

# PLUTO

## PLUTO FLAT

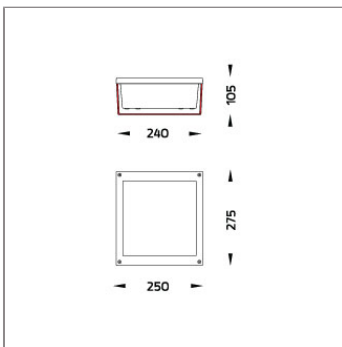
### WALL RECESSED



LAST UPDATE: 18-06-2024



Wall recessed fixtures PLUTO is available with LED light source in 2700K, 3000K or 4000K as well as with HID and compact fluorescent lamps. PLUTO-RAMP with its glare free downward light distribution is a perfect fitting for pathway or stair case illumination. PLUTO-Flat is assembled with a unique white ceramic-coated tempered glass and it illuminates not only the ground surface but also its surroundings. The slim-recess housing enables it to be installed in thin wall applications.



## Technical Data



|                       |                    |
|-----------------------|--------------------|
| Ordering Code :       | 6031-0-3-803-XX    |
| Lamp :                | LED                |
| CCT :                 | 3000 K             |
| CRI :                 | CRI >80            |
| SDCM :                | SDCM = 5           |
| Lamp Lumen :          | 1200 lm            |
| Luminaire Lumen :     | 600 lm             |
| Lamp Wattage :        | 12 W               |
| Luminaire Wattage :   | 14 W               |
| Efficacy :            | 50 lm/W            |
| Ambient Temperature : | 50°C               |
| Lumen Maintenance     | L70B10 >36,000 h   |
| Controller :          | On-Off             |
| Input Voltage :       | 220-240Vac 50/60Hz |
| Net Weight :          | 3.40 kg.           |

### Ordering code guide

XXXX-X-X-XXX-XX

A B C D E

- A Product Code
- B Reflector
- C Electrical Component
- D Lamp
- E Color



Icon definition

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Unilamp Co., Ltd.  
461 Ramintra Road, Kannayao, Bangkok 10230 Thailand  
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Fax : +66[0]2 943 2419  
online@unilamp.co.th  
www.unilamp.co.th

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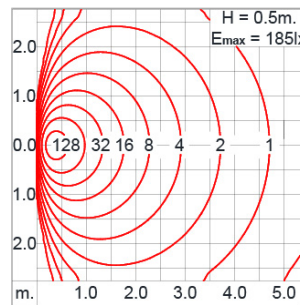
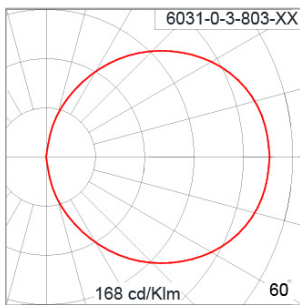


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#### Specification

|                         |   |  |          |  |             |  |              |  |                    |  |          |  |                 |
|-------------------------|---|--|----------|--|-------------|--|--------------|--|--------------------|--|----------|--|-----------------|
| IEC Standard            | IEC 60598-1 General Requirement<br>IEC 60598-2-2 Recessed Luminaires  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Protection              | IP65 Class I  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| IK Rating               | Protection against mechanical impact IK09 on body and IK07 optical part.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Luminaires Body Housing | High-pressure die cast aluminum alloy body and components.<br>Wall recessed housing made of GFR polymer.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Coating Process         | Nano Ceramic surface conversion, resistant to corrosive environment. Luminaire primarily coated with epoxy resin and top coated with UV stabilized polyester powder and cured in digital temperature controlled chamber at 200°C.                         |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Diffuser                | Impact resistant safety tempered glass cover. Able to withstand the temperature up to 250°C.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Gasket                  | Weather resistant silicone gasket. Working temperature -40°C to +200°C.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| External Screws         | External screws are in stainless steel with protection grease.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Cable Entry             | Cable entry protected by weather proof grommet. To be used with HO5RN-F/ HO7RN-F cable with 5-10mm. diameter.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Led                     | High efficiency LED module. Assembled on FR4 and mounted on to heat conductive material.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Internal Wire           | Tinned copper conductor with silicone insulated internal wire. IMQ approved. Working temperature -40°C to +180°C.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Terminal Block          | Terminal block in GFR PA6.6 for cable with cross section up to 2.5 sqmm. VDE approved.<br>Class1 luminaire provided with the earth connection.  |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Caution                 | Installation work has to be carried on according to the enclosed installation manual.   |  |          |  |             |  |              |  |                    |  |          |  |                 |
| Color                   | <table><tr><td></td><td>Black O1</td></tr><tr><td></td><td>Graphite O2</td></tr><tr><td></td><td>Dark Grey O3</td></tr><tr><td></td><td>Aluminum Silver O4</td></tr><tr><td></td><td>White O6</td></tr><tr><td></td><td>Wooden Brown O7</td></tr></table> |  | Black O1 |  | Graphite O2 |  | Dark Grey O3 |  | Aluminum Silver O4 |  | White O6 |  | Wooden Brown O7 |
|                         | Black O1  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Graphite O2   |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Dark Grey O3  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Aluminum Silver O4  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | White O6  |  |          |  |             |  |              |  |                    |  |          |  |                 |
|                         | Wooden Brown O7   |  |          |  |             |  |              |  |                    |  |          |  |                 |

#### Light Distribution



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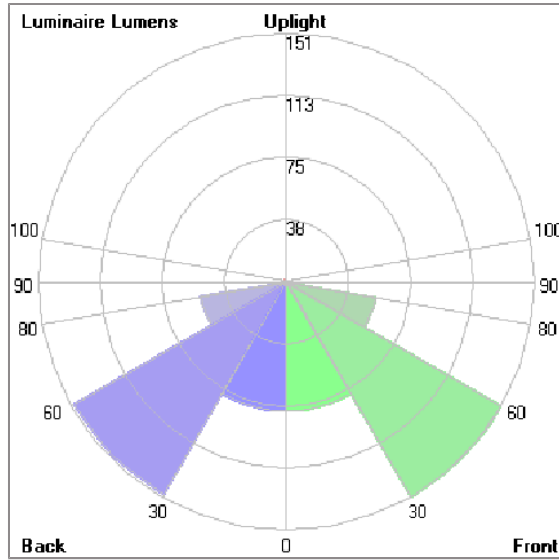
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#### Bug Report



#### Lum. Classification System [LCS]

| LCS        | Zone      | %Lumens  | %Lamp | %Lum  |
|------------|-----------|----------|-------|-------|
| FL         | [0-30]    | 78.8     | 6.6   | 13.8  |
| FM         | [30-60]   | 150.9    | 12.6  | 26.4  |
| FH         | [60-80]   | 55.0     | 4.6   | 9.6   |
| FVH        | [80-90]   | 3.8      | 0.3   | 0.7   |
| BL         | [0-30]    | 78.4     | 6.5   | 13.7  |
| BM         | [30-60]   | 148.8    | 12.4  | 26.0  |
| BH         | [60-80]   | 52.6     | 4.4   | 9.2   |
| BVH        | [80-90]   | 3.1      | 0.3   | 0.5   |
| UL         | [90-100]  | < 0.05   | 0.0   | 0.0   |
| UH         | [100-180] | 0.8      | 0.1   | 0.1   |
| Total      |           | 572.2    | 47.8  | 100.0 |
| BUG Rating |           | BO-U1-G0 |       |       |

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