



LED Sensor Flood Lighting

LFL-C Series: 20W passive infrared motion sensor LED flood light with U-shape bracket

The LFL-C Series combines efficient LED flood lighting with customisable motion-sensing technology to compound your energy savings. Available in 20W with adjustable ambient light sensitivity, on-time delay and passive infrared (PIR) motion detection to deliver energy efficient lighting and ideal for security and general purpose lighting.

The LFL-C Series is built with a metal, IP65 rated weather resistant chassis, making them suitable for outdoor lighting in residential, commercial and industrial applications.

- Available in 6000K cool white with 120lm/W light output
- Effective light distribution with 120° beam angle
- Adjustable PIR detection up to 12m with a 140° arc.
- Adjustable on-time delay (5s ~ 5min)
- Adjustable U-shape mount with over 180° of motion
- Adjustable PIR bracket (180° panning with 90°~90° tilt)

Series Specifications

Model	LFL-C20-CS2
Series Name	LFL-C Series LED Sensor Flood Lights
Optical	
Light Output	2400lm
Luminous Efficacy	120lm/W
Colour Temperature	6000K
Colour Rendering Index	>80
Beam Angle	120°
Light Decay	L70 at 35,000 hours
Rated Lifespan	35,000 hours
Electrical	
Power Consumption	20W
Input Voltage	100 ~ 240VAC
Power Factor	> 0.95
Dimmable	N/A
General	
Ambient Sensor	2~2000lx (adjustable)
Motion Sensor	PIR: 140° arc up to 12m range (horizontally), Ø6m range (ceiling)
Sensor Calibration	Adjustable motion sensitivity and on-time delay (5s ~ 5min) - <i>Sensor mode cannot be disabled</i>
Ingress Protection	IP65
Plug / Socket / Base	Bare wire, unterminated
Reflector / Diffuser	Aluminium reflector / Tempered glass front
Housing Adjustments	+180° angle adjustable U-shape bracket / Fully adjustable PIR sensor stalk Adjustable PIR sensor bracket (180° panning, 90°~90° tilt)
Operating Environment	-20° ~ 50°C
Dimensions	204 x 206 x 37.5mm

Photometry																			
Illuminance at a Distance	<table border="1"> <thead> <tr> <th>Distance (m)</th> <th>Centre Beam Avg (lx)</th> <th>Beam Diameter (m)</th> </tr> </thead> <tbody> <tr> <td>1m</td> <td>290</td> <td>2.67</td> </tr> <tr> <td>2m</td> <td>72</td> <td>5.34</td> </tr> <tr> <td>3m</td> <td>32</td> <td>8.01</td> </tr> <tr> <td>4m</td> <td>18</td> <td>10.68</td> </tr> <tr> <td>5m</td> <td>11</td> <td>13.35</td> </tr> </tbody> </table>	Distance (m)	Centre Beam Avg (lx)	Beam Diameter (m)	1m	290	2.67	2m	72	5.34	3m	32	8.01	4m	18	10.68	5m	11	13.35
Distance (m)	Centre Beam Avg (lx)	Beam Diameter (m)																	
1m	290	2.67																	
2m	72	5.34																	
3m	32	8.01																	
4m	18	10.68																	
5m	11	13.35																	
Luminous Light Distribution	<table border="1"> <thead> <tr> <th>Angle (°)</th> <th>Units: cd</th> </tr> </thead> <tbody> <tr> <td>90°</td> <td>170</td> </tr> <tr> <td>75°</td> <td>340</td> </tr> <tr> <td>60°</td> <td>510</td> </tr> <tr> <td>45°</td> <td>680</td> </tr> <tr> <td>30°</td> <td>850</td> </tr> </tbody> </table>	Angle (°)	Units: cd	90°	170	75°	340	60°	510	45°	680	30°	850						
Angle (°)	Units: cd																		
90°	170																		
75°	340																		
60°	510																		
45°	680																		
30°	850																		

Ordering Information

Type	Series	Wattage	Colour Temperature	Sensor
LFL	- C	20 (20W)	- C (Cool white)	S (PIR Sensor)
LFL-C20-CS2: 20W LED Sensor Flood Light in Cool White				

Your local ENSA™ lighting professional: