

Last information update: May 2018

**large body - neutral white - flood optic****Product code**

N342

**Technical description**

Adjustable spotlight with adapter for installation on mains voltage track for high-performance LED source with CoB technology, with monochromatic Neutral White (4000K) emission. Product inclusive of flood optic reflector. The luminaire is made up of two die-cast aluminium cylinders. One cylinder houses the electronic components, while the other houses the optical assembly. Features 360° rotation around the vertical axis and 90° inclination with respect to the horizontal axis. The product is equipped with mechanical locking devices to facilitate aiming. Passive cooling system. A series of flat accessories can be installed, including refractor for elliptical distribution, soft lens, baffle and diffusion filter, as well as one of the following external accessories: anti-glare screen, wall-washer screen and cross baffle.

**Installation**

Mounted on electrified track or on base

**Dimension (mm)**

Ø69x165

**Colour**

White (01) | Black (04)

**Weight (Kg)**

1.1

**Mounting**

three circuit track|ceiling surface

**Wiring**

Product inclusive of electronic components

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

**Product configuration: N342****Product characteristics**

Total lighting output [Lm]: 2621  
 Total power [W]: 23.8  
 Luminous efficacy [Lm/W]: 110.1  
 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0  
 Emergency luminous flux [Lm]: /  
 Voltage [V]: -  
 Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 82  
 Lamp code: LED  
 ZVEI Code: LED  
 Nominal power [W]: 21  
 Nominal luminous [Lm]: 3200  
 Lamp maximum intensity [cd]: /  
 Beam angle [°]: 42°

Number of lamps for optical assembly: 1  
 Socket: /  
 Ballast losses [W]: 2.8  
 Colour temperature [K]: 4000  
 CRI: 80  
 Wavelength [Nm]: /  
 MacAdam Step: 2

**Polar**

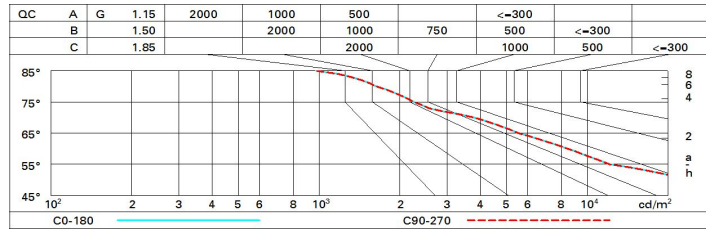
| Imax=4350 cd |      | CIE<br>nL 0.82<br>96-100-100-100-82<br>UGR 22.0-22.0<br>DIN<br>A.61<br>UTE<br>0.82A+0.00T<br>F*1=963<br>F*1+F*2=996<br>F*1+F*2+F*3=1000 | Lux |     |      |      |
|--------------|------|---|-----|-----|------|------|
| 90°          | 180° |   | h   | d   | Em   | Emax |
|              |      | 2   | 1.5 | 840 | 1088 |      |
|              |      | 4   | 3.1 | 210 | 272  |      |
|              |      | 6   | 4.6 | 93  | 121  |      |
|              |      | 8   | 6.1 | 53  | 68   |      |

α=42°

Utilisation factors

| R    | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 73 | 69 | 66 | 63 | 68 | 65 | 65 | 62 | 76  |
| 1.0  | 76 | 72 | 70 | 68 | 72 | 69 | 69 | 66 | 81  |
| 1.5  | 80 | 77 | 75 | 74 | 77 | 75 | 74 | 71 | 87  |
| 2.0  | 83 | 81 | 79 | 78 | 80 | 78 | 77 | 75 | 92  |
| 2.5  | 85 | 83 | 82 | 81 | 82 | 81 | 80 | 77 | 95  |
| 3.0  | 86 | 85 | 84 | 83 | 83 | 82 | 81 | 79 | 97  |
| 4.0  | 87 | 86 | 85 | 85 | 84 | 84 | 83 | 81 | 98  |
| 5.0  | 87 | 87 | 86 | 86 | 85 | 85 | 83 | 81 | 99  |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 3200 lm bare lamp luminous flux) |      |                  |      |      |      |      |                |      |      |      |      |
|---|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.:   |      | viewed crosswise |      |      |      |      | viewed endwise |      |      |      |      |
| ceiling   | cav  | 0.70             | 0.70 | 0.50 | 0.50 | 0.30 | 0.70           | 0.70 | 0.50 | 0.50 | 0.30 |
| walls   |      | 0.50             | 0.30 | 0.50 | 0.30 | 0.30 | 0.50           | 0.30 | 0.50 | 0.30 | 0.30 |
| work pl.  |      | 0.20             | 0.20 | 0.20 | 0.20 | 0.20 | 0.20           | 0.20 | 0.20 | 0.20 | 0.20 |
| Room dim  |      |                  |      |      |      |      |                |      |      |      |      |
| x   | y    |                  |      |      |      |      |                |      |      |      |      |
| 2H  | 2H   | 22.5             | 23.2 | 22.8 | 23.4 | 23.7 | 22.5           | 23.2 | 22.8 | 23.4 | 23.7 |
|   | 3H   | 22.4             | 23.0 | 22.7 | 23.3 | 23.5 | 22.4           | 23.0 | 22.7 | 23.3 | 23.5 |
|   | 4H   | 22.3             | 22.9 | 22.6 | 23.2 | 23.5 | 22.3           | 22.9 | 22.6 | 23.2 | 23.5 |
|   | 6H   | 22.2             | 22.8 | 22.6 | 23.1 | 23.4 | 22.2           | 22.8 | 22.6 | 23.1 | 23.4 |
|   | 8H   | 22.2             | 22.7 | 22.6 | 23.0 | 23.4 | 22.2           | 22.7 | 22.6 | 23.0 | 23.4 |
| 12H   | 22.2 | 22.6             | 22.5 | 23.0 | 23.3 | 22.2 | 22.6           | 22.5 | 23.0 | 23.3 |      |
| 4H  | 2H   | 22.3             | 22.9 | 22.6 | 23.2 | 23.5 | 22.3           | 22.9 | 22.6 | 23.2 | 23.5 |
|   | 3H   | 22.2             | 22.7 | 22.5 | 23.0 | 23.3 | 22.2           | 22.7 | 22.5 | 23.0 | 23.3 |
|   | 4H   | 22.1             | 22.5 | 22.5 | 22.9 | 23.3 | 22.1           | 22.5 | 22.5 | 22.9 | 23.3 |
|   | 6H   | 22.0             | 22.4 | 22.4 | 22.8 | 23.2 | 22.0           | 22.4 | 22.4 | 22.8 | 23.2 |
|   | 8H   | 22.0             | 22.3 | 22.4 | 22.7 | 23.1 | 22.0           | 22.3 | 22.4 | 22.7 | 23.1 |
| 12H   | 21.9 | 22.2             | 22.4 | 22.6 | 23.1 | 21.9 | 22.2           | 22.4 | 22.6 | 23.1 |      |
| 8H  | 4H   | 22.0             | 22.3 | 22.4 | 22.7 | 23.1 | 22.0           | 22.3 | 22.4 | 22.7 | 23.1 |
|   | 6H   | 21.9             | 22.1 | 22.3 | 22.6 | 23.1 | 21.9           | 22.1 | 22.3 | 22.6 | 23.1 |
|   | 8H   | 21.8             | 22.1 | 22.3 | 22.5 | 23.0 | 21.8           | 22.1 | 22.3 | 22.5 | 23.0 |
|   | 12H  | 21.8             | 22.0 | 22.3 | 22.5 | 23.0 | 21.8           | 22.0 | 22.3 | 22.5 | 23.0 |
| 12H   | 4H   | 21.9             | 22.2 | 22.4 | 22.6 | 23.1 | 21.9           | 22.2 | 22.4 | 22.6 | 23.1 |
|   | 6H   | 21.8             | 22.1 | 22.3 | 22.5 | 23.0 | 21.8           | 22.1 | 22.3 | 22.5 | 23.0 |
|   | 8H   | 21.8             | 22.0 | 22.3 | 22.5 | 23.0 | 21.8           | 22.0 | 22.3 | 22.5 | 23.0 |
| Variations with the observer position at spacing:         |      |                  |      |      |      |      |                |      |      |      |      |
| S =   | 1.0H | 4.9 / -11.6      |      |      |      |      | 4.9 / -11.6    |      |      |      |      |
|   | 1.5H | 7.7 / -13.9      |      |      |      |      | 7.7 / -13.9    |      |      |      |      |
|   | 2.0H | 9.7 / -15.4      |      |      |      |      | 9.7 / -15.4    |      |      |      |      |