

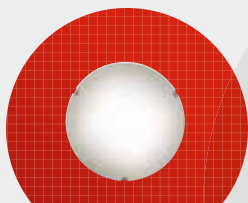
THORN

Replaces
1x28W 2D
1x38W 2D

Up to 63%
Energy saving

Leopard LED

INTERIOR & EXTERIOR
LUMINAIRE



Fast. Simple. Affordable.

Performance

- 1200lm LED, direct replacement for 28W 2D and 1900lm LED direct replacement for 38W 2D
- >90lm/cW – exceeds building regulation requirements
- 50 000 hour rated life, equivalent to 13 years at 10 hours per day operation
- Integrated LED and driver platform reducing shadowing and improving light uniformity
- 4000K neutral white LED
- Integral 3hr duration emergency operation, eliminating the need for separate emergency lighting installation
- Integrated microwave presence sensor maximises energy saving potential
- Sensor versions suitable for use as Master or Slave luminaires

Standards



EN
60598

IK10

IP65



CE



**1200lm LED,
direct replacement
for 28W 2D**

**1900lm LED,
direct replacement
for 38W 2D**

Construction

- Sealed to IP65 for exterior applications. Dust tight to stop dirt ingress and jet proof for ease of cleaning
- IK10 rated impact resistance provided by vandal resistant polycarbonate base and diffuser
- Robust enamel coated steel LED platform for heat dissipation, prolonging the LED life



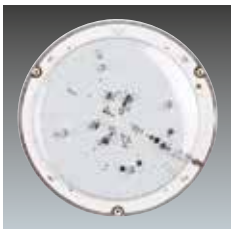


Installation

- Suitable for wall or ceiling mounting
- BESA box entry on rear, ideal for retrofit installations
- 25mm conduit side entry for through wiring
- 3 way terminal block for 2 x 2.5mm² cable
- Quick and easy installation



• Wall or ceiling mounted



• LED module



• Easy installation

Sample layout - Room 1

Room 1 Area – 6 rows of 1 luminaire



| | | | |
|---------------------------|--------------|------------------|---------------------------------|
| Mounting height | 3.0m | Luminaire | LEOPARD 1200 LED2 OP RD WH L840 |
| Work Plane | 0.75m | Lamp | LED |
| Maintenance factor | 0.80 | Lumens | 7200 lm |
| Reflectances | Ceiling: 70% | Lux | Average: 107 lx |
| | Wall: 50% | | Direct: 73 lx |
| | Floor: 20% | | Indirect: 34 lx |

Sample layout - Room 2

Room 2 Area – 4 rows of 1 luminaire



| | | | |
|---------------------------|--------------|------------------|---------------------------------|
| Mounting height | 3.0m | Luminaire | LEOPARD 1900 LED2 OP RD WH L840 |
| Work Plane | 0.75m | Lamp | LED |
| Maintenance factor | 0.80 | Lumens | 7812 lm |
| Reflectances | Ceiling: 70% | Lux | Average: 118 lx |
| | Wall: 50% | | Direct: 81 lx |
| | Floor: 20% | | Indirect: 37 lx |

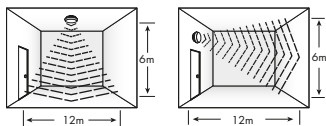
Energy and cost savings





Based on:

- Complete building point for point upgrade
- Luminaires – 10 x 1200lm LED vs 10 x 28W 2D switch start
- Usage - 14hrs/day, 5 days per week, 3640hrs/year.
- Energy price - £0.15/KWh

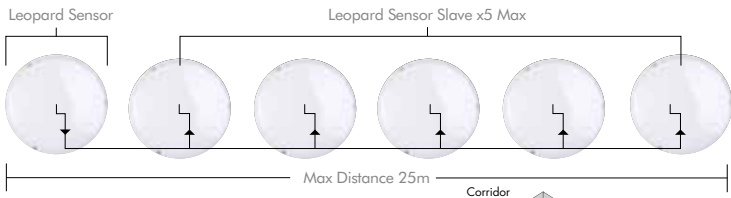
Sensor Range



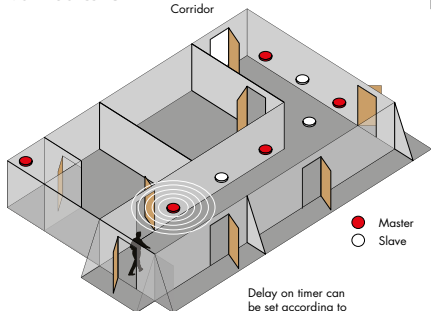
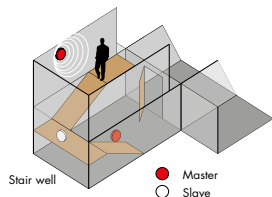
Controlability

| | |
|--|-----------------|
|  Distance | 1m to 12m |
|  Time | 10sec to 30mins |
|  lux | 5lux to 50lux |

Master and Slave



Examples of Master and Slave Function



Delay on timer can be set according to the scheme

CONTACT DETAILS

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website: **www.thornlighting.co.uk/LPRD**



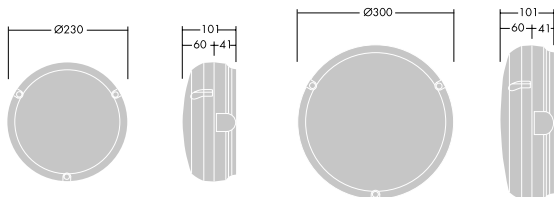
5 Year Warranty

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries. Effective from 1st May 2015.

Ordering Guide

| Description | | Size | Wt (Kg) | SAP Code | Cat. No. |
|------------------------|--|-------|---------|----------|--------------|
| Small Body | | | | | |
| HF | LEOPARD 1200 LED2 OP RD WH L840 | Small | 0.95 | 96617046 | LER12ZOPW |
| HF Emergency | LEOPARD 1200 LED2 E3 OP RD WH L840 | Small | 1.18 | 96617047 | LER12ZEOPW |
| Large Body | | | | | |
| HF | LEOPARD 1200 LED2 OP RD L WH L840 | Large | 1.22 | 96242233 | LERL12ZOPW |
| | LEOPARD 1900 LED2 OP RD WH L840 | Large | 1.45 | 96617051 | LERL19ZOPW |
| HF Emergency | LEOPARD 1200 LED2 E3 OP RD L WH L840 | Large | 1.45 | 96242234 | LERL12ZEOPW |
| | LEOPARD 1900 LED2 E3 OP RD WH L840 | Large | 1.70 | 96617052 | LERL19ZEOPW |
| HF Sensor | LEOPARD 1200 LED2 MWS OP RD L WH L840 | Large | 1.30 | 96242235 | LERL12ZSOPW |
| | LEOPARD 1900 LED2 MWS OP RD WH L840 | Large | 1.50 | 96242237 | LERL19ZSOPW |
| HF Sensor Emergency | LEOPARD 1200 LED2 E3 MWS OP RD L WH L840 | Large | 1.55 | 96242236 | LERL12ZSEOPW |
| | LEOPARD 1900 LED2 E3 MWS OP RD WH L840 | Large | 1.70 | 96242238 | LERL19ZSEOPW |

Product Dimensions



LED 1200lm

LED 1200/1900lm