

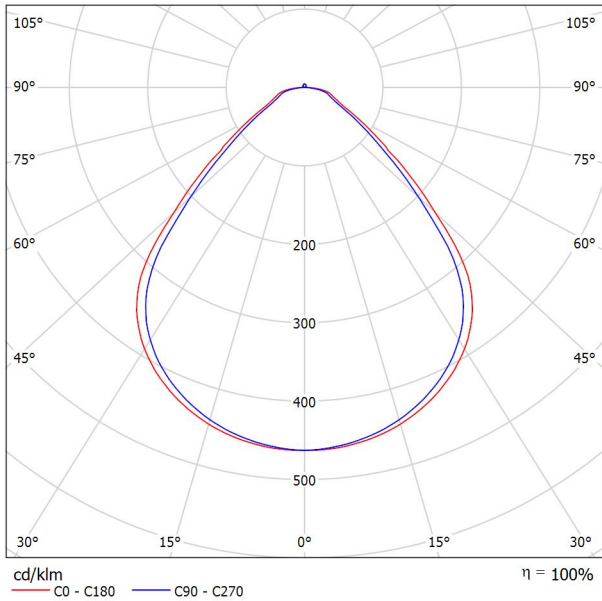


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LEDVANCE GmbH 4099854603280 PL ECO HLO 1200X300 E 40W 840 U19 / Luminaire
Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 99
CIE flux code: 62 88 97 99 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling	70	70	50	50	30	70	70	50	50	30	70	70
p Walls	50	30	50	30	30	50	30	50	30	30	50	30
p Floor	20	20	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	14.5	15.6	14.8	15.8	16.1	13.7	14.8	14.0	15.0	15.3	
	3H	15.8	16.8	16.2	17.1	17.4	15.2	16.2	15.5	16.5	16.8	
	4H	16.5	17.5	16.9	17.8	18.1	15.9	16.8	16.2	17.1	17.4	
	6H	17.2	18.1	17.6	18.4	18.7	16.4	17.3	16.8	17.6	17.9	
	8H	17.5	18.4	17.9	18.7	19.0	16.6	17.5	17.0	17.8	18.1	
	12H	17.8	18.6	18.2	18.9	19.3	16.8	17.5	17.1	17.9	18.3	
4H	2H	14.6	15.5	14.9	15.8	16.1	13.8	14.8	14.2	15.1	15.4	
	3H	16.4	17.2	16.8	17.6	17.9	15.9	16.7	16.3	17.0	17.4	
	4H	17.4	18.1	17.8	18.5	18.9	16.8	17.5	17.2	17.9	18.3	
	6H	18.4	19.0	18.8	19.4	19.8	17.6	18.2	18.1	18.6	19.1	
	8H	18.8	19.3	19.2	19.8	20.2	17.9	18.5	18.4	18.9	19.4	
	12H	19.2	19.7	19.6	20.1	20.6	18.2	18.7	18.6	19.1	19.5	
8H	4H	17.7	18.3	18.2	18.7	19.1	17.2	17.7	17.6	18.2	18.6	
	6H	18.9	19.3	19.4	19.8	20.3	18.3	18.7	18.8	19.2	19.7	
	8H	19.5	19.9	20.0	20.4	20.9	18.8	19.2	19.3	19.6	20.1	
	12H	20.1	20.4	20.6	20.9	21.4	19.1	19.5	19.7	20.0	20.5	
12H	4H	17.8	18.3	18.2	18.7	19.2	17.3	17.8	17.7	18.2	18.7	
	6H	19.0	19.4	19.5	19.8	20.4	18.4	18.8	18.9	19.3	19.8	
	8H	19.6	20.0	20.2	20.5	21.0	19.0	19.3	19.5	19.8	20.3	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.4					+0.3 / -0.5					
S = 1.5H		+0.6 / -0.9					+0.6 / -1.1					
S = 2.0H		+1.2 / -1.4					+1.2 / -1.6					
Standard table		BK05					BK05					
Correction		-3.2					-3.8					
Summand												
Corrected Glare Indices referring to 4800lm Total Luminous Flux												

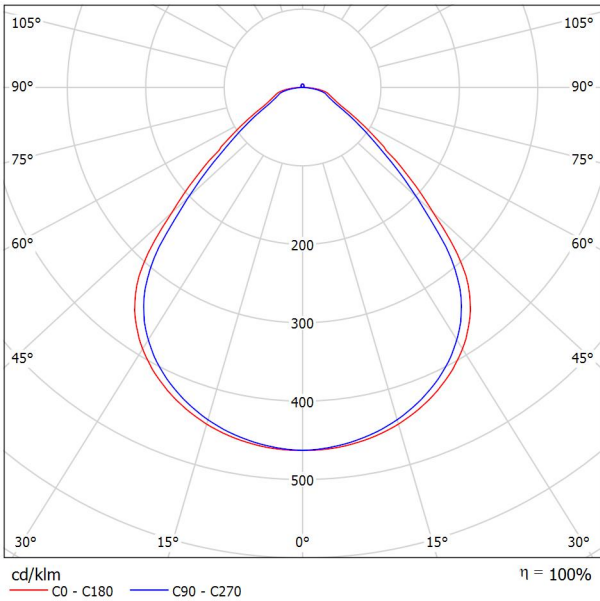


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LEDVANCE GmbH 4099854603303 PL ECO HLO 1200X300 E 40W 865 U19 / Luminaire
Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 99
CIE flux code: 62 88 97 99 100

Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	70	70
ρ Walls	50	30	50	30	30	50	30	50	30	30	50	30
ρ Floor	20	20	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	14.5	15.6	14.8	15.8	16.1	13.7	14.8	14.0	15.0	15.3	
	3H	15.8	16.8	16.2	17.1	17.4	15.2	16.2	15.5	16.5	16.8	
	4H	16.5	17.5	16.9	17.8	18.1	15.9	16.8	16.2	17.1	17.4	
	6H	17.2	18.1	17.6	18.4	18.7	16.4	17.3	16.8	17.6	17.9	
	8H	17.5	18.4	17.9	18.7	19.0	16.6	17.5	17.0	17.8	18.1	
	12H	17.8	18.6	18.2	18.9	19.3	16.8	17.5	17.1	17.9	18.3	
4H	2H	14.6	15.5	14.9	15.8	16.1	13.8	14.8	14.2	15.1	15.4	
	3H	16.4	17.2	16.8	17.6	17.9	15.9	16.7	16.3	17.0	17.4	
	4H	17.4	18.1	17.8	18.5	18.9	16.8	17.5	17.2	17.9	18.3	
	6H	18.4	19.0	18.8	19.4	19.8	17.6	18.2	18.1	18.6	19.1	
	8H	18.8	19.3	19.2	19.8	20.2	17.9	18.5	18.4	18.9	19.4	
	12H	19.2	19.7	19.6	20.1	20.6	18.2	18.7	18.6	19.1	19.5	
8H	4H	17.7	18.3	18.2	18.7	19.1	17.2	17.7	17.6	18.2	18.6	
	6H	18.9	19.3	19.4	19.8	20.3	18.3	18.7	18.8	19.2	19.7	
	8H	19.5	19.9	20.0	20.4	20.9	18.8	19.2	19.3	19.6	20.1	
	12H	20.1	20.4	20.6	20.9	21.4	19.1	19.5	19.7	20.0	20.5	
12H	4H	17.8	18.3	18.2	18.7	19.2	17.3	17.8	17.7	18.2	18.7	
	6H	19.0	19.4	19.5	19.8	20.4	18.4	18.8	18.9	19.3	19.8	
	8H	19.6	20.0	20.2	20.5	21.0	19.0	19.3	19.5	19.8	20.3	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.4					+0.3 / -0.5					
S = 1.5H		+0.6 / -0.9					+0.6 / -1.1					
S = 2.0H		+1.2 / -1.4					+1.2 / -1.6					
Standard table		BK05					BK05					
Correction		-3.2					-3.8					
Summand												
Corrected Glare Indices referring to 4800lm Total Luminous Flux												

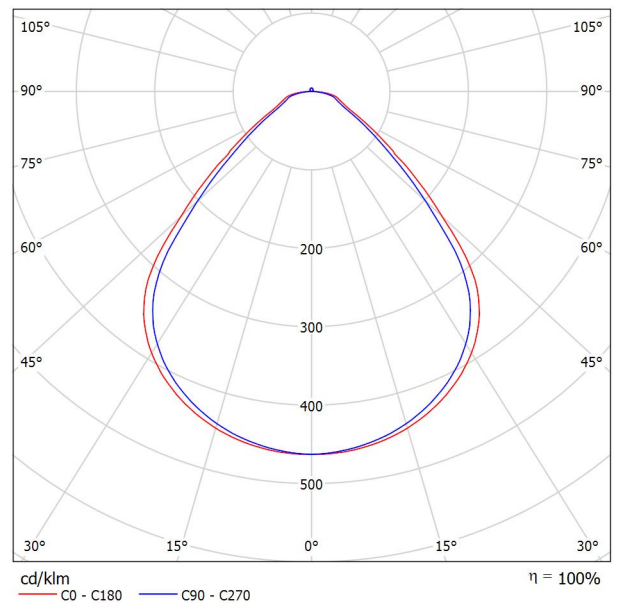


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LEDVANCE GmbH 4099854603143 PL ECO HLO 1200X300 E 34W 830 U19 / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 99
CIE flux code: 62 88 97 99 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling	70	70	50	50	30	70	70	50	50	30		
p Walls	50	30	50	30	30	50	30	50	30	30		
p Floor	20	20	20	20	20	20	20	20	20	20		
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	13.6	14.7	13.9	15.0	15.2	12.8	13.9	13.1	14.1	14.4	
	3H	15.0	16.0	15.3	16.2	16.5	14.3	15.3	14.7	15.6	15.9	
	4H	15.7	16.6	16.0	16.9	17.2	15.0	15.9	15.4	16.2	16.5	
	6H	16.4	17.2	16.7	17.5	17.9	15.6	16.4	15.9	16.7	17.1	
	8H	16.7	17.5	17.0	17.8	18.2	15.8	16.6	16.1	16.9	17.3	
	12H	16.9	17.7	17.3	18.1	18.4	15.9	16.7	16.3	17.0	17.4	
4H	2H	13.7	14.6	14.1	14.9	15.2	13.0	13.9	13.3	14.2	14.5	
	3H	15.6	16.4	16.0	16.7	17.1	15.0	15.8	15.4	16.1	16.5	
	4H	16.6	17.3	17.0	17.6	18.0	16.0	16.7	16.4	17.0	17.4	
	6H	17.5	18.1	17.9	18.5	18.9	16.8	17.4	17.2	17.8	18.2	
	8H	17.9	18.5	18.4	18.9	19.3	17.1	17.6	17.5	18.0	18.5	
	12H	18.3	18.8	18.8	19.2	19.7	17.3	17.8	17.7	18.2	18.7	
8H	4H	16.8	17.4	17.3	17.8	18.3	16.3	16.9	16.8	17.3	17.7	
	6H	18.0	18.5	18.5	18.9	19.4	17.4	17.9	17.9	18.3	18.8	
	8H	18.6	19.0	19.1	19.5	20.0	17.9	18.3	18.4	18.8	19.3	
	12H	19.2	19.5	19.7	20.0	20.5	18.3	18.6	18.8	19.1	19.6	
12H	4H	16.9	17.4	17.4	17.8	18.3	16.4	16.9	16.9	17.3	17.8	
	6H	18.1	18.5	18.6	19.0	19.5	17.5	17.9	18.0	18.4	18.9	
	8H	18.8	19.1	19.3	19.6	20.1	18.1	18.5	18.6	18.9	19.5	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.4					+0.3 / -0.5					
S = 1.5H		+0.6 / -0.9					+0.6 / -1.1					
S = 2.0H		+1.2 / -1.4					+1.2 / -1.6					
Standard table		BK05					BK05					
Correction		-3.2					-3.8					
Summand												
Corrected Glare Indices referring to 3740lm Total Luminous Flux												

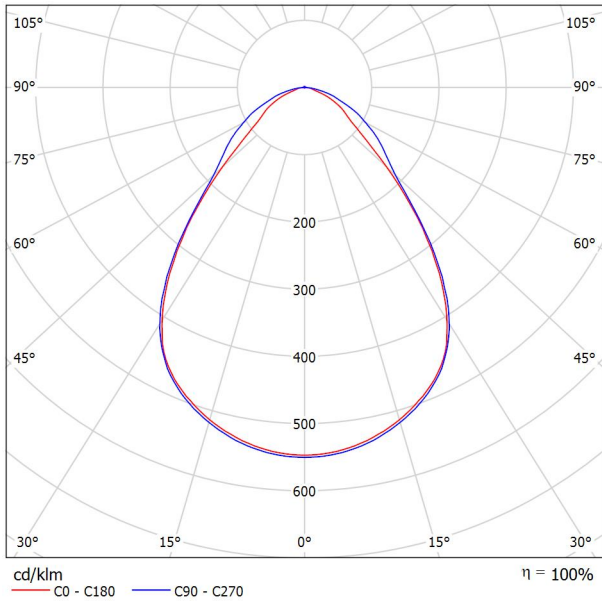


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LEDVANCE GmbH 4099854187759 PL ECO HLO 600 E 46W 865 U19 / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 66 89 98 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	30	
ρ Walls	50	30	50	30	30	50	30	50	30	30	30	
ρ Floor	20	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	14.4	15.4	14.6	15.6	15.9	14.5	15.6	14.8	15.8	16.0	
	3H	15.5	16.4	15.8	16.7	16.9	16.1	17.1	16.4	17.3	17.6	
	4H	15.8	16.7	16.1	16.9	17.2	16.7	17.6	17.1	17.9	18.2	
	6H	16.0	16.8	16.3	17.1	17.4	17.2	18.0	17.5	18.3	18.6	
	8H	16.1	16.9	16.4	17.2	17.5	17.3	18.1	17.6	18.4	18.7	
4H	12H	16.1	16.9	16.5	17.2	17.5	17.4	18.1	17.7	18.4	18.8	
	2H	14.9	15.8	15.2	16.1	16.4	15.0	15.9	15.4	16.2	16.5	
	3H	16.5	17.2	16.8	17.5	17.9	16.6	17.3	16.9	17.6	18.0	
	4H	17.0	17.7	17.4	18.0	18.4	17.2	17.9	17.6	18.2	18.6	
	6H	17.4	18.0	17.8	18.4	18.8	17.8	18.4	18.2	18.7	19.1	
8H	8H	17.6	18.1	18.0	18.5	18.9	18.0	18.5	18.4	18.9	19.3	
	12H	17.7	18.2	18.1	18.6	19.0	18.2	18.6	18.6	19.0	19.5	
	4H	17.4	17.9	17.8	18.3	18.7	17.6	18.1	18.0	18.5	18.9	
	6H	18.0	18.4	18.4	18.8	19.3	18.2	18.6	18.6	19.0	19.5	
	8H	18.3	18.6	18.7	19.1	19.5	18.4	18.8	18.9	19.3	19.7	
12H	12H	18.5	18.8	19.0	19.3	19.8	18.6	19.0	19.1	19.4	19.9	
	4H	17.4	17.9	17.8	18.3	18.7	17.6	18.1	18.1	18.5	18.9	
	6H	18.0	18.4	18.5	18.9	19.3	18.3	18.6	18.7	19.1	19.6	
	8H	18.4	18.7	18.9	19.2	19.7	18.5	18.9	19.0	19.3	19.8	
	Variation of the observer position for the luminaires distances S											
S = 1.0H		+0.4 / -0.5					+0.4 / -0.4					
S = 1.5H		+0.6 / -1.0					+0.8 / -0.7					
S = 2.0H		+1.2 / -1.7					+1.4 / -1.4					
Standard table		BK04					BK04					
Correction		-4.8					-4.4					
Summand												
Corrected Glare Indices referring to 5336lm Total Luminous Flux												

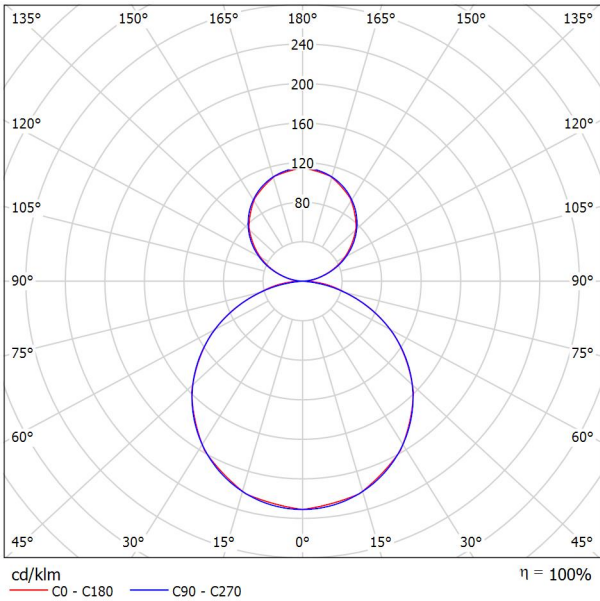


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LEDVANCE GmbH 4058075144620 PANEL D I 1200 36W 4000K UGR19 / Luminaire
Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 67
CIE flux code: 46 78 95 67 100

Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	30	
ρ Walls	50	30	50	30	30	50	30	50	30	30	30	
ρ Floor	20	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	14.4	15.4	15.1	16.1	17.0	14.4	15.4	15.1	16.1	16.9	
	3H	16.1	17.0	16.9	17.7	18.6	16.1	17.0	16.8	17.7	18.6	
	4H	16.7	17.5	17.5	18.3	19.2	16.7	17.5	17.5	18.2	19.1	
	6H	17.2	17.9	18.0	18.7	19.6	17.1	17.8	17.8	18.6	19.5	
	8H	17.4	18.1	18.2	18.9	19.8	17.1	17.8	17.9	18.6	19.5	
	12H	17.5	18.2	18.3	19.0	19.9	17.1	17.8	17.9	18.6	19.5	
4H	2H	14.9	15.7	15.6	16.4	17.3	14.9	15.7	15.6	16.4	17.3	
	3H	16.8	17.4	17.6	18.2	19.2	16.8	17.4	17.5	18.2	19.2	
	4H	17.5	18.1	18.3	18.9	19.9	17.5	18.1	18.3	18.9	19.8	
	6H	18.1	18.6	18.9	19.4	20.4	17.9	18.4	18.8	19.3	20.3	
	8H	18.3	18.8	19.2	19.6	20.7	18.0	18.5	18.9	19.3	20.4	
	12H	18.5	19.0	19.4	19.8	20.9	18.1	18.5	18.9	19.3	20.4	
8H	4H	17.7	18.2	18.5	19.0	20.0	17.7	18.1	18.5	19.0	20.0	
	6H	18.4	18.8	19.3	19.7	20.7	18.2	18.6	19.1	19.5	20.6	
	8H	18.8	19.1	19.7	20.0	21.1	18.4	18.7	19.3	19.6	20.7	
	12H	19.1	19.3	20.0	20.2	21.3	18.5	18.8	19.4	19.7	20.8	
12H	4H	17.7	18.1	18.5	18.9	20.0	17.7	18.1	18.5	18.9	20.0	
	6H	18.5	18.8	19.3	19.7	20.7	18.3	18.6	19.2	19.5	20.6	
	8H	18.8	19.1	19.7	20.0	21.1	18.5	18.8	19.4	19.7	20.8	
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		+0.4 / -0.6					+0.4 / -0.6					
Standard table		BK06					BK05					
Correction		-2.0					-2.8					
Summand												
Corrected Glare Indices referring to 4000lm Total Luminous Flux												

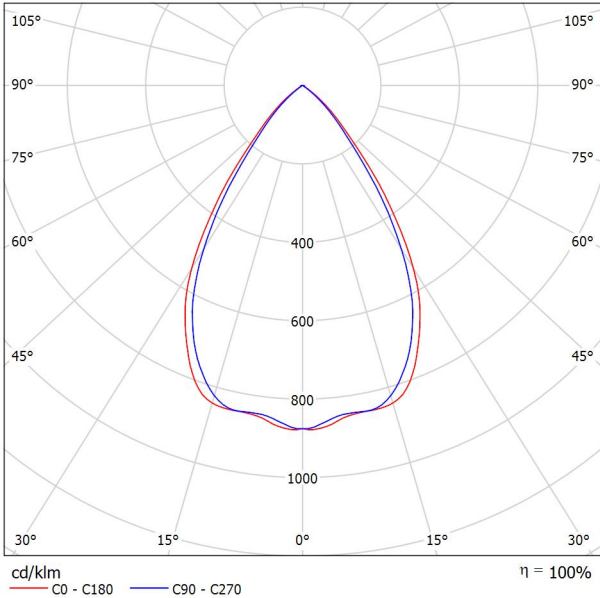


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LEDVANCE GmbH 4058075459250 DL UGR19 DN195 PFM 21W 830 WT IP54 /
Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 89 99 100 100 100

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	5.8	6.6	6.1	6.8	7.0	3.0	3.8	3.3	4.0	4.2	
	3H	6.9	7.6	7.2	7.8	8.1	5.3	6.0	5.6	6.3	6.5	
	4H	8.2	8.8	8.5	9.1	9.4	6.7	7.4	7.0	7.6	7.9	
	6H	9.0	9.6	9.3	9.9	10.1	7.6	8.2	7.9	8.5	8.8	
	8H	9.3	9.9	9.7	10.2	10.5	8.0	8.6	8.4	8.9	9.2	
4H	12H	9.7	10.2	10.1	10.6	10.9	8.6	9.1	8.9	9.4	9.7	
	2H	5.9	6.6	6.3	6.8	7.1	3.5	4.1	3.8	4.4	4.7	
	3H	7.6	8.1	7.9	8.4	8.8	6.6	7.1	6.9	7.4	7.7	
	4H	9.1	9.6	9.5	9.9	10.3	8.0	8.5	8.4	8.8	9.2	
	6H	10.1	10.5	10.5	10.8	11.2	9.1	9.5	9.5	9.8	10.2	
8H	8H	10.5	10.9	10.9	11.2	11.6	9.6	9.9	10.0	10.3	10.7	
	12H	11.0	11.3	11.4	11.7	12.1	10.2	10.5	10.7	10.9	11.3	
	4H	9.5	9.9	10.0	10.3	10.7	8.6	9.0	9.0	9.4	9.8	
	6H	10.7	10.9	11.1	11.4	11.8	9.9	10.1	10.3	10.6	11.0	
	8H	11.2	11.5	11.7	11.9	12.4	10.5	10.8	11.0	11.2	11.7	
12H	12H	11.9	12.1	12.4	12.6	13.0	11.3	11.5	11.8	12.0	12.5	
	4H	9.6	9.9	10.0	10.3	10.7	8.7	9.0	9.1	9.4	9.8	
	6H	10.8	11.0	11.2	11.5	11.9	10.0	10.3	10.5	10.7	11.2	
	8H	11.4	11.6	11.9	12.1	12.6	10.8	10.9	11.2	11.4	11.9	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+3.3 / -6.0					+3.4 / -6.3					
S = 1.5H		+5.9 / -7.7					+5.9 / -7.4					
S = 2.0H		+7.9 / -8.2					+7.9 / -7.9					
Standard table		BK00					BK00					
Correction Summand		-2.1					-2.9					
Corrected Glare Indices referring to 2400lm Total Luminous Flux												

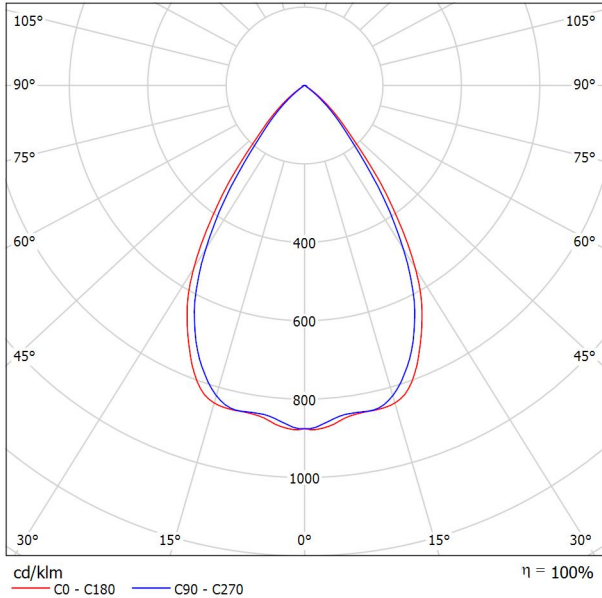


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LEDVANCE GmbH 4058075459137 DL UGR19 DN155 PFM 14W 830 WT IP54 /
Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 89 99 100 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	30
p Walls		50	30	50	30	30	50	30	50	30	30	30
p Floor		20	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	6.1	6.9	6.4	7.1	7.3	3.3	4.1	3.5	4.3	4.5	
	3H	7.2	7.9	7.4	8.1	8.3	5.6	6.3	5.9	6.5	6.8	
	4H	8.5	9.1	8.8	9.4	9.6	7.0	7.6	7.3	7.9	8.1	
	6H	9.2	9.8	9.6	10.1	10.4	7.8	8.4	8.2	8.7	9.0	
	8H	9.6	10.2	9.9	10.4	10.7	8.3	8.8	8.6	9.1	9.4	
	12H	10.0	10.5	10.3	10.8	11.1	8.8	9.3	9.2	9.7	10.0	
4H	2H	6.2	6.9	6.5	7.1	7.4	3.8	4.4	4.1	4.7	4.9	
	3H	7.9	8.4	8.2	8.7	9.0	6.8	7.4	7.2	7.7	8.0	
	4H	9.4	9.9	9.8	10.2	10.6	8.3	8.8	8.7	9.1	9.4	
	6H	10.3	10.7	10.7	11.1	11.5	9.3	9.7	9.7	10.1	10.5	
	8H	10.8	11.1	11.2	11.5	11.9	9.9	10.2	10.3	10.6	11.0	
	12H	11.3	11.6	11.7	12.0	12.4	10.5	10.8	10.9	11.2	11.6	
8H	4H	9.8	10.2	10.2	10.5	10.9	8.9	9.2	9.3	9.6	10.0	
	6H	10.9	11.2	11.4	11.6	12.1	10.1	10.4	10.6	10.8	11.3	
	8H	11.5	11.7	12.0	12.2	12.6	10.8	11.0	11.2	11.5	11.9	
	12H	12.2	12.4	12.6	12.8	13.3	11.6	11.8	12.1	12.2	12.7	
12H	4H	9.9	10.2	10.3	10.6	11.0	9.0	9.3	9.4	9.7	10.1	
	6H	11.0	11.3	11.5	11.7	12.2	10.3	10.5	10.7	11.0	11.4	
	8H	11.7	11.9	12.2	12.3	12.8	11.0	11.2	11.5	11.7	12.2	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+3.3 / -6.0					+3.4 / -6.3					
S = 1.5H		+5.9 / -7.7					+5.9 / -7.4					
S = 2.0H		+7.9 / -8.2					+7.9 / -7.9					
Standard table		BK00					BK00					
Correction		-0.2					-1.0					
Summand												
Corrected Glare Indices referring to 1500lm Total Luminous Flux												

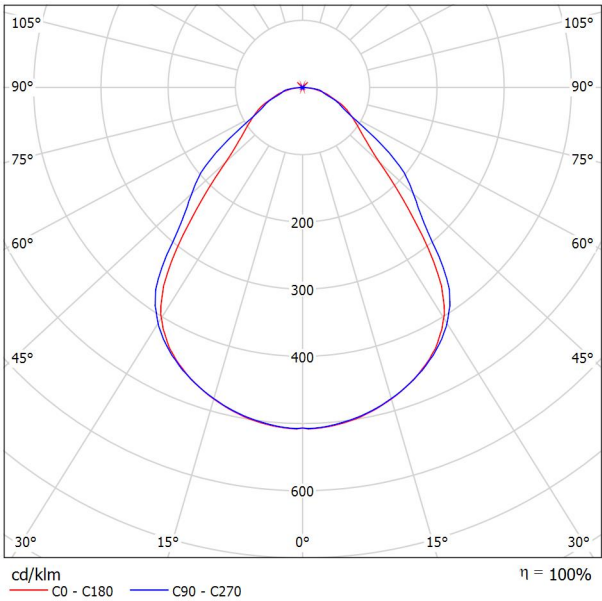


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LEDVANCE GmbH 4099854014604 PL CMFT 600 P 28W 830 U19 PS / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 64 88 97 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	70	70
ρ Walls	50	30	50	30	30	50	30	50	30	30	50	30
ρ Floor	20	20	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	13.3	14.4	13.6	14.6	14.8	13.7	14.8	14.0	15.1	15.3	
	3H	14.8	15.8	15.1	16.0	16.3	15.2	16.2	15.5	16.4	16.7	
	4H	15.4	16.3	15.7	16.6	16.9	15.8	16.7	16.1	17.0	17.3	
	6H	15.9	16.8	16.2	17.1	17.4	16.3	17.2	16.7	17.5	17.8	
	8H	16.1	16.9	16.4	17.2	17.5	16.6	17.4	17.0	17.7	18.1	
	12H	16.2	17.0	16.6	17.3	17.7	16.8	17.6	17.2	17.9	18.2	
4H	2H	13.8	14.8	14.2	15.0	15.3	14.2	15.1	14.5	15.4	15.7	
	3H	15.4	16.2	15.8	16.6	16.9	15.9	16.7	16.3	17.0	17.4	
	4H	16.2	16.9	16.6	17.2	17.6	16.7	17.4	17.1	17.7	18.1	
	6H	16.9	17.5	17.3	17.9	18.2	17.4	18.0	17.9	18.4	18.8	
	8H	17.2	17.7	17.6	18.1	18.5	17.8	18.3	18.2	18.7	19.1	
	12H	17.4	17.9	17.8	18.3	18.7	18.0	18.5	18.5	18.9	19.4	
8H	4H	16.5	17.1	17.0	17.5	17.9	17.0	17.5	17.4	17.9	18.3	
	6H	17.4	17.9	17.9	18.3	18.8	17.8	18.2	18.3	18.7	19.1	
	8H	17.8	18.2	18.3	18.7	19.2	18.2	18.6	18.7	19.0	19.5	
	12H	18.2	18.5	18.7	19.0	19.5	18.5	18.9	19.0	19.3	19.8	
12H	4H	16.6	17.1	17.0	17.5	17.9	17.0	17.5	17.4	17.9	18.3	
	6H	17.5	17.9	18.0	18.3	18.8	17.9	18.3	18.4	18.7	19.2	
	8H	18.0	18.3	18.5	18.8	19.3	18.3	18.6	18.8	19.1	19.6	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.5					+0.3 / -0.3					
S = 1.5H		+0.5 / -0.7					+0.5 / -0.8					
S = 2.0H		+1.1 / -0.9					+1.0 / -1.2					
Standard table		BK05					BK05					
Correction		-3.9					-3.5					
Summand												
Corrected Glare Indices referring to 3640lm Total Luminous Flux												

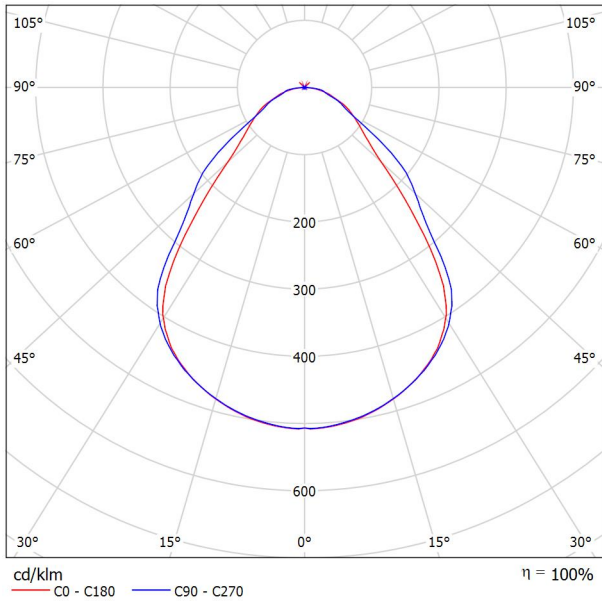


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LEDVANCE GmbH 4099854014604 PL CMFT 600 P 28W 830 U19 PS / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 64 88 97 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	30
p Walls		50	30	50	30	30	50	30	50	30	30	30
p Floor		20	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	13.3	14.4	13.6	14.6	14.8	13.7	14.8	14.0	15.1	15.3	
	3H	14.8	15.8	15.1	16.0	16.3	15.2	16.2	15.5	16.4	16.7	
	4H	15.4	16.3	15.7	16.6	16.9	15.8	16.7	16.1	17.0	17.3	
	6H	15.9	16.8	16.2	17.1	17.4	16.3	17.2	16.7	17.5	17.8	
	8H	16.1	16.9	16.4	17.2	17.5	16.6	17.4	17.0	17.7	18.1	
	12H	16.2	17.0	16.6	17.3	17.7	16.8	17.6	17.2	17.9	18.2	
4H	2H	13.8	14.8	14.2	15.0	15.3	14.2	15.1	14.5	15.4	15.7	
	3H	15.4	16.2	15.8	16.6	16.9	15.9	16.7	16.3	17.0	17.4	
	4H	16.2	16.9	16.6	17.2	17.6	16.7	17.4	17.1	17.7	18.1	
	6H	16.9	17.5	17.3	17.9	18.2	17.4	18.0	17.9	18.4	18.8	
	8H	17.2	17.7	17.6	18.1	18.5	17.8	18.3	18.2	18.7	19.1	
	12H	17.4	17.9	17.8	18.3	18.7	18.0	18.5	18.5	18.9	19.4	
8H	4H	16.5	17.1	17.0	17.5	17.9	17.0	17.5	17.4	17.9	18.3	
	6H	17.4	17.9	17.9	18.3	18.8	17.8	18.2	18.3	18.7	19.1	
	8H	17.8	18.2	18.3	18.7	19.2	18.2	18.6	18.7	19.0	19.5	
	12H	18.2	18.5	18.7	19.0	19.5	18.5	18.9	19.0	19.3	19.8	
12H	4H	16.6	17.1	17.0	17.5	17.9	17.0	17.5	17.4	17.9	18.3	
	6H	17.5	17.9	18.0	18.3	18.8	17.9	18.3	18.3	18.7	19.2	
	8H	18.0	18.3	18.5	18.8	19.3	18.3	18.6	18.8	19.1	19.6	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.5					+0.3 / -0.3					
S = 1.5H		+0.5 / -0.7					+0.5 / -0.8					
S = 2.0H		+1.1 / -0.9					+1.0 / -1.2					
Standard table		BK05					BK05					
Correction		-3.9					-3.5					
Summand												
Corrected Glare Indices referring to 3640lm Total Luminous Flux												

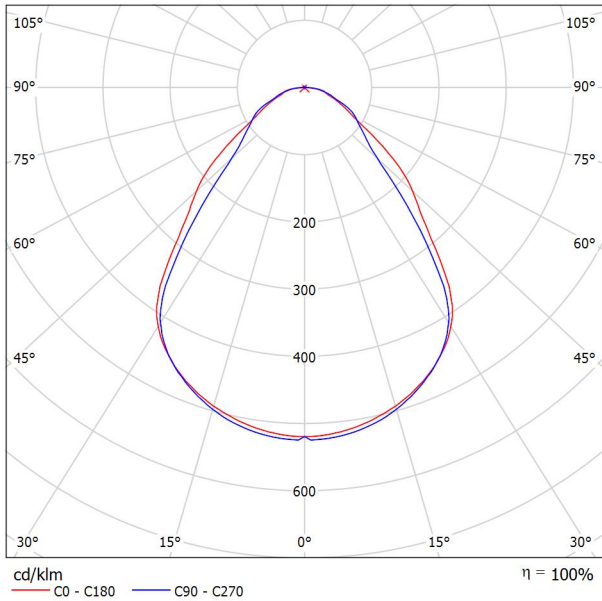


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LEDVANCE GmbH 4099854015113 PL CMFT 600 P 33W 840 U19 PS / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 65 88 97 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30	30	
ρ Walls	50	30	50	30	30	50	30	50	30	30	30	
ρ Floor	20	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	14.1	15.2	14.4	15.4	15.6	13.8	14.9	14.1	15.1	15.3	
	3H	15.6	16.6	15.9	16.8	17.1	15.4	16.3	15.7	16.6	16.8	
	4H	16.2	17.2	16.6	17.4	17.7	16.0	16.9	16.3	17.2	17.5	
	6H	16.9	17.7	17.2	18.0	18.3	16.5	17.4	16.9	17.7	18.0	
	8H	17.1	17.9	17.5	18.3	18.6	16.8	17.6	17.2	17.9	18.2	
	12H	17.3	18.1	17.7	18.4	18.7	17.0	17.8	17.4	18.1	18.4	
4H	2H	14.6	15.5	15.0	15.8	16.1	14.3	15.3	14.7	15.5	15.8	
	3H	16.4	17.1	16.7	17.5	17.8	16.0	16.8	16.3	17.1	17.4	
	4H	17.2	17.9	17.6	18.2	18.6	16.8	17.5	17.2	17.8	18.2	
	6H	17.9	18.5	18.4	18.9	19.3	17.5	18.1	18.0	18.5	18.9	
	8H	18.3	18.8	18.7	19.2	19.6	17.9	18.5	18.3	18.8	19.3	
	12H	18.5	19.0	19.0	19.4	19.9	18.2	18.7	18.7	19.1	19.6	
8H	4H	17.4	18.0	17.9	18.4	18.8	17.1	17.7	17.6	18.1	18.5	
	6H	18.3	18.8	18.8	19.2	19.6	18.1	18.6	18.6	19.0	19.5	
	8H	18.8	19.1	19.2	19.6	20.1	18.6	19.0	19.1	19.5	19.9	
	12H	19.1	19.5	19.6	19.9	20.4	19.1	19.4	19.6	19.9	20.4	
12H	4H	17.5	18.0	17.9	18.4	18.8	17.2	17.7	17.6	18.1	18.5	
	6H	18.4	18.8	18.9	19.3	19.7	18.2	18.6	18.7	19.1	19.5	
	8H	18.9	19.2	19.4	19.7	20.2	18.8	19.1	19.3	19.6	20.1	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.3					+0.3 / -0.4					
S = 1.5H		+0.5 / -0.7					+0.5 / -0.6					
S = 2.0H		+0.9 / -1.2					+1.0 / -0.9					
Standard table		BK05					BK05					
Correction		-3.6					-3.9					
Summand												
Corrected Glare Indices referring to 4320lm Total Luminous Flux												

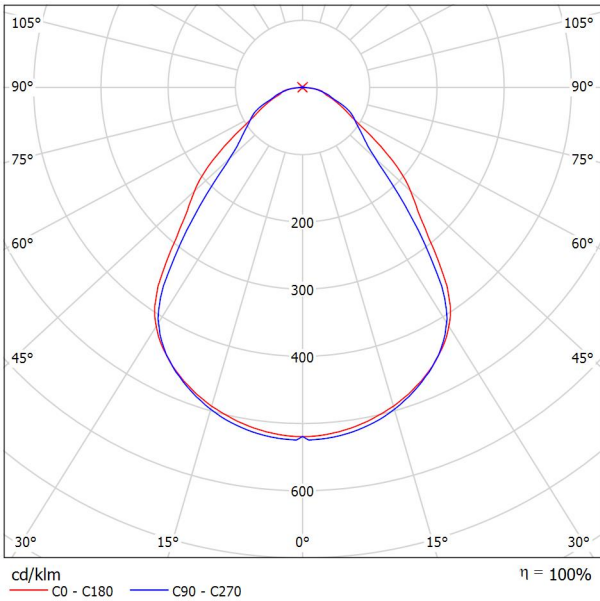


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LEDVANCE GmbH 4099854015113 PL CMFT 600 P 33W 840 U19 PS / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 65 88 97 100 100

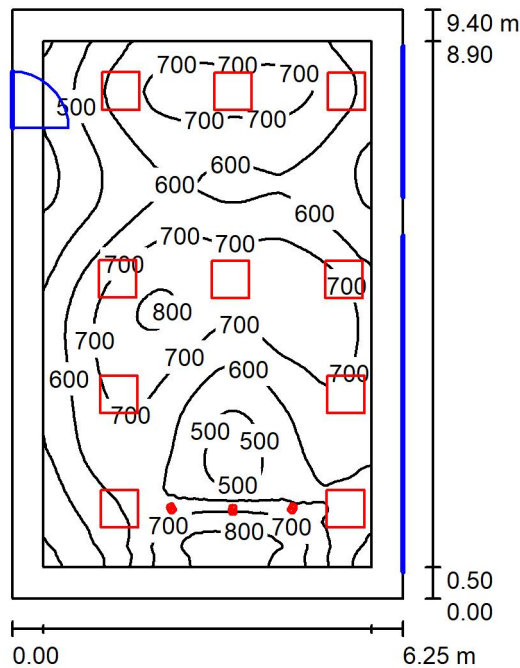
Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling		70	70	50	50	30	70	70	50	50	30	30
ρ Walls		50	30	50	30	30	50	30	50	30	30	30
ρ Floor		20	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	14.1	15.2	14.4	15.4	15.6	13.8	14.9	14.1	15.1	15.3	
	3H	15.6	16.6	15.9	16.8	17.1	15.4	16.3	15.7	16.6	16.8	
	4H	16.2	17.2	16.6	17.4	17.7	16.0	16.9	16.3	17.2	17.5	
	6H	16.9	17.7	17.2	18.0	18.3	16.5	17.4	16.9	17.7	18.0	
	8H	17.1	17.9	17.5	18.3	18.6	16.8	17.6	17.2	17.9	18.2	
	12H	17.3	18.1	17.7	18.4	18.7	17.0	17.8	17.4	18.1	18.4	
4H	2H	14.6	15.5	15.0	15.8	16.1	14.3	15.3	14.7	15.5	15.8	
	3H	16.4	17.1	16.7	17.5	17.8	16.0	16.8	16.3	17.1	17.4	
	4H	17.2	17.9	17.6	18.2	18.6	16.8	17.5	17.2	17.8	18.2	
	6H	17.9	18.5	18.4	18.9	19.3	17.5	18.1	18.0	18.5	18.9	
	8H	18.3	18.8	18.7	19.2	19.6	17.9	18.5	18.3	18.8	19.3	
	12H	18.5	19.0	19.0	19.4	19.9	18.2	18.7	18.7	19.1	19.6	
8H	4H	17.4	18.0	17.9	18.4	18.8	17.1	17.7	17.6	18.1	18.5	
	6H	18.3	18.8	18.8	19.2	19.6	18.1	18.6	18.6	19.0	19.5	
	8H	18.8	19.1	19.2	19.6	20.1	18.6	19.0	19.1	19.5	19.9	
	12H	19.1	19.5	19.6	19.9	20.4	19.1	19.4	19.6	19.9	20.4	
12H	4H	17.5	18.0	17.9	18.4	18.8	17.2	17.7	17.6	18.1	18.5	
	6H	18.4	18.8	18.9	19.3	19.7	18.2	18.6	18.7	19.1	19.5	
	8H	18.9	19.2	19.4	19.7	20.2	18.8	19.1	19.3	19.6	20.1	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.3 / -0.3					+0.3 / -0.4					
S = 1.5H		+0.5 / -0.7					+0.5 / -0.6					
S = 2.0H		+0.9 / -1.2					+1.0 / -0.9					
Standard table		BK05					BK05					
Correction		-3.6					-3.9					
Summand												
Corrected Glare Indices referring to 4320lm Total Luminous Flux												



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Room 1 / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:121

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	631	367	849	0.581
Floor	20	552	309	693	0.560
Ceilings (5)	70	153	78	2102	/
Walls (4)	90	274	133	747	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.318, Ceiling / Working Plane: 0.242.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	LEDVANCE GmbH 4058075459137 DL UGR19 DN155 PFM 14W 830 WT IP54 (1.000)	1500	1500	14.0
2	2	LEDVANCE GmbH 4099854014604 PL CMFT 600 P 28W 830 U19 PS (1.000)	3642	3640	28.0
3	5	LEDVANCE GmbH 4099854015113 PL CMFT 600 P 33W 840 U19 PS (1.000)	4318	4320	33.0
4	3	LEDVANCE GmbH 4099854015113 PL CMFT 600 P 33W 840 U19 PS (1.000)	4318	4320	33.0
Total:			46329	46340	362.0

Specific connected load: $6.16 \text{ W/m}^2 = 0.98 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 58.75 m^2)

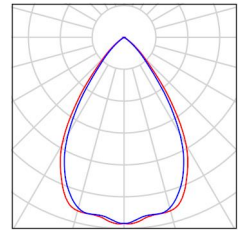


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Room 1 / Luminaire parts list

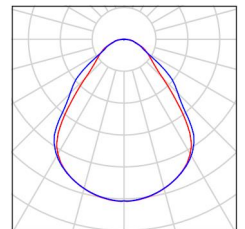
3 Pieces LEDVANCE GmbH 4058075459137 DL UGR19
DN155 PFM 14W 830 WT IP54
Article No.: 4058075459137
Luminous flux (Luminaire): 1500 lm
Luminous flux (Lamps): 1500 lm
Luminaire Wattage: 14.0 W
Luminaire classification according to CIE: 100
CIE flux code: 89 99 100 100 100
Fitting: 1 x LED 3000K / CRI >= 80 (Correction
Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



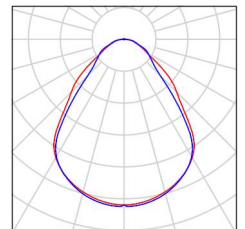
2 Pieces LEDVANCE GmbH 4099854014604 PL CMFT
600 P 28W 830 U19 PS
Article No.: 4099854014604
Luminous flux (Luminaire): 3642 lm
Luminous flux (Lamps): 3640 lm
Luminaire Wattage: 28.0 W
Luminaire classification according to CIE: 100
CIE flux code: 64 88 97 100 100
Fitting: 1 x User defined (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.



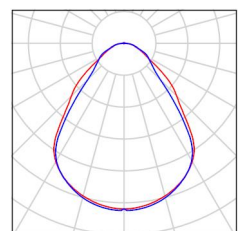
5 Pieces LEDVANCE GmbH 4099854015113 PL CMFT
600 P 33W 840 U19 PS
Article No.: 4099854015113
Luminous flux (Luminaire): 4318 lm
Luminous flux (Lamps): 4320 lm
Luminaire Wattage: 33.0 W
Luminaire classification according to CIE: 100
CIE flux code: 65 88 97 100 100
Fitting: 1 x User defined (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.



3 Pieces LEDVANCE GmbH 4099854015113 PL CMFT
600 P 33W 840 U19 PS
Article No.: 4099854015113
Luminous flux (Luminaire): 4318 lm
Luminous flux (Lamps): 4320 lm
Luminaire Wattage: 33.0 W
Luminaire classification according to CIE: 100
CIE flux code: 65 88 97 100 100
Fitting: 1 x LED 4000K / CRI >= 80 (Correction
Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.





Operator
Telephone
Fax
e-Mail

Room 1 / Photometric Results

Total Luminous Flux: 46329 lm
Total Load: 362.0 W
Maintenance factor: 0.80
Boundary Zone: 0.500 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	498	133	631	/	/
Tabula	325	133	458	/	/
Floor	392	160	552	20	35
Ceiling	1.42	137	139	70	31
Ceiling	50	113	164	70	36
Ceiling	0.00	156	156	70	35
Ceiling	373	122	494	70	110
Ceiling	0.00	180	180	70	40
Wall 1	198	135	333	90	95
Wall 2	125	150	275	90	79
Wall 3	135	135	270	90	77
Wall 4	101	136	237	90	68

Uniformity on the working plane

u_0 : 0.581 (1:2)

$E_{\min} / E_{\max}$: 0.432 (1:2)

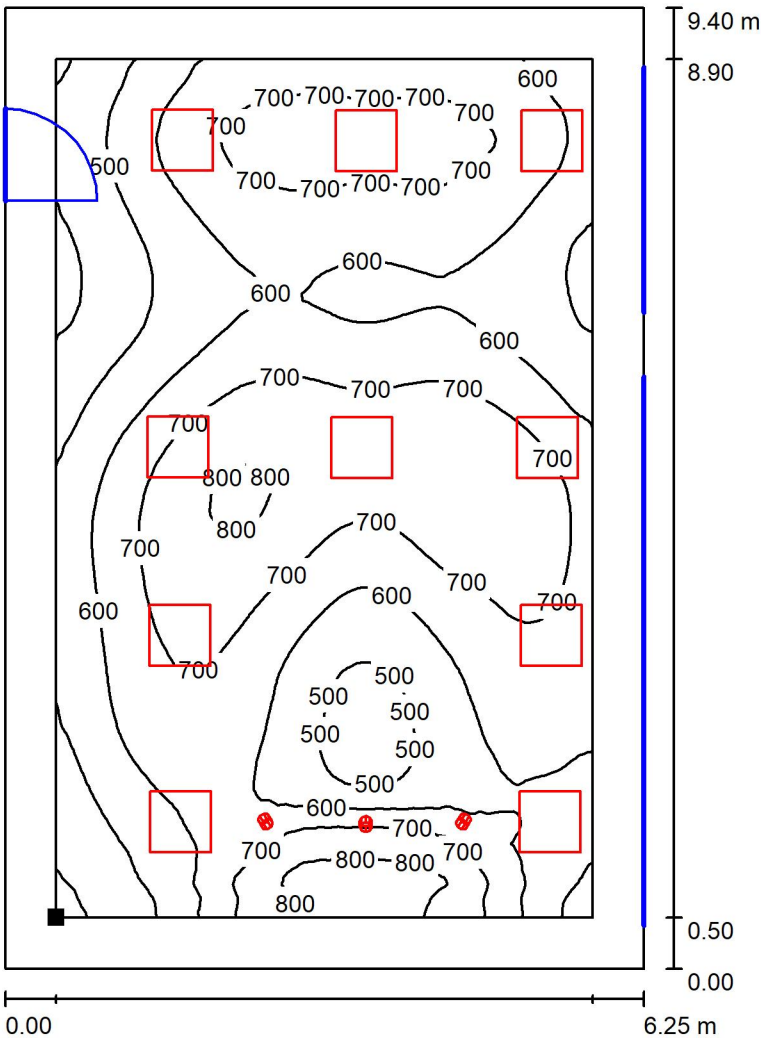
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.318, Ceiling / Working Plane: 0.242.

Specific connected load: $6.16 \text{ W/m}^2 = 0.98 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 58.75 m^2)



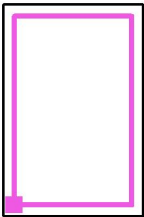
Operator
Telephone
Fax
e-Mail

Room 1 / Workplane / Isolines (E)



Values in Lux, Scale 1 : 74

Position of surface in room:
Working plane with 0.500 m
Boundary Zone
Marked point:
(0.500 m, 0.500 m, 0.750 m)



Grid: 128 x 128 Points

E_{av} [lx]
631

E_{min} [lx]
367

E_{max} [lx]
849

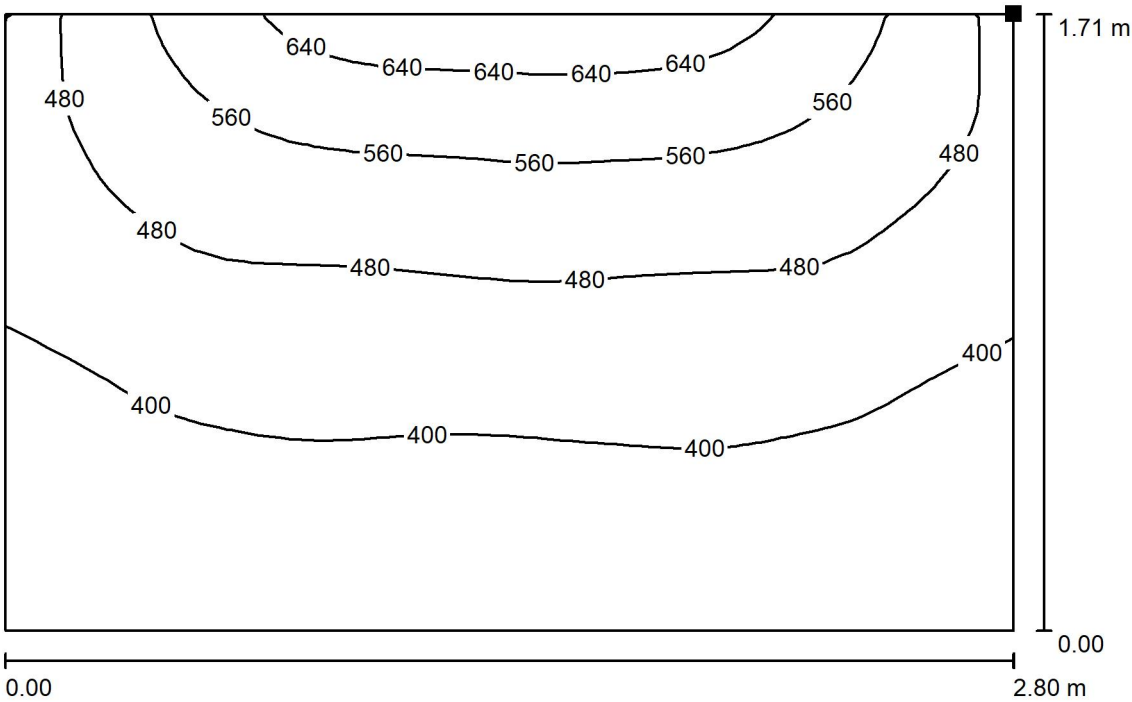
u_0
0.581

E_{min} / E_{max}
0.432



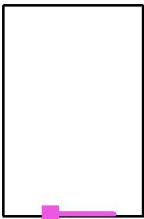
Operator
Telephone
Fax
e-Mail

Room 1 / Tabula / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 21

Position of surface in room:
Marked point:
(2.135 m, 0.100 m, 1.729 m)

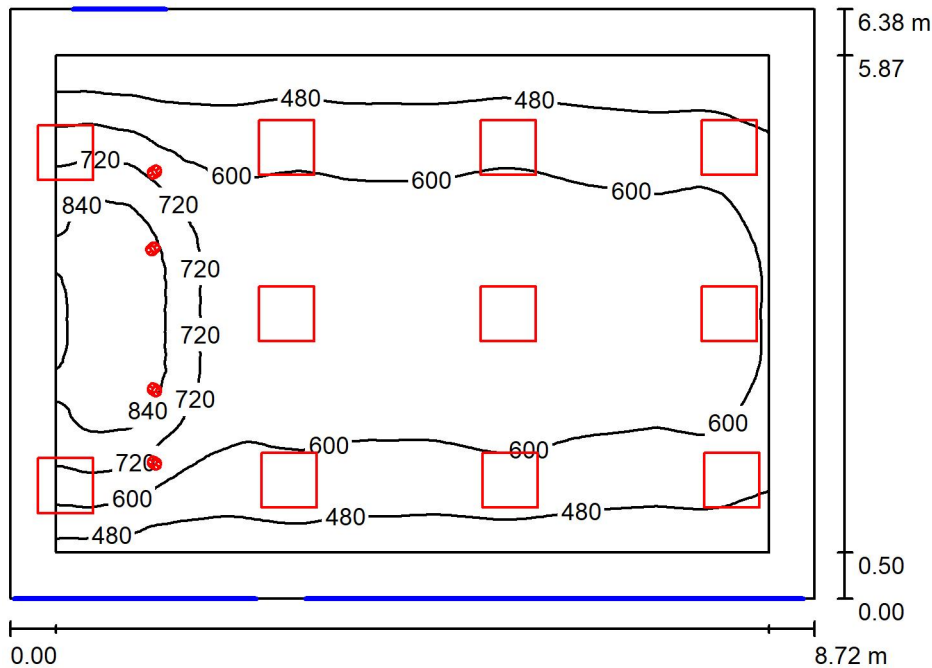


Grid: 32 x 32 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
458	336	702	0.735	0.479

Operator
Telephone
Fax
e-Mail

Room 4 / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:82

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	601	361	941	0.600
Floor	20	499	259	784	0.519
Ceiling	70	97	52	2667	0.531
Walls (4)	50	245	77	732	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.416, Ceiling / Working Plane: 0.162.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	LEDVANCE GmbH 4058075459137 DL UGR19 DN155 PFM 14W 830 WT IP54 (1.000)	1500	1500	14.0
2	11	LEDVANCE GmbH 4099854014604 PL CMFT 600 P 28W 830 U19 PS (1.000)	3642	3640	28.0
Total:			46059	46040	364.0

Specific connected load: $6.54 \text{ W/m}^2 = 1.09 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 55.62 m^2)

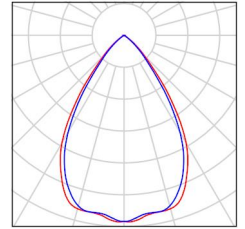


Operator
Telephone
Fax
e-Mail

Room 4 / Luminaire parts list

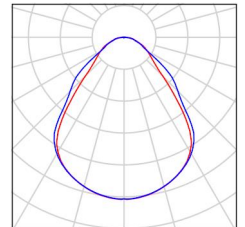
4 Pieces LEDVANCE GmbH 4058075459137 DL UGR19
DN155 PFM 14W 830 WT IP54
Article No.: 4058075459137
Luminous flux (Luminaire): 1500 lm
Luminous flux (Lamps): 1500 lm
Luminaire Wattage: 14.0 W
Luminaire classification according to CIE: 100
CIE flux code: 89 99 100 100 100
Fitting: 1 x LED 3000K / CRI >= 80 (Correction
Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



11 Pieces LEDVANCE GmbH 4099854014604 PL CMFT
600 P 28W 830 U19 PS
Article No.: 4099854014604
Luminous flux (Luminaire): 3642 lm
Luminous flux (Lamps): 3640 lm
Luminaire Wattage: 28.0 W
Luminaire classification according to CIE: 100
CIE flux code: 64 88 97 100 100
Fitting: 1 x User defined (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.





Operator
Telephone
Fax
e-Mail

Room 4 / Photometric Results

Total Luminous Flux: 46059 lm
Total Load: 364.0 W
Maintenance factor: 0.80
Boundary Zone: 0.500 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	518	84	601	/	/
Tabula	413	96	509	/	/
Floor	408	92	499	20	32
Ceiling	1.39	96	97	70	22
Wall 1	115	92	208	50	33
Wall 2	158	84	242	50	38
Wall 3	115	89	204	50	32
Wall 4	259	91	351	50	56

Uniformity on the working plane

u0: 0.600 (1:2)

$E_{\min} / E_{\max}$: 0.383 (1:3)

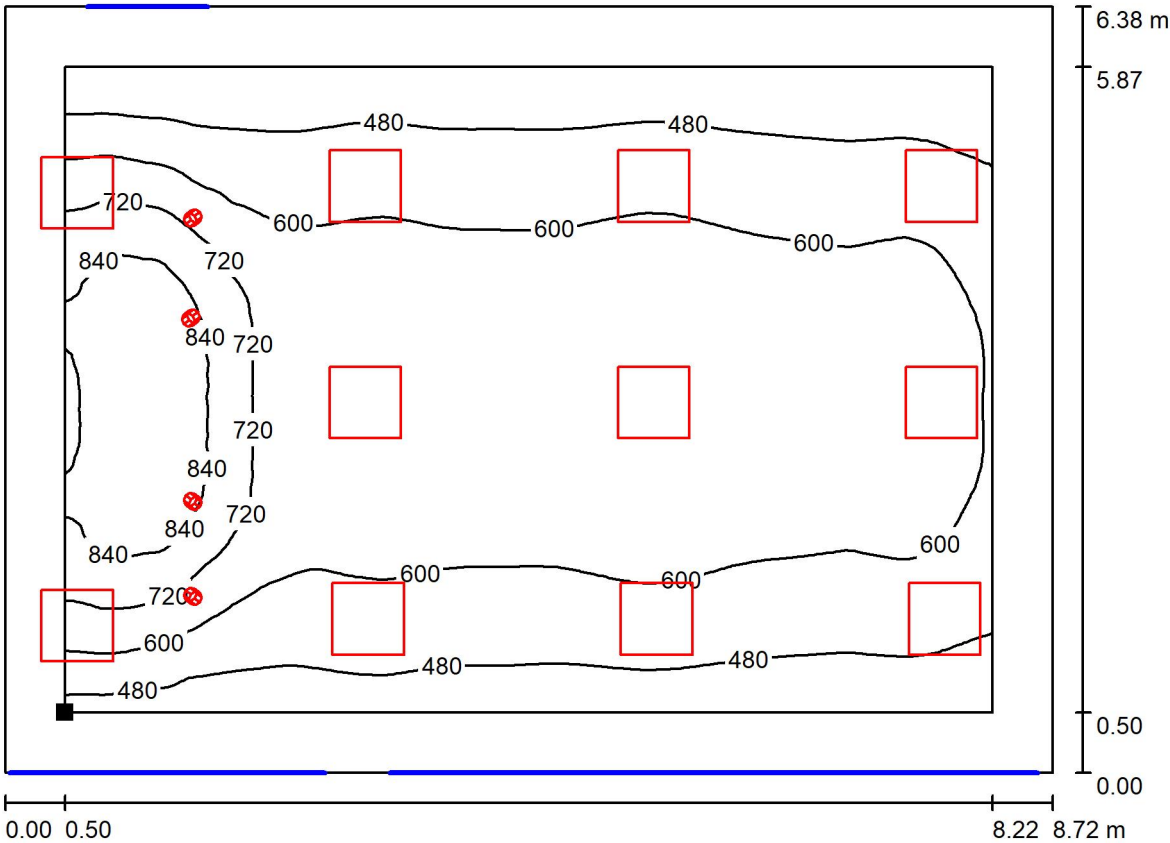
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.416, Ceiling / Working Plane: 0.162.

Specific connected load: $6.54 \text{ W/m}^2 = 1.09 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 55.62 m^2)



Operator
Telephone
Fax
e-Mail

Room 4 / Workplane / Isolines (E)



Values in Lux, Scale 1 : 63

Position of surface in room:
Working plane with 0.500 m
Boundary Zone
Marked point:
(0.500 m, 0.500 m, 0.750 m)



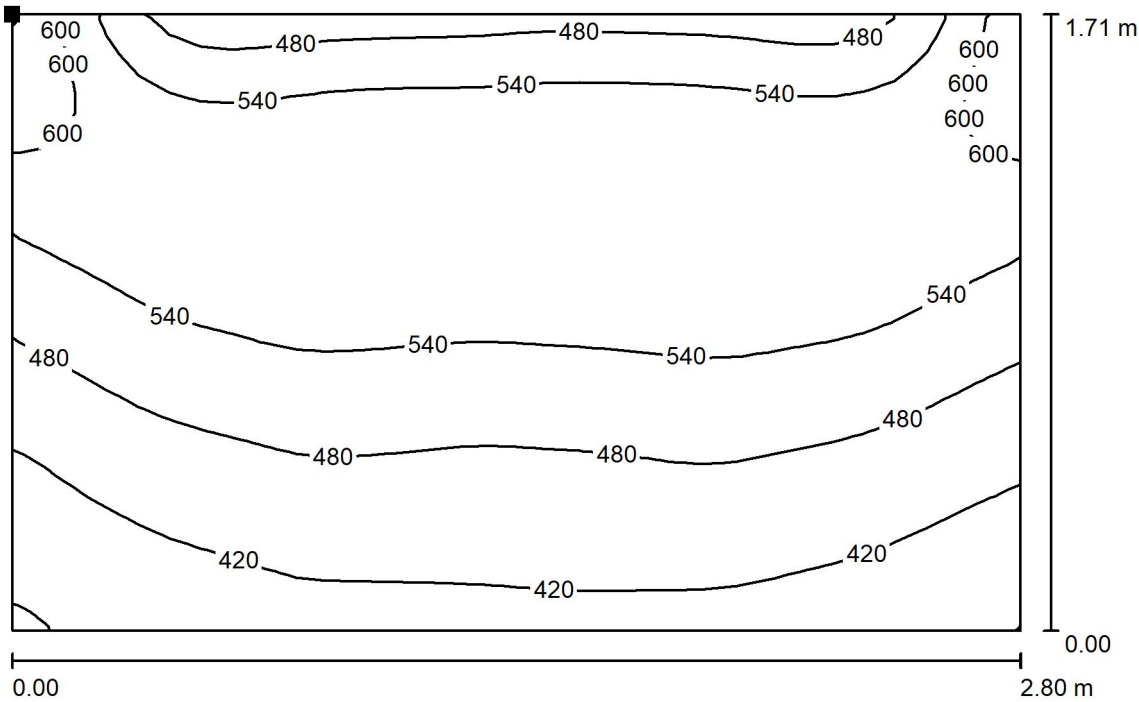
Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
601	361	941	0.600	0.383



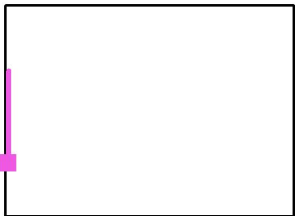
Operator
Telephone
Fax
e-Mail

Room 4 / Tabula / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 21

Position of surface in room:
Marked point:
(0.100 m, 1.600 m, 2.247 m)



Grid: 32 x 32 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
509	357	655	0.700	0.545