

## Product Data Sheet GWS4220AC830

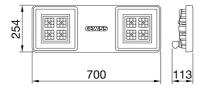
SMART [4]



Smart [4] is a series of LED indoor appliances suitable for the lighting of industries and sports facilities. It is available in HE (High Efficiency), HLO (High Lumen Output) and integrated DALI Emergency. Three different sizes available: 1M, 2M and 4M. The body is made of "Halogen-free" nylon loaded with grey glass fibre (RAL7035) with vent and anti-condensation device, heat dissipation device in aluminium alloy EN AB 44300. It is equipped with a dual optical system that includes a metallic reflector with ARRAY optics and a metallic reflector with UV stabilized PMMA lenses, with high efficiency, which allow a wide variety of light distributions 30°, 60°, 90°, Asymmetric and Elliptical. The version with through wiring has pre-wired mechanical and electrical connection components. Suspension, wall and projection appliances can be installed. It is available with three types of Colour Temperature (3000K / 4000K / 5700K), Color Rendering Index CRI>80 and two power supply options (ON/OFF or DALI).

Context   Lighting for industries and sponts   Optic   Asymmetrical     Luminarie   LED Industrial Reflector   Unified Glare Rating   -     Application   Internal   Lumen output (Im)   1300     Unique digital code (Datamatrix)   Datamatrix   Efficacy (ImW)   137     Colour   Grey RAL 7035   Colour temperature   3000 K (ImW)     System power   95 W   Standard Deviation Colour Matching   SDCM = 3     LED Lifetime   L90B10(Tq25°C)-150.000h; L90B10 (Tq30°C)=100.0001   Photobiological Risk Class   RG0     Weight (kg)   6.5   Standard   ELETRICAL AND LIGHTING FEATURES   -0     Varranty   5 years   ELETRICAL AND LIGHTING FEATURES   -0   -0     Operating temperature   -40 +70 °C   Supply voltage   220 -240 V   0     Operating temperature   -40 +70 °C   Supply voltage   220 -240 V   0     Operating temperature   -0 +70 °C   Supply voltage   220 -240 V   0     Operating temperature   -0 +70 °C   Supply voltage   200 × 40 V   0     Optic   Matenatic PC reflector and PMMA lenses   Driver failure rate	GENERAL INFORMATION	-	OPTIC AND ILLUMINATING FEATURES	<u>-</u>
ApplicationInternal Unique digital code (Datamatrix)Internal DatamatrixLefficacy Efficacy13000ColourGrey RAL 7035Colour temperature3000 KColourGrey RAL 7035Colour temperature3000 KColour Pandering IndexCR-880System power95 WStatadra Deviation Colour MatchingSDCM = 3LED LifetimeL90B10(Tq25°C)>150.000h; L90B10 (Tq50°C)=100.000hPhotobiological Risk ClassRG0Weight (kg)6.5StandardEN 60598-1; EN 60598-2; FiWaranty5 yearsELETRICAL AND LIGHTING FEATURES-Stocking temperature-30°C ++50 °CRated frequency (Hz)50/60 HzMATERIALS-DriverIncludedBodyPA6 "Halogen Free" loaded fibreglassDriver failure rateF10=70.000h Tq25°C/35.000h Tq50°CShield typeTempered glass Thickness 4mmOvervoltage protectionDM 6kV / CM 6kVOpticMetallic PC reflector and PMA lensesColourGrey RAL 7035TitlWith GW connect watertight connectorColourGrey RAL 7035TitlWith GW connect watertight connectorColourGrey RAL 7035Fixing-ColourGrey RAL 7035With Succe replaceabilityBy professionalDevice with reduced surface temperatureClassificationAvailable (under certain installationCeiling - Walimounting - SuspensionIDevice with reduced surface temperatureIDegree	Context		Optic	Asymmetrical
Unique digital code (Datamatrix)   Datamatrix   Efficacy   137     Colour   Grey RAL 7035   Colour Rendering Index   CRI>80     System power   95 W   Standard Deviation Colour Matching   SDCM = 3     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10   Photobiological Risk Class   RGO     Weight (kg)   6.5   Standard Deviation Colour Matching   SD2M = 3     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Stocking temperature   -40 +70 °C   Standard Deviation Colour (Tq25°C)   -     MatTERIALS   -   Driver   Included   -     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C   -     Shield type   Tempered glass Thickness 4mm   OV revoltage protection   ON / OFF   -     Gasket   anti-aging sillicone   -   Mounting and installation   Ceilling - Waltmounting - Supersion   -     Clour   Grey RAL 7035   -   -   -   -   -     Shield type   Tempered glass Thickness 4mm   ON / OFF   -   -   -   -   -   -	Luminaire	LED Industrial Reflector	Unified Glare Rating	-
Colour   Grey RAL 7035   Colour temperature   3000 K     Type of light source   LED   Colour Rendering Index   CRI>80     System power   95 W   Standard Deviation Colour Matching   SDCM = 3     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10   Photobiological Risk Class   RG0     Warranty   6.5   Standard Deviation Colour Matching   SDCM = 3     Varranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240 V     Operating temperature   -30°C + +50 °C   Rated frequency (Hz)   50/60 Hz     Body   PA6 "Halogen Free" loaded fibreglass   Driver rate   F10=70.000h Tq25°C/35.00h Tq25°C     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM KY / OM KV     Optic   Metallic PC reflector and PMMA lenses   Mounting and installation   Celling - Wallmounting - Suspension     External screw   Stainless steel   Tilt   With GW connect watertight connector     Closur   Grey RAL 7035   Viring   With GW connect watertight connector     Stainless steel   Tilt   Supprofessional   - <t< td=""><td>Application</td><td>Internal</td><td>Lumen output (Im)</td><td>13000</td></t<>	Application	Internal	Lumen output (Im)	13000
Type of light sourceLEDColour Rendering IndexCRI>80System power95 WStandard Deviation Colour MatchingSDCM = 3LED LifetimeL90B10(Tq25°C)>150.000h; L90B10 (Tq50°C)=100.000hPhotological Risk ClassRG0Weight (kg)6.5StandardEN 60598-1; EN 60598-2:1; EN 60598-2:24Warranty5 yearsELETRICAL AND LIGHTING FEATURES-Yarranty5 yearsSupply voltage220 - 240 VOperating temperature-30°C + +50 °CRated frequency (Hz)50/60 HzMATERIALSDriver failure rateF10=70.000h Tq25°C/S00h Tq50°CShield typeTempered glass Thickness 4mmOvervoltage protectionDM 6kV / CM 6kVOpticMetallic PC reflector and PMMA lensesControl SystemOVColourGrey RAL 7035WiringWith GW connect watertight connect wa	Unique digital code (Datamatrix)	Datamatrix		137
System power   95 W   Standard Deviation Colour Matching   SDCM = 3     LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10 (Tq50°C)=100.000h   Photobiological Risk Class   RG0     Weight (kg)   6.5   Standard   EN 60598-1; EN 60598-21; EN 60598-2-1; EN 60598-2-1; EN 60598-2-24   60598-2-24     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Varranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240 V     Operating temperature   -30°C + +50 °C   Rated frequency (Hz)   50/60 Hz   -     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C   ON / OFF     Gasket   anti-aging silicone   Overvoltage protection   DM &V / CM &kV   ON / OFF     Gosket   anti-aging silicone   INSTALLATION AND MAINTENANCE   -   -     Colour   Grey RAL 7035   Wiring   With GW connect watright connector   -     Standard screw   Stallelss steel   Tilt   With GW connect watright connector   -     Classification   -   Light souce replaceability   By prof	Colour	Grey RAL 7035	Colour temperature	3000 K
LED Lifetime   L90B10(Tq25°C)>150.000h; L90B10 (Tq50°C)=100.000h   Photobiological Risk Class   RG0     Weight (kg)   6.5   Standard   EN 60598-1; EN 60598-2-1; EN 60598-2-24     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Stocking temperature   -40 +70° C   Supply voltage   220 - 240 V     Operating temperature   -30°C + +50 °C   Rated frequency (Hz)   50/60 Hz     MATERIALS   Driver   Included   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6kV / CM 6kV     Optic   Metallic PC reflector and PMMA lenses   Overvoltage protection   DM 6kV / CM 6kV     Colour   Grey RAL 7035   Wiring   With mounting - Suspension     External screw   Stainless steel   Tilt   With GW connect watertight connector     Classification   Cassification   -   Light souce replaceability   By professional     Device with reduced surface temperature   Crest ordigear replaceability   By professional   Driver Box   Built-in     IPEA   -   Ipegree   IP66   -   -     IP	Type of light source	LED	Colour Rendering Index	CRI>80
Weight (kg)   6.5   Standard   EN 60598-1; EN 60598-2:1; EN 60598-2:24     Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240 V     Operating temperature   -30 °C + +50 °C   Rated frequency (Hz)   50/60 Hz     MATERIALS   -   Driver   Included     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6kV / CM 6kV     Optic   Metallic PC reflector and PMMA lenses   Control System   ON / OFF     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   -     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspension     Colour   Grey RAL 7035   Wiring   With bracket accessory     Classification   -   Fixing   -     Diver Box   -   Gontrolgear replaceability   By professional     Diver Box   -   Controlgear replaceability   Built-in     Classification   -   -   Controlgear rep	System power	95 W	Standard Deviation Colour Matching	SDCM = 3
Warranty   5 years   ELETRICAL AND LIGHTING FEATURES   -     Warranty   60598-2-24   -     Stocking temperature   -40 +70 °C   Supply voltage   220 - 240 V     Operating temperature   -30°C + +50 °C   Rated frequency (Hz)   50/60 Hz     MATERIALS   Driver   Included     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6KV / CM 6kV     Optic   Metallic PC reflector and PMMA lenses   Control System   ON / OFF     Gasket   anti-aging silicon   INSTALLATION AND MAINTENANCE   -     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Supension     External screw   Stainless steel   Tilt   With bracket accessory     Colour   Grey RAL 7035   Wiring   With GW connect watertight connector     Classification   -   Light souce replaceability   By professional     Diver with reduced surface temperature   Yeas   Controlgear replaceability   Built-in     IPEA   -   Maximum surface exposed to the wind<	LED Lifetime		Photobiological Risk Class	RG0
Stocking temperature   -40 +70 °C   Supply voltage   220 - 240 V     Operating temperature   -30 °C ÷ +50 °C   Rated frequency (Hz)   50/60 Hz     MATERIALS   -   Driver   Included     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6kV / CM 6kV     Optic   Metallic PC reflector and PMMA lenses   Control System   ON / OFF     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   -     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspension     Colour   Grey RAL 7035   Wiring   With GW connect watertight connector     STANDARDS AND APPROVALS   -   Fixing   -     Classification   -   Light souce replaceability   By professional     DIN 18032-3 certification   -   Maximum surface exposed to the wind   0,184 m²     Insulation class   I   -   Maximum surface exposed to the wind   0,184 m²     IP degree   IP66   -   -   -   -	Weight (kg)	6.5	Standard	
Operating temperature   -30°C + +50 °C   Rated frequency (Hz)   50/60 Hz     MATERIALS   Driver   Included     Body   PA6 "Halogen Free" loaded fibreglass   Driver failure rate   F10=70.000h Tq25°C/35.000h Tq50°C     Shield type   Tempered glass Thickness 4mm   Overvoltage protection   DM 6kV / CM 6kV     Optic   Metallic PC reflector and PMMA lenses   Control System   ON / OFF     Gasket   anti-aging silicone   INSTALLATION AND MAINTENANCE   -     Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspension     External screw   Stainless steel   Tilt   With GW connect watertight connector     STANDARDS AND APPROVALS   -   Fixing   -     Classification   -   Light souce replaceability   By professional     Device with reduced surface temperature   Yes   Control gare replaceability   By professional     Diver Sailation sconditions   Inver Box   -   -   -     IN 18032-3 certification   -   -   Maximum surface exposed to the wind   0,184 m²     Insulation class   -   -   Maximum surface exposed to the wind   0,184 m² </td <td>Warranty</td> <td>5 years</td> <td>ELETRICAL AND LIGHTING FEATURES</td> <td>-</td>	Warranty	5 years	ELETRICAL AND LIGHTING FEATURES	-
MATERIALSDriverIncludedBodyPA6 "Halogen Free" loaded fibreglassDriver failure rateF10=70.000h Tq25°C/35.000h Tq50°CShield typeTempered glass Thickness 4mmOvervoltage protectionDM 6kV / CM 6kVOpticMetallic PC reflector and PMMA lensesControl SystemONGasketanti-aging siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling - Wallmounting - SuspensionExternal screwStainless steelTiltWith GW connect watertight connectorColourGrey RAL 7035WiringWith GW connect watertight connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControl gear replaceabilityBu inti-Insulation class-Invier BoxIPEA-Maximum surface exposed to the wind0,184 m²Insulation class-IN66IP degreeIP66Mechanical resistanceIK08	Stocking temperature	-40 +70 °C	Supply voltage	220 - 240 V
BodyPA6 "Halogen Free" loaded fibreglassDriver failure rateF10=70.00h Tq25°C/35.00h Tq50°CShield typeTempered glass Thickness 4mmOvervoltage protectionDM 6kV / CM 6kVOpticMetallic PC reflector and PMMA lensesControl SystemON / OFFGasketanti-aing siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling - Wallmounting - SuspensionExternal screwStainless steelTiltWith bracket accessoryColourGrey RAL 7035WiringWith GW connect watertight connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControlgear replaceabilityBuilt-inIPEAMaximum surface exposed to the wind0,184 m²Insulation classIIIP degreeIP66Mechanical resistanceIK08	Operating temperature	-30°C ÷ +50 °C	Rated frequency (Hz)	50/60 Hz
Shield typeTempered glass Thickness 4mmOvervoltage protectionDM 6kV / CM 6kVOpticMetallic PC reflector and PMMA lensesControl SystemON / OFFGasketanti-aging siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling - Wallmounting - SuspensionExternal screwStainless steelTiltWith bracket accessoryColourGrey RAL 7035WiringWith GW connect watertight connectorSTANDARDS AND APPROVALS-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControl gear replaceabilityBy professionalDIN 18032-3 certificationAvailable (under certain installation conditions)Driver BoxBuilt-inIPEA-Maximum surface exposed to the wind0,184 m²IP degreeIP66Mechanical resistanceIK08	MATERIALS	-	Driver	Included
OpticMetallic PC reflector and PMMA lenses GasketControl SystemON / OFFGasketanti-aging siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling - Wallmounting - SuspensionExternal screwStainless steelTiltWith bracket accessoryColourGrey RAL 7035WiringWith GW connect watright connectorSTANDARDS AND APPROVALS-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControl gear replaceabilityBy professionalDIN 18032-3 certificationAvailable (under certain installation conditions)Driver BoxBuilt-inIPEA-Maximum surface exposed to the wind0,184 m²IP degreeIP66Mechanical resistanceIK08	Body	PA6 "Halogen Free" loaded fibreglass	Driver failure rate	F10=70.000h Tq25°C/35.000h Tq50°C
Gasketanti-aging siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling - Wallmounting - SuspensionExternal screwStainless steelTiltWith OW connect watright connectorColourGrey RAL 7035WiringWith GW connect watright connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControlgear replaceabilityBy professionalDIN 18032-3 certificationAvailable (under certain installation conditions)Driver BoxBuilt-inIPEA-Maximum surface exposed to the wind0,184 m²Insulation classIIIPedereeIP66Mechanical resistanceIK08	Shield type	Tempered glass Thickness 4mm		DM 6kV / CM 6kV
Locking Hook   -   Mounting and installation   Ceiling - Wallmounting - Suspension     External screw   Stainless steel   Tilt   With bracket accessory     Colour   Grey RAL 7035   Wiring   With GW connect watertight connector     STANDARDS AND APPROVALS   -   Fixing   -     Classification   -   Light souce replaceability   By professional     Device with reduced surface temperature   Yes   Controlgear replaceability   By professional     DIN 18032-3 certification   Available (under certain installation conditions)   Driver Box   Built-in     IPEA   -   Maximum surface exposed to the wind   0,184 m²     Insulation class   1   -   -     IP degree   IP66   -   -     Mechanical resistance   IK08   -   -	Optic	Metallic PC reflector and PMMA lenses		ON / OFF
External screw   Stainless steel   Tilt   With bracket accessory     Colour   Grey RAL 7035   Wiring   With GW connect watertight connector     STANDARDS AND APPROVALS   -   Fixing   -     Classification   -   Light souce replaceability   By professional     Device with reduced surface temperature   Yes   Controlgear replaceability   By professional     DIN 18032-3 certification   Available (under certain installation conditions)   Driver Box   Built-in     IPEA   -   Maximum surface exposed to the wind   0,184 m²     Insulation class   1   -   -     IP degree   IP66   -   -     Mechanical resistance   IK08   -   -	Gasket	anti-aging silicone		-
Colour   Grey RAL 7035   Wiring   With GW connect watertight connector     STANDARDS AND APPROVALS   Fixing   -     Classification   Light souce replaceability   By professional     Device with reduced surface temperature   Yes   Controlgear replaceability   Bult-in     DIN 18032-3 certification   Available (under certain installation conditions)   Driver Box   Built-in     IPEA   Aximum surface exposed to the wind   0,184 m²   -     Insulation class   I   Maximum surface exposed to the wind   -     Mechanical resistance   IK08   -   -		-		
STANDARDS AND APPROVALS   Fixing     Classification   -   Light souce replaceability   By professional     Device with reduced surface temperature   Yes   Controlgear replaceability   By professional     DIN 18032-3 certification   Available (under certain installation conditions)   Driver Box   Built-in     IPEA   -   Maximum surface exposed to the wind   0,184 m²     Insulation class   I   -   -     IPeqeree   IP66   -   -     Mechanical resistance   IK08   -   -		Stainless steel		
Classification - Light souce replaceability By professional   Device with reduced surface temperature Yes Controlgear replaceability By professional   DIN 18032-3 certification Available (under certain installation conditions) Driver Box Built-in   IPEA - Maximum surface exposed to the wind 0,184 m²   Insulation class I -   IP degree IP66 -   Mechanical resistance IK08 -	Colour	Grey RAL 7035	Wiring	With GW connect watertight connector
Device with reduced surface temperature Yes Controlgear replaceability By professional   DIN 18032-3 certification Available (under certain installation conditions) Driver Box Built-in   IPEA - Maximum surface exposed to the wind 0,184 m²   Insulation class I - -   IP degree IP66 - -   Mechanical resistance IK08 - -	STANDARDS AND APPROVALS	-	Fixing	-
DIN 18032-3 certification Available (under certain installation conditions) Driver Box Built-in   IPEA - Maximum surface exposed to the wind 0,184 m²   Insulation class I -   IP degree IP66 -   Mechanical resistance IK08 -	Classification	-		
conditions)     IPEA   -   Maximum surface exposed to the wind   0,184 m²     Insulation class   I   -   -     IP degree   IP66   -   -     Mechanical resistance   IK08   -   -	Device with reduced surface temperature	Yes	Controlgear replaceability	By professional
Insulation class I -   IP degree IP66 -   Mechanical resistance IK08 -	DIN 18032-3 certification		Driver Box	Built-in
IP degree IP66 -   Mechanical resistance IK08 -	IPEA	-	Maximum surface exposed to the wind	0,184 m²
Mechanical resistance IK08 -	Insulation class			-
	IP degree	IP66		-
	Mechanical resistance	IK08		-
Giow Wire Test 850 °C -	Glow Wire Test	850 °C		-

## DIMENSIONAL













cd/klm

Data, measures, designs and pictures are for information purpose only, last update 13/05/2024. They can be changed at any moment, therefore it is always ecommended to read the last updated version published on the website www.gewiss.com.Lumen output and system power are subject to a tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C. Terms of warranty at https://www.gewiss.com/it/en/company/landingpage/led-warranty. - 1 of 2

## PHOTOMETRIC DISTRIBUTION

150

150

300

450 600

750

IP

IP66



STANDARDS/APPROVALS



Product Data Sheet GWS4220AC830 SMART [4]