

# E7010/LED1W032050DT1



industrial luminaire • linear

Application : Production sites

housing: satin-anodised aluminium

light source : LED • 3000 K

optics : LED+LENS™ • polycarbonate (PC) lens and cup • narrow-angle

UGR classification : <=22

luminous efficacy : 120 lm/W

LLMF: 97% @ 50khrs (Tq=25°C)

## Product information

### Mechanical properties

dimensions : 1070 mm x 90 mm x 88 mm

colour: anodised aluminium

type : individual luminaire

IP: IP40

IK: IK07

ambient temperature: 5°C - 35°C •

### Electrical properties

driver: DALI dimmable

power : 42 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1  
UNLIMITED

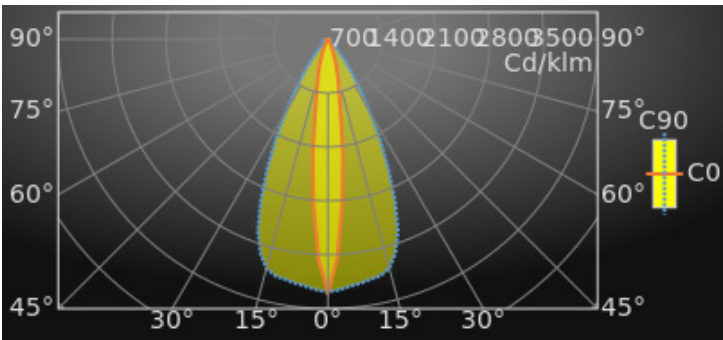
Luminance

luminous efficacy : 120 lm/W

UGR classification =: <=22

luminous area : 0.09 m²

| Average Luminances (Cd/m²) for 5050lm |      |      |      |      |       |
|---------------------------------------|------|------|------|------|-------|
| Gamma                                 | C0   | C30  | C45  | C60  | C90   |
| 45°                                   | 1990 | 2116 | 2573 | 3894 | 9605  |
| 50°                                   | 1943 | 1906 | 2207 | 2851 | 4286  |
| 55°                                   | 1974 | 1788 | 2034 | 2915 | 2516  |
| 60°                                   | 1768 | 1720 | 1761 | 2416 | 3347  |
| 65°                                   | 1406 | 1435 | 1352 | 2130 | 7465  |
| 70°                                   | 1179 | 1121 | 1087 | 1205 | 4403  |
| 75°                                   | 890  | 655  | 953  | 1265 | 4680  |
| 80°                                   | 114  | 209  | 1075 | 1971 | 17731 |
| 85°                                   | 56   | 217  | 2674 | 4277 | 25566 |



Classifications

CIE: 915 / 966 / 988 / 1000 / 1000

CIE FLUXCODE : 0.92 / 0.97 / 0.99 / 1.00 / 1.00

BZ: BZ1

CAE: CAE 4/5°/CAE 3/15°/CAE 4/75°/CAE 3

DIN: A60 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.88

UTE: 1.00 A + 0.00 T



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Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10         | 100     | 1     |
| 20         | 99      | 2     |
| 30         | 99      | 3     |
| 40         | 98      | 4     |
| 50         | 98      | 5     |
| 60         | 97      | 6     |

## Luminous intensities in cd

Intensity for 5050lm

| Gamma | C0      | C45     | C90     |
|-------|---------|---------|---------|
| 0°    | 16580.7 | 16580.7 | 16580.7 |
| 5°    | 10813.2 | 13155.8 | 16275.3 |
| 10°   | 4780.3  | 7433.5  | 16003.3 |
| 15°   | 2501.7  | 3976.9  | 15558.2 |
| 20°   | 1287.1  | 2260.4  | 13409.7 |
| 25°   | 607.1   | 1286.8  | 9360.2  |
| 30°   | 309.4   | 714.9   | 5486.9  |
| 35°   | 194.9   | 395.5   | 2813.5  |
| 40°   | 146.3   | 235.4   | 1325.9  |
| 45°   | 122.4   | 158.3   | 590.9   |
| 50°   | 108.7   | 123.4   | 239.7   |
| 55°   | 98.5    | 101.5   | 125.6   |
| 60°   | 76.9    | 76.6    | 145.6   |
| 65°   | 51.7    | 49.7    | 274.5   |
| 70°   | 35.1    | 32.4    | 131.0   |
| 75°   | 20.0    | 21.5    | 105.4   |
| 80°   | 1.7     | 16.2    | 267.9   |
| 85°   | 0.4     | 20.3    | 193.9   |
| 90°   | 0.0     | 4.1     | 110.2   |

## UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 5050lm (S = 0.25H)

|                 | Room Reflection Factors (%)                                    |     |      |      |      |                |      |      |      |      |
|-----------------|----------------------------------------------------------------|-----|------|------|------|----------------|------|------|------|------|
| Ceiling         | 70                                                             | 70  | 50   | 50   | 30   | 70             | 70   | 50   | 50   | 30   |
| Walls           | 50                                                             | 30  | 50   | 30   | 30   | 50             | 30   | 50   | 30   | 30   |
| Floor           | 20                                                             | 20  | 20   | 20   | 20   | 20             | 20   | 20   | 20   | 20   |
| Room Dimensions | Viewed Crosswise                                               |     |      |      |      | Viewed Endwise |      |      |      |      |
| X = 2H Y = 2H   | 7.1                                                            | 8.2 | 7.4  | 8.4  | 8.6  | 15.5           | 16.6 | 15.8 | 16.8 | 17.1 |
| Y = 3H          | 8.1                                                            | 9.0 | 8.4  | 9.3  | 9.5  | 16.5           | 17.5 | 16.8 | 17.7 | 18.0 |
| Y = 4H          | 8.3                                                            | 9.2 | 8.6  | 9.5  | 9.7  | 16.8           | 17.7 | 17.1 | 18.0 | 18.3 |
| Y = 6H          | 8.3                                                            | 9.1 | 8.6  | 9.4  | 9.7  | 19.4           | 20.2 | 19.7 | 20.5 | 20.8 |
| Y = 8H          | 8.2                                                            | 9.0 | 8.6  | 9.3  | 9.7  | 21.1           | 21.9 | 21.5 | 22.2 | 22.5 |
| Y = 12H         | 8.2                                                            | 9.0 | 8.6  | 9.3  | 9.6  | 22.5           | 23.2 | 22.8 | 23.5 | 23.9 |
| X = 4H Y = 2H   | 7.7                                                            | 8.7 | 8.1  | 8.9  | 9.2  | 15.4           | 16.3 | 15.7 | 16.6 | 16.8 |
| Y = 3H          | 8.7                                                            | 9.5 | 9.1  | 9.8  | 10.1 | 16.4           | 17.2 | 16.8 | 17.5 | 17.8 |
| Y = 4H          | 9.0                                                            | 9.6 | 9.4  | 10.0 | 10.3 | 16.8           | 17.4 | 17.2 | 17.8 | 18.1 |
| Y = 6H          | 9.0                                                            | 9.6 | 9.4  | 9.9  | 10.3 | 19.7           | 20.2 | 20.1 | 20.6 | 21.0 |
| Y = 8H          | 8.9                                                            | 9.5 | 9.4  | 9.9  | 10.3 | 21.6           | 22.2 | 22.0 | 22.5 | 23.0 |
| Y = 12H         | 8.9                                                            | 9.4 | 9.3  | 9.8  | 10.2 | 23.2           | 23.7 | 23.7 | 24.2 | 24.6 |
| X = 8H Y = 4H   | 9.1                                                            | 9.7 | 9.6  | 10.1 | 10.5 | 16.7           | 17.2 | 17.1 | 17.6 | 18.0 |
| Y = 6H          | 9.1                                                            | 9.6 | 9.6  | 10.0 | 10.5 | 19.6           | 20.1 | 20.1 | 20.5 | 21.0 |
| Y = 8H          | 9.1                                                            | 9.5 | 9.6  | 9.9  | 10.4 | 21.7           | 22.1 | 22.1 | 22.5 | 23.0 |
| Y = 12H         | 9.0                                                            | 9.4 | 9.5  | 9.9  | 10.4 | 23.5           | 23.9 | 24.0 | 24.3 | 24.9 |
| X = 12H Y = 4H  | 9.3                                                            | 9.8 | 9.8  | 10.2 | 10.7 | 16.6           | 17.1 | 17.1 | 17.5 | 18.0 |
| Y = 6H          | 9.4                                                            | 9.8 | 9.9  | 10.3 | 10.8 | 19.6           | 20.0 | 20.0 | 20.4 | 20.9 |
| Y = 8H          | 9.4                                                            | 9.8 | 9.9  | 10.2 | 10.8 | 21.6           | 22.0 | 22.1 | 22.5 | 23.0 |
|                 | UGR Variations with Observer Position for Luminaire Spacings S |     |      |      |      |                |      |      |      |      |
| S = 1.0H        | +0.6                                                           |     | -0.5 |      |      | +0.8           |      | -0.3 |      |      |
| S = 1.5H        | +0.8                                                           |     | -1.0 |      |      | +1.9           |      | -0.5 |      |      |
| S = 2.0H        | +1.3                                                           |     | -1.7 |      |      | +2.9           |      | -0.9 |      |      |

## Colour properties

Correlated Colour Temperature : 3000

## Efficiency

| Utilisation Factors according to IES (%) |                             |     |     |     |     |     |     |     |    |    |
|------------------------------------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|----|----|
|                                          | Room Reflection Factors (%) |     |     |     |     |     |     |     |    |    |
| Ceiling                                  | 80                          | 80  | 80  | 50  | 50  | 50  | 30  | 30  | 30 | 0  |
| Walls                                    | 50                          | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10 | 0  |
| Floor                                    | 20                          | 20  | 20  | 20  | 20  | 20  | 20  | 20  | 20 | 0  |
| RCR = 1                                  | 111                         | 109 | 108 | 105 | 103 | 103 | 101 | 100 | 99 | 94 |
| 2                                        | 104                         | 101 | 99  | 99  | 97  | 95  | 96  | 94  | 93 | 88 |
| 3                                        | 98                          | 94  | 92  | 94  | 91  | 89  | 91  | 89  | 87 | 83 |
| 4                                        | 93                          | 88  | 85  | 89  | 86  | 83  | 87  | 84  | 82 | 79 |
| 5                                        | 88                          | 83  | 80  | 85  | 81  | 78  | 83  | 80  | 78 | 75 |
| 6                                        | 84                          | 79  | 75  | 81  | 77  | 74  | 80  | 76  | 74 | 71 |
| 7                                        | 80                          | 75  | 71  | 78  | 74  | 71  | 76  | 73  | 70 | 68 |
| 8                                        | 76                          | 71  | 68  | 75  | 70  | 67  | 73  | 70  | 67 | 65 |
| 9                                        | 73                          | 68  | 65  | 72  | 67  | 64  | 71  | 67  | 64 | 62 |
| 10                                       | 70                          | 65  | 62  | 69  | 65  | 62  | 68  | 64  | 62 | 60 |

| Utilisation Factors according to LiTG (%) |                             |     |     |     |     |     |     |     |     |    |
|-------------------------------------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|
|                                           | Room Reflection Factors (%) |     |     |     |     |     |     |     |     |    |
| Ceiling                                   | 80                          | 80  | 80  | 50  | 50  | 50  | 50  | 50  | 30  | 0  |
| Walls                                     | 50                          | 30  | 50  | 30  | 50  | 30  | 50  | 30  | 30  | 0  |
| Floor                                     | 30                          | 30  | 10  | 10  | 30  | 30  | 10  | 10  | 10  | 0  |
| k = 0.60                                  | 87                          | 82  | 83  | 79  | 85  | 81  | 82  | 79  | 78  | 76 |
| 0.80                                      | 92                          | 86  | 86  | 83  | 89  | 85  | 85  | 82  | 82  | 79 |
| 1.00                                      | 98                          | 92  | 91  | 87  | 94  | 90  | 89  | 87  | 86  | 83 |
| 1.25                                      | 104                         | 99  | 95  | 93  | 100 | 96  | 94  | 92  | 91  | 88 |
| 1.50                                      | 107                         | 102 | 97  | 95  | 102 | 98  | 95  | 93  | 92  | 90 |
| 2.00                                      | 112                         | 107 | 100 | 98  | 105 | 102 | 98  | 96  | 95  | 92 |
| 2.50                                      | 115                         | 111 | 102 | 100 | 107 | 104 | 99  | 98  | 97  | 94 |
| 3.00                                      | 118                         | 114 | 103 | 101 | 109 | 107 | 101 | 99  | 98  | 95 |
| 4.00                                      | 120                         | 117 | 104 | 103 | 111 | 109 | 101 | 100 | 99  | 96 |
| 5.00                                      | 122                         | 119 | 105 | 104 | 112 | 110 | 102 | 101 | 100 | 97 |

## Available accessories

E7H111 *Single mounting bracket for ceiling mounting*

E7H121 *Single mounting bracket for threaded rod*

E7H131 *Single mounting bracket for chain*

E7H151 *Single mounting bracket for ball impact-proof ceiling mounting*

E7H161 *Single bracket protected with screws, with pigtail for chain (chain not included)*

E7H181 *Single mounting bracket for steel wire*

E7H182 *Double mounting bracket for steel wire*

Dimensional drawing

