

# Hipharma LED RECESSED LIGHTING EQUIPMENT MOD. ACA/TS/IP55/LED

LED PANEL recessed lighting equipment for clean rooms

<b>BODY</b>	White painted steel sheet
	Sheet painted at 180°C with epoxypolyester antibacterial dusts

<b>ELECTRIC WIRING</b>	Class I homologated equipment
	Executed with approved ballasts and components
	High thermal resistance unipolar cables, special terminals plus earthed with power factor improved knife switch fuse
	Electronic ballasts

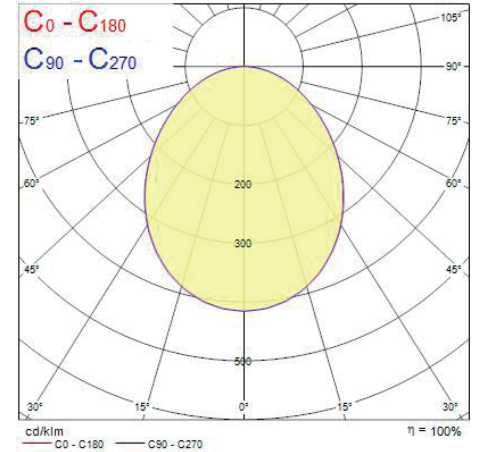
<b>DIFFUSER</b>	Optical room with polycarbonate plate, smooth outside and prismatic inside
	Optical room with metacrylate plate, smooth outside and prismatic inside
	Diffuser is fixed on the white steel frame by 3M bihadesive band, seal gaskets and inox steel closing screws
	Upon request, it is possible to have frame in anodized, glazed aluminium with steel hidden screws
	White painted steel frame has 1,5mm thickness; it is a single shear without weldings

<b>POWER</b>	24W	LED panels
	48W	LED panels
	96W	LED panels

<b>DIMENSIONS and LUMMEN</b>	dim. 305x610mm	2500 lumen
	dim. 305x1220mm	5000 lumen
	dim. 610x610mm	5000 lumen
	dim. 1220x610mm	10000 lumen

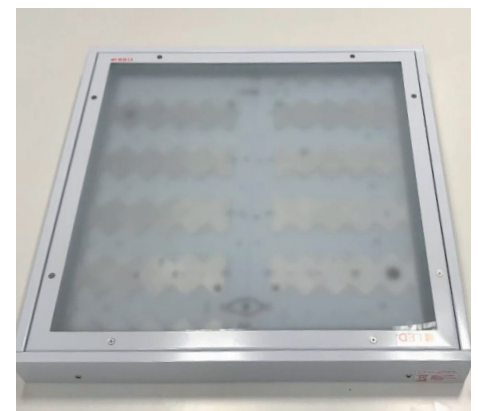
<b>ACCESSORIES</b> <i>available upon request</i>	Electronic ballasts
	Normal or DALI dimmable electronic ballasts
	Emergency wiring with inverter and NiCd batteries
	Special colours
	Antiseismic kit

CODE	PROTECTION DEGREE	CEI Class	CE ACCREDITED	STANDARDS
ACA/TS/IP54/LED	IP54	I	CE - EMC EN 62471	EN 60598-1 (CEI 34-21)
				EN 60598-2-1/2-2 (CEI 34-23) (CEI 34-31)
				73/23/CEE and 93/68/CEE (and furthers updates)
				89/336/CEE (and further updates)
ACA/TS/IP55/LED	IP55	I	CE - EMC EN 62471	EN 60598-1 (CEI 34-21)
				EN 60598-2-1/2-2 (CEI 34-23) (CEI 34-31)
				73/23/CEE and 93/68/CEE (and furthers updates)
				89/336/CEE (and further updates)



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C180)	E(C270)	Illuminance [lx]
0.5	1.11 1.10	7403	48.1° 1103	47.8° 1122		
1.0	2.23 2.21	1851	48.1° 276	47.8° 281		
1.5	3.34 3.31	823	48.1° 123	47.8° 125		
2.0	4.46 4.41	483	48.1° 69	47.8° 70		
2.5	5.57 5.51	295	48.1° 44	47.8° 45		
3.0	6.69 6.62	205	48.1° 31	47.8° 31		

Distance [m] Cone diameter [m] Illuminance [lx]  
 C0 - C180 (Half beam angle: 95.6°)  
 C90 - C270 (Half beam angle: 96.2°)



# Hipharma LED RECESSED LIGHTING EQUIPMENT MOD. ACA/TS/IP55/LED-SLIM-MONOBLOC

LED PANEL recessed lighting equipment for clean rooms

<b>BODY</b>	White painted steel sheet
	Sheet painted at 180°C with epoxypolyester antibacterial dusts

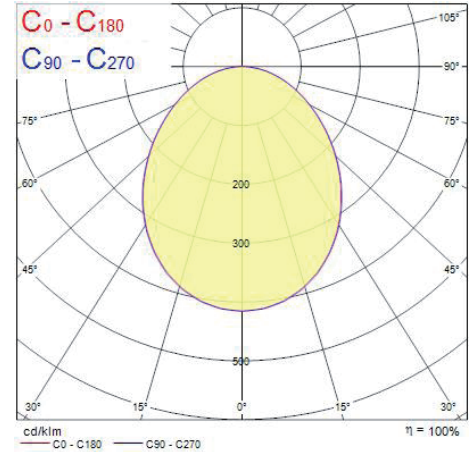
<b>ELECTRIC WIRING</b>	Class I homologated equipment
	Executed with approved ballasts and components
	High thermal resistance unipolar cables, special terminals plus earthed with power factor improved knife switch fuse
	Electronic ballasts

<b>DIFFUSER</b>	Optical room with polycarbonate plate, smooth outside and prismatic inside
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<b>DIMENSIONS, LUMMEN and POWER</b>	dim. 305x610mm	2380 lumen	28W
	dim. 305x1220mm	4000 lumen	50W
	dim. 610x610mm	4000 lumen	43W
	dim. 1220x610mm	4800 lumen	60W

<b>ACCESSORIES</b> <i>available upon request</i>	Normal or DALI dimmable electronic ballasts
	Emergency wiring with inverter and NiCd batteries
	Antiseismic kit

CODE	PROTECTION DEGREE	CEI Class	CE ACCREDITED	STANDARDS
ACA/TS/IP55/LED-SLIM	IP55	I	CE - EMC EN 62471	EN 60598-1 (CEI 34-21) EN 60598-2-1/2-2 (CEI 34-23) (CEI 34-31) 73/23/CEE and 93/68/CEE (and furthers updates) 89/336/CEE (and further updates)



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.5	1.11 1.10	7403	48.1° 1103	47.8° 1122	
1.0	2.23 2.21	1851	48.1° 276	47.8° 281	
1.5	3.34 3.31	823	48.1° 123	47.8° 125	
2.0	4.46 4.41	483	48.1° 69	47.8° 70	
2.5	5.57 5.51	295	48.1° 44	47.8° 45	
3.0	6.69 6.62	205	48.1° 31	47.8° 31	

Distance [m]      Cone diameter [m]      Illuminance [lx]  
 — C0 - C180 (Half beam angle: 95.6°)  
 — C90 - C270 (Half beam angle: 96.2°)



# Hipharma LED RECESSED LIGHTING EQUIPMENT MOD. FLAT PANEL LIGHT

FLAT PANEL LIGHT recessed lighting equipment for clean rooms

<b>BODY</b>	Aluminium + PMMA (Polymethyl 2-methylpropenoate)
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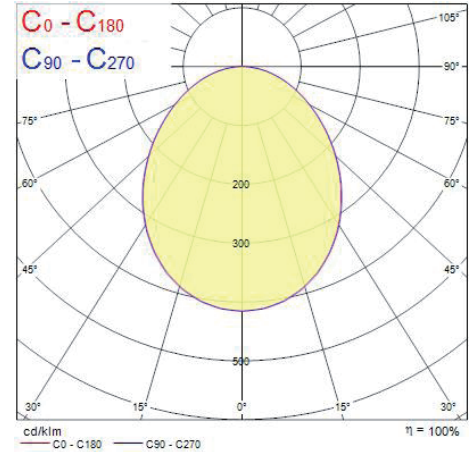
<b>ELECTRIC WIRING</b>	Class I homologated equipment
	Executed with approved ballasts and components
	High thermal resistance unipolar cables, special terminals plus earthed with power factor improved knife switch fuse
	Electronic ballasts

<b>DIFFUSER</b>	Optical room with polycarbonate plate, smooth outside and prismatic inside
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<b>DIMENSIONS, LUMMEN and POWER</b>	dim. 305x610mm	2380 lumen	28W
	dim. 305x1220mm	4000 lumen	50W
	dim. 610x610mm	4000 lumen	43W
	dim. 1220x610mm	4800 lumen	60W

<b>ACCESSORIES</b> <i>available upon request</i>	Normal or DALI dimmable electronic ballasts
	Emergency wiring with inverter and NiCd batteries

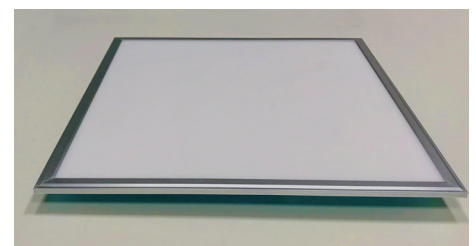
CODE	PROTECTION DEGREE	CE MARKING	PHOTOBIOLOGICAL RISK GROUP
FLAT PANEL LIGHT	IP50	CE - EMC EN 62471	EN 62471-ZERO
FLAT PANEL LIGHT	IP20		EN 62471-ZERO



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.5	1.11 1.10	7403	48.1° 1103	47.8° 1122	
1.0	2.23 2.21	1851	48.1° 276	47.8° 281	
1.5	3.34 3.31	823	48.1° 123	47.8° 125	
2.0	4.46 4.41	483	48.1° 69	47.8° 70	
2.5	5.57 5.51	295	48.1° 44	47.8° 45	
3.0	6.69 6.62	206	48.1° 31	47.8° 31	

Distance [m]      Cone diameter [m]      Illuminance [lx]  
 — C0 - C180 (Half beam angle: 95.6°)  
 — C90 - C270 (Half beam angle: 96.2°)

## IP50



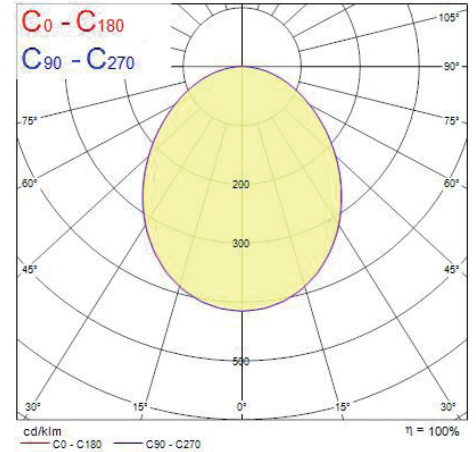
## IP20



# Hipharma RECESSED LIGHTING EQUIPMENT MOD. LIGHT LED BAR

LIGHT LED BAR recessed lighting equipment for laminar flow

<b>BODY</b>	Aluminium + polycarbonate		
<b>POWER SUPPLY</b>	24 V		
<b>ELECTRIC WIRING</b>	Class I homologated equipment		
	Executed with approved ballasts and components		
	High thermal resistance unipolar cables, special terminals plus earthed with power factor improved knife switch fuse		
	Electronic ballasts		
<b>DIFFUSER</b>	Optical room with smooth polycarbonate strip		
<b>LENGTH and POWER</b>	320 mm	3,84W	
	475 mm	5,76W	
	620 mm	7,68W	
	920 mm	11,52W	
	1220 mm	15,36W	
<b>LIGHT COLORS</b>	Cool white		
	Warm white		
	Neutral white		
<b>CODE</b>	<b>PROTECTION DEGREE</b>	<b>CE MARKING</b>	<b>PHOTOBIOLOGICAL RISK GROUP</b>
LIGHT LED BAR	IP65	YES	EN 62471-ZERO



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.5	1.11 1.10	7403	48.1° 1103	47.8° 1122	
1.0	2.23 2.21	1851	48.1° 276	47.8° 281	
1.5	3.34 3.31	823	48.1° 123	47.8° 125	
2.0	4.46 4.41	483	48.1° 69	47.8° 70	
2.5	5.57 5.51	295	48.1° 44	47.8° 45	
3.0	6.69 6.62	206	48.1° 31	47.8° 31	

Distance [m]      Cone diameter [m]      Illuminance [lx]  
 — C0 - C180 (Half beam angle: 95.6°)  
 — C90 - C270 (Half beam angle: 96.2°)

