## **Cards print**

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

Date: 18.07.2019

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## Cards print / Luminaire parts list

20 Pieces

IBV Hungaria Kft. M18/237 PMMA 771 Favourite LED 2x4ft luminaire with Philips Fortimo Strip

HV5 2000lm/foot moduls with PMMA opal diffusor

Article No.: M18/237 PMMA

Luminous flux (Luminaire): 8117 lm Luminous flux (Lamps): 8910 lm Luminaire Wattage: 59.0 W

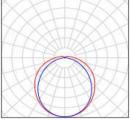
Luminaire classification according to CIE: 94

CIE flux code: 45 75 92 94 91

Fitting: 1 x Philips Fortimo LED Strip 2\*1ft 2000lm+2ft 4000lm 840 FC HV5 (Correction

Factor 1.000).

See our luminaire catalog for an image of the luminaire.

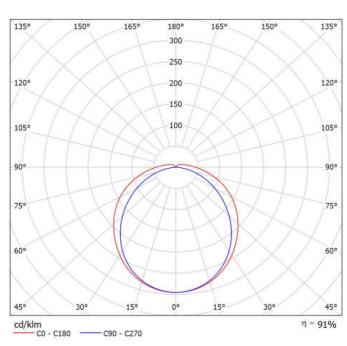


# IBV Hungaria Kft. M18/237 PMMA 771 Favourite LED 2x4ft luminaire with Philips Fortimo Strip HV5 2000lm/foot moduls with PMMA opal diffusor / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminaire classification according to CIE: 94 CIE flux code: 45 75 92 94 91

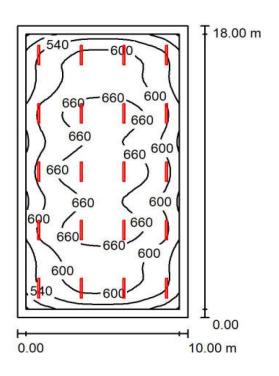
#### Luminous emittance 1:



#### Luminous emittance 1:

o Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
o 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 3H 4H 6H 8H	21.1 23.0 23.8 24.6 24.9	22.3 24.2 24.9 25.6 25.9	21.4 23.4 24.3 25.0 25.3	22.7 24.5 25.3 26.0 26.3	23.0 24.9 25.7 26.4 26.7	20.7 22.3 22.8 23.2 23.3	22.0 23.5 23.9 24.2 24.3	21.1 22.7 23.3 23.7 23.8	22.3 23.8 24.3 24.6 24.7	22. 24. 24. 25. 25.
4Н	12H 2H 3H 4H 6H 8H 12H	25.2 21.5 23.7 24.6 25.5 25.9 26.3	26.1 22.6 24.6 25.5 26.3 26.6 26.9	25.6 21.9 24.1 25.1 26.0 26.5 26.8	26.5 23.0 25.0 25.9 26.8 27.1 27.4	27.0 23.4 25.5 26.4 27.3 27.7 28.0	23.3 21.2 23.0 23.8 24.2 24.4 24.5	24.3 24.0 24.6 25.0 25.1 25.1	23.8 21.7 23.5 24.2 24.8 24.9 25.0	24.7 22.7 24.4 25.0 25.5 25.6 25.6	25. 24. 25. 26. 26. 26.
8H	4H 6H 8H 12H	24.9 25.9 26.4 26.9	25.6 26.5 26.9 27.4	25.4 26.5 27.0 27.5	26.1 27.0 27.5 27.9	26.6 27.6 28.1 28.6	24.1 24.7 25.0 25.2	24.8 25.3 25.5 25.6	24.6 25.3 25.6 25.7	25.3 25.8 26.0 26.2	25. 26. 26. 26.
12H	4H 6H 8H	24.9 26.0 26.5	25.5 26.5 27.0	25.4 26.5 27.1	26.0 27.0 27.5	26.6 27.6 28.2	24.1 24.9 25.1	24.8 25.4 25.6	24.7 25.4 25.7	25.3 25.9 26.1	25. 26. 26.
Variation of 1	he abserver	position	for the lum	inaire dista	ances S						
S = 1.0H S = 1.5H S = 2.0H			+0.1 / -0.1 +0.2 / -0.3 +0.3 / -0.5			+0.1 / -0.1 +0.2 / -0.4 +0.4 / -0.8					
Standard table Correction Summand		8K07 2.0				BK05 -0.1					

## Room 1 / Summary



Height of Room: 4.000 m, Mounting Height: 4.000 m, Maintenance factor: Values in Lux, Scale 1:250 0.80

Surface	ρ [%]	E <sub>av</sub> [lx]	E <sub>min</sub> [lx]	E <sub>max</sub> [lx]	u0
Workplane	1	611	419	703	0.685
Floor	20	545	337	653	0.619
Ceiling	70	183	131	998	0.715
Walls (4)	50	366	184	637	/

Workplane: **UGR** Lengthways-Across to luminaire axis Height: 0.750 m Left Wall 25 24 Grid: 64 x 32 Points Lower Wall 26 24 Boundary Zone: 0.500 m (CIE, SHR = 1.00.)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.620, Ceiling / Working Plane: 0.299.

#### **Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Lumin	aire) [lm]	Φ (Lar	mps) [lm]	P [W]	
1	<b>√</b> 20	IBV Hungaria Kft. M18/237 PMMA 771 Favourite LED 2x4ft luminaire with Philips Fortimo Strip HV5 2000lm/foot moduls with PMMA opal diffusor (1.000)		8117		8910	59.0	
		. ,	Total:	162340	Total:	178200	1180.4	

Specific connected load: 6.56 W/m<sup>2</sup> = 1.07 W/m<sup>2</sup>/100 lx (Ground area: 180.00 m<sup>2</sup>)

#### **Room 1 / Photometric Results**

Total Luminous Flux: 162340 lm
Total Load: 1180.4 W
Maintenance factor: 0.80
Boundary Zone: 0.500 m

Surface	Avera	ge illuminances	[lx]	Reflection factor [%]	Average luminance [cd/m²]		
	direct	indirect	total				
Workplane	462	149	611	1	/		
Floor	394	151	545	20	35		
Ceiling	41	143	183	70	41		
Wall 1	194	136	329	50	52		
Wall 2	251	137	388	50	62		
Wall 3	194	139	332	50	53		
Wall 4	251	134	385	50	61		

Uniformity on the working plane	UGR	Lengthways-	Across	to luminaire axis
u0: 0.685 (1:1)	Left Wall	25	24	
E <sub>min</sub> / E <sub>max</sub> : 0.596 (1:2)	Lower Wall	26	24	
min max	(CIE, SHR =	1.00.)		

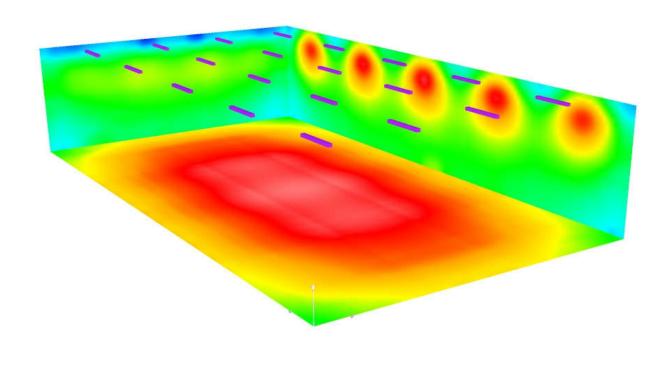
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.620, Ceiling / Working Plane: 0.299.

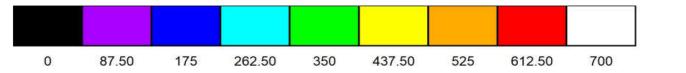
Specific connected load:  $6.56 \text{ W/m}^2 = 1.07 \text{ W/m}^2/100 \text{ lx (Ground area: } 180.00 \text{ m}^2)$ 

# Room 1 / 3D Rendering



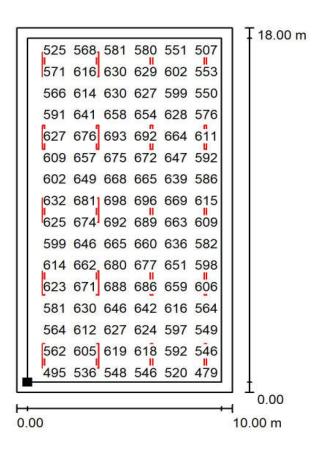
# Room 1 / False Colour Rendering





Ix

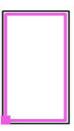
### Room 1 / Workplane / Value Chart (E)



Values in Lux, Scale 1 : 200

Not all calculated values could be displayed.

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: 64 x 32 Points

E<sub>av</sub> [lx] 611 E<sub>min</sub> [lx] 419 E<sub>max</sub> [lx] 703

u0 0.685  $\rm E_{min}$  /  $\rm E_{max}$  0.596