

horizon LED anti-ligature

anti-ligature surface
mounted LED luminaire



Optics

- Light output options:
 - 900 lumens (3K – 19W*)
 - 1200 lumens (3K – 28W*)
 - 1000 lumens (4K – 19W*)
 - 1300 lumens (4K – 28W*)
- *Total power consumption including driver
- High quality, single bin LEDs with a 4 MacAdam ellipse tolerance
- 50,000 hours life expectancy

Body

- Heavy gauge steel spinning finished white
- Flush mounting on ceiling or wall
- 3 or 4 mounting points with 3 tamper proof front face fixings
- Flame retardant opal polycarbonate diffuser
- Optional Command 5 microwave sensor mounted behind the diffuser

Order Codes

Surface	Fixed Output	3 hr Emergency
900 lumens 3K	HRAL93K	HRAL93KEM
1200 lumens 3K	HRAL123K	HRAL123KEM
1000 lumens 4K	HRAL104K	HRAL104KEM
1300 lumens 4K	HRAL134K	HRAL134KEM

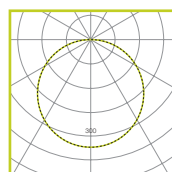
Options

EASYTEST	Add suffix /ET	i.e. HRAL93K/ET
COMEPS	Add suffix /EP	i.e. HRAL93K/EP
COMMAND 5	Replace L with Q5	i.e. HRAQ593K
SPECIAL TOOL REQUIRED FOR ACCESS AND FIXING		HAL-KEY

LED Performance

Colour Temp	Ra (CRI)	Life Expectancy	Colour Consistency
3K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 4 SDCM
4K	≥ 80	L ₇₀ (50,000hrs)	MacAdam 4 SDCM

Photometric Performance



19W LED
1000 lumens
• LOR = 100%
• SHR MAX = 1.64

Utilisation Factors UF(F)

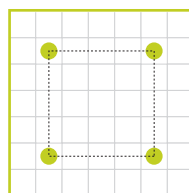
Room Reflectance			Room Index		
C	W	F	1.00	3.00	5.00
0.70	0.50	0.20	0.67	0.95	1.02



Tamper Proof Screws

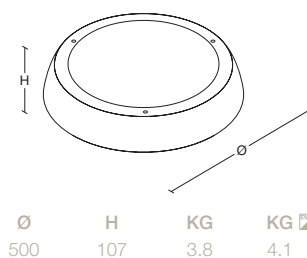
Performance Guide

Lamps	Illuminance	Spacing
28W LED	200 lux	2.4m x 2.4m



Maintenance: 0.8
Reflectance: 70/50/20
Ceiling Height: 2.7m
Working Plane: 0.8m

Dimensions



To Specify

Surface mounted, vandal resistant, anti-ligature luminaire with 3 or 4 mounting points and 3 tamper proof front face fixings for maintenance access with LED light source and emergency options. Flame retardant opal diffuser with spun steel body – as Whitecroft Lighting HORIZON LED ANTI-LIGATURE