

## Photometric test report

### Family Floodlight FL21 midi

**Order number: 5XA7781F2B1A**  
**EAN: 4058352852811**

**LP number**  
**59238\_90**

**serial**  
**documentation**  
**22.08.2023**



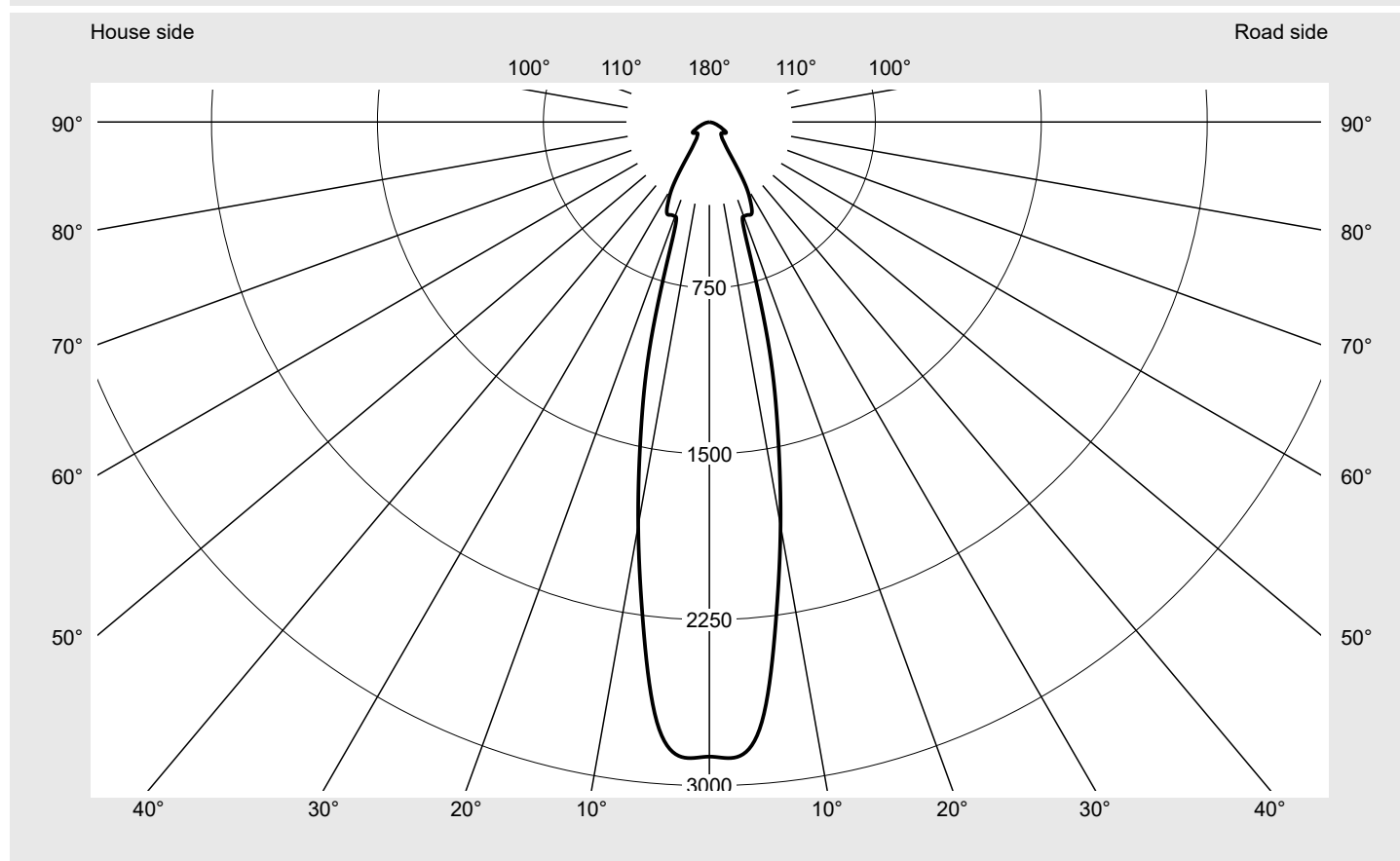
|                     |                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------|
| <b>Version</b>      | mounting bracket                                                                              |
| <b>Optic</b>        | direct, symmetric ellipsoid distribution<br>R120004                                           |
| <b>Cover</b>        | toughened safety glass                                                                        |
| <b>Lamps</b>        | LED 3000 K   CRI ≥ 70                                                                         |
| <b>Controlgear</b>  | ECG SITECO iQ                                                                                 |
| <b>Rated values</b> | Net luminous flux = 35590 lm<br>Power consumption = 270.2 W<br>Luminous efficacy = 131.7 lm/W |

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**Luminous intensity in cd/klm**

**C180-0**

**Imax: 2873 cd/klm**



#### Luminaire output ratios

|                |        |
|----------------|--------|
| Eta            | 100.0% |
| Eta 0° - 90°   | 100.0% |
| Eta 90° - 180° | 0.0%   |

#### Measurement conditions

DIN EN 13032 and DIN 5032

#### Luminous intensity class acc. to EN13201-2

|           |      |
|-----------|------|
| Class:    | G6   |
| Imax 70°  | 36.4 |
| Imax 80°  | 9.1  |
| Imax 90°  | 0.0  |
| Imax >90° | 0.0  |
| Imax >95° | 0.0  |

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Floodlight FL21 midi

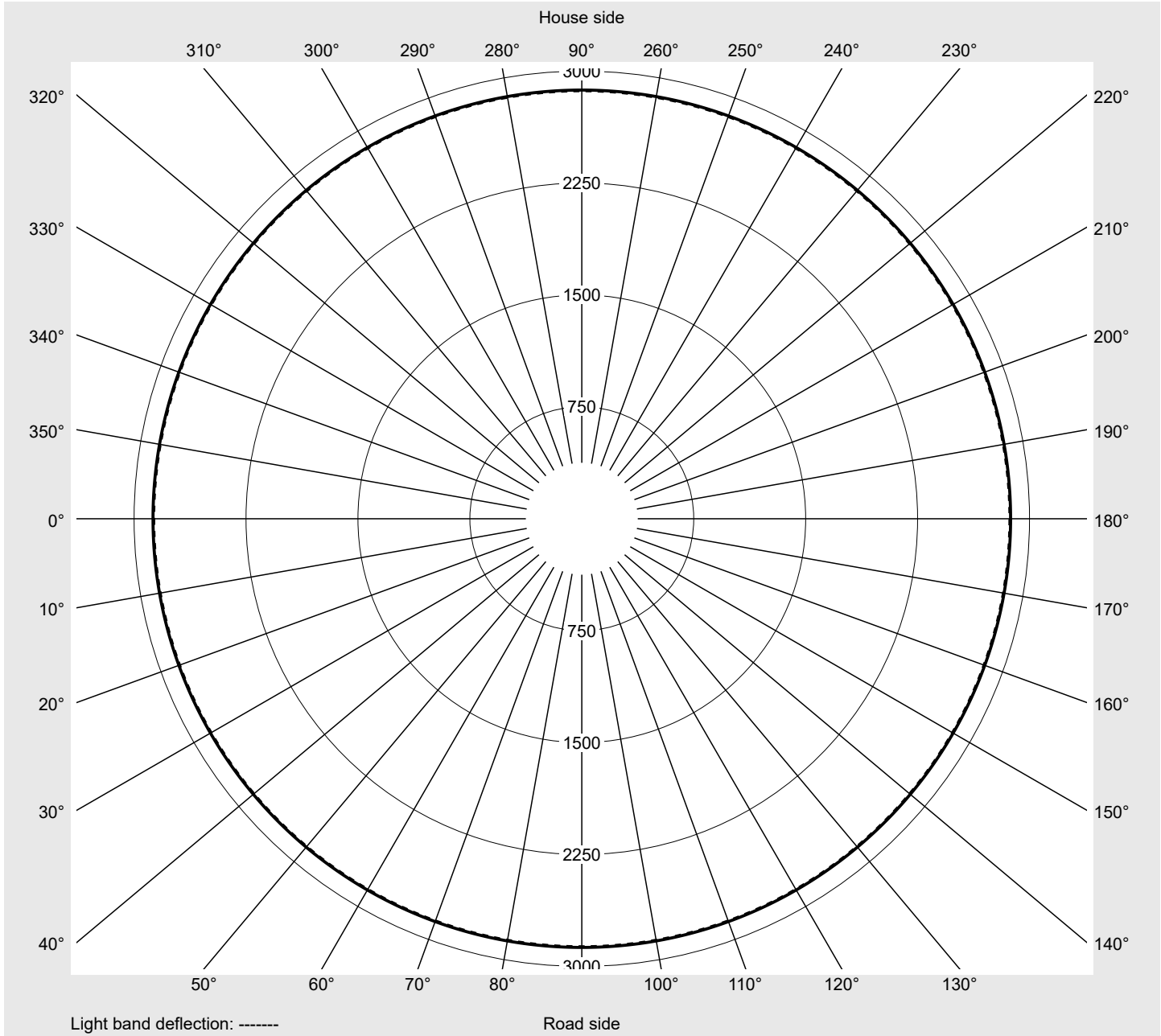
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Envelope curve in cd/klm

KMK 2,5°KMK 0°

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|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
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| Table of values for luminous intensities |                                                  | Maximum luminous intensity |

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| C-<br>planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|--------------|------------------------------|----------|-------------------------|
| γ            | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 0,0°         | 2868.8                       | 4.3      | 4.3                     |
| 2,5°         | 2873.2                       | 34.4     | 38.6                    |
| 5,0°         | 2722.5                       | 65.0     | 103.7                   |
| 7,5°         | 2292.0                       | 82.0     | 185.7                   |
| 10,0°        | 1852.6                       | 88.2     | 273.9                   |
| 12,5°        | 1427.9                       | 84.7     | 358.6                   |
| 15,0°        | 1018.5                       | 72.3     | 430.9                   |
| 17,5°        | 552.2                        | 45.5     | 476.4                   |
| 20,0°        | 453.7                        | 42.5     | 518.9                   |
| 22,5°        | 454.7                        | 47.7     | 566.6                   |
| 25,0°        | 454.2                        | 52.6     | 619.2                   |
| 27,5°        | 400.1                        | 50.6     | 669.9                   |
| 30,0°        | 317.0                        | 43.5     | 713.3                   |
| 32,5°        | 178.5                        | 26.3     | 739.6                   |
| 35,0°        | 121.9                        | 19.2     | 758.8                   |
| 37,5°        | 96.3                         | 16.1     | 774.9                   |
| 40,0°        | 86.4                         | 15.2     | 790.1                   |
| 42,5°        | 78.8                         | 14.6     | 804.7                   |
| 45,0°        | 75.0                         | 14.5     | 819.2                   |
| 47,5°        | 74.2                         | 15.0     | 834.2                   |
| 50,0°        | 76.8                         | 16.1     | 850.4                   |
| 52,5°        | 82.1                         | 17.9     | 868.2                   |
| 55,0°        | 87.5                         | 19.7     | 887.9                   |
| 57,5°        | 89.5                         | 20.7     | 908.6                   |
| 60,0°        | 83.0                         | 19.7     | 928.3                   |
| 62,5°        | 67.2                         | 16.3     | 944.6                   |
| 65,0°        | 57.1                         | 14.2     | 958.8                   |
| 67,5°        | 43.9                         | 11.1     | 969.9                   |
| 70,0°        | 36.4                         | 9.4      | 979.3                   |
| 72,5°        | 27.1                         | 7.1      | 986.4                   |
| 75,0°        | 21.2                         | 5.6      | 992.0                   |
| 77,5°        | 13.7                         | 3.7      | 995.6                   |
| 80,0°        | 9.1                          | 2.5      | 998.1                   |
| 82,5°        | 4.7                          | 1.3      | 999.4                   |
| 85,0°        | 1.8                          | 0.5      | 999.9                   |
| 87,5°        | 0.5                          | 0.1      | 1000.0                  |
| 90,0°        | 0.0                          | 0.0      | 1000.0                  |

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|                                |                                                  |                                 |
|--------------------------------|--------------------------------------------------|---------------------------------|
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| Dimming levels table           |                                                  | environmental temperature: 25°C |

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| Luminous flux<br>[%] | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W]start of lifetime | Power consumption<br>[W]end of lifetime | Power consumption<br>[W]average |
|----------------------|-------------------------|------------------------------|-----------------------|-------------------------------------------|-----------------------------------------|---------------------------------|
| 100                  | 254                     | 254                          | 35590                 | 270.2                                     | 286.6                                   | 278.4                           |
| 95                   | 241                     | 252                          | 33768                 | 251.6                                     | 266.7                                   | 259.2                           |
| 90                   | 229                     | 250                          | 32087                 | 235.3                                     | 249.2                                   | 242.2                           |
| 85                   | 216                     | 248                          | 30266                 | 218.2                                     | 231.1                                   | 224.6                           |
| 80                   | 203                     | 246                          | 28444                 | 201.9                                     | 213.7                                   | 207.8                           |
| 75                   | 190                     | 243                          | 26622                 | 186.3                                     | 197.0                                   | 191.6                           |
| 70                   | 178                     | 241                          | 24941                 | 172.3                                     | 182.2                                   | 177.2                           |
| 65                   | 165                     | 238                          | 23119                 | 157.7                                     | 166.7                                   | 162.2                           |
| 60                   | 152                     | 235                          | 21298                 | 143.6                                     | 151.7                                   | 147.6                           |
| 55                   | 140                     | 232                          | 19617                 | 130.9                                     | 138.3                                   | 134.6                           |
| 50                   | 127                     | 229                          | 17795                 | 117.4                                     | 124.1                                   | 120.8                           |
| 45                   | 114                     | 225                          | 15973                 | 104.2                                     | 110.3                                   | 107.2                           |
| 40                   | 102                     | 221                          | 14292                 | 92.4                                      | 97.6                                    | 95.0                            |
| 35                   | 89                      | 216                          | 12471                 | 80.0                                      | 84.4                                    | 82.2                            |
| 30                   | 76                      | 210                          | 10649                 | 67.9                                      | 71.6                                    | 69.8                            |
| 25                   | 63                      | 203                          | 8827                  | 56.2                                      | 59.2                                    | 57.7                            |
| 20                   | 51                      | 195                          | 7146                  | 45.8                                      | 48.1                                    | 47.0                            |
| 15                   | 38                      | 184                          | 5324                  | 34.7                                      | 36.5                                    | 35.6                            |
| 12                   | 31                      | 177                          | 4344                  | 28.8                                      | 30.3                                    | 29.6                            |