

# E7220/LED15N096170DT8



## Industrieleuchte • linear

Anwendung : Sport

Gehäuse: eloxiertes Aluminium

Lichtquelle : high power LED • 4000 K

Optik : LED+LENS™ • Polycarbonat (PC) Linse und Cup • breit strahlend

UGR-Klassifizierung :  $\leq 25$

Lichtstrom: 17550 lm

Spezifischer Lichtstrom : 123 lm/W

LLMF: 95% @ 50khrs (Tq=25°C)

## Product information

### Mechanische Merkmale

Farbe: eloxiertes Aluminium

Typ : Einzelleuchte

IP: IP40

Umgebungstemperatur: von 5°C bis 35°C •

### Elektrische Ausrüstung

Betriebsgerät: DALI dimmbar

Stromverbrauch : 143 W

Spannung : 220-240V

Frequenz : 50-60Hz AC

Fotobiologische Sicherheit : EN 62471: RISK GROUP 1 UNLIMITED



Dieses Dokument wurde von ETAP mit größter Sorgfalt zusammengestellt. Die Daten dieser Publikation sind jedoch unverbindlich und können sich infolge der technischen Entwicklung verändern. ETAP haftet nicht für Schäden jeglicher Art, die sich aus der Verwendung dieses Dokuments ergeben sollten.  
www.etaplighting.com // Made in Belgium

## Leuchtdichte

Lichtstrom : 17550 lm

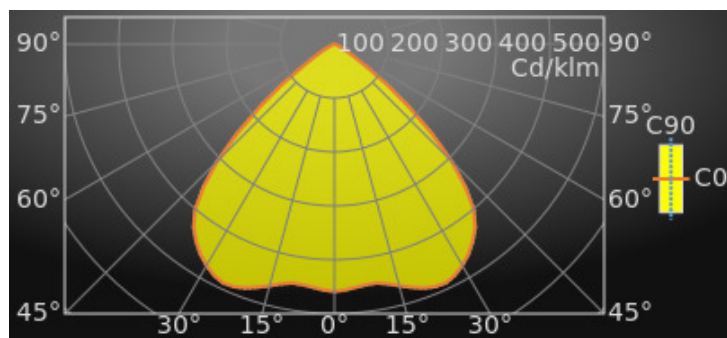
Spezifischer Lichtstrom : 123 lm/W

UGR-Klassifizierung  $\leq 25$

leuchtende Fläche : 0.13 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 17550lm

| Gamma | C0    | C30   | C45   | C60   | C90   |
|-------|-------|-------|-------|-------|-------|
| 45°   | 58418 | 58418 | 58418 | 58418 | 58418 |
| 50°   | 37386 | 37386 | 37386 | 37386 | 37386 |
| 55°   | 16995 | 16995 | 16995 | 16995 | 16995 |
| 60°   | 6892  | 6892  | 6892  | 6892  | 6892  |
| 65°   | 3559  | 3559  | 3559  | 3559  | 3559  |
| 70°   | 2200  | 2200  | 2200  | 2200  | 2200  |
| 75°   | 1487  | 1487  | 1487  | 1487  | 1487  |
| 80°   | 1198  | 1198  | 1198  | 1198  | 1198  |
| 85°   | 964   | 964   | 964   | 964   | 964   |



## Klassifikationen

CIE: 711 / 983 / 998 / 1000 / 1000

CIE FLUXCODE : 0.71 / 0.98 / 1.00 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A60 (Nach Arbeitsblatt 7)

DIN\_U:  $\Phi u = 1.00$

DIN\_SU:  $\Phi su = 0.71$

UTE: 1.00 B + 0.00 T



## Lichtstärken in cd

Lifetime Data (Tq=25.0°C)

| Time(khrs) | LLMF(%) | Cx(%) |
|------------|---------|-------|
| 10         | 99      | 1     |
| 20         | 98      | 2     |
| 30         | 97      | 3     |
| 40         | 97      | 4     |
| 50         | 96      | 5     |
| 60         | 95      | 6     |

Intensity for 17550lm

| Gamma | C0     | C45    | C90    |
|-------|--------|--------|--------|
| 0°    | 8052.1 | 8052.1 | 8052.1 |
| 5°    | 7947.5 | 7947.5 | 7947.5 |
| 10°   | 7896.9 | 7896.9 | 7896.9 |
| 15°   | 8137.1 | 8137.1 | 8137.1 |
| 20°   | 8444.9 | 8444.9 | 8444.9 |
| 25°   | 8578.2 | 8578.2 | 8578.2 |
| 30°   | 8313.3 | 8313.3 | 8313.3 |
| 35°   | 7841.5 | 7841.5 | 7841.5 |
| 40°   | 7050.9 | 7050.9 | 7050.9 |
| 45°   | 5390.7 | 5390.7 | 5390.7 |
| 50°   | 3136.1 | 3136.1 | 3136.1 |
| 55°   | 1272.1 | 1272.1 | 1272.1 |
| 60°   | 449.7  | 449.7  | 449.7  |
| 65°   | 196.3  | 196.3  | 196.3  |
| 70°   | 98.2   | 98.2   | 98.2   |
| 75°   | 50.2   | 50.2   | 50.2   |
| 80°   | 27.1   | 27.1   | 27.1   |
| 85°   | 11.0   | 11.0   | 11.0   |
| 90°   | 0.2    | 0.2    | 0.2    |

## UGR-Klassifizierung

Corrected Glare Ratings for a Total Lamp Flux of 17550lm (S = 0.25H)

| Ceiling<br>Walls<br>Floor                                      | Room Reflection Factors (%) |      |      |      |      |                |      |      |      |      |
|--|-----------------------------|------|------|------|------|----------------|------|------|------|------|
|  | 70                          | 70   | 50   | 50   | 30   | 70             | 70   | 50   | 50   | 30   |
| Room Dimensions  | 50                          | 30   | 50   | 30   | 30   | 50             | 30   | 50   | 30   | 30   |
|  | 20                          | 20   | 20   | 20   | 20   | 20             | 20   | 20   | 20   | 20   |
|  | Viewed Crosswise            |      |      |      |      | Viewed Endwise |      |      |      |      |
| X = 2H Y = 2H  | 23.2                        | 24.8 | 23.5 | 25.1 | 25.4 | 23.2           | 24.8 | 23.5 | 25.1 | 25.4 |
| Y = 3H   | 23.1                        | 24.5 | 23.4 | 24.8 | 25.1 | 23.1           | 24.5 | 23.4 | 24.8 | 25.1 |
| Y = 4H   | 23.0                        | 24.3 | 23.3 | 24.6 | 24.9 | 23.0           | 24.3 | 23.3 | 24.6 | 24.9 |
| Y = 6H   | 22.9                        | 24.1 | 23.3 | 24.4 | 24.8 | 22.9           | 24.1 | 23.3 | 24.4 | 24.8 |
| Y = 8H   | 22.9                        | 24.1 | 23.2 | 24.4 | 24.7 | 22.9           | 24.1 | 23.2 | 24.4 | 24.7 |
| Y = 12H  | 22.8                        | 24.0 | 23.2 | 24.3 | 24.6 | 22.8           | 24.0 | 23.2 | 24.3 | 24.6 |
| X = 4H Y = 2H  | 23.0                        | 24.4 | 23.4 | 24.7 | 25.0 | 23.0           | 24.4 | 23.4 | 24.7 | 25.0 |
| Y = 3H   | 22.9                        | 24.0 | 23.3 | 24.4 | 24.7 | 22.9           | 24.0 | 23.3 | 24.4 | 24.7 |
| Y = 4H   | 22.8                        | 23.8 | 23.2 | 24.2 | 24.5 | 22.8           | 23.8 | 23.2 | 24.2 | 24.5 |
| Y = 6H   | 22.8                        | 23.6 | 23.2 | 24.0 | 24.4 | 22.8           | 23.6 | 23.2 | 24.0 | 24.4 |
| Y = 8H   | 22.7                        | 23.5 | 23.2 | 23.9 | 24.4 | 22.7           | 23.5 | 23.2 | 23.9 | 24.4 |
| Y = 12H  | 22.7                        | 23.4 | 23.2 | 23.9 | 24.3 | 22.7           | 23.4 | 23.2 | 23.9 | 24.3 |
| X = 8H Y = 4H  | 22.7                        | 23.5 | 23.2 | 23.9 | 24.4 | 22.7           | 23.5 | 23.2 | 23.9 | 24.4 |
| Y = 6H   | 22.7                        | 23.3 | 23.1 | 23.8 | 24.2 | 22.7           | 23.3 | 23.1 | 23.8 | 24.2 |
| Y = 8H   | 22.7                        | 23.2 | 23.1 | 23.7 | 24.2 | 22.7           | 23.2 | 23.1 | 23.7 | 24.2 |
| Y = 12H  | 22.6                        | 23.1 | 23.1 | 23.6 | 24.1 | 22.6           | 23.1 | 23.1 | 23.6 | 24.1 |
| X = 12H Y = 4H   | 22.7                        | 23.4 | 23.2 | 23.8 | 24.3 | 22.7           | 23.4 | 23.2 | 23.8 | 24.3 |
| Y = 6H   | 22.7                        | 23.2 | 23.1 | 23.7 | 24.2 | 22.7           | 23.2 | 23.1 | 23.7 | 24.2 |
| Y = 8H   | 22.6                        | 23.1 | 23.1 | 23.6 | 24.1 | 22.6           | 23.1 | 23.1 | 23.6 | 24.1 |
| UGR Variations with Observer Position for Luminaire Spacings S |                             |      |      |      |      |                |      |      |      |      |
| S = 1.0H   | +1.9                        |      | -4.9 |      |      | +1.9           |      | -4.9 |      |      |
| S = 1.5H   | +3.7                        |      | 10.9 |      |      | +3.7           |      | 10.9 |      |      |
| S = 2.0H   | +5.7                        |      | 13.2 |      |      | +5.7           |      | 13.2 |      |      |



## Colour properties

Correlated Colour Temperature : 4000

Farbwiedergabeindex Ra: 80

## Leuchten-Betriebwirkungsgrad

Utilisation Factors according to IES (%)

|         | Room Reflection Factors (%) |     |     |     |     |    |    |    |    |    |
|---------|-----------------------------|-----|-----|-----|-----|----|----|----|----|----|
|         | 80                          | 80  | 80  | 50  | 50  | 50 | 30 | 30 | 30 | 0  |
| 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 | 108                         | 106 | 105 | 102 | 100 | 99 | 98 | 97 | 96 | 90 |
| 2       | 98                          | 94  | 91  | 93  | 90  | 88 | 90 | 87 | 85 | 81 |
| 3       | 89                          | 84  | 80  | 84  | 80  | 77 | 82 | 78 | 76 | 72 |
| 4       | 80                          | 74  | 70  | 77  | 72  | 68 | 75 | 70 | 67 | 64 |
| 5       | 73                          | 67  | 62  | 70  | 65  | 61 | 68 | 63 | 60 | 57 |
| 6       | 67                          | 60  | 55  | 64  | 58  | 54 | 63 | 57 | 54 | 51 |
| 7       | 61                          | 54  | 49  | 59  | 53  | 49 | 58 | 52 | 48 | 46 |
| 8       | 56                          | 49  | 44  | 54  | 48  | 44 | 53 | 48 | 44 | 42 |
| 9       | 52                          | 45  | 40  | 50  | 44  | 40 | 49 | 44 | 40 | 38 |
| 10      | 48                          | 41  | 37  | 47  | 40  | 36 | 46 | 40 | 36 | 34 |

Utilisation Factors according to LiTG (%)

|          | Room Reflection Factors (%) |     |     |     |     |     |    |    |    |    |
|----------|-----------------------------|-----|-----|-----|-----|-----|----|----|----|----|
|          | 80                          | 80  | 80  | 50  | 50  | 50  | 50 | 50 | 30 | 0  |
| 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 | 58                          | 50  | 56  | 49  | 56  | 50  | 54 | 48 | 48 | 42 |
| 0.80     | 72                          | 64  | 67  | 61  | 69  | 62  | 65 | 60 | 60 | 54 |
| 1.00     | 80                          | 72  | 75  | 69  | 76  | 70  | 72 | 68 | 67 | 62 |
| 1.25     | 90                          | 83  | 83  | 78  | 85  | 80  | 80 | 76 | 75 | 71 |
| 1.50     | 96                          | 89  | 87  | 83  | 91  | 85  | 85 | 81 | 80 | 76 |
| 2.00     | 103                         | 97  | 92  | 88  | 96  | 92  | 89 | 86 | 85 | 81 |
| 2.50     | 109                         | 103 | 96  | 93  | 101 | 97  | 93 | 91 | 89 | 85 |
| 3.00     | 113                         | 108 | 99  | 96  | 104 | 101 | 96 | 94 | 93 | 89 |
| 4.00     | 116                         | 112 | 101 | 98  | 107 | 104 | 98 | 96 | 95 | 91 |
| 5.00     | 119                         | 116 | 103 | 101 | 109 | 107 | 99 | 98 | 96 | 93 |

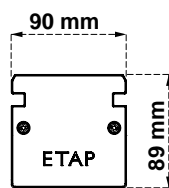
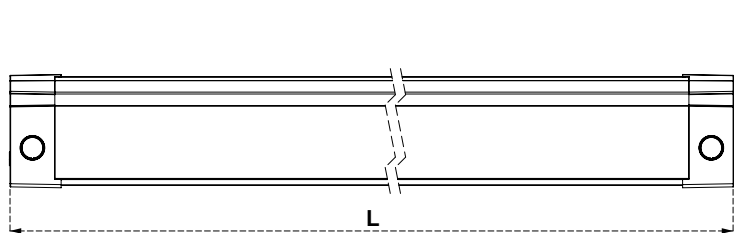
## Zubehör

E7H151 *Einfacher Montagebügel für Deckenmontage, Ballwurfsicher*

E7H152 *Doppelbügel für Deckenmontage, Ballwurfsicher*



## Vermaßte Skizze



| CODE       | L       |
|------------|---------|
| E7*/LED1*  | 1070 mm |
| E7*/LED15* | 1570 mm |
| E7*/LED2*  | 2070 mm |
| E7*/LED3*  | 3070 mm |
| E7*/LED4*  | 4070 mm |