



# Vision Smart Lighting Application Guide

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# Tamlite Vision Smart Lighting

Lighting is arguably the most fundamental building service; every room, floor and premises needs it in order for its occupants to operate effectively. Smart lighting, therefore, creates smarter buildings.

Our wireless Vision Smart range will enhance day to day management of buildings, corporate sustainability, occupant wellbeing and productivity. Smart lighting brings the future of buildings to the present.

This guide highlights how Vision Smart can help in key applications.

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# Lighting Controls

Vision Smart removes the need for manual lighting control in commercial applications. The wireless lighting network enhances space utilisation and energy management, as well as automating and simplifying emergency self-testing.

This advanced lighting system is an easy-to-install, fully scalable network solution, which can range from a single room to an entire estate with no additional wiring or commissioning.

As 80%\* of the buildings occupied in 2050 have already been built, Vision Smart is the ideal retro-fit solution.

\*Source: UK Green Building Council



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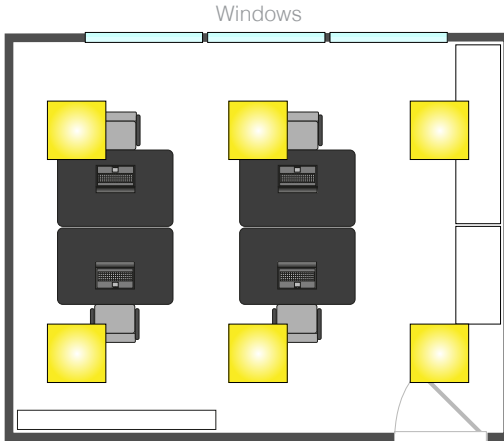
# Vision Smart for **Offices**

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# Small Office

- 6 recessed modules providing c.350 lux average
- Simple control of the lighting in a small office
- Basic on/off presence detection as well as daylight harvesting throughout the room

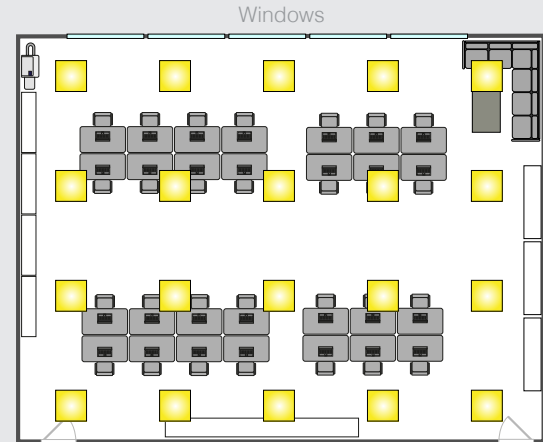
## Luminaires Used

- LGK300NWDVS1: LOGIK – low glare, 23W, 4000K, Vision Smart PIR Sensor x 1
- LGK300NWDVS3: LOGIK – low glare, 23W, 4000K, Vision Smart PIR Sensor and Daylight Sensor x 1
- LGK300NWDVS: LOGIK – low glare, 23W, 4000K, Vision Smart Enabled x 4

See pages 44-45 for additional options.

# Open Plan

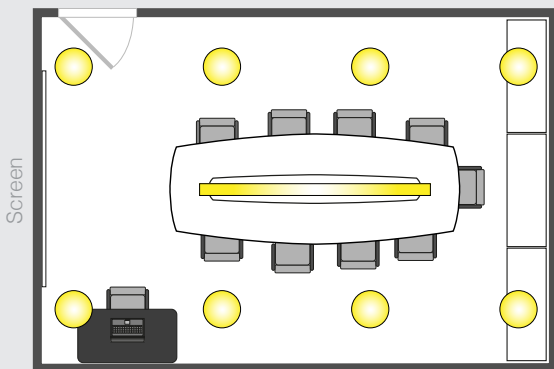
- 20 recessed modules providing c.400 lux average
- PIR controls to be utilised throughout the office
- Daylight harvesting to be utilised near the windows
- Time clock used to control the intensity of the lighting throughout the day to enhance occupant wellbeing



## Luminaires Used

- ADV300NWDVS: ADVANCE – low glare, 25W, 4000K, Vision Smart Enabled x 9
- ADV300NWDVS1: ADVANCE – low glare, 25W, 4000K, Vision Smart PIR Sensor x 4
- ADV300NWDD3VS: ADVANCE – low glare, 25W, 4000K, Vision Smart Enabled, Emergency Version x 6
- ADV300NWDVS3: ADVANCE – low glare, 25W, 4000K, Vision Smart PIR Sensor, Daylight Sensor x 1

See pages 44-45 for additional options.



### Luminaires Used

- SGN4530ONWBDD3VS: SIGNUM – linear, 41W, 4000K, Opal Diffuser, Black, Vision Smart Enabled, Emergency Version x 1
- IKN200SBBDNWVS: IKON – downlight, 18W, 4000K, Spot Beam, Black Reflector, Vision Smart Enabled x 8

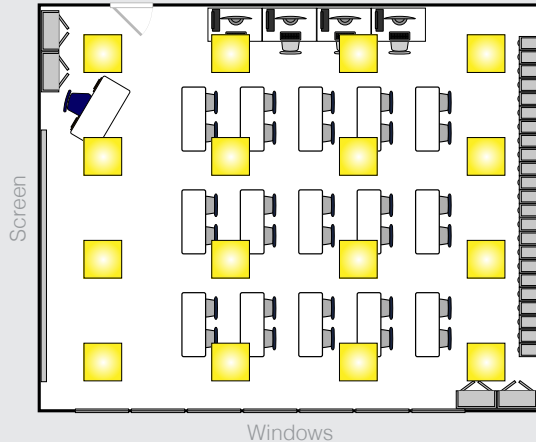
# Meeting Room

- 8 downlights and one suspended linear luminaire providing c.300 lux average
- Flexible lighting control for a small meeting room
- Lights grouped into two separate areas (table & ancillary)
- Six flexible lighting scenes



# Vision Smart for Education





### Luminaires Used

- MBL6630NWDVS1: MODLED BL – backlit, 29W, 4000K, Vision Smart PIR Sensor x 7
- MBL6630NWDD3VS1: MODLED BL – backlit, 29W, 4000K, Vision Smart PIR Sensor, Emergency Version x 4
- MBL6630NWDVS3: MODLED BL – backlit, 29W, 4000K, Vision Smart PIR Sensor, Daylight Sensor x 1

# Classrooms

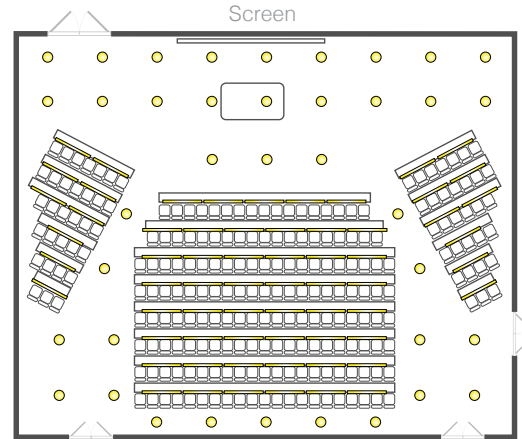
- 16 recessed modules providing c.300 lux average
- PIR controls to be utilised throughout the classroom with daylight harvesting to be utilised by the windows
- Five scenes programmed for flexible light levels, one programmed for fixtures by the screen to dim but other lights to maintain maximum brightness
- One scene being programmed to turn the lights off

See pages 44-45 for additional options.



# Lecture Theatres

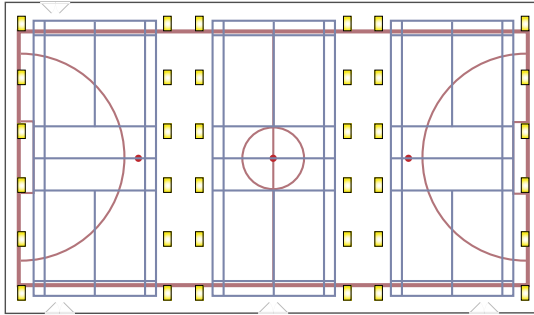
- 65 recessed linear luminaires and 38 downlights providing c.500 lux average
- Five scenes programmed for flexible light levels, one programmed for fittings by the screen to dim but other lights to maintain maximum brightness
- One scene being programmed to turn the lights off
- Downlights grouped to dim separately to the linear luminaires
- Can set staged dimming across the lecture theatre



## Luminaires Used

- SGR5340NWDVS1: SIGNUM – linear, 28W, 4000K, Vision smart PIR Sensor x 45
- SGR5340NWDD3VS1: SIGNUM – linear, 28W, 4000K, Vision smart PIR Sensor, Emergency Version x 20
- IKN200MBNWDVS: IKON – downlight, 18W, 4000K, Medium Beam, Vision Smart Enabled x 25
- IKN200MBNWDD3VS: IKON – downlight, 18W, 4000K, Medium Beam, Vision Smart Enabled, Emergency Version x 13

See pages 44-45 for additional options.



### Luminaires Used

- EXP1630WBNWDVS: EXPO – high/low bay, 112W, 4000K, Wide Beam, Vision Smart Enabled x 18
- EXP1630WBNWDD3VS: EXPO – high/low bay, 112W, 4000K, Wide Beam, Vision Smart Enabled, Emergency Version x 18

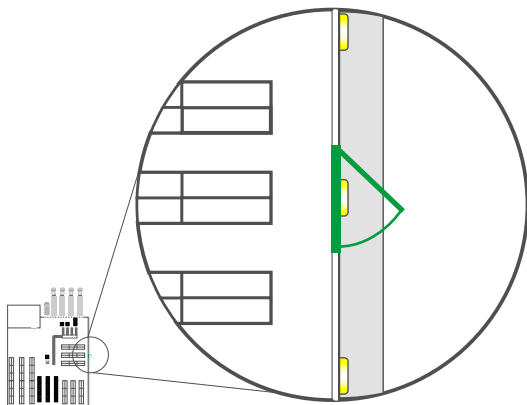
# Sports Halls

- 36 high bay luminaires providing variable illumination levels
- Five scenes programmed for flexible light levels to cater for multiple sports, ranging from 300 lux to 1500 lux average
- One scene being programmed to turn the lights off

See pages 44-45 for additional options.

## Vision Smart for Urban





### Luminaires Used

- HURL173LEDNWDVSM: HURRICANE – bulkhead, 17W, 4000K, Eyelid, Vision Smart Microwave Sensor x 2
- HURL173LEDNWDVSM: HURRICANE – bulkhead, 17W, 4000K, Eyelid, Vision Smart Microwave Sensor, Emergency Version x 1

# External Walkways

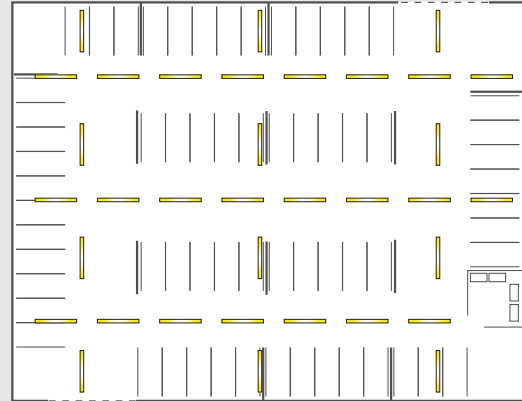
- 3 bulkheads providing c.15 lux average
- Lights programmed to turn on/off via time clock
- Microwave occupancy sensors utilised to turn lights up from a dimmed level when occupancy is detected

See pages 44-45 for additional options.

# Indoor Car Parks

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- 35 weatherproofs providing c.75 lux average
- Lights programmed to stay lit at a lower level in quieter hours
- Fixtures grouped in sets of three, ensuring lights turn on when motorists are driving around the car park



## Luminaires Used

- EWPL1537NWDVSB1: XTREME – weatherproof, 28W, 4000K, Vision Smart Batten-Fit PIR Sensor x 20
- EWPL1537NWDD3VSB1: XTREME – weatherproof, 28W, 4000K, Vision Smart Batten-Fit PIR Sensor, Emergency Version x 15

See pages 44-45 for additional options.

# Vision Smart for Retail

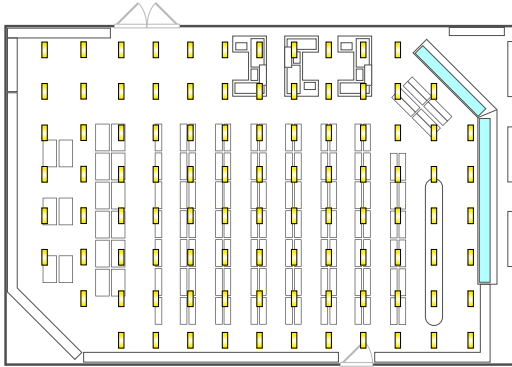
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## Wine Fitting

1. Taste these wines
2. Create your profile



### Luminaires Used

- REVCULD1850NWVDV3: REVO COMFORT – high bay, 163, 4000K, dimmable, uplighter, Vision Smart Enabled x 29
- REVCULD1850NWDD3V3: REVO COMFORT – high bay, 163, 4000K, dimmable, uplighter, Vision Smart Enabled, Emergency Version x 49

# Retail Sheds

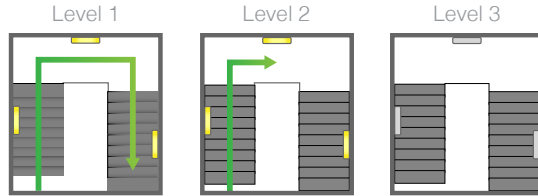
- 98 high bay fittings providing c.750 lux average
- Time clock used to bring lights on at 50% before opening hours for de-stocking and re-stocking shelves, as well as general maintenance
- Fittings turn to 100% once store opens to customers

See pages 44-45 for additional options.



## Vision Smart for Communal





### Luminaires Used

- SLRL220NWWDVSM: SOLAR LARGE – bulkhead, 19W, 4000K, White, Vision Smart Microwave Sensor x 3
- SLRL220NWWDD3VSM: SOLAR LARGE – bulkhead, 19W, 4000K, White, Vision Smart Microwave Sensor, Emergency Version x 6

# Stairwells

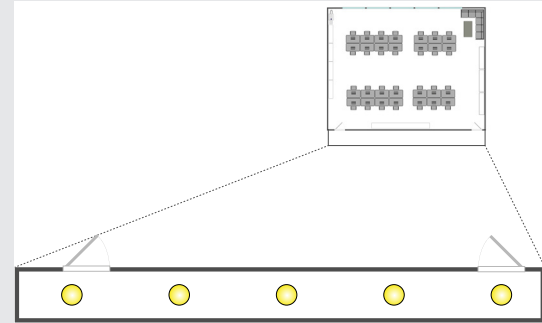
- 9 bulkheads providing c.100 lux average
- Once a fitting on each floor detects occupancy it will turn on the other two luminaires
- Once the last fitting on each floor is triggered, it will turn on the light on the next floor

See pages 44-45 for additional options.

# Corridors

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- 5 downlights providing c.100 lux average
- Lights to turn on via occupancy
- Fittings grouped together so will all respond to each PIR sensor, if one turns on, they will all turn on



## Luminaires Used

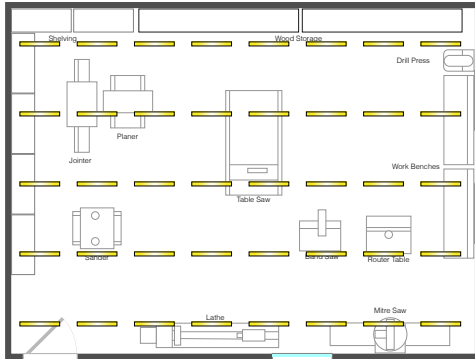
- AST220NWDVS1: ASTRO – downlight, 20W, 4000K, Vision Smart PIR Sensor x 2
- AST220NWDD3VS1: ASTRO – downlight, 20W, 4000K, Vision Smart PIR Sensor, Emergency Version x 3

See pages 44-45 for additional options.

# Vision Smart for Industrial

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### Luminaires Used

- TBX5400NWDVSB1M: TBX – batten, 27W, 4000K, Vision Smart Mid-Bay PIR Sensor x 24
- TBX5400NWDVSB3M: TBX – batten, 27W, 4000K, Vision Smart Mid-Bay PIR Sensor and Daylight Sensor x 1
- TBX5400NWDD3VSB1M: TBX – batten, 27W, 4000K, Vision Smart Mid-Bay PIR Sensor, Emergency Version x 15

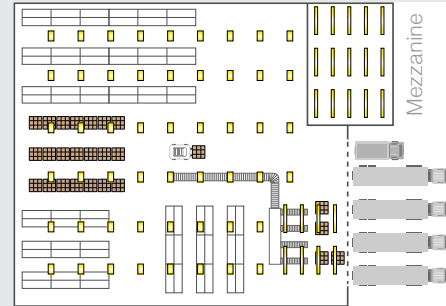
# Workshop

- 40 battens providing c.1000 lux average
- PIR occupancy to be utilised throughout the workshop
- Daylight harvesting working in conjunction with windows and skylights

See pages 44-45 for additional options.

# Factory

- 47 high bay and 30 weatherproof luminaires providing c.300 lux average
- PIR occupancy and daylight harvesting to be utilised throughout the factory
- Time Clock utilised to dim lights in unused factory areas, but keeps the loading area's fittings lit at full output



## Luminaires Used

- EXP2100WBNWDVSB1M: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart Mid-Bay PIR Sensor x 25
- EXP2100WBNWDD3VSB1M: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart Mid-Bay PIR Sensor, Emergency Version x 21
- EXP2100WBNWDVSB3M: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart Mid-Bay PIR Sensor, Daylight Sensor x 1
- EWPL1560NWDVSB1: XTREME – weatherproof, 51W, 4000K, Wide Beam, Vision Smart PIR Sensor x 18
- EWPL1560NWDD3VSB1: XTREME – weatherproof, 51W, 4000K, Wide Beam, Vision Smart PIR Sensor, Emergency Version x 12

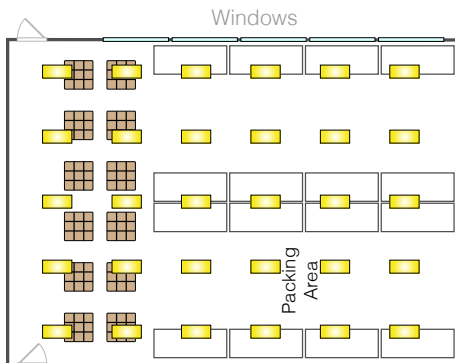
See pages 44-45 for additional options.

# Vision Smart for Warehouse

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# Open Areas

- 24 high bay luminaires providing c.300 lux average
- PIR occupancy and daylight harvesting to be utilised throughout the shop floor
- Lights to dim to 20% when there is no occupancy

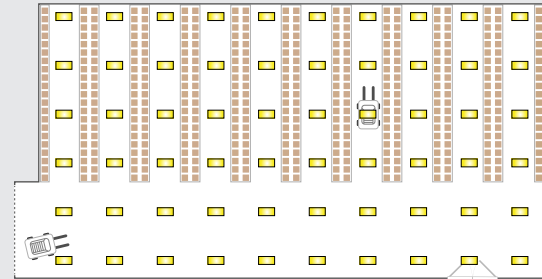
## Luminaires Used

- EXP2100WBNWDVSB1H: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart High-Bay PIR Sensor x 11
- EXP2100WBNWDVSB3H: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart High-Bay PIR Sensor, Daylight Sensor x 1
- EXP2100WBNWDD3VSB1H: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart High-Bay PIR Sensor, Emergency Version x 12

See pages 44-45 for additional options.

# Racking

- 60 high bay luminaires providing c.200 lux average
- PIR occupancy and daylight harvesting to be utilised throughout the racking
- Lights dim down to 10% to reduce “cave effect”
- Fittings grouped together so half the rack would turn on when the initial light is triggered



## Luminaires Used

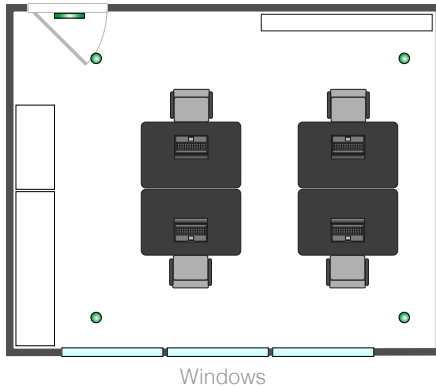
- EXP1630UHRNWVDSB1H: EXPO – high bay, 138W, 4000K, Ultra High Rack, Vision Smart High-Bay PIR Sensor x 20
- EXP1630UHRNWDD3VSB1H: EXPO – high bay, 138W, 4000K, Ultra High Rack, Vision Smart High-Bay PIR Sensor, Emergency Version x 20
- EXP2100WBNWVDSB1H: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart High-Bay PIR Sensor x 10
- EXP2100WBNWDD3VSB1H: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart High-Bay PIR Sensor, Emergency Version x 9
- EXP2100WBNWDD3VSB3H: EXPO – high bay, 138W, 4000K, Wide Beam, Vision Smart High-Bay PIR Sensor, Daylight Sensor, Emergency Version x 1

See pages 44-45 for additional options.

# Vision Smart for Emergency

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### Luminaires Used

- ESLD3VS: ELITE SL – emergency downlight, 2W, Vision Smart Enabled x 4
- ELXMD3E3VS: ELITE EB – emergency exit box, 4W, Arrow Down, Vision Smart Enabled x 1

# Open Plan Areas

- 6 emergency fittings providing c.0.5 lux average
- Emergency downlights implemented around the office, highlighting escape routes
- Emergency signage by doors signifying routes out of the room

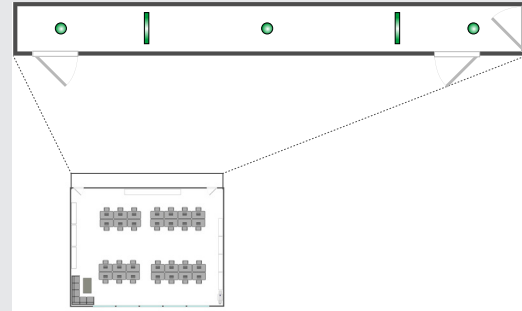
See pages 44-45 for additional options.



# Escape Route

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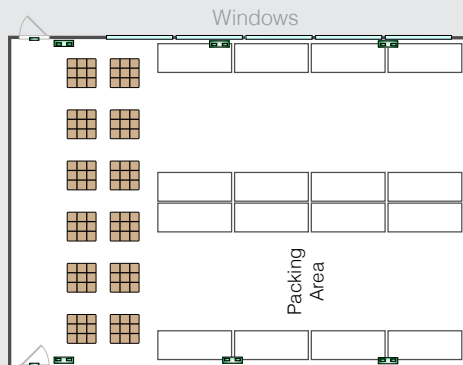
- 7 emergency luminaires providing c.1 lux average
- Self-testing emergency fittings highlight the quickest escape route out of the building
- Combination of downlights and signage ensures sufficient illumination on the ground



## Luminaires Used

- ELDD3E3VS: ELITE DL – emergency drop light, 3W, Arrow Down, Vision Smart Enabled x 2
- ELXMD3E3VS: ELITE EB – emergency exit box, 4W, Arrow Down, Vision Smart Enabled x 1
- ESLD3VS: ELITE SL – emergency downlight, 2W, Vision Smart Enabled x 3

See pages 44-45 for additional options.



# Open Plan Areas

- 8 emergency luminaires providing c.0.5 lux average
- Wireless Emergency self-test, dedicated high output fittings for a small, open area warehouse

## Luminaires Used






- ELXMD3E3VS: ELITE EB – emergency exit box, 4W, Arrow Down, Vision Smart Enabled x 2
- ELTD3VS: ELITE TS – emergency twin spot, 2W, Vision Smart Enabled x 6



# Product Matrix





VISION SMART options are available on the following Tamlite products.

Standard luminaires require DALI dimming control gear (Tamlite suffix is 'D') for best use but dedicated emergency luminaires can operate with emergency DALI self test gear only (Tamlite suffix 'D3')

RECESSED MODULE			
	Product	Vision Smart	Sensor
	ADVANCE	VS	VS1 or VS3 - Integral
	CAPITAL		
	HORIZON COMFORT/FOCUS		
	LOGIK		
	MODLED <sup>®</sup> /LG		VS1 or VS3 - Remote

\*Lighting control options are available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.




# Product Matrix

DOWNLIGHT			
	Product	Vision Smart	Sensor
	ASTRO	VS	VS1 or VS3 - Remote
	HYLITE		
	i5		
	IKON		

\*Lighting control options are available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.


# Product Matrix

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PENDANT			
	Product	Vision Smart	Sensor
	SAPPHIRE	VS	N/A
LINEAR SYSTEM			
	Product	Vision Smart	Sensor
	I LINE	VS	VS1/VS1M/VS1H or VS3/VS3M/VS3H - Integral
	SIGNUM		




\*Lighting control options are available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.

# Product Matrix

HIGH/LOW BAY			
	Product	Vision Smart	Sensor
	EXPO	VSB	VSB1/VSB1M/VB1H or VSB3/VSB3M/ VSB3H - Integral
	EXPO WP		
	REVO COMFORT		
	REVO FOCUS		
	REVO SPORT		







\*Lighting control options are available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.

# Product Matrix

BATTEN			
	Product	Vision Smart	Sensor
	TBX	VSB	VSB1/VSB1M/VSB1H or VSB3/VSB3M/VS- B3H - Integral
SURFACE MODULE			
	Product	Vision Smart	Sensor
	PRIMA	Integral	VS1/VS1M/VS1H or VS3/VS3M/VS3H or VSM - Integral
WEATHERPROOF			
	Product	Vision Smart	Sensor
	XTREME	Integral	VSB1/VSB1M/VSB1H or VSB3/VSB3M/VS- B3H or VSM - Integral

\*Lighting control options are available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.

# Product Matrix








WALL EXTERIOR			
	Product	Vision Smart	Sensor
	HURRICANE	VS	VSM - Integral
WALL INTERIOR			
	Product	Vision Smart	Sensor
	DELTA	VS	VSM - Integral
	LUNAR		
	NIMROD		
	SOLAR S		
	SOLAR L		

\*Lighting control options are available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.

VSM - Microwave





# Product Matrix

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EMERGENCY		
	Product	Vision Smart
	ELITE BH	VS
	ELITE BL	
	ELITE DL	
	ELITE EB	
	ELITE SL	
	ELITE TS/WP	
	WP EXIT BOX	







\*Lighting control options area available on certain products as an integral, built-in device or as a remote device directly connected to the luminaire.

# Product Matrix

ADDITIONAL OPTIONS	
Product	
	VSSC - Scene Plate
	VSBLU - Bluetooth Recorder
	VSHUB - Collator
	VSTAB - Tablet
Software Licence	VSLIC - Software licence for remote management/monitoring software (one-off fee)
System Commissioning	VSCOM - On-site commissioning for controllers/sensors and system parameters (full day)



# Product Matrix

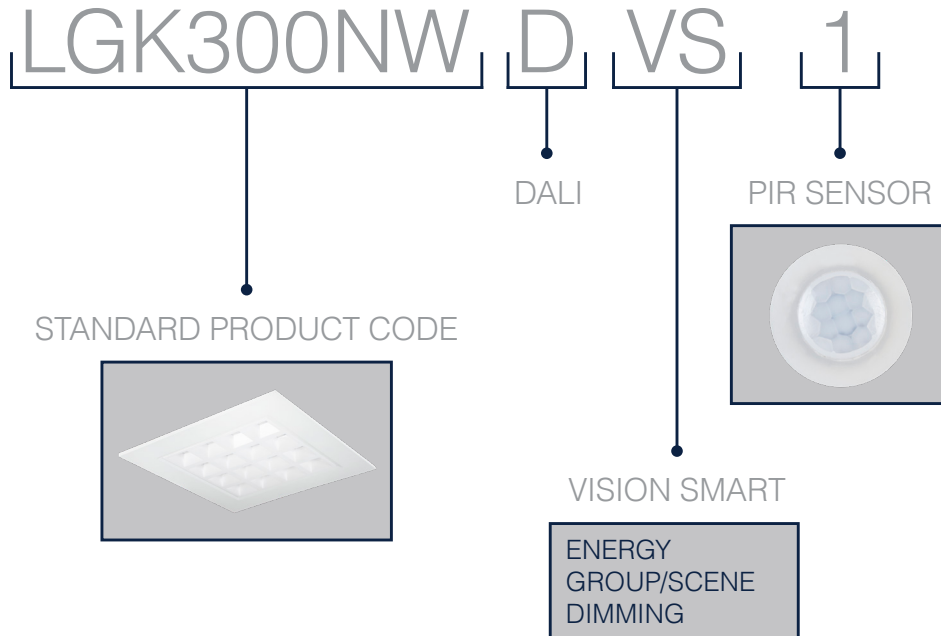
VISION SMART SENSORS		
	Product	Description
	VS1 - <6m	Integral or stand-alone
	VS1M - <12m	Integral or stand-alone
	VS1H - <16m	Integral or stand-alone
	VS3/VS1*	Integral or stand-alone
	VSB1/B3 - <6m VSB1M/B3 - <12m VSB1H/B3 - <16m	Integral
	VSM	Integral

\*VS3 - Picture shows remote sensor (2 separate sensors supplied, 1 required per area)

# How to Specify

Please refer to the below example when identifying Vision Smart products.

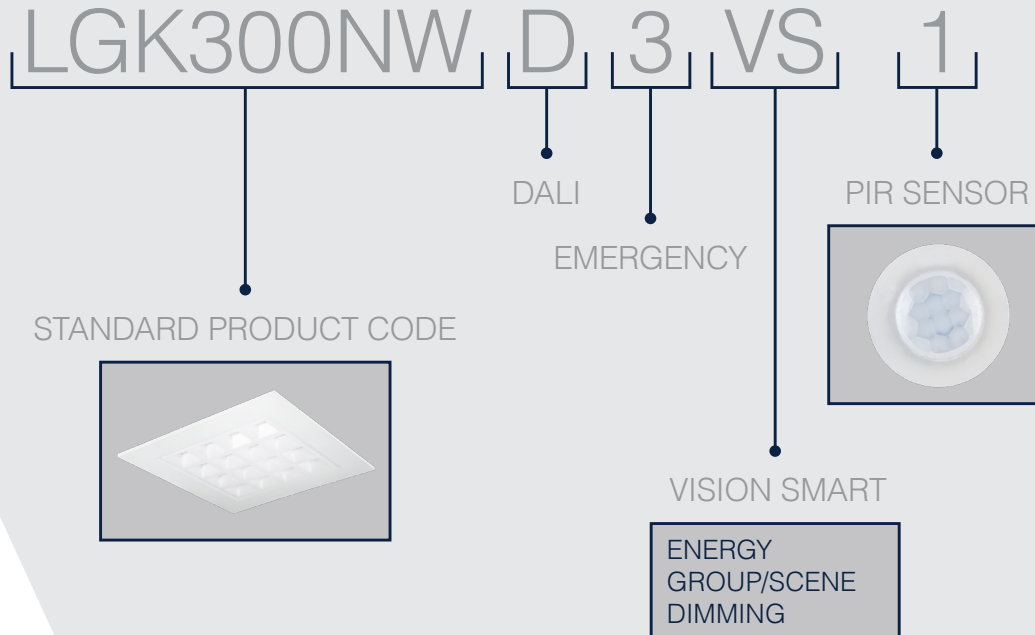
- LGK300NWDVS1: LOGIK – low glare, 23W, 4000K, Vision Smart PIR Sensor
- LGK300NWDVS: LOGIK – low glare, 23W, 4000K, Vision Smart



# How to Specify

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- LGK300NWD3VS1: LOGIK – low glare, 23W, 4000K, Emergency DALI self test, Vision Smart PIR Sensor
- LGK300NWD3VS: LOGIK – low glare, 23W, 4000K, Emergency DALI self test, Vision Smart



# Lighting for **a Living**



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