Product Data Sheet GWS4424BH840

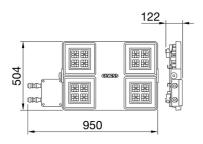
SMART [4]



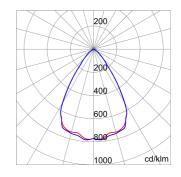
Smart [4] is a series of LED indoor appliances suitable for the lighting of industries and sports facilities. It is available in HE (High Efficiency), HLO (High Lumen Output) and integrated DALI Emergency. Three different sizes available: 1M, 2M and 4M. The body is made of "Halogen-free" nylon loaded 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).

ContextLighting for industries and large sports facilitiesOptic60°LuminarieLED Industrial Reflector InternalUnified Giare RatingUGR \$ 22ApplicationInternal Unique digital code (Datamatrix)DatamatrixUnified Giare RatingUGR \$ 22Unique digital code (Datamatrix)DatamatrixEfficaccy157ColourGrey RAL 7035Colour Rendering IndexCRI-80Type of light sourceLEDColour Rendering IndexCRI-80System253 W (+5W Emerg.)Standard Deviation Colour MatchingSDCM = 3powerLED LifettimeL90B10(Tq25°C)>150.000h; L90B10Photobiological Risk ClassRG0Weight (kg)15Standard Deviation Colour Matching60598-2-22; EN 80598-1; EN 80598-2-22; EN 80598-2-22; EN 80598-2-22; EN 80598-2-22; EN 80598-2-22; EN 80598-2-22Warranty5 yearsELETERICAL AND LIGHTING FEATURES-Stocking temperature-0 + 40° 7CSupply voltage220 - 240 VOperating temperature0 + 40° 7CControl System2 X DALI DTG 11 × DALI DTI (Emerg. Sh)Gasketattria-aging siliconINTRALATION AND MAINTENANCE- </th <th>GENERAL INFORMATION</th> <th>-</th> <th>OPTIC AND ILLUMINATING FEATURES</th> <th>-</th>	GENERAL INFORMATION	-	OPTIC AND ILLUMINATING FEATURES	-
Application Internal Linen 39600 (950 Em.) Unique digital code (Datamatrix) Datamatrix Efficacy 157 Colour Grey RAL 7035 Colour Rendering Index CRI>80 System 253 W (+5W Emerg.) Standard Deviation Colour Ratching SDCM = 3 power LED Colour Rendering Index CRI>80 LED Lifetime L90B10(Tq25°C)=150.000h; L90B10 Photobiological Risk Class RG0 Weight (kg) 15 Standard Deviation Colour Matching SDCM = 3 Varranty 5 years Standard ELETRICAL AND LIGHTING FEATURES - Vorget temperature -0 + 40 + 70° C Standard Standard 200 - 220 - 240 V Operating temperature -0 + 40 * 70° C Standard Supply voitage -220 - 240 V Operating temperature -0 + 40 * 70° C Standard Supply voitage -220 - 240 V Operating temperature -0 + 40 * 70° C Standard frequency (Hz) 50/60 Hz - Body PA6 "Halogen Free" loaded fibreglass Driver failure rate F10 = 100.000h Tq25°C/50.000h Tq40° C - Gasket anti-aging silicone	Context		Optic	60°
Unique digital code (Datamatrix) Output (Im) Unique digital code (Datamatrix) Datamatrix Efficacy (Im/W) 157 Colour Grey RAL 7035 Colour temperature 4000 K Type of light source LED Colour temperature 4000 K System 253 W (+5W Emerg.) Standard Deviation Colour Matching SDCM = 3 power LED Lifetime L90B10(Tq25°C)>150 000h; L90B10 Photobiological Risk Class RG0 Weight (kg) 15 Standard ELETRICAL AND LIGHTING FEATURES 60598-2-22 Varranty 5 years ELETRICAL AND LIGHTING FEATURES - 5006/04 / 00698-2-24 Varranty 5 years ELETRICAL AND LIGHTING FEATURES - 5006/04 / 00698-2-24 - MATERIALS 0 + +40 °C Rated frequency (Hz) 506/06 Hz - 100.000 h Tq25°C/50.0000 h Tq40°C Noterol System 2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h) Optic Metallic PC reflector and PMMA lenses Fring - - - Gasket anti-aging silicone Locking Hook - Mounting and installation	Luminaire	LED Industrial Reflector	Unified Glare Rating	UGR ≤ 22
Colour Grey RAL 7035 Colour Rendering Index CRI>80 Type of light source LED Lifetime Colour Rendering Index CRI>80 System 253 W (+5W Emerg.) Standard Deviation Colour Matching SDCM = 3 power LED Lifetime L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h Photobiological Risk Class RG0 Weight (kg) 15 Standard ELETRICAL AND LIGHTING FEATURES - Varranty 5 years Supply voltage 220 - 240 V - Operating temperature -0 + 70 °C Supply voltage 220 - 240 V - MateRIALS Driver fincluded 50/60 Hz - - Shield type Tempered glass Thickness 4mm Overvoltage protection DM & KV / CM 10 kV 20 Optic Metallic PC reflector and PMMA lenses - Wounting and installation Ceiling light - Suspension - Colour Grey RAL 7035 - Wiring Wiring - - Colour Grey RAL 7035 - Wiring Wiring - - Colour Grey RAL 7035 - Elinet source	Application	Internal		39600 (950 Em.)
Type of light sourceLEDColour Rendering IndexCRI>80System253 W (+5W Emerg.)Standard Deviation Colour MatchingSDCM = 3power15Standard Deviation Colour MatchingSDCM = 3LED LifetimeL90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000hPhotobiological Risk ClassRGOWeight (kg)15StandardEN 60598-2-22; EN 60598-1; EN 60598-2-24StandardWarranty5 yearsELETRICAL AND LIGHTING FEATURES-Stocking temperature-40 +70 °CSupply voltage220 - 240 VOperating temperature0 + +40 °CRated frequency (Hz)50/60 HzBodyPA6 "Halogen Free" loaded fibreglassDriverIncludedSheid typeTempered glass Thickness 4mmOvervoltage protectionDM 6 k/ / CM 10 kVOpticMetallic PC reflector and PIMAL InterestVortol System2 x DALI DT6 + 1 x DALI DT (Hzm.3h)Gasketanti-aging siliconeTit-Locking Hook-Mounting and installationCeiling light - SuspensionColourGrey RAL 7035WiringWith GW connect watertight connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDiv re Box-Maximu surface exposed to the wind0,900 m²IPEA-Naximu surface exposed to the wind0,900 m²IPedegreeIP65IP degreeIP65-	Unique digital code (Datamatrix)	Datamatrix		157
System 253 W (+5W Emerg.) Standard Deviation Colour Matching SDCM = 3 power LED Lifetime L90B10(Tq25°C)>150.000h; L90B10 (Tq40°C)=140.000h Photobiological Risk Class RG0 Weight (kg) 15 Standard EN 60598-2-22; EN 60598-1; EN 60598-2-24 Warranty 5 years ELETRICAL AND LIGHTING FEATURES - Stocking temperature -40 +70 °C Supply voltage 220 -240 V Operating temperature 0 + 440 °C Rated frequency (Hz) 50606 Hz Shield type Tempered glass Thickness 4mm Orver failure rate F10 = 100.000h Tq25°C/50.000h Tq40°C Optic Metallic PC reflector and PMMA lenses Control System 2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h) Gasket anti-aging silicon INSTALLATION AND MAINTENANCE - Colour Grey RAL 7035 Wiring With GW connect watertight connector STANDARDS AND APPROVALS - Exing - Classification - Light souce replaceability By professional Device with reduced surface temperature Yes Oriver Box Bitl-in DIN 18032-3 certification - Driver Box Bitl-in	Colour	Grey RAL 7035	Colour temperature	4000 K
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Weight (kg) 15 Standard EN 60598-2-22; EN 60598-1; EN 60598-2-22; EN 60598-2-22; EN 60598-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24; 6058-2-24;	System	253 W (+5W Emerg.)	Standard Deviation Colour Matching	SDCM = 3
Weight (kg) 15 Standard EN 60598-2-22 ; EN 60598-1 ; EN 60598-2-22 ; EN 60598-1 ; EN 60598-2-24 0 Warranty 5 years ELETRICAL AND LIGHTING FEATURES - Stocking temperature -40 +70 °C Supply voltage 220 - 240 V Operating temperature 0 + +40 °C Rated frequency (Hz) 50/60 Hz MATERIALS Driver Included Body PA6 "Halogen Free" loaded fibreglass Driver raliure rate F10 = 100.000h Tq25°C/50.00h Tq40°C Shield type Tempered glass Thickness Amm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System 2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h) Locking Hook - Mounting and installation Ceiling light - Suspension External screw Stainless steel Tilt - Colour Greg RAL 703 Wiring With GW connect watertight connector Stainless fication - Fixing - Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Bitl- in IPEA	LED Lifetime		Photobiological Risk Class	RG0
Stocking temperature -40 +70 °C Supply voltage 220 - 240 V Operating temperature 0 ÷ +40 °C Rated frequency (Hz) 50/60 Hz MATERIALS - Driver Included Body PA6 "Halogen Free" loaded fibreglass Driver failure rate F10 = 100.00h Tq25°C/50.000h Tq40°C Shield type Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System 2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h) Gasket anti-agin silicone INSTALLATION AND MAINTENANCE - Locking Hook - Mounting and installation Ceiling light - 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 0,390 m² Insulation class 1 - - IPE degree IP65 - - Mechanical resistance IK08 - - <td>Weight (kg)</td> <td></td> <td>Standard</td> <td></td>	Weight (kg)		Standard	
Stocking temperature-40 +70 °CSupply voltage220 - 240 VOperating temperature0 + +40 °CRated frequency (Hz)50/60 HzMATERIALSDriverIncludedBodyPA6 "Halogen Free" loaded fibreglassDriver failure rateF10 = 100.000h Tq25°C/50.000h Tq40°CShield typeTempered glass Thickness 4mmOvervoltage protectionDM 6 kV / CM 10 kVOpticMetallic PC reflector and PMMA lensesControl System2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h)Gasketanti-agin silicoreINSTALLATION AND MAINTENANCE-Locking HookOther Stainless steelTit-ColourGrey RAL 7035WiringWith GW connect watertight connectorSTANDARDS AND APPROVALSFixing-ClassificationLight souce replaceabilityBy professionalDIN 18032-3 certificationInver BoxBuilt-inIPEAInsulation classI-Insulation classI-Insulation classI-IPe degreeIP65-Mechanical resistanceIK08-	Warranty	5 years	ELETRICAL AND LIGHTING FEATURE	S -
MATERIALS Driver Included Body PA6 "Halogen Free" loaded fibreglass Driver failure rate F10 = 100.000h Tq25°C/50.000h Tq40°C Shield type Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System 2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h) Gasket anti-aging silicone INSTALLATION AND MAINTENANCE - Locking Hook - Mounting and installation Ceiling light - Suspension External screw Stainless steel Tilt - Colour Grey RAL 7035 Wiring With GW connect watertight connector Classification Light souce replaceability By professional Device with reduced surface temperature Yes Controlgear replaceability By professional IPEA - Maximum surface exposed to the wind 0,390 m² - IP degree IP65 - - Mechanical resistance IK08 - -	Stocking temperature		Supply voltage	220 - 240 V
BodyPA6 "Halogen Free" loaded fibreglassDriver failure rateF10 = 100.00h Tq25°C/50.00h Tq40°CShield typeTempered glass Thickness 4mmOvervoltage protectionDM 6 kV / CM 10 kVOpticMetallic PC reflector and PMMA lensesControl System2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h)Gasketanti-aging siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling light - SuspensionExternal screwStainless steelTilt-ColourGrey RAL 7035ViringWith GW connect watertight connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControl gear replaceabilityBy professionalIN 18032-3 certification-Driver BoxBuilt-inIPEA-Maximum surface exposed to the wind0,390 m²IP degreeIP65Mechanical resistanceIK08-	Operating temperature	0 ÷ +40 °C	Rated frequency (Hz)	50/60 Hz
Shield type Tempered glass Thickness 4mm Overvoltage protection DM 6 kV / CM 10 kV Optic Metallic PC reflector and PMMA lenses Control System 2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h) Gasket anti-aging silicone INSTALLATION AND MAINTENANCE - Locking Hook - Mounting and installation Ceiling light - Suspension External screw Stainless steel Tilt - 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 Control gear replaceability By professional IN18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,390 m² IP degree IP65 - - Mechanical resistance IK08 - -	MATERIALS	-	Driver	Included
OpticMetallic PC reflector and PMMA lenses anti-aging siliconeControl System2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h)Gasketanti-aging siliconeINSTALLATION AND MAINTENANCE-Locking Hook-Mounting and installationCeiling light - SuspensionExternal screwStainless steelTilt-ColourGrey RAL 7035WiringWith GW connect waterlight connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControl gear replaceabilityBy professionalIPEA-Maximum surface exposed to the wind0,390 m²IP degreeIP65Mechanical resistanceIK08-	Body	PA6 "Halogen Free" loaded fibreglass	Driver failure rate	F10 = 100.000h Tq25°C/50.000h Tq40°C
Gasket anti-aging silicone INSTALLATION AND MAINTENANCE - Locking Hook - Mounting and installation Ceiling light - Suspension External screw Stainless steel Tilt - 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 - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,390 m ² IP degree IP65 - - Mechanical resistance IK08 - -	Shield type	Tempered glass Thickness 4mm	Overvoltage protection	DM 6 kV / CM 10 kV
Locking Hook-Mounting and installationCeiling light - SuspensionExternal screwStainless steelTilt-ColourGrey RAL 7035WiringWith GW connect watertight connectorSTANDARDS AND APPROVALS-Fixing-Classification-Light souce replaceabilityBy professionalDevice with reduced surface temperatureYesControlgear replaceabilityBy professionalDIN 18032-3 certification-Driver BoxBuilt-inIPEA-Maximum surface exposed to the wind0,390 m²Insulation classIIP degreeIP65-Mechanical resistanceIK08-	Optic	Metallic PC reflector and PMMA lenses	Control System	2 x DALI DT6 + 1 x DALI DT1 (Emerg. 3h)
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STANDARDS AND APPROVALSFixingClassificationLight souce replaceabilityBy professionalDevice with reduced surface temperatureYesControlgear replaceabilityBy professionalDIN 18032-3 certificationDriver BoxBuilt-inIPEAMaximum surface exposed to the wind0,390 m²Insulation classI-IP degreeIP65-Mechanical resistanceIK08-	External screw	Stainless steel	Tilt	-
Classification - Light souce replaceability By professional Device with reduced surface temperature Yes Controlgear replaceability By professional DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,390 m ² Insulation class I - - IP degree IP65 - 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 - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,390 m² Insulation class I - IP degree IP65 - Mechanical resistance IK08 -	STANDARDS AND APPROVALS	-	Fixing	-
DIN 18032-3 certification - Driver Box Built-in IPEA - Maximum surface exposed to the wind 0,390 m² Insulation class I - IP degree IP65 - Mechanical resistance IK08 -	Classification	-	Light souce replaceability	By professional
IPEA - Maximum surface exposed to the wind 0,390 m² Insulation class I - IP degree IP65 - Mechanical resistance IK08 -	Device with reduced surface temperature	e Yes	Controlgear replaceability	By professional
Insulation class I - IP degree IP65 - Mechanical resistance IK08 -	DIN 18032-3 certification	-	Driver Box	Built-in
IP degree IP65 - Mechanical resistance IK08 -		-	Maximum surface exposed to the wind	0,390 m²
Mechanical resistance IK08 -	Insulation class	I		-
				-
Glow Wire Test 850 °C -	Mechanical resistance	IK08		-
	Glow Wire Test	850 °C		-

DIMENSIONAL



PHOTOMETRIC DISTRIBUTION





Data, measures, designs and pictures are for information purpose only, last update 20/04/2023. 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

Product Data Sheet GWS4424BH840

SMART [4]

STANDARDS/APPROVALS

