50	41
Wall 2	139	99	238	50	38
Wall 3	157	101	258	50	41
Wall 4	143	99	242	50	38

Uniformity on the working plane

u₀: 0.508 (1:2)

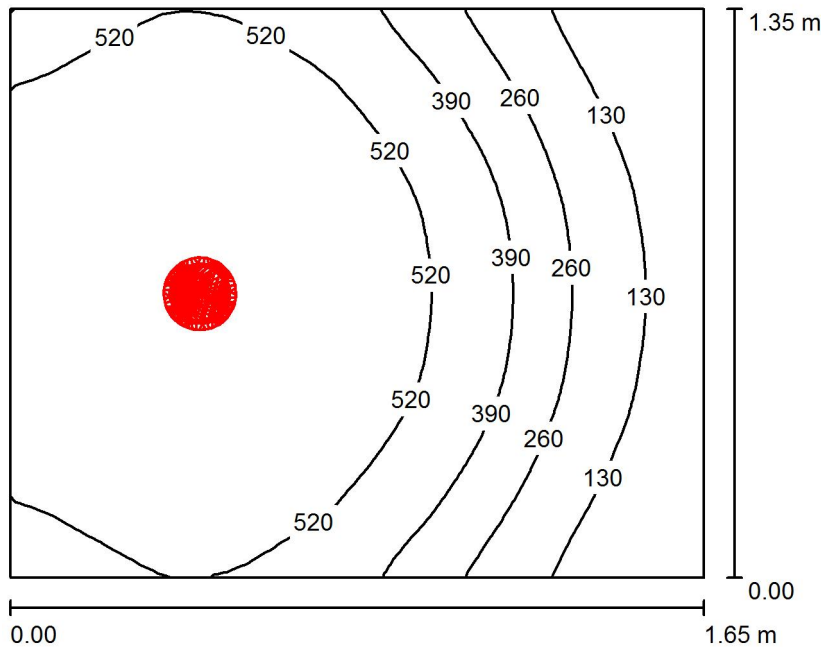
E_{min} / E_{max}: 0.346 (1:3)

Specific connected load: $7.91 \text{ W/m}^2 = 1.59 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.36 m^2)

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Room 102B / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:18

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	434	45	646	0.103
Floor	20	261	171	294	0.656
Ceiling	70	35	29	39	0.813
Walls (4)	50	108	24	598	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 2DN11K77VL336C Lunis 2® mini (1.000)	1630	1630	20.8
Total:			1630	Total: 1630	20.8

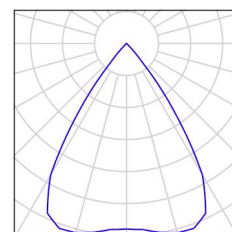
Specific connected load: $9.34 \text{ W/m}^2 = 2.15 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.23 m^2)

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Room 102B / Luminaire parts list

1 Pieces SITECO 2DN11K77VL336C Lunis 2® mini
Article No.: 2DN11K77VL336C
Luminous flux (Luminaire): 1630 lm
Luminous flux (Lamps): 1630 lm
Luminaire Wattage: 20.8 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 102B / Photometric Results

Total Luminous Flux: 1630 lm
 Total Load: 20.8 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	378	56	434	/	/
Floor	199	62	261	20	17
Ceiling	0.00	35	35	70	7.85
Wall 1	55	51	106	50	17
Wall 2	19	50	70	50	11
Wall 3	55	51	106	50	17
Wall 4	101	50	151	50	24

Uniformity on the working plane

u₀: 0.103 (1:10)

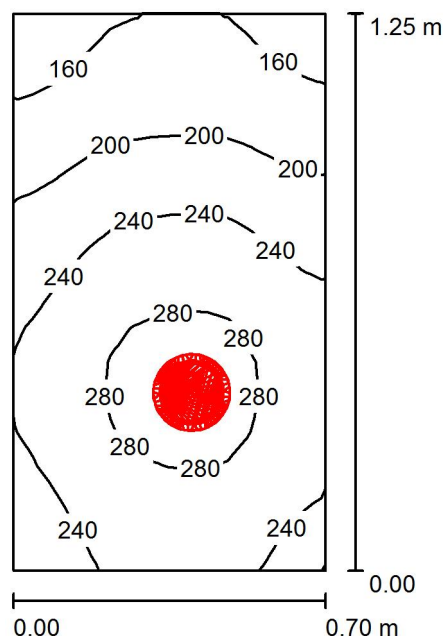
E_{min} / E_{max}: 0.069 (1:14)

Specific connected load: 9.34 W/m² = 2.15 W/m²/100 lx (Ground area: 2.23 m²)

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Room 103 / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:17

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	232	143	295	0.614
Floor	20	111	91	123	0.821
Ceiling	70	55	41	67	0.750
Walls (4)	50	124	35	838	/

Workplane:

Height: 0.850 m
 Grid: 16 x 16 Points
 Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			880	880	16.0

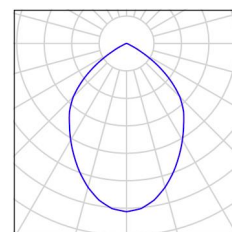
Specific connected load: $18.29 \text{ W/m}^2 = 7.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 0.87 m^2)

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Room 103 / Luminaire parts list

1 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 103 / Photometric Results

Total Luminous Flux: 880 lm
 Total Load: 16.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	163	69	232	/	/
Floor	74	37	111	20	7.04
Ceiling	0.00	55	55	70	12
Wall 1	85	62	147	50	23
Wall 2	73	59	131	50	21
Wall 3	38	53	92	50	15
Wall 4	63	60	123	50	20

Uniformity on the working plane

u₀: 0.614 (1:2)

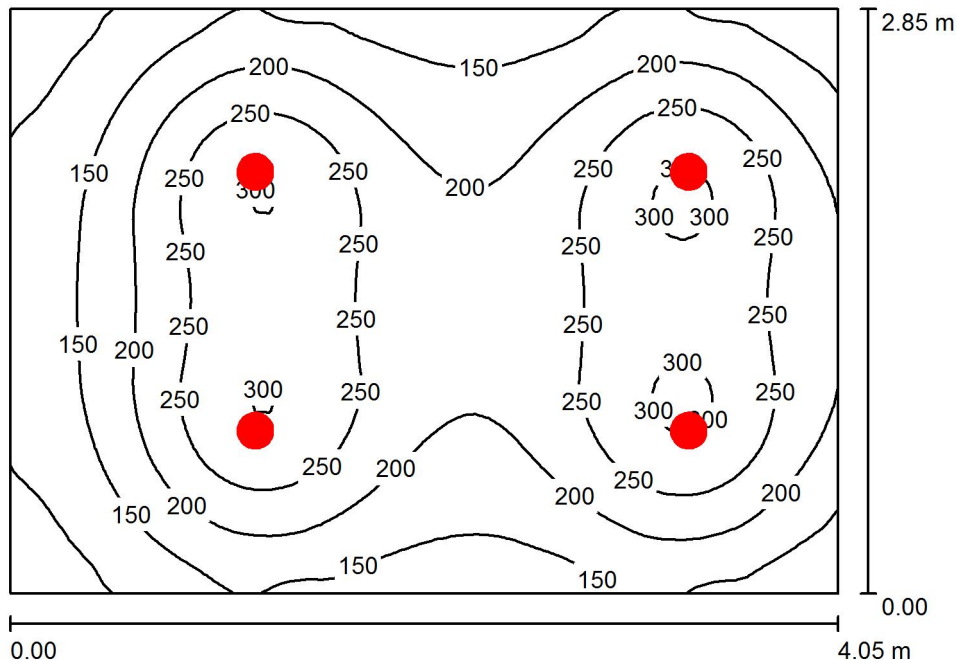
E_{min} / E_{max}: 0.483 (1:2)

Specific connected load: $18.29 \text{ W/m}^2 = 7.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 0.87 m^2)

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Room 104 / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:37

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	206	74	309	0.358
Floor	20	159	86	199	0.542
Ceiling	70	31	20	37	0.650
Walls (4)	50	71	22	164	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

UGR

Lengthways-
Left Wall 21
Lower Wall 21
(CIE, SHR = 0.25.)

Across

21
21

to luminaire axis

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			3520	3520	64.0

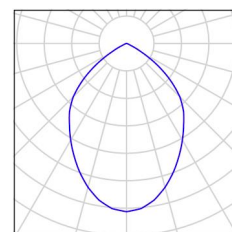
Specific connected load: $5.54 \text{ W/m}^2 = 2.70 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 11.54 m^2)

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Room 104 / Luminaire parts list

4 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 104 / Photometric Results

Total Luminous Flux: 3520 lm
 Total Load: 64.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	176	30	206	/	/
Floor	125	34	159	20	10
Ceiling	0.00	31	31	70	6.85
Wall 1	40	31	71	50	11
Wall 2	50	32	82	50	13
Wall 3	40	31	71	50	11
Wall 4	29	30	59	50	9.41

Uniformity on the working plane

u0: 0.358 (1:3)

E_{min} / E_{max}: 0.238 (1:4)

UGR

Left Wall

Lower Wall

(CIE, SHR = 0.25.)

Lengthways-

21

21

Across

21

21

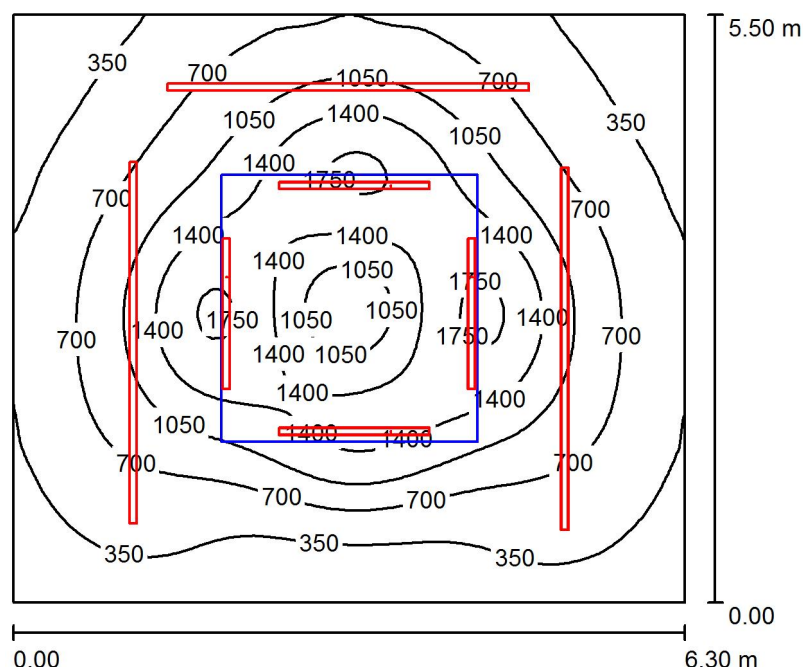
to luminaire axis

Specific connected load: 5.54 W/m² = 2.70 W/m²/100 lx (Ground area: 11.54 m²)

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Room 105A / Summary



Height of Room: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:71

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	831	129	1819	0.156
Floor	20	751	229	1315	0.304
Ceiling	70	89	2.85	125	0.032
Walls (4)	50	216	90	468	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	Glamox C80S05100MP C80-SR3384 LED 6200 840 MP ME (1.000)	6208	6236	58.0
2	4	Glamox C80S56100MP C80-SR1410 LED 4600 840 MP HI (1.000)	4633	4636	44.0
Total:			37157	37252	350.0

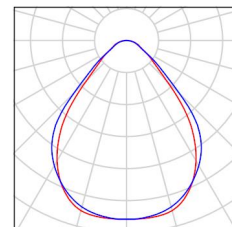
Specific connected load: $10.10 \text{ W/m}^2 = 1.22 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 34.65 m^2)

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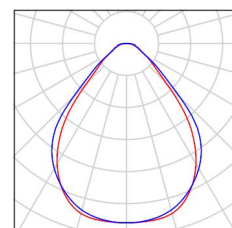
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Room 105A / Luminaire parts list

3 Pieces Glamox C80S05100MP C80-SR3384 LED 6200
840 MP ME
Article No.: C80S05100MP
Luminous flux (Luminaire): 6208 lm
Luminous flux (Lamps): 6236 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 92 98 100 100
Fitting: 1 x LED C80 6200 (Correction Factor
1.000).



4 Pieces Glamox C80S56100MP C80-SR1410 LED 4600
840 MP HI
Article No.: C80S56100MP
Luminous flux (Luminaire): 4633 lm
Luminous flux (Lamps): 4636 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 91 98 100 100
Fitting: 1 x LED C80 4600 (Correction Factor
1.000).



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Room 105A / Photometric Results

Total Luminous Flux: 37157 lm
 Total Load: 350.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	752	79	831	/	/
Floor	659	92	751	20	48
Ceiling	0.00	89	89	70	20
Wall 1	88	102	190	50	30
Wall 2	107	102	209	50	33
Wall 3	154	102	256	50	41
Wall 4	106	100	207	50	33

Uniformity on the working plane

u0: 0.156 (1:6)

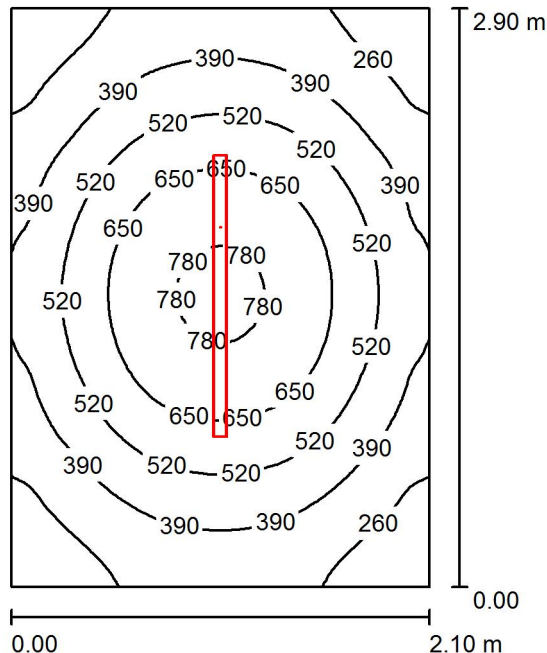
E_{min} / E_{max}: 0.071 (1:14)

Specific connected load: $10.10 \text{ W/m}^2 = 1.22 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 34.65 m²)

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Room 105B / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:38

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	470	160	807	0.342
Floor	20	327	216	414	0.660
Ceiling	70	63	47	73	0.747
Walls (4)	50	156	50	283	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

UGR

Left Wall 19
Lower Wall 19
(CIE, SHR = 0.25.)

Lengthways-

19
19

Across

19
19

to luminaire axis

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Glamox C80S56100MP C80-SR1410 LED 4600 840 MP HI (1.000)	4633	4636	44.0
Total:			4633	Total: 4636	44.0

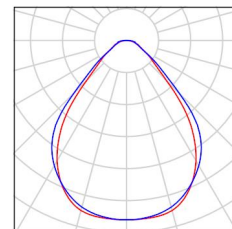
Specific connected load: $7.22 \text{ W/m}^2 = 1.54 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 6.09 m^2)

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Room 105B / Luminaire parts list

1 Pieces Glamox C80S56100MP C80-SR1410 LED 4600
840 MP HI
Article No.: C80S56100MP
Luminous flux (Luminaire): 4633 lm
Luminous flux (Lamps): 4636 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 91 98 100 100
Fitting: 1 x LED C80 4600 (Correction Factor
1.000).



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Room 105B / Photometric Results

Total Luminous Flux: 4633 lm
 Total Load: 44.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	401	68	470	/	/
Floor	248	79	327	20	21
Ceiling	0.00	63	63	70	14
Wall 1	83	68	150	50	24
Wall 2	91	69	159	50	25
Wall 3	86	68	154	50	24
Wall 4	90	69	159	50	25

Uniformity on the working plane
 u_0 : 0.342 (1:3)
 $E_{\min} / E_{\max}$: 0.199 (1:5)

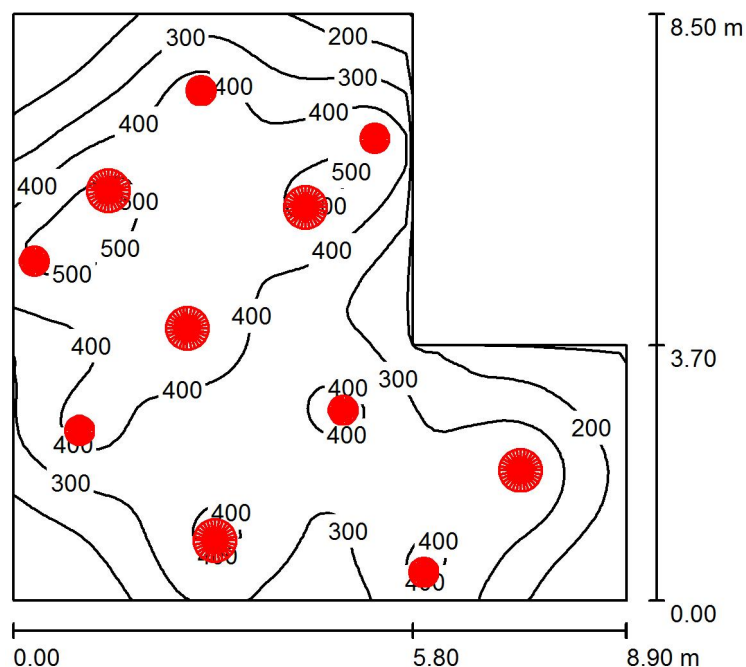
UGR Lengthways- Across to luminaire axis
 Left Wall 19 19
 Lower Wall 19 19
 (CIE, SHR = 0.25.)

Specific connected load: $7.22 \text{ W/m}^2 = 1.54 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 6.09 m^2)

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Room 106 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:110

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	340	97	547	0.285
Floor	20	293	129	404	0.441
Ceiling	70	102	46	645	0.450
Walls (6)	50	181	72	2061	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	6	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
2	5	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			31213	31117	387.0

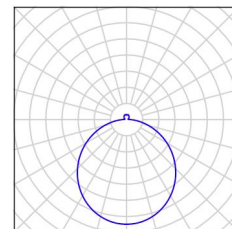
Specific connected load: $6.37 \text{ W/m}^2 = 1.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 60.77 m^2)

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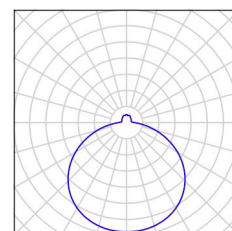
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Room 106 / Luminaire parts list

6 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



5 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction Factor 1.000).



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Room 106 / Photometric Results

Total Luminous Flux: 31213 lm
 Total Load: 387.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	267	73	340	/	/
Floor	217	76	293	20	19
Ceiling	30	72	102	70	23
Wall 1	121	63	184	50	29
Wall 2	74	60	134	50	21
Wall 3	67	61	128	50	20
Wall 4	139	73	212	50	34
Wall 5	100	71	172	50	27
Wall 6	137	70	207	50	33

Uniformity on the working plane

u_0 : 0.285 (1:4)

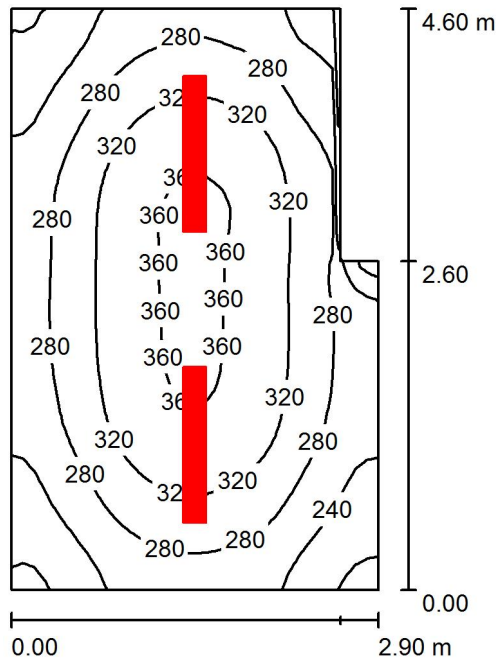
$E_{\min} / E_{\max}$: 0.177 (1:6)

Specific connected load: $6.37 \text{ W/m}^2 = 1.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 60.77 m^2)

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Room 107 / Summary



Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:60

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	294	179	369	0.608
Floor	20	221	160	264	0.726
Ceiling	70	104	69	288	0.664
Walls (6)	50	191	92	416	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox I20083545 i20-1200 LED 4600 840 OP (1.000)	4617	4618	44.0
Total:			9234	9236	88.0

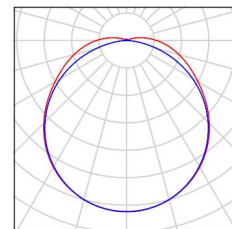
Specific connected load: $6.91 \text{ W/m}^2 = 2.35 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 12.74 m^2)

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Room 107 / Luminaire parts list

2 Pieces Glamox I20083545 i20-1200 LED 4600 840 OP
Article No.: I20083545
Luminous flux (Luminaire): 4617 lm
Luminous flux (Lamps): 4618 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 96
CIE flux code: 44 74 91 96 100
Fitting: 1 x LED i20 4600 (Correction Factor 1.000).



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Room 107 / Photometric Results

Total Luminous Flux: 9234 lm
 Total Load: 88.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	202	92	294	/	/
Floor	139	82	221	20	14
Ceiling	18	86	104	70	23
Wall 1	111	77	188	50	30
Wall 2	106	76	182	50	29
Wall 3	48	76	124	50	20
Wall 4	130	81	211	50	34
Wall 5	116	81	197	50	31
Wall 6	110	79	190	50	30

Uniformity on the working plane

u_0 : 0.608 (1:2)

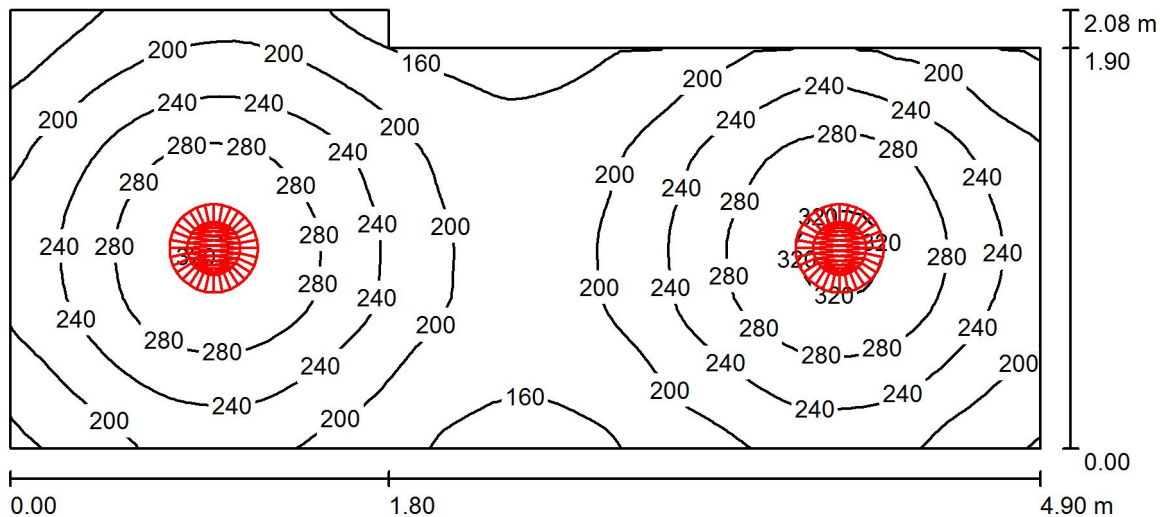
$E_{\min} / E_{\max}$: 0.485 (1:2)

Specific connected load: $6.91 \text{ W/m}^2 = 2.35 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 12.74 m^2)

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Room 108 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:36

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	228	136	329	0.596
Floor	20	159	117	182	0.731
Ceiling	70	77	42	515	0.552
Walls (6)	50	131	56	267	/

Workplane:

Height: 0.850 m
Grid: 64 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
Total:			4767	4734	64.0

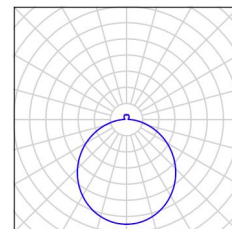
Specific connected load: $6.64 \text{ W/m}^2 = 2.91 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.63 m^2)

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Room 108 / Luminaire parts list

2 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



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Room 108 / Photometric Results

Total Luminous Flux: 4767 lm
 Total Load: 64.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	164	64	228	/	/
Floor	102	58	159	20	10
Ceiling	21	56	77	70	17
Wall 1	75	55	130	50	21
Wall 2	86	57	143	50	23
Wall 3	70	57	127	50	20
Wall 4	41	54	95	50	15
Wall 5	70	54	124	50	20
Wall 6	81	54	135	50	21

Uniformity on the working plane

u_0 : 0.596 (1:2)

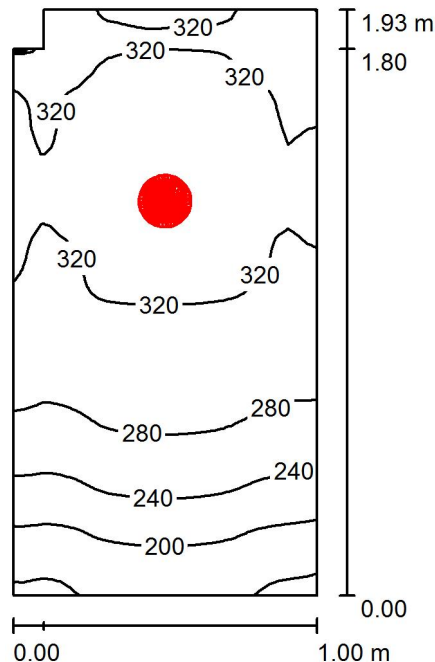
$E_{\min} / E_{\max}$: 0.414 (1:2)

Specific connected load: $6.64 \text{ W/m}^2 = 2.91 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.63 m^2)

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Room 109 / Summary



Height of Room: 3.200 m, Mounting Height: 2.960 m, Light loss factor: 0.80

Values in Lux, Scale 1:25

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	288	149	334	0.519
Floor	20	171	147	184	0.860
Ceiling	70	35	26	41	0.751
Walls (6)	50	108	23	523	/

Workplane:

Height: 0.850 m
Grid: 32 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 2DN11K77VL336C Lunis 2® mini (1.000)	1630	1630	20.8
Total:			1630	1630	20.8

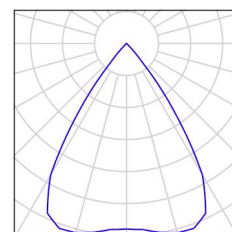
Specific connected load: $10.85 \text{ W/m}^2 = 3.77 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.92 m^2)

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Room 109 / Luminaire parts list

1 Pieces SITECO 2DN11K77VL336C Lunis 2® mini
Article No.: 2DN11K77VL336C
Luminous flux (Luminaire): 1630 lm
Luminous flux (Lamps): 1630 lm
Luminaire Wattage: 20.8 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 109 / Photometric Results

Total Luminous Flux: 1630 lm
 Total Load: 20.8 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	223	65	288	/	/
Floor	123	48	171	20	11
Ceiling	0.00	35	35	70	7.80
Wall 1	24	45	69	50	11
Wall 2	61	52	113	50	18
Wall 3	77	54	131	50	21
Wall 4	46	60	107	50	17
Wall 5	62	53	114	50	18
Wall 6	62	51	113	50	18

Uniformity on the working plane

u_0 : 0.519 (1:2)

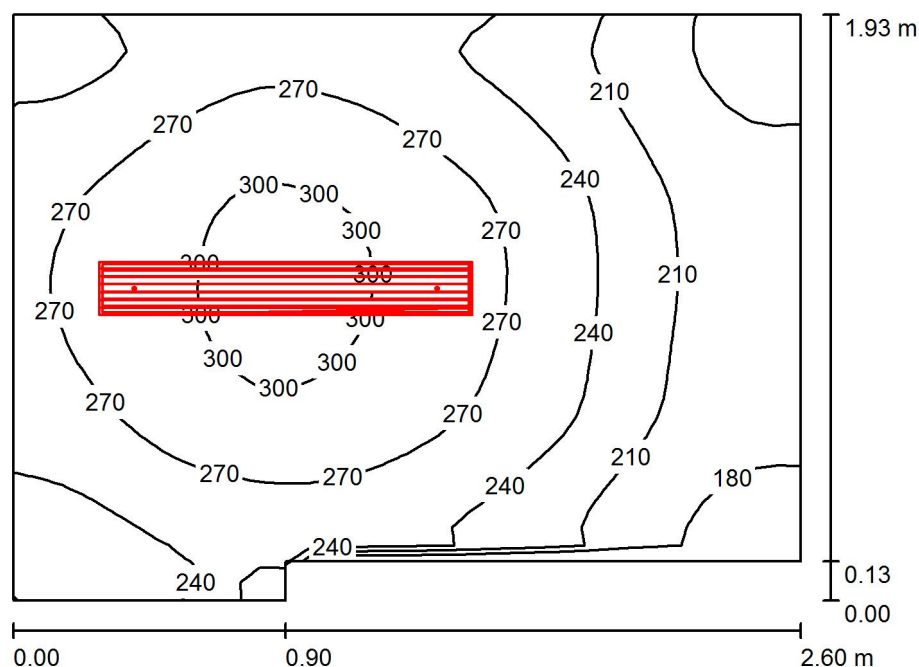
$E_{\min} / E_{\max}$: 0.448 (1:2)

Specific connected load: $10.85 \text{ W/m}^2 = 3.77 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.92 m^2)

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Room 110 / Summary



Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:25

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	248	165	311	0.667
Floor	20	165	124	189	0.753
Ceiling	70	127	62	566	0.490
Walls (6)	50	192	51	747	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Glamox I20083545 i20-1200 LED 4600 840 OP (1.000)	4617	4618	44.0
Total:			4617	4618	44.0

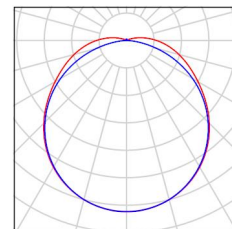
Specific connected load: $9.17 \text{ W/m}^2 = 3.70 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 4.80 m^2)

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Room 110 / Luminaire parts list

1 Pieces Glamox I20083545 i20-1200 LED 4600 840 OP
Article No.: I20083545
Luminous flux (Luminaire): 4617 lm
Luminous flux (Lamps): 4618 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 96
CIE flux code: 44 74 91 96 100
Fitting: 1 x LED i20 4600 (Correction Factor 1.000).



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Room 110 / Photometric Results

Total Luminous Flux: 4617 lm
 Total Load: 44.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	153	94	248	/	/
Floor	94	71	165	20	10
Ceiling	24	103	127	70	28
Wall 1	123	88	211	50	34
Wall 2	23	99	122	50	19
Wall 3	102	81	183	50	29
Wall 4	71	80	150	50	24
Wall 5	115	84	199	50	32
Wall 6	138	86	223	50	36

Uniformity on the working plane

u_0 : 0.667 (1:2)

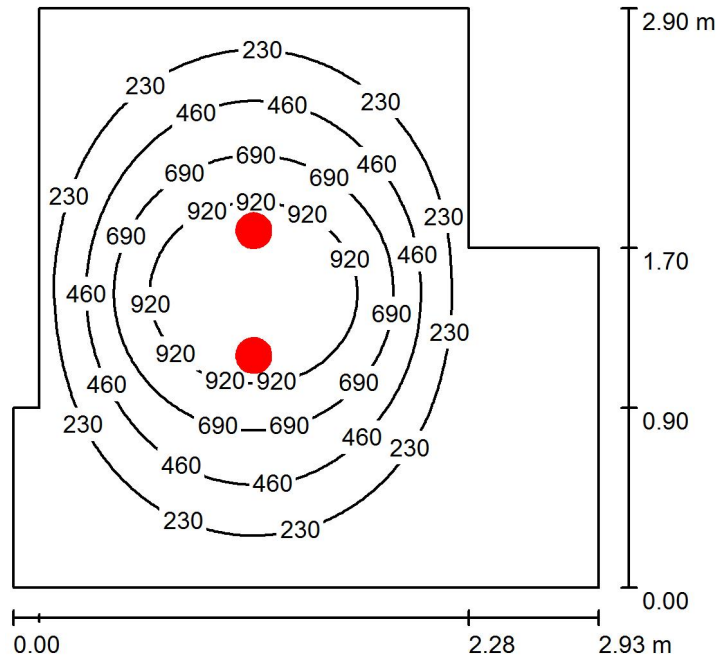
$E_{\min} / E_{\max}$: 0.531 (1:2)

Specific connected load: $9.17 \text{ W/m}^2 = 3.70 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 4.80 m^2)

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Room 111A / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:38

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	361	13	1126	0.036
Floor	20	309	27	471	0.087
Ceiling	70	28	21	32	0.745
Walls (8)	50	48	13	248	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	SITECO 2DN11K77VL336C Lunis 2® mini (1.000)	1630	1630	20.8
Total:			3260	3260	41.6

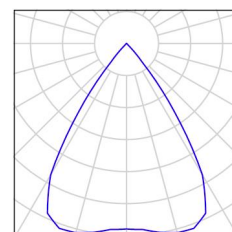
Specific connected load: $5.58 \text{ W/m}^2 = 1.55 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 7.46 m^2)

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Room 111A / Luminaire parts list

2 Pieces SITECO 2DN11K77VL336C Lunis 2® mini
Article No.: 2DN11K77VL336C
Luminous flux (Luminaire): 1630 lm
Luminous flux (Lamps): 1630 lm
Luminaire Wattage: 20.8 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 111A / Photometric Results

Total Luminous Flux: 3260 lm
 Total Load: 41.6 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	345	16	361	/	/
Floor	279	30	309	20	20
Ceiling	0.00	28	28	70	6.15
Wall 1	14	28	42	50	6.63
Wall 2	2.71	26	29	50	4.54
Wall 3	3.78	22	25	50	4.03
Wall 4	28	34	62	50	9.92
Wall 5	21	32	53	50	8.40
Wall 6	39	33	72	50	11
Wall 7	0.00	21	21	50	3.40
Wall 8	12	26	37	50	5.92

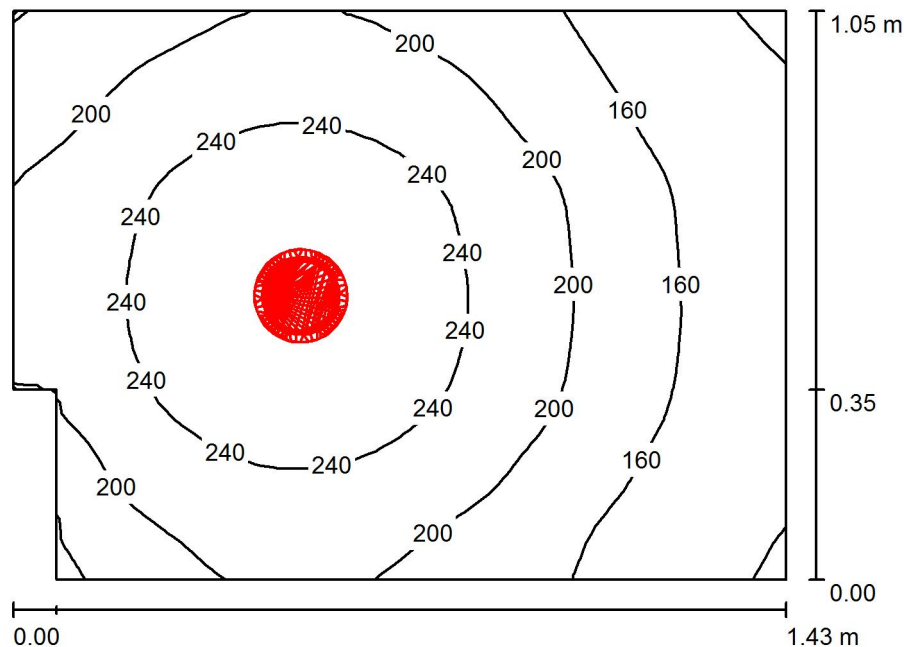
Uniformity on the working plane
 u_0 : 0.036 (1:28)
 $E_{\min} / E_{\max}$: 0.012 (1:87)

Specific connected load: $5.58 \text{ W/m}^2 = 1.55 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 7.46 m^2)

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Room 111B / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:14

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	203	116	275	0.570
Floor	20	107	82	123	0.762
Ceiling	70	36	27	43	0.751
Walls (6)	50	90	26	306	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			880	880	16.0

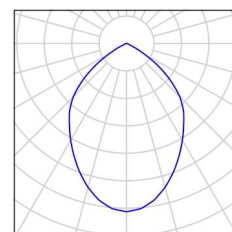
Specific connected load: $10.86 \text{ W/m}^2 = 5.34 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.47 m^2)

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Room 111B / Luminaire parts list

1 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 111B / Photometric Results

Total Luminous Flux: 880 lm
Total Load: 16.0 W
Light loss factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	150	53	203	/	/
Floor	71	36	107	20	6.81
Ceiling	0.00	36	36	70	7.95
Wall 1	51	41	92	50	15
Wall 2	33	40	74	50	12
Wall 3	50	42	91	50	15
Wall 4	62	41	103	50	16
Wall 5	26	49	75	50	12
Wall 6	56	42	99	50	16

Uniformity on the working plane

u₀: 0.570 (1:2)

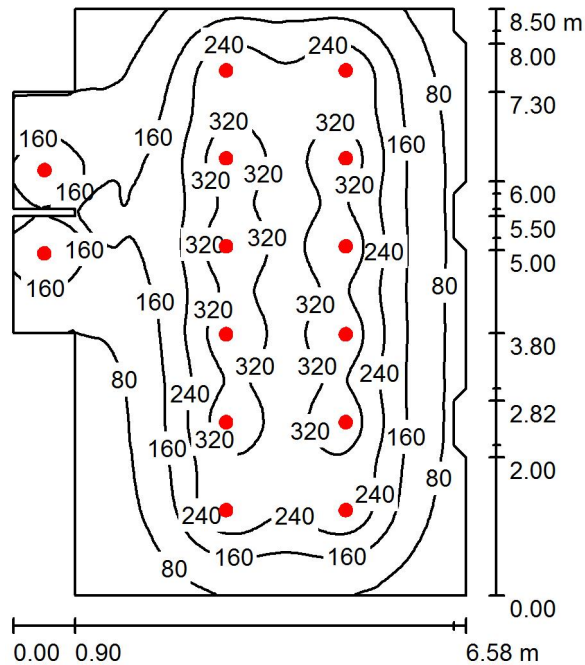
E_{min} / E_{max}: 0.421 (1:2)

Specific connected load: 10.86 W/m² = 5.34 W/m²/100 lx (Ground area: 1.47 m²)

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Room 113 / Summary



Height of Room: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:110

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	193	17	370	0.090
Floor	20	176	39	290	0.219
Ceiling	70	31	17	56	0.558
Walls (22)	50	53	17	361	/

Workplane:

Height: 0.850 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	14	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			12320	12320	224.0

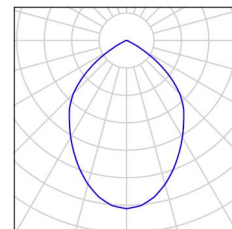
Specific connected load: $4.39 \text{ W/m}^2 = 2.27 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 50.97 m^2)

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Room 113 / Luminaire parts list

14 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 113 / Photometric Results

Total Luminous Flux: 12320 lm
Total Load: 224.0 W
Light loss factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	171	22	193	/	/
Floor	152	24	176	20	11
Ceiling	0.00	31	31	70	6.85
Wall 1	20	23	44	50	6.96
Wall 2	15	22	37	50	5.82
Wall 3	15	21	36	50	5.80
Wall 4	27	27	55	50	8.72
Wall 5	18	27	45	50	7.22
Wall 6	23	28	51	50	8.10
Wall 7	19	26	44	50	7.05
Wall 8	28	30	58	50	9.20
Wall 9	18	26	44	50	6.94
Wall 10	20	27	46	50	7.38
Wall 11	15	24	40	50	6.29
Wall 12	13	22	36	50	5.67
Wall 13	31	26	57	50	9.10
Wall 14	8.14	23	31	50	4.89
Wall 15	27	31	58	50	9.30
Wall 16	52	29	81	50	13
Wall 17	61	32	93	50	15
Wall 18	13	27	40	50	6.36
Wall 19	64	33	97	50	15
Wall 20	52	32	84	50	13
Wall 21	26	33	59	50	9.45
Wall 22	10	23	33	50	5.26

Uniformity on the working plane

u₀: 0.090 (1:11)

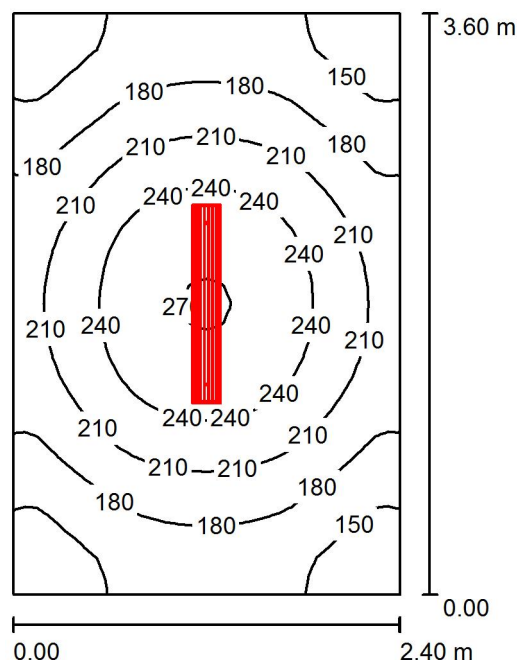
E_{min} / E_{max}: 0.047 (1:21)

Specific connected load: 4.39 W/m² = 2.27 W/m²/100 lx (Ground area: 50.97 m²)

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Room 114 / Summary



Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:47

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	198	127	272	0.639
Floor	20	141	103	171	0.733
Ceiling	70	74	45	289	0.610
Walls (4)	50	128	62	283	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Glamox I20083545 i20-1200 LED 4600 840 OP (1.000)	4617	4618	44.0
Total:			4617	4618	44.0

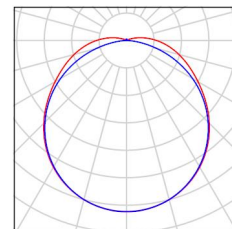
Specific connected load: $5.09 \text{ W/m}^2 = 2.57 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.64 m^2)

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Room 114 / Luminaire parts list

1 Pieces Glamox I20083545 i20-1200 LED 4600 840 OP
Article No.: I20083545
Luminous flux (Luminaire): 4617 lm
Luminous flux (Lamps): 4618 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 96
CIE flux code: 44 74 91 96 100
Fitting: 1 x LED i20 4600 (Correction Factor 1.000).



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Room 114 / Photometric Results

Total Luminous Flux: 4617 lm
 Total Load: 44.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	133	65	198	/	/
Floor	86	55	141	20	8.99
Ceiling	13	60	74	70	16
Wall 1	61	54	115	50	18
Wall 2	82	54	136	50	22
Wall 3	61	54	115	50	18
Wall 4	82	54	137	50	22

Uniformity on the working plane

u0: 0.639 (1:2)

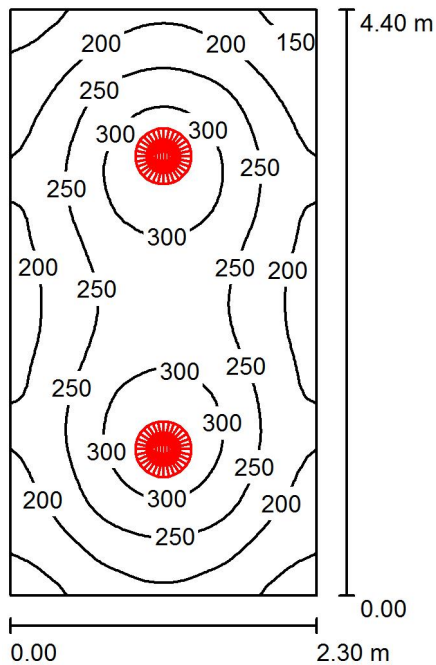
E_{min} / E_{max}: 0.465 (1:2)

Specific connected load: 5.09 W/m² = 2.57 W/m²/100 lx (Ground area: 8.64 m²)

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Room 115 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:57

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	239	133	336	0.558
Floor	20	170	116	202	0.684
Ceiling	70	73	40	520	0.552
Walls (4)	50	127	55	213	/

Workplane:

Height: 0.850 m
Grid: 64 x 32 Points
Boundary Zone: 0.000 m

UGR

Lengthways-
Left Wall 18
Lower Wall 20
(CIE, SHR = 0.25.)

Lengthways-

Across

to luminaire axis

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
Total:			4767	4734	64.0

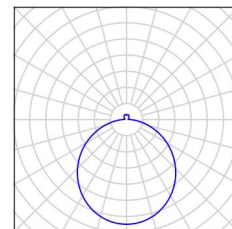
Specific connected load: $6.32 \text{ W/m}^2 = 2.65 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 10.12 m^2)

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Room 115 / Luminaire parts list

2 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



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Room 115 / Photometric Results

Total Luminous Flux: 4767 lm
 Total Load: 64.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	177	61	239	/	/
Floor	112	58	170	20	11
Ceiling	20	53	73	70	16
Wall 1	74	53	127	50	20
Wall 2	74	53	127	50	20
Wall 3	73	52	126	50	20
Wall 4	74	53	127	50	20

Uniformity on the working plane
 u_0 : 0.558 (1:2)
 $E_{\min} / E_{\max}$: 0.396 (1:3)

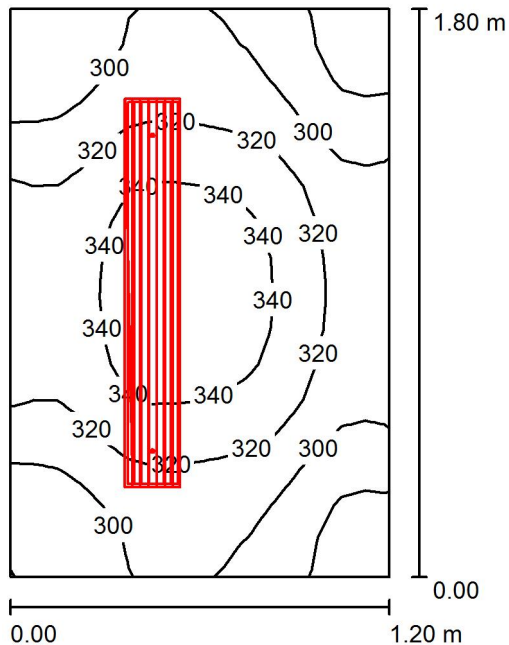
UGR Lengthways- Across to luminaire axis
 Left Wall 18 18
 Lower Wall 20 20
 (CIE, SHR = 0.25.)

Specific connected load: $6.32 \text{ W/m}^2 = 2.65 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 10.12 m^2)

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Room 116 / Summary



Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:24

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	314	264	352	0.841
Floor	20	188	169	202	0.902
Ceiling	70	262	145	413	0.554
Walls (4)	50	321	71	1218	/

Workplane:

Height: 0.850 m
Grid: 16 x 16 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	Glamox I20083545 i20-1200 LED 4600 840 OP (1.000)	4617	4618	44.0
Total:			4617	4618	44.0

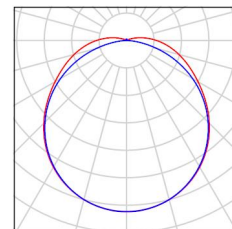
Specific connected load: $20.37 \text{ W/m}^2 = 6.48 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.16 m^2)

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Room 116 / Luminaire parts list

1 Pieces Glamox I20083545 i20-1200 LED 4600 840 OP
Article No.: I20083545
Luminous flux (Luminaire): 4617 lm
Luminous flux (Lamps): 4618 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 96
CIE flux code: 44 74 91 96 100
Fitting: 1 x LED i20 4600 (Correction Factor 1.000).



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Room 116 / Photometric Results

Total Luminous Flux: 4617 lm
 Total Load: 44.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	179	135	314	/	/
Floor	103	84	188	20	12
Ceiling	48	215	262	70	58
Wall 1	163	144	308	50	49
Wall 2	159	148	307	50	49
Wall 3	163	144	307	50	49
Wall 4	208	144	352	50	56

Uniformity on the working plane

u0: 0.841 (1:1)

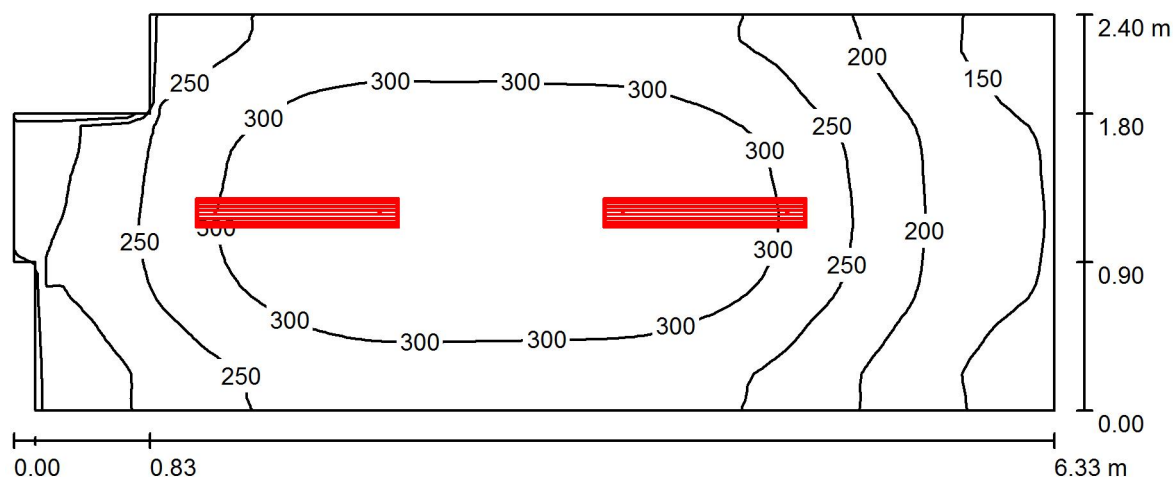
E_{min} / E_{max}: 0.752 (1:1)

Specific connected load: 20.37 W/m² = 6.48 W/m²/100 lx (Ground area: 2.16 m²)

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Room 117 / Summary



Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:46

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	262	125	348	0.476
Floor	20	197	116	248	0.587
Ceiling	70	90	45	337	0.506
Walls (8)	50	162	55	321	/

Workplane:

Height: 0.850 m
Grid: 64 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox I20083545 i20-1200 LED 4600 840 OP (1.000)	4617	4618	44.0
Total:			9234	9236	88.0

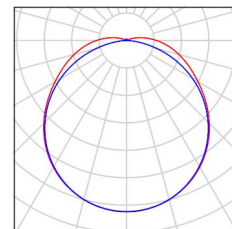
Specific connected load: $6.04 \text{ W/m}^2 = 2.30 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 14.58 m^2)

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Room 117 / Luminaire parts list

2 Pieces Glamox I20083545 i20-1200 LED 4600 840 OP
Article No.: I20083545
Luminous flux (Luminaire): 4617 lm
Luminous flux (Lamps): 4618 lm
Luminaire Wattage: 44.0 W
Luminaire classification according to CIE: 96
CIE flux code: 44 74 91 96 100
Fitting: 1 x LED i20 4600 (Correction Factor 1.000).



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Room 117 / Photometric Results

Total Luminous Flux: 9234 lm
 Total Load: 88.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	182	80	262	/	/
Floor	127	71	197	20	13
Ceiling	16	74	90	70	20
Wall 1	105	68	173	50	28
Wall 2	58	60	118	50	19
Wall 3	110	69	179	50	28
Wall 4	100	78	178	50	28
Wall 5	55	68	124	50	20
Wall 6	86	62	148	50	24
Wall 7	17	67	84	50	13
Wall 8	80	67	147	50	23

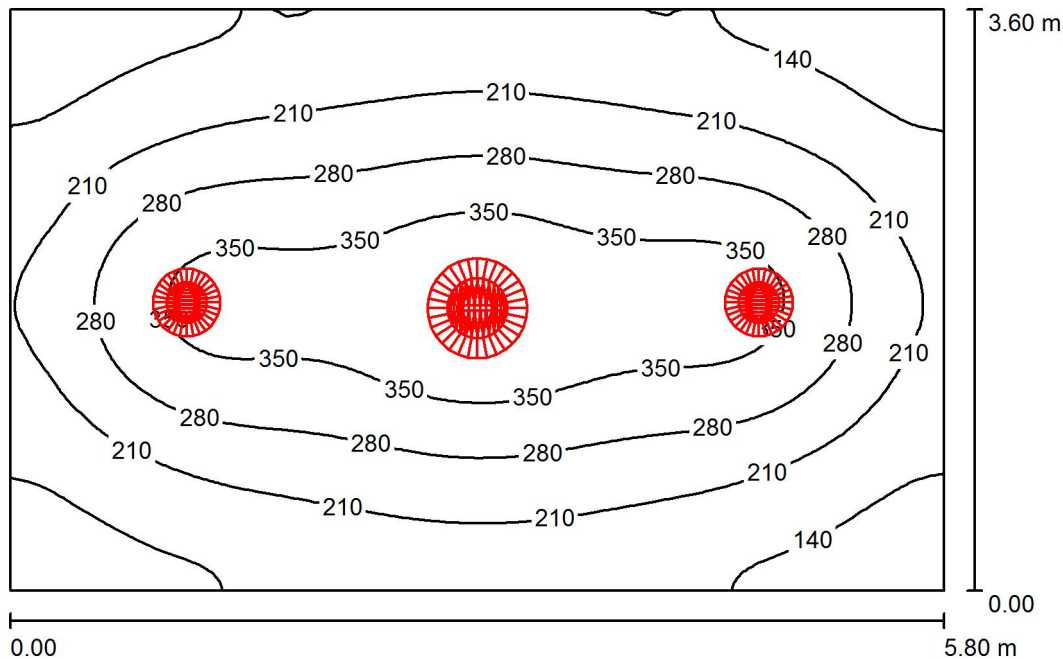
Uniformity on the working plane
 u_0 : 0.476 (1:2)
 $E_{\min} / E_{\max}$: 0.358 (1:3)

Specific connected load: $6.04 \text{ W/m}^2 = 2.30 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 14.58 m^2)

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Room 118 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:47

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	240	92	415	0.384
Floor	20	188	108	258	0.575
Ceiling	70	69	35	619	0.499
Walls (4)	50	116	50	221	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
2	1	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			8150	8117	103.0

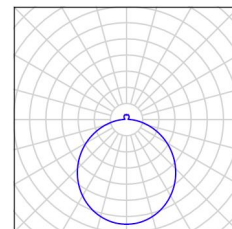
Specific connected load: $4.93 \text{ W/m}^2 = 2.05 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 20.88 m^2)

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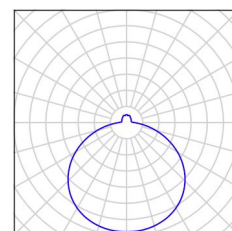
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Room 118 / Luminaire parts list

2 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



1 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction Factor 1.000).



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Room 118 / Photometric Results

Total Luminous Flux: 8150 lm
 Total Load: 103.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	189	51	240	/	/
Floor	135	54	188	20	12
Ceiling	21	48	69	70	15
Wall 1	69	47	116	50	19
Wall 2	71	46	117	50	19
Wall 3	66	47	114	50	18
Wall 4	73	46	119	50	19

Uniformity on the working plane

u0: 0.384 (1:3)

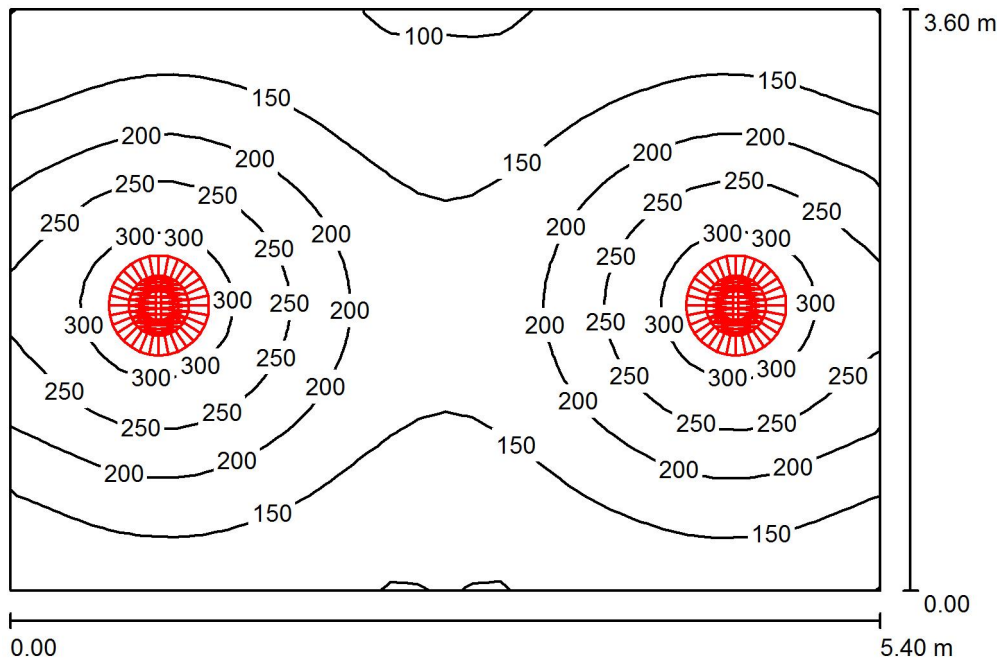
E_{min} / E_{max}: 0.222 (1:4)

Specific connected load: $4.93 \text{ W/m}^2 = 2.05 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 20.88 m²)

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Room 119 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:47

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	190	93	341	0.490
Floor	20	147	105	184	0.714
Ceiling	70	69	36	618	0.525
Walls (4)	50	111	47	376	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

UGR

Left Wall 18
Lower Wall 18
(CIE, SHR = 0.25.)

Lengthways-

18
18

Across

18
18

to luminaire axis

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			6765	6766	78.0

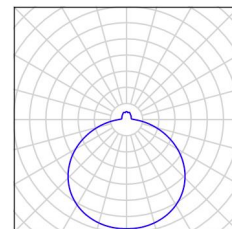
Specific connected load: $4.01 \text{ W/m}^2 = 2.11 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 19.44 m^2)

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Room 119 / Luminaire parts list

2 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction
Factor 1.000).



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Room 119 / Photometric Results

Total Luminous Flux: 6765 lm
 Total Load: 78.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	141	48	190	/	/
Floor	98	48	147	20	9.33
Ceiling	24	45	69	70	15
Wall 1	55	43	99	50	16
Wall 2	88	44	132	50	21
Wall 3	53	43	96	50	15
Wall 4	86	43	129	50	21

Uniformity on the working plane
 u_0 : 0.490 (1:2)
 $E_{\min} / E_{\max}$: 0.273 (1:4)

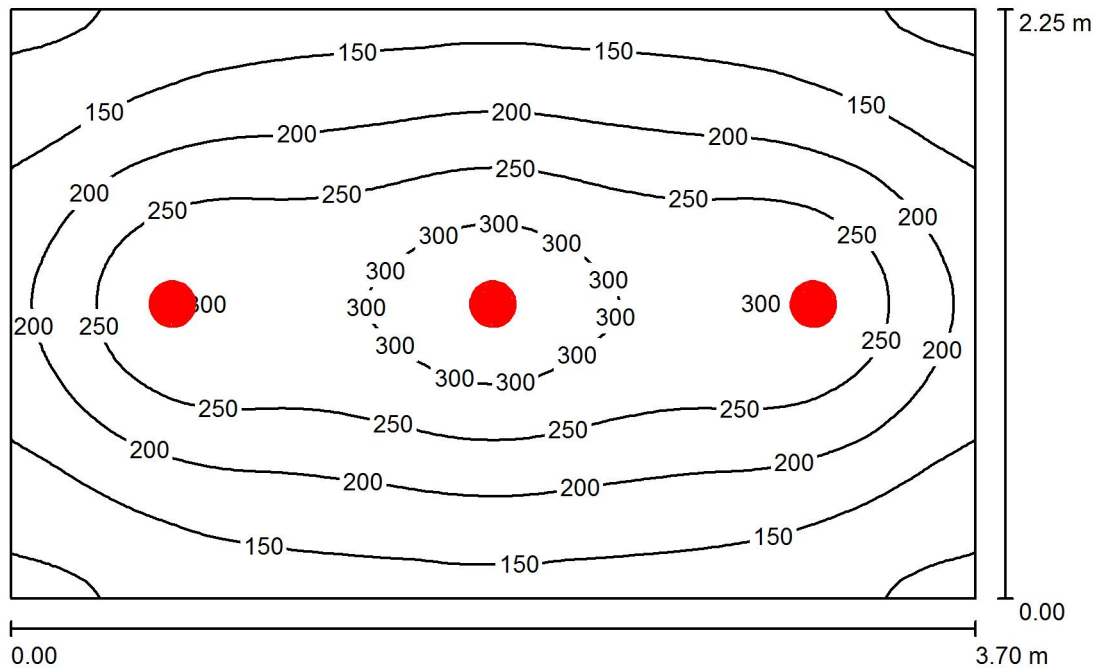
UGR Lengthways- Across to luminaire axis
 Left Wall 18 18
 Lower Wall 18 18
 (CIE, SHR = 0.25.)

Specific connected load: $4.01 \text{ W/m}^2 = 2.11 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 19.44 m^2)

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Room 120A / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:29

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	206	91	335	0.443
Floor	20	151	95	196	0.629
Ceiling	70	29	21	33	0.737
Walls (4)	50	69	20	207	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

UGR

Lengthways-
Left Wall 21
Lower Wall 21
(CIE, SHR = 0.25.)

Across to luminaire axis
21
21

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			2640	2640	48.0

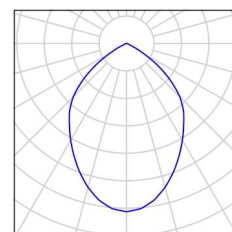
Specific connected load: $5.77 \text{ W/m}^2 = 2.80 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.32 m^2)

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Room 120A / Luminaire parts list

3 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 120A / Photometric Results

Total Luminous Flux: 2640 lm
Total Load: 48.0 W
Light loss factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	177	30	206	/	/
Floor	116	34	151	20	9.61
Ceiling	0.00	29	29	70	6.41
Wall 1	36	31	67	50	11
Wall 2	43	30	72	50	12
Wall 3	36	31	67	50	11
Wall 4	43	30	73	50	12

Uniformity on the working plane
u0: 0.443 (1:2)
E_{min} / E_{max}: 0.272 (1:4)

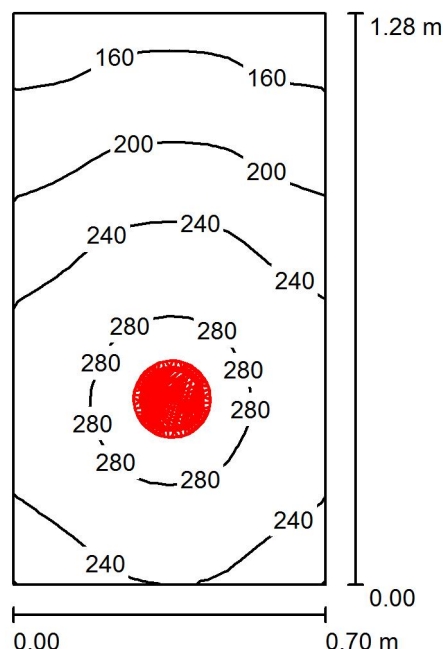
UGR Lengthways- Across to luminaire axis
Left Wall 21 21
Lower Wall 21 21
(CIE, SHR = 0.25.)

Specific connected load: 5.77 W/m² = 2.80 W/m²/100 lx (Ground area: 8.32 m²)

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Room 120A - BOX / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:17

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	231	137	297	0.594
Floor	20	110	89	123	0.803
Ceiling	70	54	37	66	0.696
Walls (4)	50	123	34	663	/

Workplane:

Height: 0.850 m
Grid: 16 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			880	880	16.0

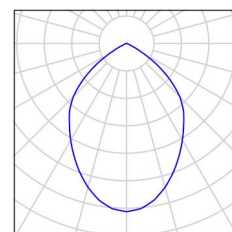
Specific connected load: $17.86 \text{ W/m}^2 = 7.72 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 0.90 m^2)

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Room 120A - BOX / Luminaire parts list

1 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 120A - BOX / Photometric Results

Total Luminous Flux: 880 lm
 Total Load: 16.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	162	69	231	/	/
Floor	74	36	110	20	7.02
Ceiling	0.00	54	54	70	12
Wall 1	83	61	144	50	23
Wall 2	67	59	126	50	20
Wall 3	38	52	90	50	14
Wall 4	66	59	125	50	20

Uniformity on the working plane

u₀: 0.594 (1:2)

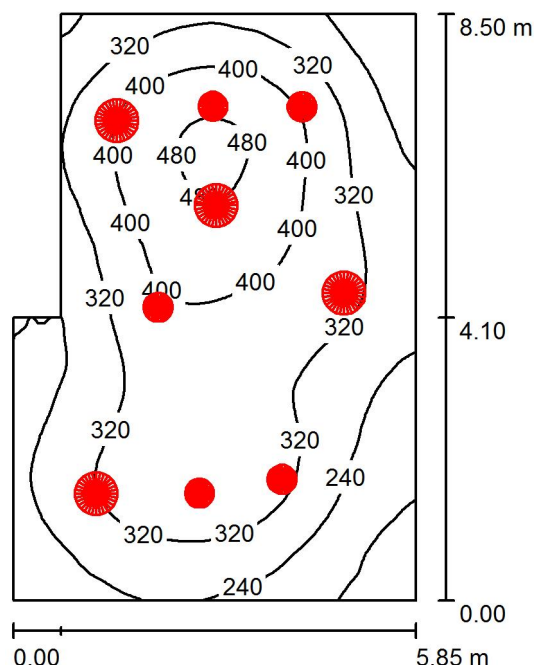
E_{min} / E_{max}: 0.463 (1:2)

Specific connected load: 17.86 W/m² = 7.72 W/m²/100 lx (Ground area: 0.90 m²)

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Room 121A / Summary



Height of Room: 3.160 m, Mounting Height: 3.160 m, Light loss factor: 0.80

Values in Lux, Scale 1:110

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	320	121	505	0.379
Floor	20	271	138	373	0.509
Ceiling	70	102	46	658	0.445
Walls (6)	50	178	68	530	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	5	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
2	4	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			25447	25367	316.0

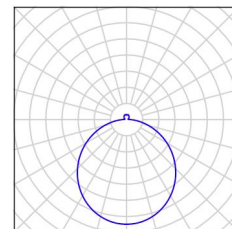
Specific connected load: $6.77 \text{ W/m}^2 = 2.12 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 46.64 m^2)

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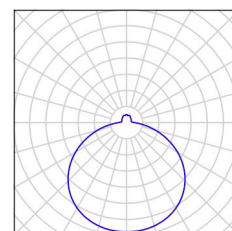
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Room 121A / Luminaire parts list

5 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



4 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction Factor 1.000).



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Room 121A / Photometric Results

Total Luminous Flux: 25447 lm
 Total Load: 316.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	243	77	320	/	/
Floor	193	77	271	20	17
Ceiling	31	71	102	70	23
Wall 1	95	63	158	50	25
Wall 2	100	68	168	50	27
Wall 3	125	75	200	50	32
Wall 4	147	78	225	50	36
Wall 5	38	61	99	50	16
Wall 6	96	63	159	50	25

Uniformity on the working plane

u_0 : 0.379 (1:3)

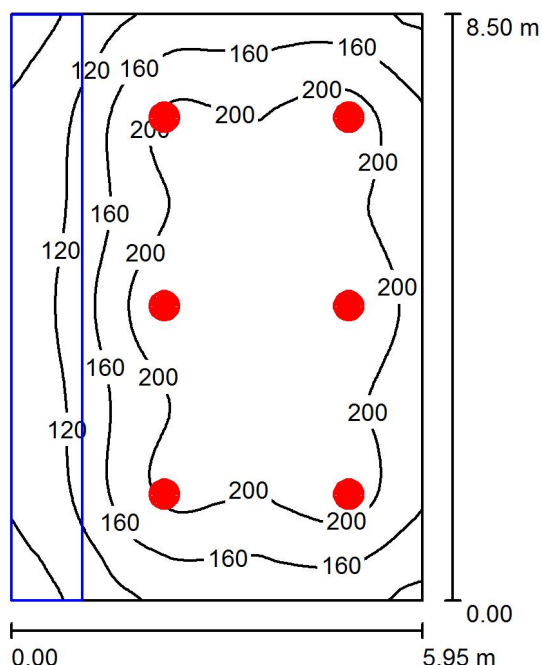
$E_{\min} / E_{\max}$: 0.240 (1:4)

Specific connected load: $6.77 \text{ W/m}^2 = 2.12 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 46.64 m^2)

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Room 121B / Summary



Height of Room: 3.160 m, Mounting Height: 3.160 m, Light loss factor: 0.80

Values in Lux, Scale 1:110

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	173	66	240	0.381
Floor	20	148	75	193	0.505
Ceiling	70	44	1.97	516	0.045
Walls (4)	50	90	12	213	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	6	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
Total:			14302	14202	192.0

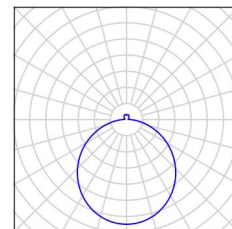
Specific connected load: $3.80 \text{ W/m}^2 = 2.20 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 50.58 m^2)

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Room 121B / Luminaire parts list

6 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



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Room 121B / Photometric Results

Total Luminous Flux: 14302 lm
Total Load: 192.0 W
Light loss factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	134	39	173	/	/
Floor	109	39	148	20	9.42
Ceiling	12	32	44	70	9.82
Wall 1	55	34	90	50	14
Wall 2	77	37	114	50	18
Wall 3	56	35	91	50	15
Wall 4	38	29	67	50	11

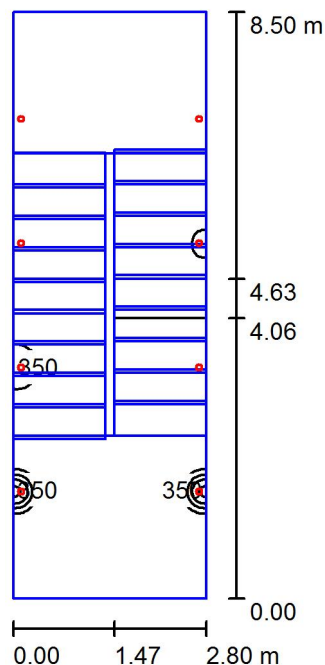
Uniformity on the working plane
u0: 0.381 (1:3)
E_{min} / E_{max}: 0.274 (1:4)

Specific connected load: $3.80 \text{ W/m}^2 = 2.20 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 50.58 m²)

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Room 122 / Summary



Height of Room: 6.800 m, Light loss factor: 0.80

Values in Lux, Scale 1:110

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	84	7.86	1549	0.094
Floor	20	61	7.93	259	0.131
Ceiling	70	105	31	484	0.295
Walls (4)	50	57	9.56	6743	/

Workplane:

Height: 0.850 m
Grid: 128 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	16	Glamox 11656424 D81-W70 LED 2x220 HF 830 WB (1.000)	759	900	6.0
Total:			12143	14400	96.0

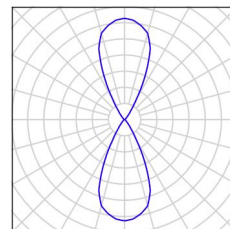
Specific connected load: $4.03 \text{ W/m}^2 = 4.81 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 23.80 m^2)

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Room 122 / Luminaire parts list

16 Pieces Glamox 11656424 D81-W70 LED 2x220 HF 830
WB
Article No.: 11656424
Luminous flux (Luminaire): 759 lm
Luminous flux (Lamps): 900 lm
Luminaire Wattage: 6.0 W
Luminaire classification according to CIE: 50
CIE flux code: 94 99 100 50 85
Fitting: 2 x D81 2X3W WIDE BEAM (Correction
Factor 1.000).



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Room 122 / Photometric Results

Total Luminous Flux: 12143 lm
 Total Load: 96.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	58	26	84	/	/
Floor	42	18	61	20	3.85
Ceiling	68	37	105	70	23
Wall 1	2.32	27	29	50	4.63
Wall 2	34	32	67	50	11
Wall 3	1.10	25	26	50	4.15
Wall 4	33	32	66	50	10

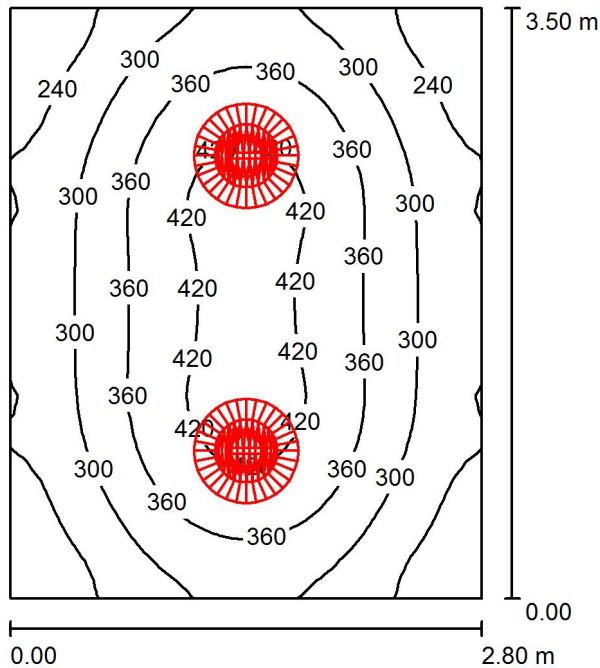
Uniformity on the working plane
 u_0 : 0.094 (1:11)
 $E_{\min} / E_{\max}$: 0.005 (1:197)

Specific connected load: $4.03 \text{ W/m}^2 = 4.81 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 23.80 m^2)

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Room 123 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:45

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	326	188	445	0.576
Floor	20	231	171	279	0.740
Ceiling	70	127	58	627	0.454
Walls (4)	50	188	87	438	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

UGR

Lengthways- Across to luminaire axis
Left Wall 15 15
Lower Wall 17 17
(CIE, SHR = 0.25.)

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			6765	6766	78.0

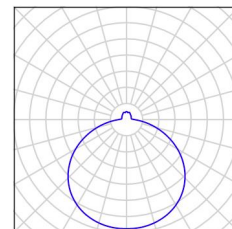
Specific connected load: $7.96 \text{ W/m}^2 = 2.44 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.80 m^2)

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Room 123 / Luminaire parts list

2 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction
Factor 1.000).



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Room 123 / Photometric Results

Total Luminous Flux: 6765 lm
 Total Load: 78.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	236	90	326	/	/
Floor	148	84	231	20	15
Ceiling	48	79	127	70	28
Wall 1	122	76	198	50	31
Wall 2	103	78	181	50	29
Wall 3	122	76	198	50	31
Wall 4	103	77	179	50	29

Uniformity on the working plane

u_0 : 0.576 (1:2)

$E_{\min} / E_{\max}$: 0.422 (1:2)

UGR

Left Wall

Lower Wall

(CIE, SHR = 0.25.)

Lengthways-

15

17

Across

15

17

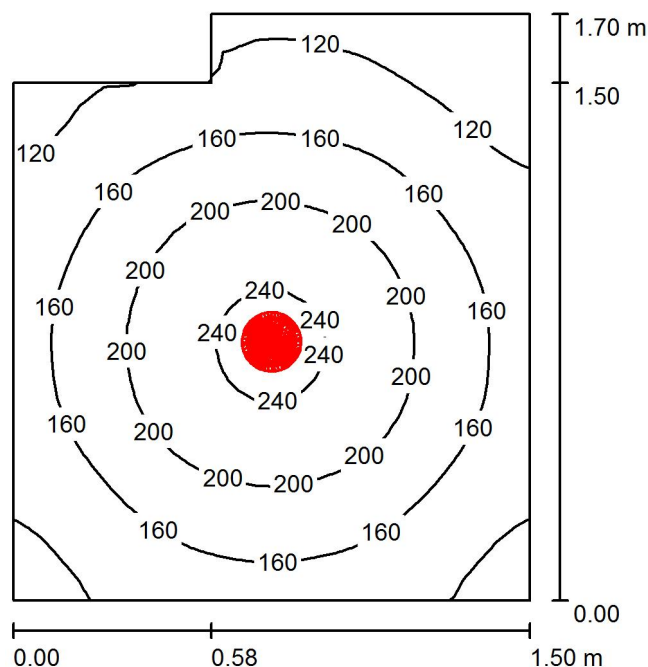
to luminaire axis

Specific connected load: $7.96 \text{ W/m}^2 = 2.44 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.80 m^2)

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Room 124 / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:22

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	167	84	250	0.505
Floor	20	97	70	116	0.726
Ceiling	70	23	17	28	0.719
Walls (6)	50	62	16	153	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			880	880	16.0

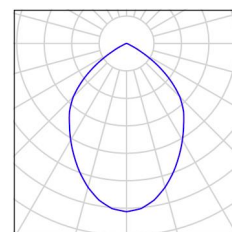
Specific connected load: $6.57 \text{ W/m}^2 = 3.93 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.44 m^2)

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Room 124 / Luminaire parts list

1 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction Factor 1.000).



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Room 124 / Photometric Results

Total Luminous Flux: 880 lm
 Total Load: 16.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	132	35	167	/	/
Floor	67	30	97	20	6.16
Ceiling	0.00	23	23	70	5.22
Wall 1	37	28	65	50	10
Wall 2	34	28	62	50	9.93
Wall 3	29	27	56	50	8.98
Wall 4	8.17	28	36	50	5.72
Wall 5	33	29	63	50	9.99
Wall 6	37	29	65	50	10

Uniformity on the working plane

u₀: 0.505 (1:2)

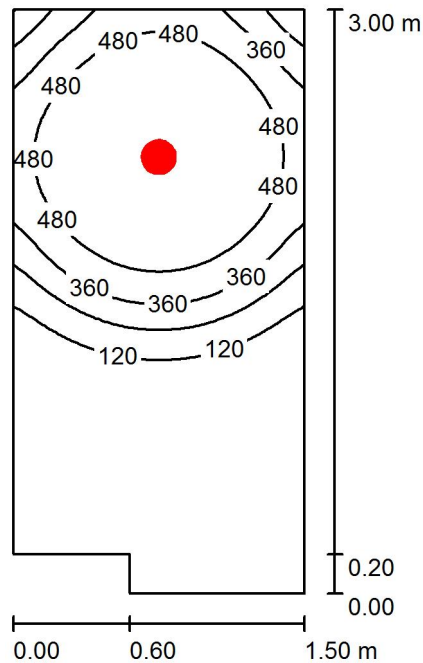
E_{min} / E_{max}: 0.338 (1:3)

Specific connected load: 6.57 W/m² = 3.93 W/m²/100 lx (Ground area: 2.44 m²)

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Room 125 / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:39

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	266	8.55	598	0.032
Floor	20	181	14	274	0.080
Ceiling	70	21	14	27	0.661
Walls (6)	50	56	9.63	245	/

Workplane:

Height: 0.850 m
Grid: 32 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	SITECO 2DN11K77VL336C Lunis 2® mini (1.000)	1630	1630	20.8
Total:			1630	Total: 1630	20.8

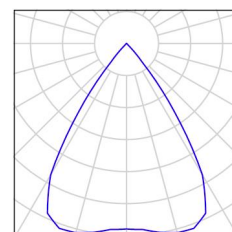
Specific connected load: $4.75 \text{ W/m}^2 = 1.79 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 4.38 m^2)

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Room 125 / Luminaire parts list

1 Pieces SITECO 2DN11K77VL336C Lunis 2® mini
Article No.: 2DN11K77VL336C
Luminous flux (Luminaire): 1630 lm
Luminous flux (Lamps): 1630 lm
Luminaire Wattage: 20.8 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 125 / Photometric Results

Total Luminous Flux: 1630 lm
 Total Load: 20.8 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	243	23	266	/	/
Floor	146	34	181	20	12
Ceiling	0.00	21	21	70	4.67
Wall 1	0.29	21	21	50	3.40
Wall 2	0.01	11	11	50	1.72
Wall 3	0.08	18	18	50	2.92
Wall 4	30	27	58	50	9.18
Wall 5	55	34	89	50	14
Wall 6	33	28	61	50	9.69

Uniformity on the working plane

u0: 0.032 (1:31)

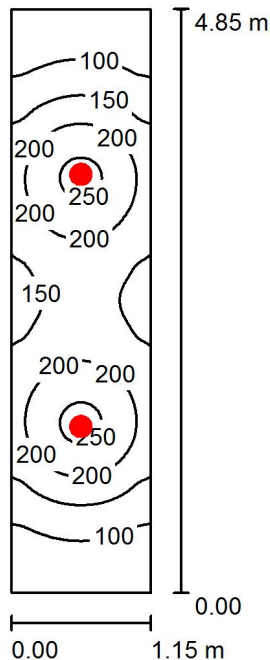
E_{min} / E_{max}: 0.014 (1:70)

Specific connected load: $4.75 \text{ W/m}^2 = 1.79 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 4.38 m^2)

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Room 126 / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:63

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	159	50	261	0.317
Floor	20	106	59	133	0.554
Ceiling	70	24	15	30	0.627
Walls (4)	50	59	15	238	/

Workplane:

Height: 0.850 m
Grid: 32 x 128 Points
Boundary Zone: 0.000 m

UGR

Lengthways-
Left Wall 21
Lower Wall 21
(CIE, SHR = 0.25.)

Across to luminaire axis
21
21

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			1760	1760	32.0

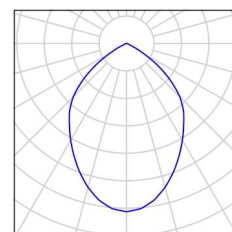
Specific connected load: $5.74 \text{ W/m}^2 = 3.60 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 5.58 m^2)

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Room 126 / Luminaire parts list

2 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction
Factor 1.000).



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Room 126 / Photometric Results

Total Luminous Flux: 1760 lm
 Total Load: 32.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	128	31	159	/	/
Floor	78	28	106	20	6.73
Ceiling	0.00	24	24	70	5.39
Wall 1	17	23	40	50	6.39
Wall 2	36	28	64	50	10
Wall 3	17	23	41	50	6.45
Wall 4	36	28	64	50	10

Uniformity on the working plane
 u_0 : 0.317 (1:3)
 $E_{\min} / E_{\max}$: 0.193 (1:5)

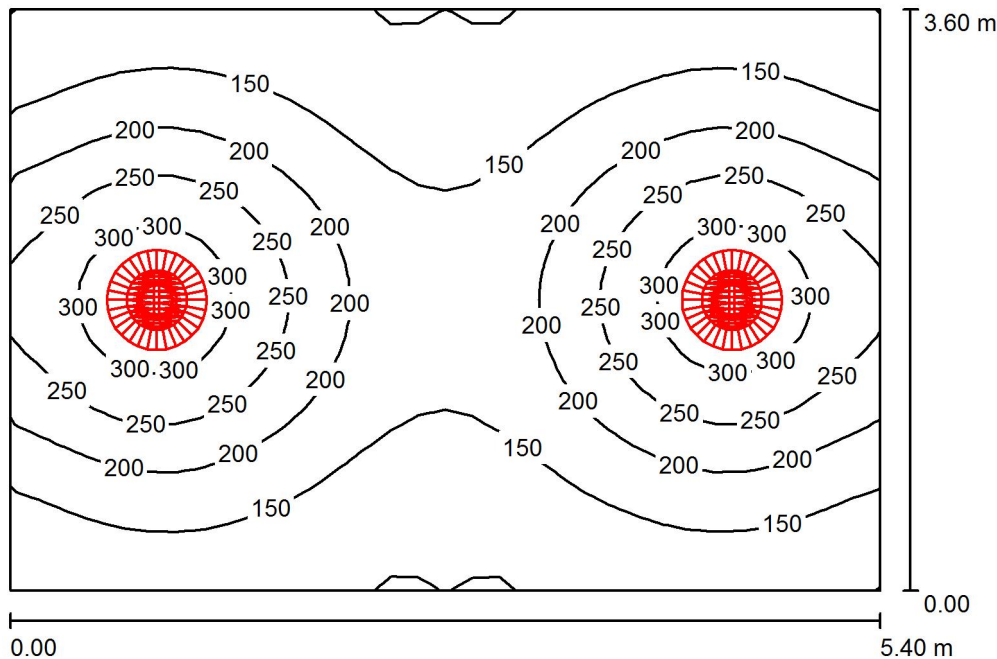
UGR Lengthways- Across to luminaire axis
 Left Wall 21 21
 Lower Wall 21 21
 (CIE, SHR = 0.25.)

Specific connected load: $5.74 \text{ W/m}^2 = 3.60 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 5.58 m^2)

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Room 127 / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Light loss factor: 0.80

Values in Lux, Scale 1:47

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	190	95	340	0.500
Floor	20	147	106	184	0.720
Ceiling	70	69	37	601	0.529
Walls (4)	50	111	49	365	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

UGR

Left Wall 18
Lower Wall 18
(CIE, SHR = 0.25.)

Lengthways-

18
18

Across

18
18

to luminaire axis

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			6765	6766	78.0

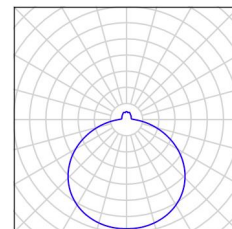
Specific connected load: $4.01 \text{ W/m}^2 = 2.11 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 19.44 m^2)

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Room 127 / Luminaire parts list

2 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction
Factor 1.000).



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Room 127 / Photometric Results

Total Luminous Flux: 6765 lm
 Total Load: 78.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	142	49	190	/	/
Floor	98	49	147	20	9.36
Ceiling	24	45	69	70	15
Wall 1	54	45	99	50	16
Wall 2	86	43	130	50	21
Wall 3	54	43	98	50	16
Wall 4	87	44	131	50	21

Uniformity on the working plane

u0: 0.500 (1:2)

E_{min} / E_{max}: 0.280 (1:4)

UGR

Left Wall

Lower Wall

(CIE, SHR = 0.25.)

Lengthways-

18

18

Across

18

18

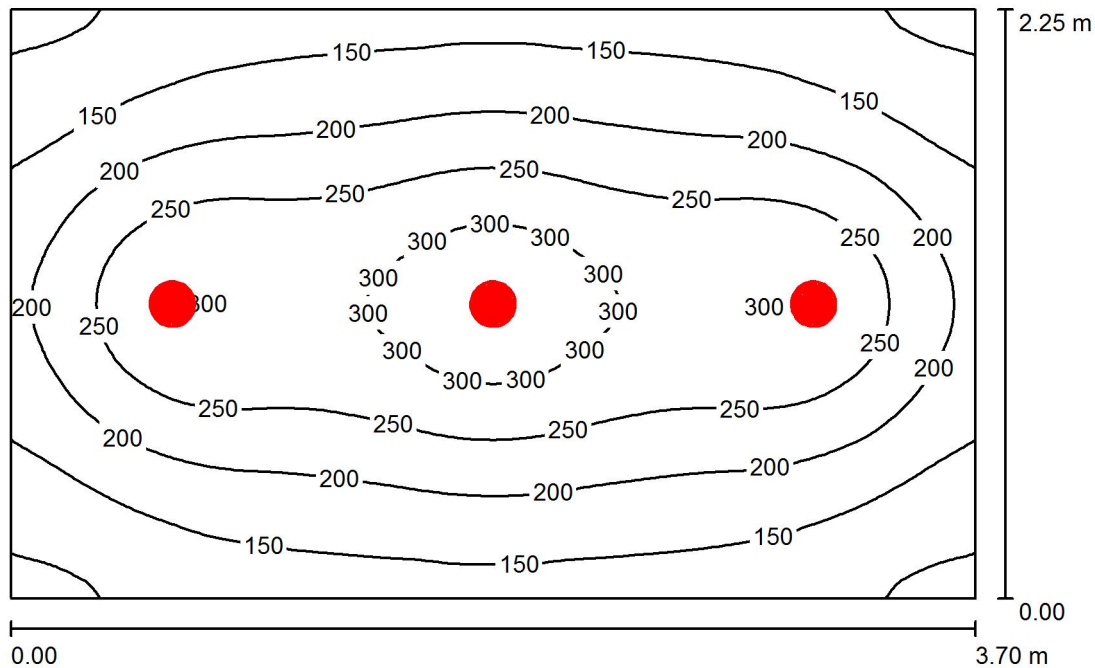
to luminaire axis

Specific connected load: 4.01 W/m² = 2.11 W/m²/100 lx (Ground area: 19.44 m²)

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Room 128 / Summary



Height of Room: 2.500 m, Mounting Height: 2.260 m, Light loss factor: 0.80

Values in Lux, Scale 1:29

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	206	91	335	0.443
Floor	20	151	95	196	0.630
Ceiling	70	29	21	34	0.740
Walls (4)	50	69	20	207	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

UGR

Left Wall 21
Lower Wall 21
(CIE, SHR = 0.25.)

Lengthways-

21
21

Across

21
21

to luminaire axis

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	SITECO 5DN12K78VL3W3C Lunis 2® mini (1.000)	880	880	16.0
Total:			2640	2640	48.0

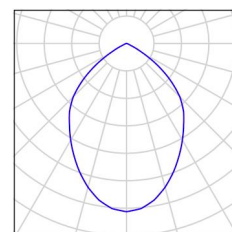
Specific connected load: $5.77 \text{ W/m}^2 = 2.80 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.32 m^2)

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Room 128 / Luminaire parts list

3 Pieces SITECO 5DN12K78VL3W3C Lunis 2® mini
Article No.: 5DN12K78VL3W3C
Luminous flux (Luminaire): 880 lm
Luminous flux (Lamps): 880 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 100
CIE flux code: 67 97 100 100 100
Fitting: 1 x LED 3000K / CRI $\geq$ 80 (Correction Factor 1.000).



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Room 128 / Photometric Results

Total Luminous Flux: 2640 lm
 Total Load: 48.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	177	30	206	/	/
Floor	116	35	151	20	9.61
Ceiling	0.00	29	29	70	6.42
Wall 1	36	31	67	50	11
Wall 2	43	30	72	50	12
Wall 3	36	31	67	50	11
Wall 4	43	30	73	50	12

Uniformity on the working plane
 u₀: 0.443 (1:2)
 E_{min} / E_{max}: 0.273 (1:4)

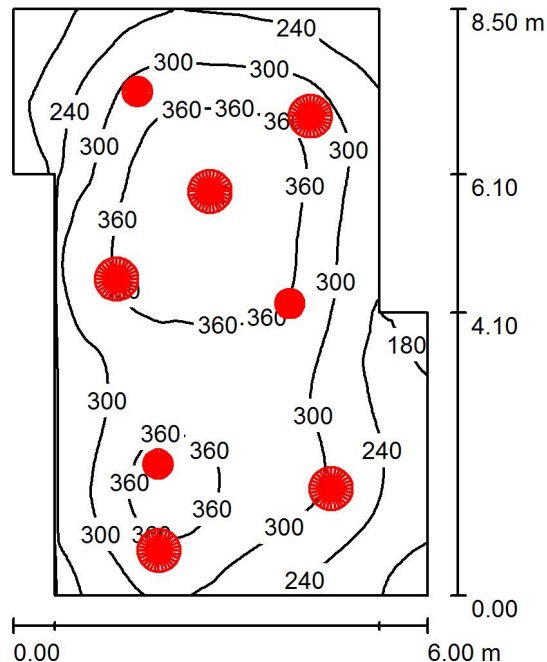
UGR Lengthways- Across to luminaire axis
 Left Wall 21 21
 Lower Wall 21 21
 (CIE, SHR = 0.25.)

Specific connected load: 5.77 W/m² = 2.80 W/m²/100 lx (Ground area: 8.32 m²)

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Room 129 / Summary



Height of Room: 3.160 m, Mounting Height: 3.160 m, Light loss factor: 0.80

Values in Lux, Scale 1:110

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	303	129	422	0.424
Floor	20	256	135	330	0.530
Ceiling	70	104	50	652	0.480
Walls (8)	50	175	61	730	/

Workplane:

Height: 0.850 m
Grid: 64 x 64 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
2	5	Glamox A20341320 A20-S620 LED 3500 830 (1.000)	3382	3383	39.0
Total:			24062	24016	291.0

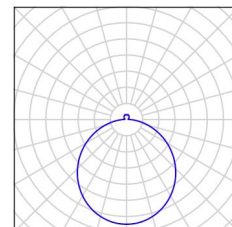
Specific connected load: $6.57 \text{ W/m}^2 = 2.17 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 44.26 m^2)

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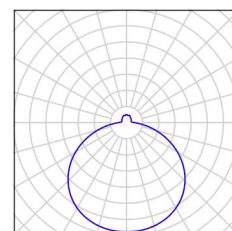
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Room 129 / Luminaire parts list

3 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



5 Pieces Glamox A20341320 A20-S620 LED 3500 830
Article No.: A20341320
Luminous flux (Luminaire): 3382 lm
Luminous flux (Lamps): 3383 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 91
CIE flux code: 42 74 93 91 100
Fitting: 1 x LED A20-620 3500 830 (Correction Factor 1.000).



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Room 129 / Photometric Results

Total Luminous Flux: 24062 lm
 Total Load: 291.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	226	77	303	/	/
Floor	179	76	256	20	16
Ceiling	34	70	104	70	23
Wall 1	125	69	194	50	31
Wall 2	87	65	152	50	24
Wall 3	33	64	97	50	15
Wall 4	123	70	193	50	31
Wall 5	102	67	169	50	27
Wall 6	66	61	127	50	20
Wall 7	24	60	84	50	13
Wall 8	130	71	201	50	32

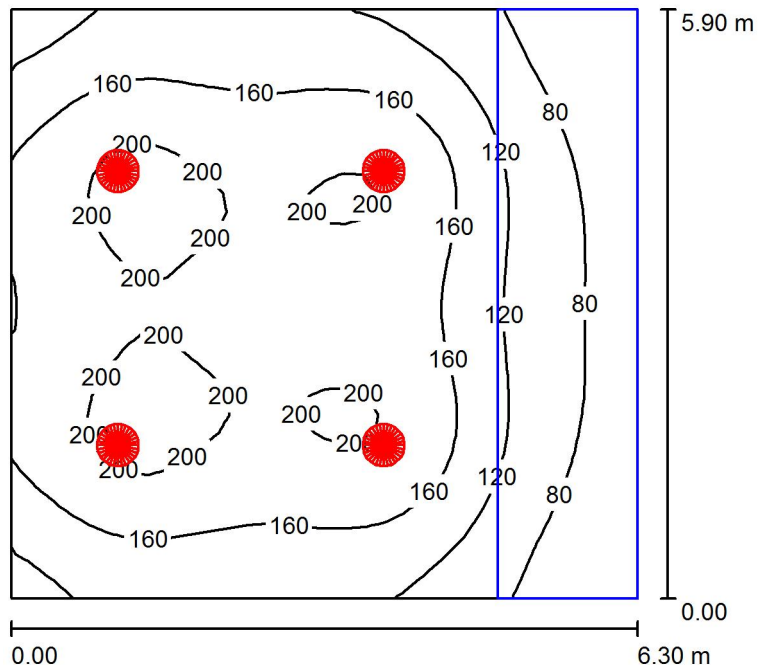
Uniformity on the working plane
 u_0 : 0.424 (1:2)
 $E_{\min} / E_{\max}$: 0.305 (1:3)

Specific connected load: $6.57 \text{ W/m}^2 = 2.17 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 44.26 m^2)

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Room 130 / Summary



Height of Room: 3.160 m, Mounting Height: 3.160 m, Light loss factor: 0.80

Values in Lux, Scale 1:76

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	150	53	215	0.351
Floor	20	126	59	169	0.471
Ceiling	70	38	2.02	510	0.053
Walls (4)	50	78	11	202	/

Workplane:

Height: 0.850 m
Grid: 32 x 32 Points
Boundary Zone: 0.000 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	Glamox A20231320 A20-S420 LED 2400 830 (1.000)	2384	2367	32.0
Total:			9534	9468	128.0

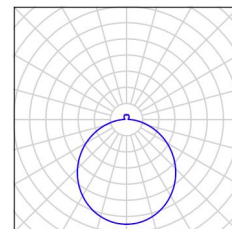
Specific connected load: $3.44 \text{ W/m}^2 = 2.30 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 37.17 m^2)

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Room 130 / Luminaire parts list

4 Pieces Glamox A20231320 A20-S420 LED 2400 830
Article No.: A20231320
Luminous flux (Luminaire): 2384 lm
Luminous flux (Lamps): 2367 lm
Luminaire Wattage: 32.0 W
Luminaire classification according to CIE: 94
CIE flux code: 46 77 94 94 101
Fitting: 1 x LED A20-S 2400 (Correction Factor 1.000).



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Room 130 / Photometric Results

Total Luminous Flux: 9534 lm
 Total Load: 128.0 W
 Light loss factor: 0.80
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	116	34	150	/	/
Floor	91	35	126	20	8.01
Ceiling	11	27	38	70	8.55
Wall 1	50	30	80	50	13
Wall 2	27	23	50	50	8.03
Wall 3	48	30	78	50	12
Wall 4	69	34	103	50	16

Uniformity on the working plane
 u_0 : 0.351 (1:3)
 $E_{\min} / E_{\max}$: 0.245 (1:4)

Specific connected load: $3.44 \text{ W/m}^2 = 2.30 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 37.17 m^2)