

E7220/LED15N096170S5T8



Industrieleuchte • linear

Anwendung : Sport

Lichtquelle : high power LED • 4000 K

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

UGR-Klassifizierung : <=25

Lichtstrom: 17550 lm

Spezifischer Lichtstrom : 125 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: nicht dimmbar

Stromverbrauch : 141 W

Spannung : 220-240V

Frequenz : 50-60Hz AC

Fotobiologische Sicherheit : EN 62471: RISK GROUP 1 UNLIMITED



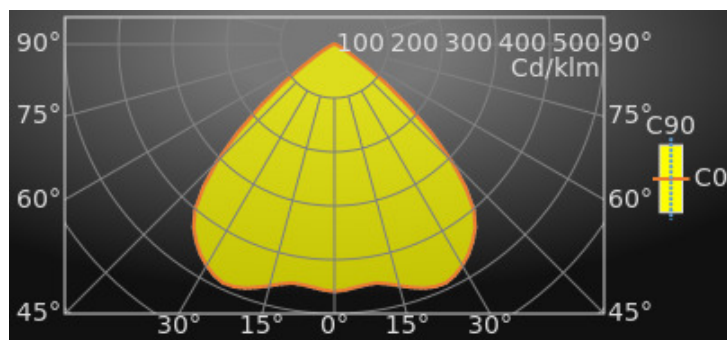
Leuchtdichte

Lichtstrom : 17550 lm

Spezifischer Lichtstrom : 125 lm/W

UGR-Klassifizierung ≤ 25

leuchtende Fläche : 0.13 m²



Average Luminances (Cd/m²) 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 Walls Floor | Room Reflection Factors (%) | | | | | | | | | |
|---|-----------------------------|------|------|------|------|----------------|------|------|------|------|
| | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Room Dimensions | 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 |

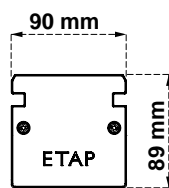
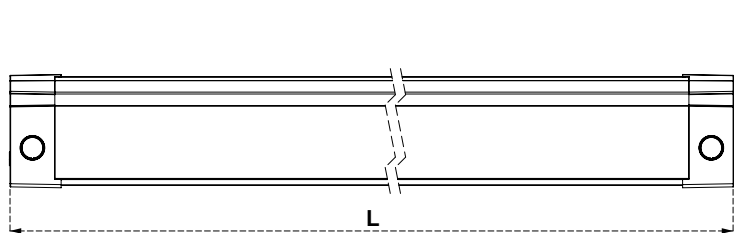
Zubehör

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 |