



## Installation :

Project number : Cambridge Volvo

Customer : HMF

Processed by :

Date : 22.05.2017

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

# 1 Luminaire data

## 1.1 Eaton (Cooper), EATON - GALAXY LED (GLL1005KZ)

### 1.1.1 Data sheet

Manufacturer: Eaton (Cooper)



Powering Business Worldwide

#### GLL1005KZ wall-mounted luminaire EATON - GALAXY LED

Die cast aluminium LED floodlight, with symmetrical reflector and toughened safety glass. Finished in hard wearing black paint finish.

Complete with 1.5M three core lead.

5000°k LED.

IP65

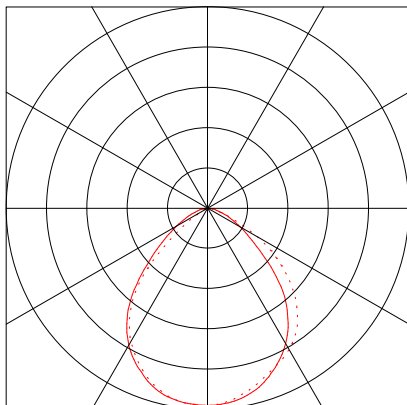
#### Luminaire data

|                     |   |                    |
|---------------------|---|--------------------|
| Absolute Photometry | : |                    |
| Luminaire efficacy  | : | 79.61 lm/W         |
| Classification      | : | A50 ↓100.0% ↑0.0%  |
| CIE Flux Codes      | : | 62 91 99 100 100   |
| UGR 4H 8H           | : | 25.7 / 22.6        |
| Control gear        | : | electronic ballast |
| Power               | : | 97 W               |
| Luminous flux       | : | 7722 lm            |

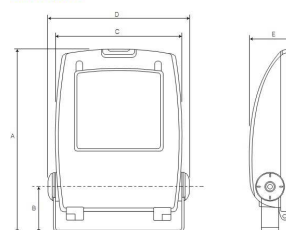
#### Equipped with

|             |   |     |
|-------------|---|-----|
| Quantity    | : | 1   |
| Designation | : | LED |
| Colour      | : |     |

Dimensions : 460 mm x 385 mm x 135 mm



Dimensions



|                         | A   | B   | C   | D   | E   |
|-------------------------|-----|-----|-----|-----|-----|
| GLL105KZ (10W)          | 220 | 83  | 147 | 172 | 66  |
| GLL105KZPIR (10W + PIR) | 220 | 83  | 147 | 172 | 106 |
| GLL305KZ (30W)          | 314 | 78  | 219 | 243 | 80  |
| GLL305KZPIR (30W + PIR) | 314 | 78  | 219 | 243 | 131 |
| GLL505KZ (50W)          | 396 | 103 | 291 | 321 | 106 |
| GLL1005KZ (100W)        | 456 | 119 | 336 | 390 | 112 |
| GLL2005KZ (200W)        | 620 | 195 | 432 | 482 | 158 |

## 2 Exterior 1

### 2.1 Description, Exterior 1

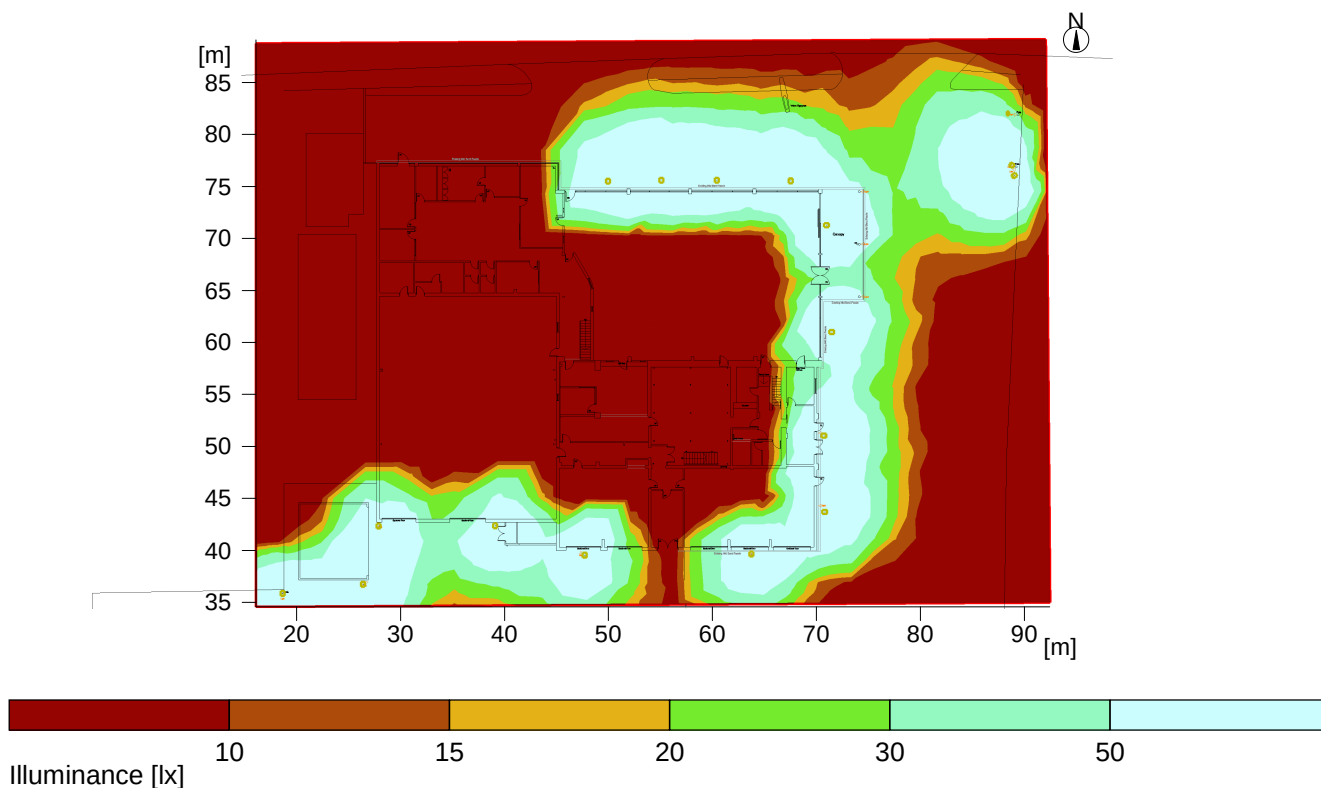
#### 2.1.1 Floor plan



## 2 Exterior 1

### 2.2 Summary, Exterior 1

#### 2.2.1 Result overview, Evaluation area 1



#### General

Calculation algorithm used  
 Maintenance factor

Average indirect fraction  
 0.80

Total luminous flux of all lamps

131274 lm

Total power

1649.0 W

Total power per area (4119.10 m<sup>2</sup>)

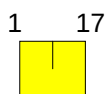
0.40 W/m<sup>2</sup> (1.85 W/m<sup>2</sup>/100lx)

#### Evaluation area 1

#### Reference plane 1.1

Horizontal  
 E<sub>m</sub> 21.6 lx  
 E<sub>min</sub> 0.1 lx  
 E<sub>min</sub>/E<sub>av</sub> (U<sub>o</sub>) 0.00  
 E<sub>min</sub>/E<sub>max</sub> (U<sub>d</sub>) 0.00  
 Position 0.00 m

#### Type No. Make



#### Eaton (Cooper)

Order No. : GLL1005KZ/  
 Luminaire name : EATON - GALAXY LED  
 Equipment : 1 x LED 97 W / 7722 lm

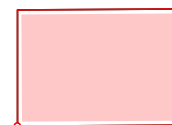


## 2 Exterior 1

### 2.3 Calculation results, Exterior 1

#### 2.3.1 Table, Reference plane 1.1 (E)

|     |     |                  |       |     |     |     |     |     |     |     |     |    |     |    |    |    |     |     |
|-----|-----|------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|-----|-----|
| [m] | (0) | (0)              | (0)   | (0) | (0) | 1   | 2   | 5   | 7   | 8   | 8   | 7  | 7   | 7  | 10 | 16 | 11  | 3   |
| 50  | (0) | (0)              | (0)   | (0) | 1   | 1   | 5   | 15  | 25  | 27  | 25  | 22 | 19  | 13 | 16 | 35 | 40  | 12  |
| 45  | (0) | (0)              | (0)   | (0) | 1   | 2   | 9   | 55  | 94  | 99  | 92  | 70 | 70  | 25 | 21 | 47 | 115 | 50  |
| 40  | (0) | (0)              | (0)   | (0) | (0) | 1   | 8   | 71  | 119 | 122 | 119 | 83 | 126 | 63 | 28 | 37 | 104 | 70  |
| 35  | (0) | (0)              | (0)   | (0) | (0) | 1   | 2   | 5   | 8   | 8   | 8   | 10 | 76  | 91 | 27 | 18 | 26  | 16  |
| 30  | (0) | (0)              | (0)   | (0) | (0) | (0) | (0) | 1   | 1   | 1   | 1   | 3  | 24  | 38 | 19 | 10 | 7   | 3   |
| 25  | (0) | (0)              | (0)   | (0) | (0) | (0) | (0) | (0) | (0) | 1   | 1   | 2  | 59  | 98 | 25 | 8  | 3   | 2   |
| 20  | (0) | (0)              | (0)   | (0) | (0) | (0) | (0) | (0) | (0) | (0) | 1   | 2  | 35  | 56 | 20 | 6  | 2   | 1   |
| 15  | (0) | 1                | 1     | 1   | 1   | 1   | 1   | 1   | (0) | (0) | 1   | 4  | 77  | 79 | 21 | 6  | 2   | 1   |
| 10  | 2   | 8                | 47    | 31  | 22  | 52  | 16  | 4   | 3   | 2   | 3   | 6  | 79  | 80 | 21 | 5  | 2   | 1   |
| 5   | 9   | 28               | 111   | 65  | 43  | 112 | 53  | 94  | 22  | 7   | 43  | 85 | 62  | 54 | 15 | 4  | 1   | 1   |
|     | 113 | 81               | [150] | 47  | 21  | 31  | 39  | 78  | 25  | 8   | 41  | 70 | 20  | 9  | 5  | 2  | 1   | (0) |
|     |     | 10               |       | 20  |     | 30  |     | 40  |     | 50  |     | 60 |     | 70 |    |    |     |     |
|     |     | Illuminance [lx] |       |     |     |     |     |     |     |     |     |    |     |    |    |    |     |     |



Height of the reference plane

|                     |           |                      |
|---------------------|-----------|----------------------|
| Average illuminance | Eav       | : 0.00 m             |
| Minimum illuminance | Emin      | : 0 lx               |
| Maximum illuminance | Emax      | : 150 lx             |
| Uniformity Uo       | Emin/Eav  | : 1 : 321.94 (0.00)  |
| Diversity Ud        | Emin/Emax | : 1 : 2228.47 (0.00) |