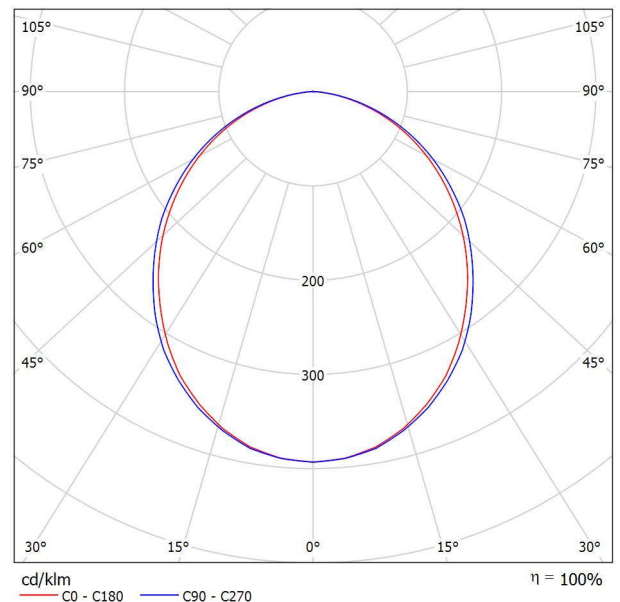


Operator  
Telephone  
Fax  
e-Mail

## VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K / 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: 50 81 96 100 100

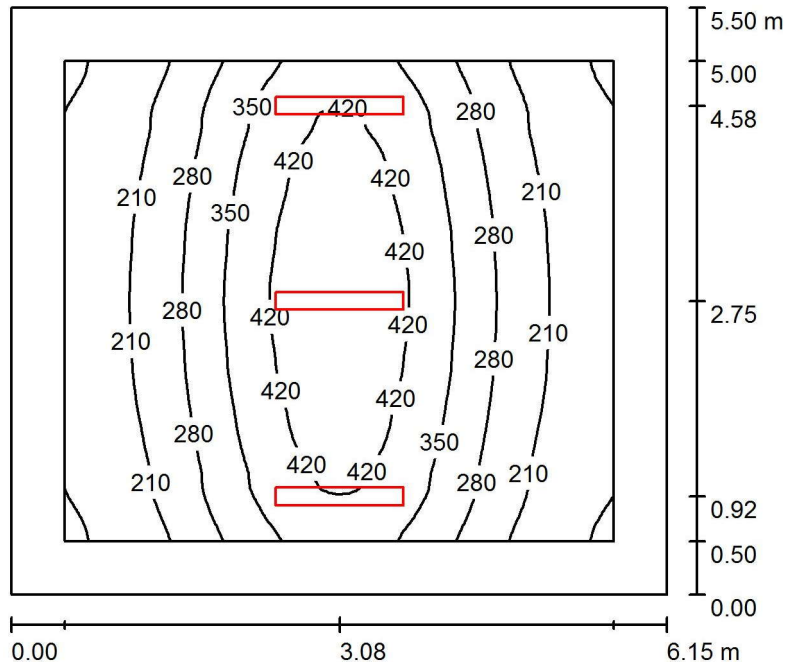
Luminous emittance 1:

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	19.1	20.4	19.4	20.7	20.9	19.5	20.7	19.7	21.0	21.2
	3H	20.8	21.9	21.1	22.2	22.5	21.1	22.3	21.5	22.6	22.8
	4H	21.3	22.4	21.7	22.7	23.0	21.7	22.8	22.1	23.1	23.4
	6H	21.7	22.7	22.1	23.0	23.3	22.1	23.1	22.4	23.4	23.7
	8H	21.8	22.8	22.2	23.1	23.4	22.2	23.2	22.5	23.5	23.8
	12H	21.8	22.8	22.2	23.1	23.4	22.2	23.1	22.6	23.5	23.8
4H	2H	19.7	20.8	20.1	21.1	21.4	20.0	21.1	20.3	21.3	21.6
	3H	21.6	22.5	21.9	22.8	23.2	21.9	22.8	22.2	23.1	23.4
	4H	22.3	23.1	22.7	23.4	23.8	22.6	23.4	23.0	23.8	24.1
	6H	22.7	23.4	23.1	23.8	24.2	23.1	23.8	23.5	24.2	24.6
	8H	22.9	23.5	23.3	23.9	24.3	23.2	23.9	23.6	24.3	24.7
	12H	22.9	23.5	23.4	23.9	24.4	23.3	23.9	23.7	24.3	24.7
8H	4H	22.5	23.2	23.0	23.6	24.0	22.8	23.5	23.2	23.9	24.3
	6H	23.1	23.6	23.6	24.1	24.5	23.4	23.9	23.9	24.4	24.8
	8H	23.3	23.8	23.8	24.2	24.7	23.6	24.1	24.1	24.5	25.0
	12H	23.4	23.8	23.9	24.3	24.8	23.7	24.1	24.2	24.6	25.1
	4H	22.5	23.1	23.0	23.6	24.0	22.8	23.4	23.3	23.8	24.3
	6H	23.2	23.6	23.6	24.1	24.6	23.5	23.9	23.9	24.4	24.8
12H	8H	23.4	23.8	23.9	24.2	24.7	23.7	24.1	24.2	24.5	25.0
	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 / -0.4					+0.2 / -0.4					
S = 2.0H	+0.5 / -0.8					+0.5 / -0.7					
Standard table	BK05					BK05					
Correction Summand	0.7					1.0					
Corrected Glare Indices referring to 4559lm Total Luminous Flux											



Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.07 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:71

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	296	130	476	0.439
Floor	20	221	110	349	0.496
Ceiling	70	54	33	78	0.615
Walls (4)	50	121	40	420	/

### Workplane:

Height: 0.750 m  
Grid: 64 x 64 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall  
Lower Wall  
(CIE, SHR = 1.00.)

### Lengthways-

21  
22

### Across

21  
22

### to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.407, Ceiling / Working Plane: 0.182.  
Proportion of points with less than 400 lx (for IEQ-7): 78.03%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	VYR TYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K (1.000)	4561	4559	46.0
Total:			13684	13677	138.0

Specific connected load:  $4.08 \text{ W/m}^2 = 1.38 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $33.82 \text{ m}^2$ )

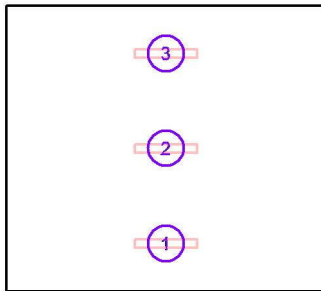


Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.07 / Luminaires (coordinates list)

### VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K

4561 lm, 46.0 W, 1 x 4 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	3.080	0.920	3.125	0.0	0.0	90.0
2	3.080	2.750	3.125	0.0	0.0	90.0
3	3.080	4.580	3.125	0.0	0.0	90.0

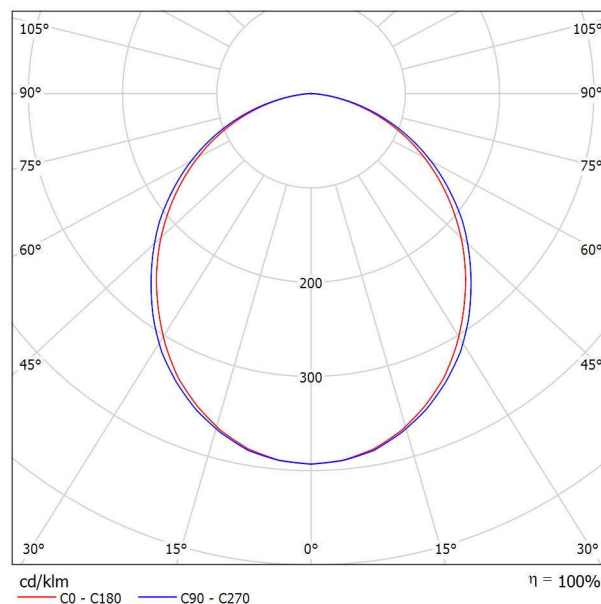


Operator  
Telephone  
Fax  
e-Mail

## VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K / 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: 50 81 96 100 100

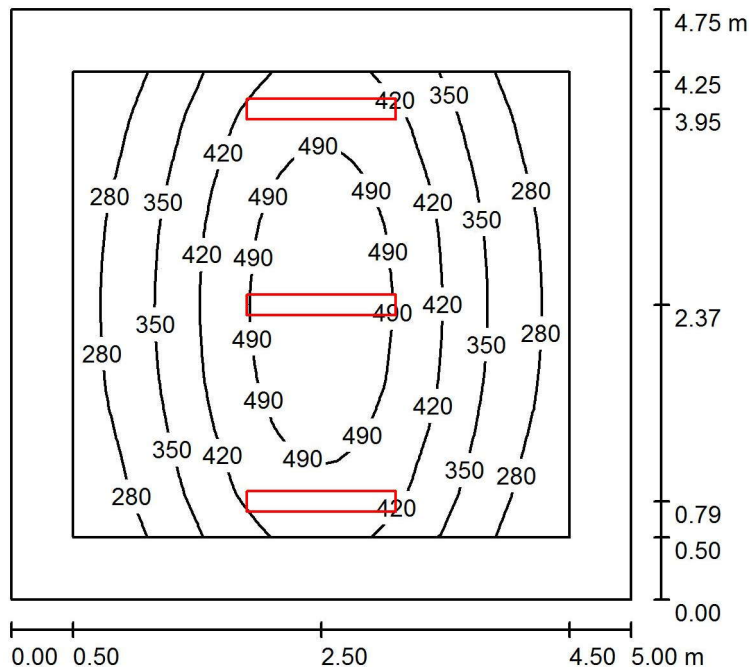
Luminous emittance 1:

Glare Evaluation According to UGR											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19.1	20.4	19.4	20.7	20.9	19.5	20.7	19.7	21.0	21.2
	3H	20.8	21.9	21.1	22.2	22.5	21.1	22.3	21.5	22.6	22.8
	4H	21.3	22.4	21.7	22.7	23.0	21.7	22.8	22.1	23.1	23.4
	6H	21.7	22.7	22.1	23.0	23.3	22.1	23.1	22.4	23.4	23.7
	8H	21.8	22.8	22.2	23.1	23.4	22.2	23.2	22.5	23.5	23.8
4H	12H	21.8	22.8	22.2	23.1	23.4	22.2	23.1	22.6	23.5	23.8
	2H	19.7	20.8	20.1	21.1	21.4	20.0	21.1	20.3	21.3	21.6
	3H	21.6	22.5	21.9	22.8	23.2	21.9	22.8	22.2	23.1	23.4
	4H	22.3	23.1	22.7	23.4	23.8	22.6	23.4	23.0	23.8	24.1
	6H	22.7	23.4	23.1	23.8	24.2	23.1	23.8	23.5	24.2	24.6
8H	8H	22.9	23.5	23.3	23.9	24.3	23.2	23.9	23.6	24.3	24.7
	12H	22.9	23.5	23.4	23.9	24.4	23.3	23.9	23.7	24.3	24.7
	4H	22.5	23.2	23.0	23.6	24.0	22.8	23.5	23.2	23.9	24.3
	6H	23.1	23.6	23.6	24.1	24.5	23.4	23.9	23.9	24.4	24.8
	8H	23.3	23.8	23.8	24.2	24.7	23.6	24.1	24.1	24.5	25.0
12H	12H	23.4	23.8	23.9	24.3	24.8	23.7	24.1	24.2	24.6	25.1
	4H	22.5	23.1	23.0	23.6	24.0	22.8	23.4	23.3	23.8	24.3
	6H	23.2	23.6	23.6	24.1	24.6	23.5	23.9	23.9	24.4	24.8
	8H	23.4	23.8	23.9	24.2	24.7	23.7	24.1	24.2	24.5	25.0
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 / -0.4					+0.2 / -0.4				
S = 2.0H		+0.5 / -0.8					+0.5 / -0.7				
Standard table		BK05					BK05				
Correction Summand		0.7					1.0				
Corrected Glare Indices referring to 4559lm Total Luminous Flux											



Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.17 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:61

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	385	213	537	0.553
Floor	20	278	162	393	0.582
Ceiling	70	74	48	98	0.648
Walls (4)	50	167	55	547	/

### Workplane:

Height: 0.750 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall  
Lower Wall  
(CIE, SHR = 1.00.)

### Lengthways-

21  
21

### Across

21  
21

### to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.444, Ceiling / Working Plane: 0.192.  
Proportion of points with less than 400 lx (for IEQ-7): 52.73%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K (1.000)	4561	4559	46.0
Total:			13684	13677	138.0

Specific connected load:  $5.81 \text{ W/m}^2 = 1.51 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $23.75 \text{ m}^2$ )

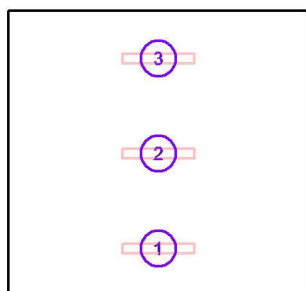


Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.17 / Luminaires (coordinates list)

### VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K

4561 lm, 46.0 W, 1 x 4 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	2.500	0.790	3.125	0.0	0.0	90.0
2	2.500	2.370	3.125	0.0	0.0	90.0
3	2.500	3.950	3.125	0.0	0.0	90.0

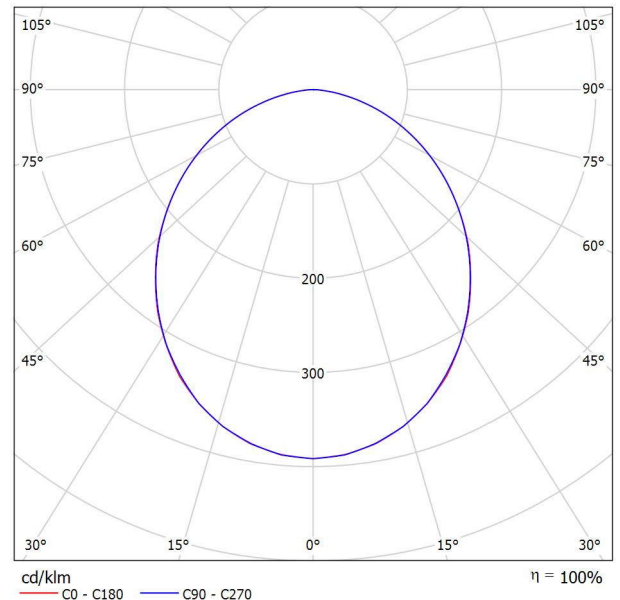


Operator  
Telephone  
Fax  
e-Mail

## VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K / 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: 50 81 96 100 100

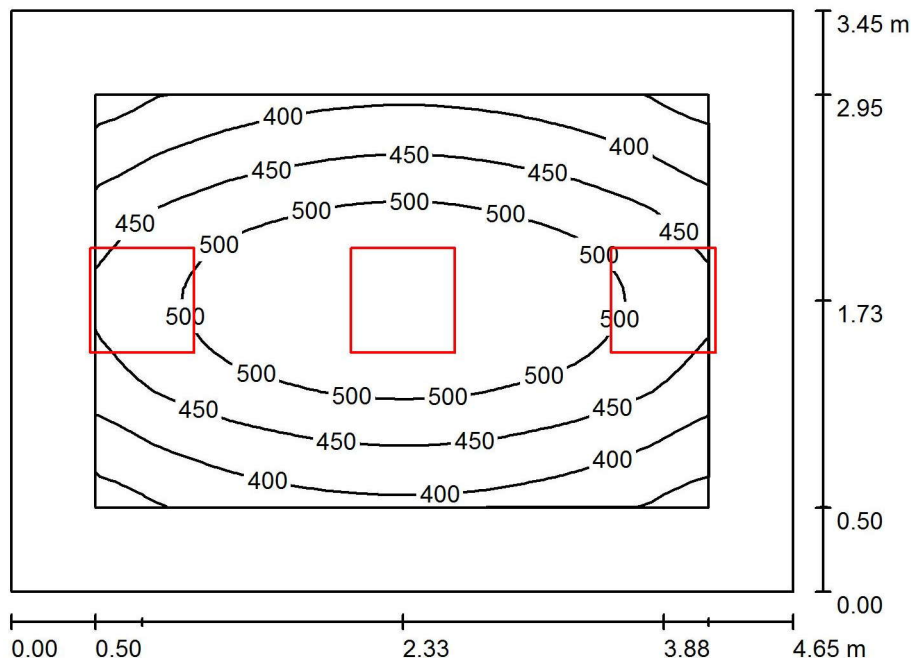
### Luminous emittance 1:

Glare Evaluation According to UGR											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.3	18.6	17.6	18.8	19.1	17.3	18.6	17.6	18.8	19.0
	3H	19.0	20.1	19.3	20.4	20.7	19.0	20.1	19.3	20.4	20.6
	4H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2
	6H	19.9	20.9	20.3	21.2	21.5	19.9	20.9	20.3	21.2	21.5
	8H	20.0	21.0	20.4	21.3	21.6	20.0	21.0	20.4	21.3	21.6
4H	12H	20.1	21.0	20.4	21.3	21.6	20.1	21.0	20.4	21.3	21.7
	2H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5
	3H	19.7	20.7	20.1	21.0	21.3	19.7	20.6	20.1	21.0	21.3
	4H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0
	6H	20.9	21.6	21.3	22.0	22.4	20.9	21.6	21.3	22.0	22.4
8H	12H	21.1	21.7	21.5	22.1	22.5	21.1	21.7	21.5	22.1	22.5
	2H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6
	4H	20.7	21.4	21.1	21.7	22.2	20.7	21.3	21.1	21.7	22.2
	6H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7
	8H	21.5	22.0	22.0	22.4	22.9	21.5	22.0	22.0	22.4	22.9
12H	12H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0
	4H	20.7	21.3	21.2	21.7	22.1	20.7	21.3	21.1	21.7	22.1
	6H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7
8H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9	
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 / -0.4					+0.2 / -0.4				
S = 2.0H		+0.5 / -0.8					+0.4 / -0.8				
Standard table		BK05					BK05				
Correction Summand		-0.8					-0.8				
Corrected Glare Indices referring to 4175lm Total Luminous Flux											



Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.03 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:45

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	458	330	554	0.720
Floor	20	319	210	403	0.660
Ceiling	70	94	62	116	0.656
Walls (4)	50	215	70	664	/

### Workplane:

Height: 0.750 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.492, Ceiling / Working Plane: 0.205.  
Proportion of points with less than 400 lx (for IEQ-7): 18.46%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K (1.000)	4177	4175	42.0
Total:			12530	12525	126.0

Specific connected load:  $7.85 \text{ W/m}^2 = 1.72 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $16.04 \text{ m}^2$ )



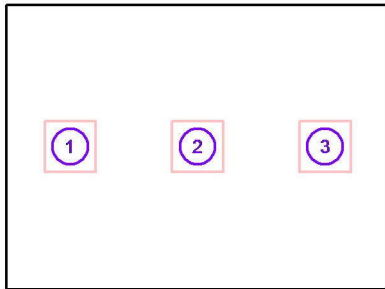


Operator  
Telephone  
Fax  
e-Mail

### Miestnosť 1.03 / Luminaires (coordinates list)

#### VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K

4177 lm, 42.0 W, 1 x 4 x LED (Correction Factor 1.000).



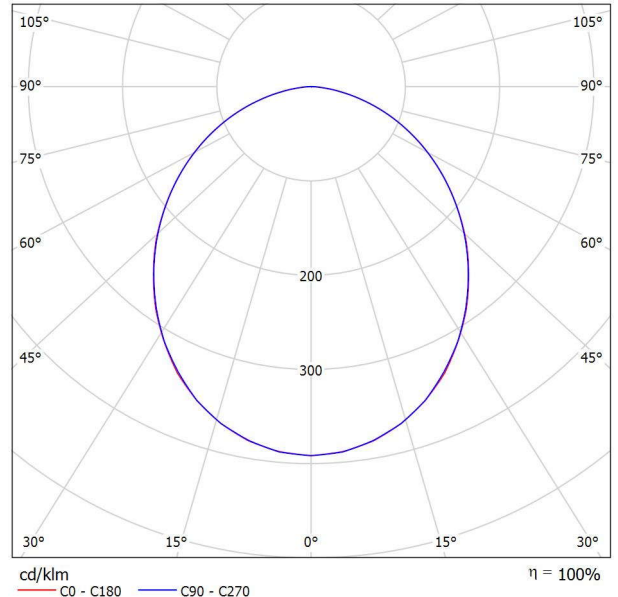
No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	0.780	1.730	3.125	0.0	0.0	90.0
2	2.330	1.730	3.125	0.0	0.0	90.0
3	3.880	1.730	3.125	0.0	0.0	90.0

Operator  
Telephone  
Fax  
e-Mail

**VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K / Luminaire Data Sheet**

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



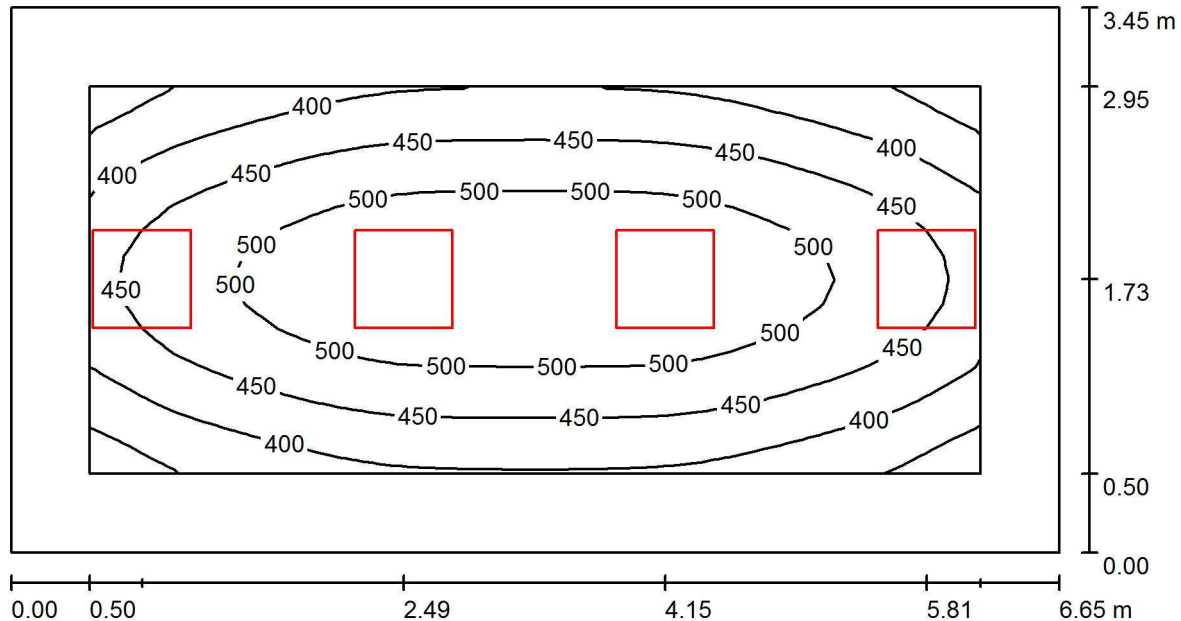
Luminaire classification according to CIE: 100  
CIE flux code: 50 81 96 100 100

Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X                  Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	17.3	18.6	17.6	18.8	19.1	17.3	18.6	17.6	18.8	19.0	
	3H	19.0	20.1	19.3	20.4	20.7	19.0	20.1	19.3	20.4	20.6	
	4H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2	
	6H	19.9	20.9	20.3	21.2	21.5	19.9	20.9	20.3	21.2	21.5	
	8H	20.0	21.0	20.4	21.3	21.6	20.0	21.0	20.4	21.3	21.6	
	12H	20.1	21.0	20.4	21.3	21.6	20.1	21.0	20.4	21.3	21.7	
4H	2H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5	
	3H	19.7	20.7	20.1	21.0	21.3	19.7	20.6	20.1	21.0	21.3	
	4H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0	
	6H	20.9	21.6	21.3	22.0	22.4	20.9	21.6	21.3	22.0	22.4	
	8H	21.1	21.7	21.5	22.1	22.5	21.1	21.7	21.5	22.1	22.5	
	12H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6	
8H	4H	20.7	21.4	21.1	21.7	22.2	20.7	21.3	21.1	21.7	22.2	
	6H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7	
	8H	21.5	22.0	22.0	22.4	22.9	21.5	22.0	22.0	22.4	22.9	
	12H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.5	
	4H	20.7	21.3	21.2	21.7	22.1	20.7	21.3	21.1	21.7	22.1	
	6H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7	
8H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9		
Variation of the observer position for the luminaires distances 5												
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1					
S = 1.5H		+0.2 / -0.4					+0.2 / -0.4					
S = 2.0H		+0.5 / -0.8					+0.4 / -0.8					
Standard table Correction Summand		BK05  -0.8					BK05  -0.8					
Corrected Glare Indices referring to 4175lm Total Luminous Flux												

Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.05 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:48

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	457	319	545	0.699
Floor	20	330	206	418	0.626
Ceiling	70	90	61	111	0.672
Walls (4)	50	210	70	581	/

### Workplane:

Height: 0.750 m  
Grid: 32 x 16 Points  
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.473, Ceiling / Working Plane: 0.197.  
Proportion of points with less than 400 lx (for IEQ-7): 18.55%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	4	VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K (1.000)	4177	4175	42.0
Total:			16707	16700	168.0

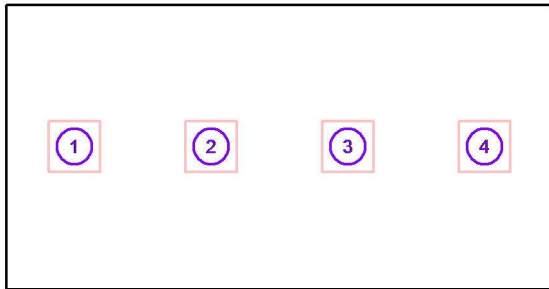
Specific connected load:  $7.32 \text{ W/m}^2 = 1.60 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $22.94 \text{ m}^2$ )



Operator  
Telephone  
Fax  
e-Mail

**Miestnost' 1.05 / Luminaires (coordinates list)****VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K**

4177 lm, 42.0 W, 1 x 4 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	0.830	1.730	3.125	0.0	0.0	90.0
2	2.490	1.730	3.125	0.0	0.0	90.0
3	4.150	1.730	3.125	0.0	0.0	90.0
4	5.810	1.730	3.125	0.0	0.0	90.0

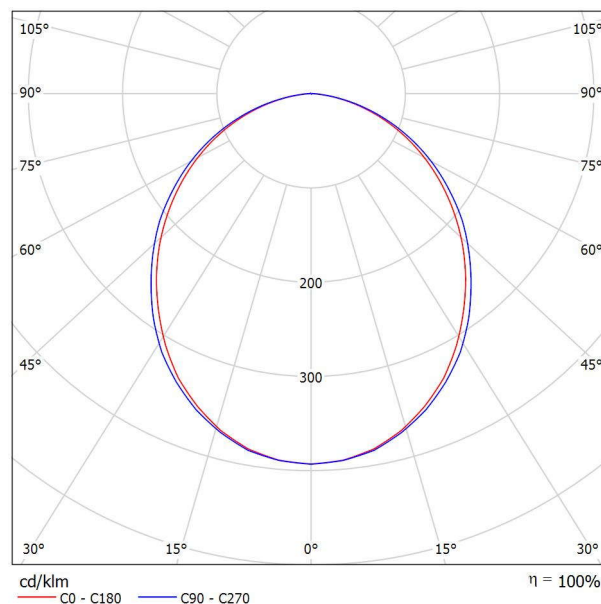


Operator  
Telephone  
Fax  
e-Mail

## VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K / 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: 50 81 96 100 100

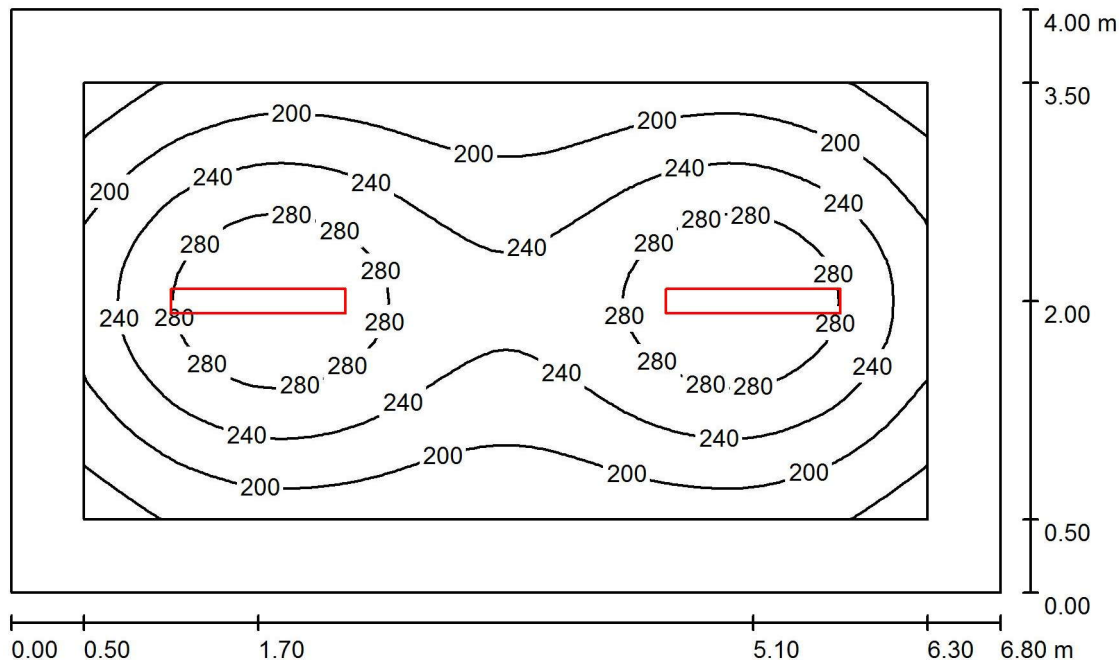
Luminous emittance 1:

Glare Evaluation According to UGR											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19.1	20.4	19.4	20.7	20.9	19.5	20.7	19.7	21.0	21.2
	3H	20.8	21.9	21.1	22.2	22.5	21.1	22.3	21.5	22.6	22.8
	4H	21.3	22.4	21.7	22.7	23.0	21.7	22.8	22.1	23.1	23.4
	6H	21.7	22.7	22.1	23.0	23.3	22.1	23.1	22.4	23.4	23.7
	8H	21.8	22.8	22.2	23.1	23.4	22.2	23.2	22.5	23.5	23.8
	12H	21.8	22.8	22.2	23.1	23.4	22.2	23.1	22.6	23.5	23.8
4H	2H	19.7	20.8	20.1	21.1	21.4	20.0	21.1	20.3	21.3	21.6
	3H	21.6	22.5	21.9	22.8	23.2	21.9	22.8	22.2	23.1	23.4
	4H	22.3	23.1	22.7	23.4	23.8	22.6	23.4	23.0	23.8	24.1
	6H	22.7	23.4	23.1	23.8	24.2	23.1	23.8	23.5	24.2	24.6
	8H	22.9	23.5	23.3	23.9	24.3	23.2	23.9	23.6	24.3	24.7
	12H	22.9	23.5	23.4	23.9	24.4	23.3	23.9	23.7	24.3	24.7
8H	4H	22.5	23.2	23.0	23.6	24.0	22.8	23.5	23.2	23.9	24.3
	6H	23.1	23.6	23.6	24.1	24.5	23.4	23.9	23.9	24.4	24.8
	8H	23.3	23.8	23.8	24.2	24.7	23.6	24.1	24.1	24.5	25.0
	12H	23.4	23.8	23.9	24.3	24.8	23.7	24.1	24.2	24.6	25.1
	4H	22.5	23.1	23.0	23.6	24.0	22.8	23.4	23.3	23.8	24.3
	6H	23.2	23.6	23.6	24.1	24.6	23.5	23.9	23.9	24.4	24.8
12H	8H	23.4	23.8	23.9	24.2	24.7	23.7	24.1	24.2	24.5	25.0
	12H	23.4	23.8	23.9	24.2	24.7	23.7	24.1	24.2	24.5	25.0
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 / -0.4					+0.2 / -0.4				
S = 2.0H		+0.5 / -0.8					+0.5 / -0.7				
Standard table		BK05					BK05				
Correction Summand		0.7					1.0				
Corrected Glare Indices referring to 4559lm Total Luminous Flux											



Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 1.06 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:52

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	232	139	318	0.596
Floor	20	168	100	221	0.595
Ceiling	70	42	29	49	0.693
Walls (4)	50	97	33	178	/

### Workplane:

Height: 0.750 m  
Grid: 64 x 32 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall 21  
Lower Wall 20  
(CIE, SHR = 1.00.)

### Lengthways-

21  
20  
20

### Across

22  
20  
20

### to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.417, Ceiling / Working Plane: 0.179.  
Proportion of points with less than 400 lx (for IEQ-7): 100.00%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K (1.000)	4561	4559	46.0
Total:			9122	9118	92.0

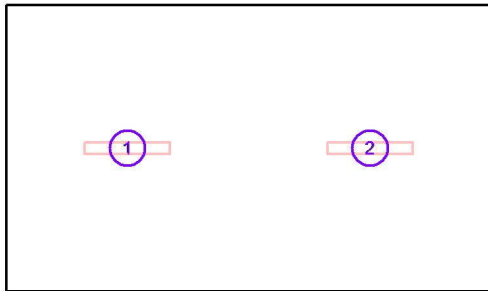
Specific connected load:  $3.38 \text{ W/m}^2 = 1.46 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $27.20 \text{ m}^2$ )



Operator  
Telephone  
Fax  
e-Mail

**Miestnosť 1.06 / Luminaires (coordinates list)****VYRTYCH a.s. VIF-03-2015-G GRIFON-LED-6280-4K**

4561 lm, 46.0 W, 1 x 4 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	1.700	2.000	3.125	0.0	0.0	90.0
2	5.100	2.000	3.125	0.0	0.0	90.0

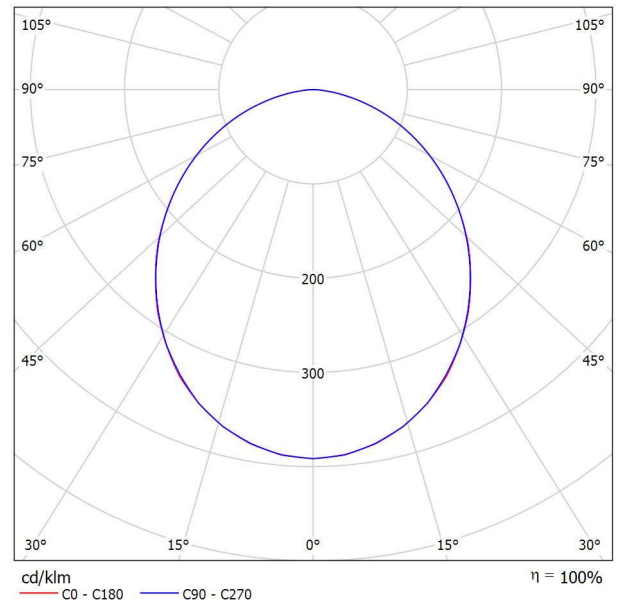


Operator  
Telephone  
Fax  
e-Mail

## VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K / 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: 50 81 96 100 100

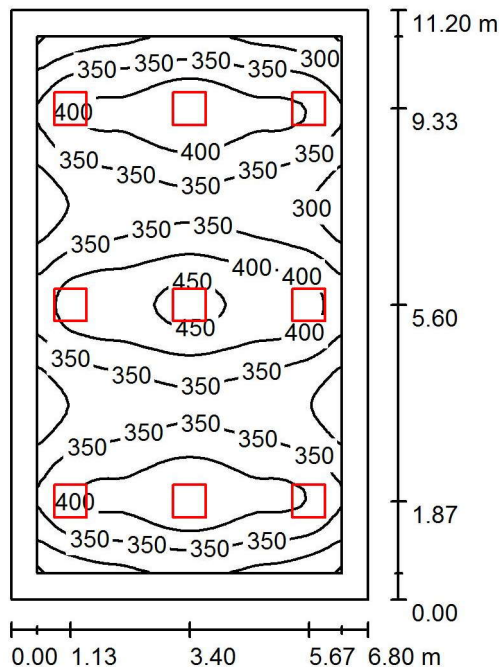
### Luminous emittance 1:

Glare Evaluation According to UGR											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	17.3	18.6	17.6	18.8	19.1	17.3	18.6	17.6	18.8	19.0
	3H	19.0	20.1	19.3	20.4	20.7	19.0	20.1	19.3	20.4	20.6
	4H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2
	6H	19.9	20.9	20.3	21.2	21.5	19.9	20.9	20.3	21.2	21.5
	8H	20.0	21.0	20.4	21.3	21.6	20.0	21.0	20.4	21.3	21.6
4H	12H	20.1	21.0	20.4	21.3	21.6	20.1	21.0	20.4	21.3	21.7
	2H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5
	3H	19.7	20.7	20.1	21.0	21.3	19.7	20.6	20.1	21.0	21.3
	4H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0
	6H	20.9	21.6	21.3	22.0	22.4	20.9	21.6	21.3	22.0	22.4
8H	12H	21.1	21.7	21.5	22.1	22.5	21.1	21.7	21.5	22.1	22.5
	2H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5
	3H	19.7	20.7	20.1	21.0	21.3	19.7	20.6	20.1	21.0	21.3
	4H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0
	6H	20.9	21.6	21.3	22.0	22.4	20.9	21.6	21.3	22.0	22.4
12H	12H	21.1	21.7	21.5	22.1	22.5	21.1	21.7	21.5	22.1	22.5
	2H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5
	3H	19.7	20.7	20.1	21.0	21.3	19.7	20.6	20.1	21.0	21.3
	4H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0
	6H	20.9	21.6	21.3	22.0	22.4	20.9	21.6	21.3	22.0	22.4
Variation of the observer position for the luminaires distances S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.4					+0.2 / -0.4				
S = 2.0H		+0.5 / -0.8					+0.4 / -0.8				
Standard table Correction Summand		BK05 -0.8					BK05 -0.8				
Corrected Glare Indices referring to 4175lm Total Luminous Flux											



Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 2.03 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:144

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	365	246	471	0.676
Floor	20	305	168	389	0.552
Ceiling	70	72	57	80	0.788
Walls (4)	50	172	62	343	/

### Workplane:

Height: 0.750 m  
Grid: 64 x 64 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall  
Lower Wall  
(CIE, SHR = 1.00.)

### Lengthways-

21  
21

### Across

21  
21

### to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.473, Ceiling / Working Plane: 0.198.  
Proportion of points with less than 400 lx (for IEQ-7): 72.07%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	9	VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K (1.000)	4177	4175	42.0
Total:			37591	37575	378.0

Specific connected load:  $4.96 \text{ W/m}^2 = 1.36 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $76.16 \text{ m}^2$ )

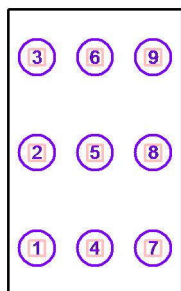


Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 2.03 / Luminaires (coordinates list)

### VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K

4177 lm, 42.0 W, 1 x 4 x LED (Correction Factor 1.000).



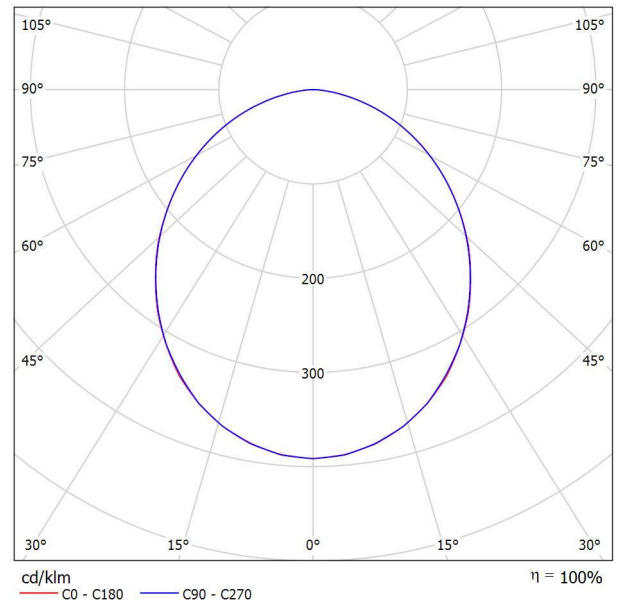
No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	1.130	1.870	3.125	0.0	0.0	90.0
2	1.130	5.600	3.125	0.0	0.0	90.0
3	1.130	9.330	3.125	0.0	0.0	90.0
4	3.400	1.870	3.125	0.0	0.0	90.0
5	3.400	5.600	3.125	0.0	0.0	90.0
6	3.400	9.330	3.125	0.0	0.0	90.0
7	5.670	1.870	3.125	0.0	0.0	90.0
8	5.670	5.600	3.125	0.0	0.0	90.0
9	5.670	9.330	3.125	0.0	0.0	90.0

Operator  
Telephone  
Fax  
e-Mail

**VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K / 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: 50 81 96 100 100

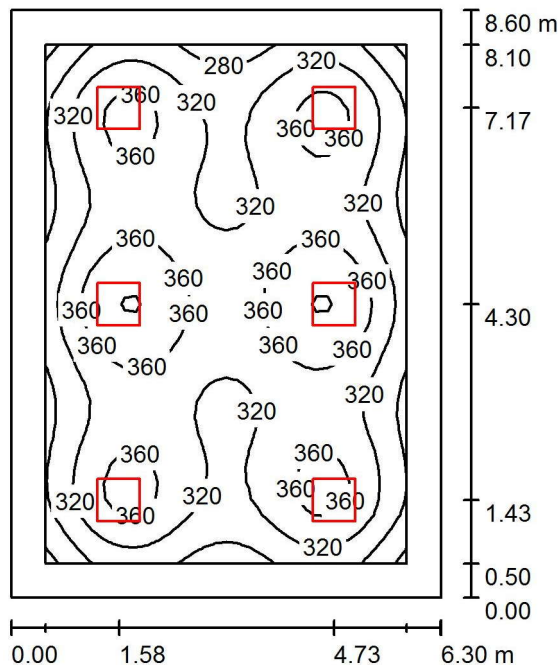
Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	30	70	70	50	50	30
p Walls		50	30	50	30	30	30	50	30	50	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	17.3	18.6	17.6	18.8	19.1	17.3	18.6	17.6	18.8	19.0	
	3H	19.0	20.1	19.3	20.4	20.7	19.0	20.1	19.3	20.4	20.6	
	4H	19.5	20.6	19.9	20.9	21.2	19.5	20.6	19.9	20.9	21.2	
	6H	19.9	20.9	20.3	21.2	21.5	19.9	20.9	20.3	21.2	21.5	
	8H	20.0	21.0	20.4	21.3	21.6	20.0	21.0	20.4	21.3	21.6	
	12H	20.1	21.0	20.4	21.3	21.6	20.1	21.0	20.4	21.3	21.7	
4H	2H	17.8	18.9	18.2	19.2	19.5	17.8	18.9	18.2	19.2	19.5	
	3H	19.7	20.7	20.1	21.0	21.3	19.7	20.6	20.1	21.0	21.3	
	4H	20.4	21.3	20.8	21.6	22.0	20.4	21.3	20.8	21.6	22.0	
	6H	20.9	21.6	21.3	22.0	22.4	20.9	21.6	21.3	22.0	22.4	
	8H	21.1	21.7	21.5	22.1	22.5	21.1	21.7	21.5	22.1	22.5	
	12H	21.1	21.7	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6	
8H	4H	20.7	21.4	21.1	21.7	22.2	20.7	21.3	21.1	21.7	22.2	
	6H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7	
	8H	21.5	22.0	22.0	22.4	22.9	21.5	22.0	22.0	22.4	22.9	
	12H	21.6	22.0	22.1	22.5	23.0	21.6	22.0	22.1	22.5	23.0	
	4H	20.7	21.3	21.2	21.7	22.1	20.7	21.3	21.1	21.7	22.1	
	6H	21.3	21.8	21.8	22.3	22.7	21.3	21.8	21.8	22.3	22.7	
12H	8H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9	
	12H	21.6	22.0	22.1	22.4	22.9	21.6	22.0	22.1	22.4	22.9	
Variation of the observer position for the luminaires distances S												
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1					
S = 1.5H		+0.2 / -0.4					+0.2 / -0.4					
S = 2.0H		+0.5 / -0.8					+0.4 / -0.8					
Standard table Correction Summand		BK05  -0.8					BK05  -0.8					
Corrected Glare Indices referring to 4175lm Total Luminous Flux												



Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 2.04 / Summary



Height of Room: 3.125 m, Mounting Height: 3.125 m, Maintenance factor: 0.80

Values in Lux, Scale 1:111

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	332	232	406	0.698
Floor	20	269	165	329	0.612
Ceiling	70	65	45	70	0.700
Walls (4)	50	155	55	238	/

### Workplane:

Height: 0.750 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall  
Lower Wall  
(CIE, SHR = 1.00.)

### Lengthways-

20  
20

### Across

20  
20

### to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.466, Ceiling / Working Plane: 0.195.  
Proportion of points with less than 400 lx (for IEQ-7): 98.83%.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	6	VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K (1.000)	4177	4175	42.0
Total:			25060	25050	252.0

Specific connected load:  $4.65 \text{ W/m}^2 = 1.40 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $54.18 \text{ m}^2$ )

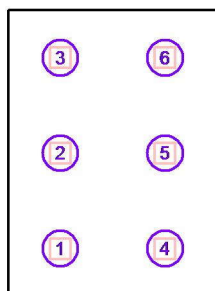


Operator  
Telephone  
Fax  
e-Mail

## Miestnosť 2.04 / Luminaires (coordinates list)

### VYRTYCH a.s. VIF-31-2014-G HOOVER2-SQ-LED-5880-3K

4177 lm, 42.0 W, 1 x 4 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	1.580	1.430	3.125	0.0	0.0	90.0
2	1.580	4.300	3.125	0.0	0.0	90.0
3	1.580	7.170	3.125	0.0	0.0	90.0
4	4.730	1.430	3.125	0.0	0.0	90.0
5	4.730	4.300	3.125	0.0	0.0	90.0
6	4.730	7.170	3.125	0.0	0.0	90.0