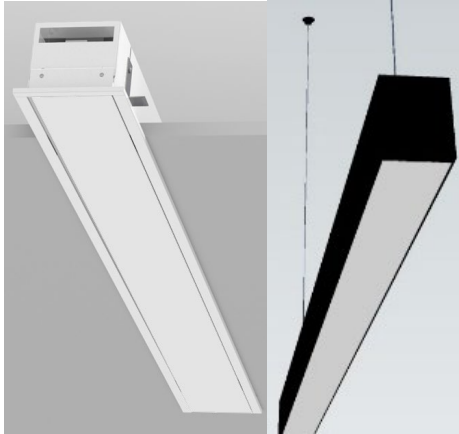


EIKOScare



RoHS
Compliant

FICHA TÉCNICA

SERIES: LINEAL
LIGHT ENGINE: VVLE64 VYV PCB
NOMINAL POWER: 69W (59W) (SEE TABLE) White (Enhance) Antimicrobial Mode
SYSTEM CONSUM: 74W (64W) (SEE TABLE) White (Enhance) Antimicrobial Mode
NOMINAL FLUX: 4.400lm (SEE TABLE) White Antimicrobial Mode
OUTPUT FLUX: 3.100lm (SEE TABLE) White Antimicrobial Mode
COLOR TEMPERATURE: 4.000K White Antimicrobial Mode
CRI: >80 White Antimicrobial Mode
 Small colour tolerance MacAdam 3
SPAM LIFE: L80 / F10 >36.000h
WARRANTY: 3 Years
Disinfection Technology: The fixture includes vyv Antimicrobial Light Technology which uses antimicrobial effect of visible light at 405 nm (violet). This technology is safe for humans, animals and plants when exposed to either of both modes (White and Enhance).
 Applications: Hospitals, Labs, Offices, etc
DESCRIPTION: Extruded aluminium light fixture for recessed installation (optional kit for hanged installation is available) with DUAL vyv Antimicrobial Light Technology (White Antimicrobial Light Mode/ Enhanced Antimicrobial Light Mode)

- Luminaire body made of extruded aluminium. Thermo-enamelled in white, black or RAL 9006 with epoxy-polyester resin polymerized in the oven at a temperature of 200°.
- Automatic wire connectors WAGO or WIELAND.
- Osram or Tridonic electronic driver.
- Occupancy and movement sensor optional.
- Diffusers PMMA micro prismatic Conical De-Glaring Prism, with high transmittance and UGR <19.
- Prewired with 5 wires.
- Optional

CLASIFICATION: REFERENCE: UNE-EN 60598. CLASS I IP20 / IP40

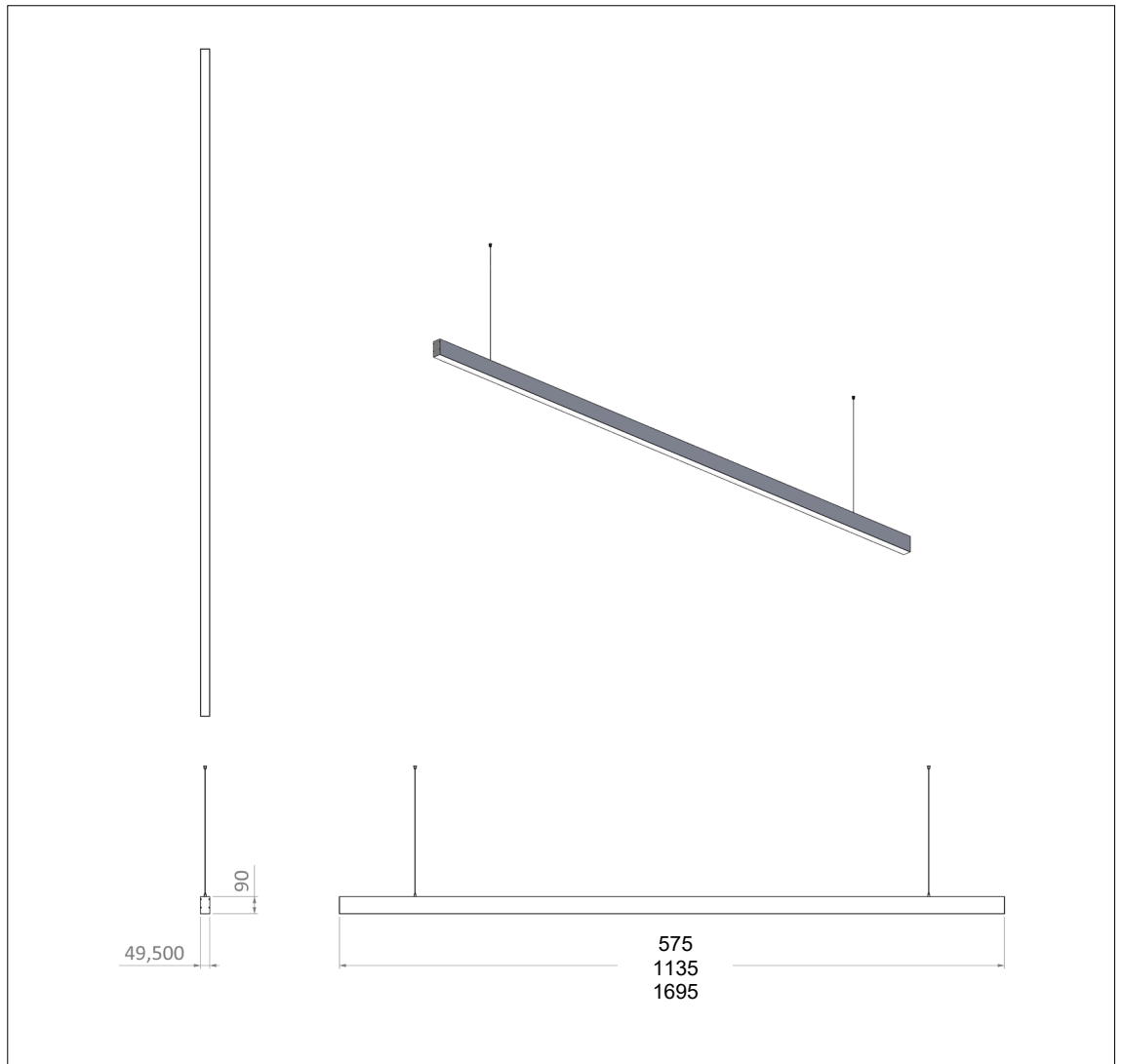
Model	Reference	Light Engine	Nominal Power	System Consum	Nominal Flux	Output Flux	Dimensions mm Width x Height x Length	Mode	IP	CRI
LINEAL 2D	EIK-2286 1 VVLE64 CDP	1 x VVLE64	35 W / 28 W	38 W / 31 W	2000 lm	1750 lm	49x90x575	Dual (W + E)	IP 20/40	>80
LINEAL 4D	EIK-2286 2 VVLE64 CDP	2 x VVLE64	70 W / 56 W	76 W / 62 W	4000 lm	3500 lm	49x90x1135	Dual (W + E)	IP 20/40	>80
LINEAL 6D	EIK-2286 3 VVLE64 CDP	3 x VVLE64	105 W / 84 W	114 W / 93 W	6000 lm	5250 lm	49x90x1695	Dual (W + E)	IP 20/40	>80

OPTIONS:

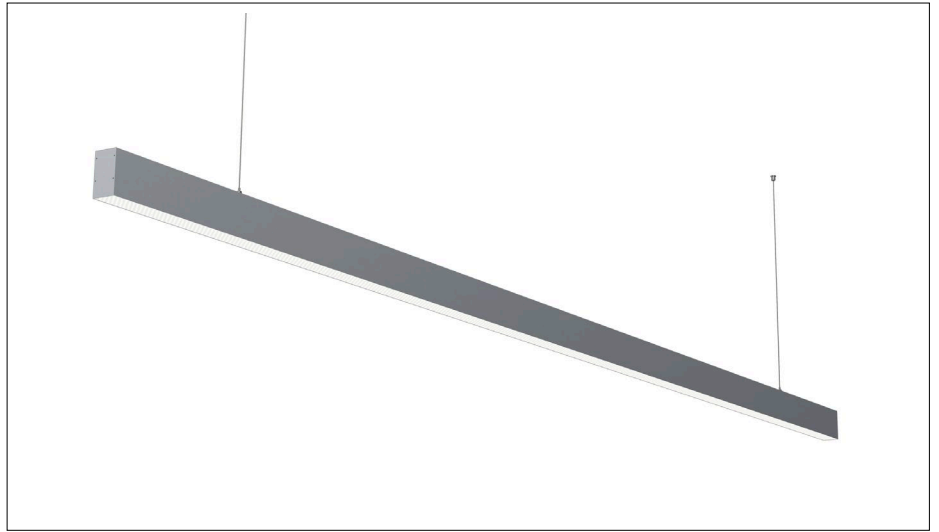
Model	Reference	Description
All	& IntSensor 5DP 14F	Integrated presence and movement sensor for automatic modes switching
All	& KHO15	Kit for hanging mount up to 1,5 meters.

SET		COMPONENT			STANDARD	TREATMENT	TEST
P.	DESCRIPCIÓN	P.	DESCRIPCIÓN	MATERIAL			
1	BODY	1-1	EXTRUDED ALUMINIUM 1,3 mm	AP-01	UNE.360865	PAINTED	EN-90598-1 DIN 50017
		1-2	PAINT COLOUR WHITE, BLACK OR GREY RAL 9006	EPOXI POLYESTER			
2	ELECTRICAL	2-1	CONVERTIDOR ELECTRÓNICO OSRAM O TRIDONIC		UNE. 20152		UNE. 20152 UNE. EN EN60598 COMPLIANT
		2-2	BJB CONECTORS				
		2-3	WIRES	Cu. 0,75 mm2. PVC- 105			
3	OPTICS	3-1	MICROPRISMATIC DIFUSSER	PMMA CONICAL DEGLARING PRISM DE 3mm			
4	PACKAGING	4-1	CARDBOARD	KRAFT BICOLOUR	DIN-1712		

UNE EN 60598: PARTE 1: REGLAS GENERALES Y GENERALIDADES SOBRE ENSAYO
 DIN 50017: ENSAYO DEL ENVEJECIMIENTO DE RECUBRIMIENTOS
 UNE 20152: BALASTOS PARA LAMPARAS FLUORESCENTES
 UNE 21117: CONDUCTORES



PHOTOGRAPHY

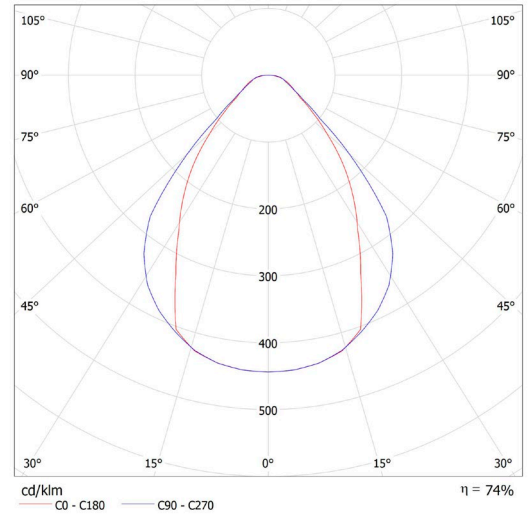


Valoración de deslumbramiento según UGR											
p. Techo		70	70	50	50	30	70	70	50	50	30
p. Paredes		50	30	50	30	30	50	30	50	30	30
p. Suelo		20	20	20	20	20	20	20	20	20	20
Tamaño del local		Mirado en perpendicular al eje de lámpara					Mirado longitudinalmente al eje de lámpara				
X	Y										
2H	2H	14.5	15.6	14.8	15.8	16.0	17.2	18.2	17.5	18.4	18.6
	3H	15.0	15.9	15.3	16.2	16.4	17.7	18.6	18.0	18.9	19.1
	4H	15.2	16.1	15.6	16.4	16.6	18.0	18.9	18.3	19.2	19.4
	6H	15.4	16.2	15.7	16.5	16.8	18.4	19.2	18.7	19.5	19.8
	8H	15.4	16.2	15.8	16.5	16.8	18.6	19.3	18.9	19.6	20.0
4H	2H	14.8	15.7	15.1	15.9	16.2	17.2	18.1	17.5	18.3	18.6
	3H	15.4	16.2	15.8	16.5	16.8	17.9	18.6	18.2	18.9	19.2
	4H	15.8	16.4	16.2	16.8	17.1	18.3	19.0	18.7	19.3	19.7
	6H	16.0	16.6	16.5	17.0	17.4	18.8	19.4	19.2	19.7	20.1
	8H	16.1	16.6	16.6	17.0	17.4	19.0	19.5	19.5	19.9	20.3
8H	2H	16.2	16.6	16.6	17.0	17.5	19.3	19.7	19.7	20.1	20.6
	4H	16.0	16.5	16.4	16.9	17.3	18.3	18.8	18.8	19.2	19.6
	6H	16.3	16.7	16.8	17.2	17.6	18.9	19.3	19.4	19.7	20.2
	8H	16.5	16.8	16.9	17.3	17.8	19.2	19.5	19.7	20.0	20.5
	12H	16.6	16.9	17.0	17.3	17.8	19.5	19.8	20.0	20.3	20.8
12H	4H	16.0	16.4	16.4	16.8	17.3	18.3	18.8	18.8	19.2	19.6
	6H	16.4	16.7	16.9	17.2	17.7	18.9	19.2	19.4	19.7	20.2
	8H	16.5	16.9	17.0	17.3	17.8	19.2	19.5	19.7	20.0	20.5

Variación de la posición del espectador para separaciones S entre luminarias		
S = 1.0H	+0.8 / -1.0	+0.8 / -0.9
S = 1.5H	+1.4 / -1.5	+2.2 / -1.4
S = 2.0H	+2.5 / -2.0	+3.7 / -1.9
Tabla estándar	BK03	BK03
Sumando de corrección	-2.4	0.3

Índice de deslumbramiento corregido en relación a 3400lm Flujo luminoso total

Los valores UGR se calculan según CIE Publ. 117. Spacing-to-Height-Ratio = 0.25.

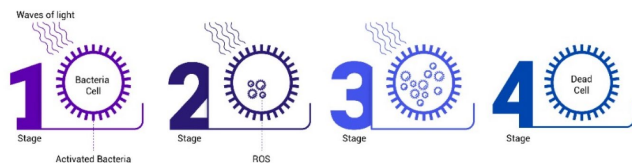


Bacteria

- Gram Positive**
 Staphylococcus aureus (incl. MRSA)
 Clostridium perfringens
 Clostridium difficile
 Enterococcus faecalis
 Staphylococcus epidermidis
 Staphylococcus hyicus
 Streptococcus pyogenes
 Listeria monocytogenes
 Bacillus cereus
 Mycobacterium terrae
 Lactococcus lactis
 Lactobacillus plantarum
 Bacillus circulans
 Streptococcus thermophilu
- Gram Negative**
 Acinetobacter baumannii
 Pseudomonas aeruginosa
 Klebsiella pneumoniae
 Proteus vulgaris
 Escherichia coli
 Salmonella enteritidis
 Shigella sonnei
 Serratia spp.
 Salmonella typhimurium

Bacterial Endospores

- Bacillus cereus
 Clostridium difficile
- Yeast and filamentous fungi**
 Aspergillus niger
 Candida albicans
 Saccharomyces cerevisiae

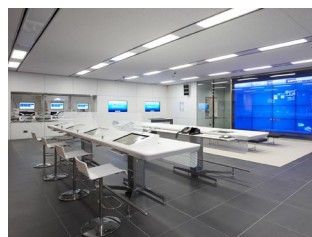
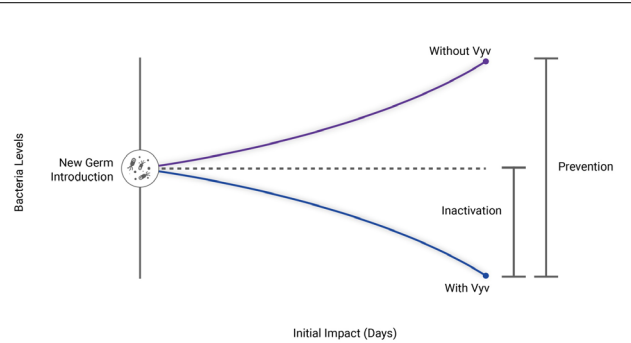
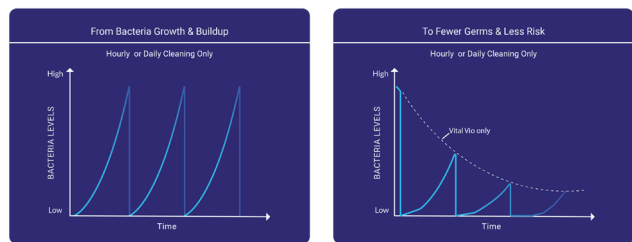
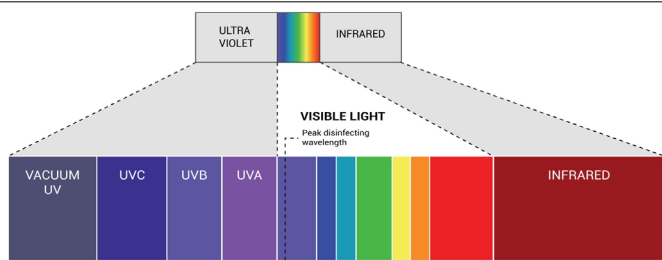


Vyv's antimicrobial light wavelengths initiate a photo-reaction with endogenous non-iron porphyrin molecules found only in microorganisms. The porphyrin molecules are photo activated. Vyv's light frequencies excite the porphyrins, causing a break-off of excess Reactive Oxygen Species (ROS). This causes irreparable damage within the cell, ultimately destroying the cellular membrane from the inside out.

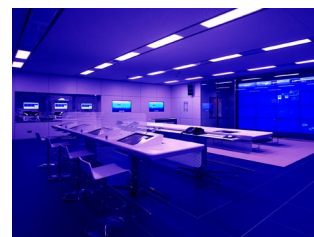
Vyv attacks the cell from multiple vectors preventing the cell from building up any new defenses against this form of attack. This is unlike approaches used with antibiotics that can cause germs to mutate and develop resistance.

Use Vyv anywhere and get a new kind of continuous antimicrobial

Comparison Category	Vyv	Ultraviolet (UV-C)
Timing of Antimicrobial Impact	Continuous	Point in time
Used Around People	✓ Yes Meets IEC standards for unrestricted & continuous use	✗ No Does not meet IEC standards for unrestricted & continuous use
Environmental Considerations	No degradation effects to materials	Material degradation to materials such as plastics & rubber
Use Case Applications	Occupied & unoccupied spaces - broad use cases	Unoccupied spaces only
Kill Mechanism	Destruction of cell via ROS produced by porphyrin molecules when excited by 405nm light.	Destruction of DNA/RNA - all genetic material
Delivery Mechanism	Individual LEDs allow for integration into any size light, space, etc	Primarily bulbs, early stage LEDs (expensive, inefficient)
Investment (capital, people, service)	Low/Med. upfront cost, one time install, no manual labor or service	Med/High upfront cost, regular bulb replacements, manual operation & oversight w/each use



Vyv Antimicrobial+Light™



Vyv Enhanced Antimicrobial™