

## Кирково Бояджийски Цех A258E 300 LX

Partner for Contact:  
Order No.:  
Company:  
Customer No.:

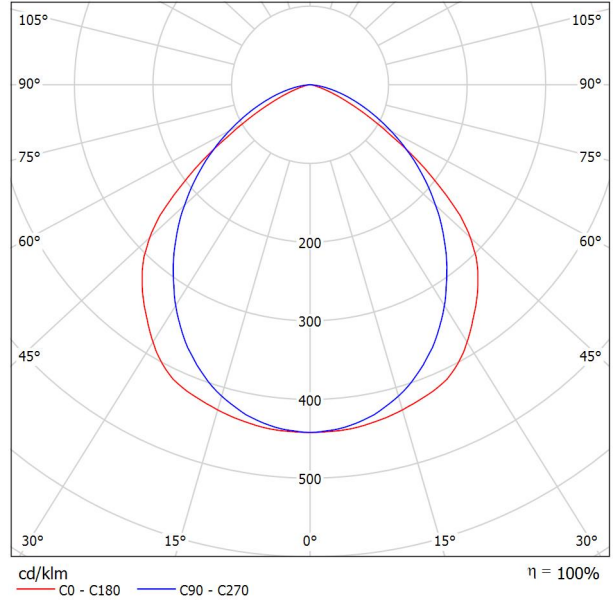
Date: 26.09.2017  
Operator:

Operator  
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**Beghelli SpA A258E ACCIAIO E LED 2X58 D 4000K / Luminaire Data Sheet**

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



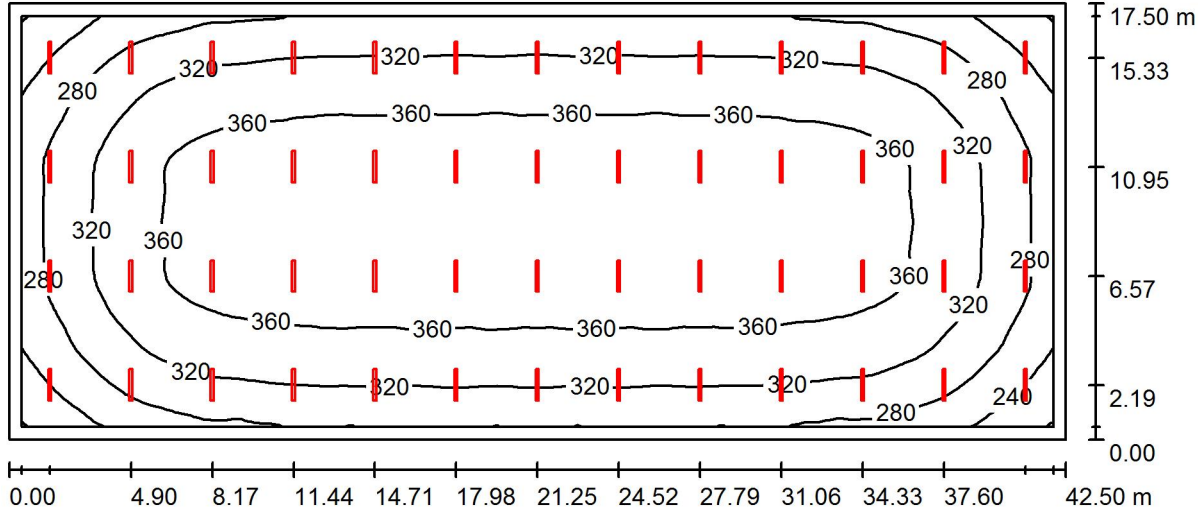
Luminaire classification according to CIE: 100  
CIE flux code: 57 89 98 100 100

Luminous emittance 1:

| Glare Evaluation According to UGR                                |   |      |      |      |      |  |      |      |      |      |      |      |
|--|---|------|------|------|------|--|------|------|------|------|------|------|
| ρ Ceiling  | 70  | 70   | 50   | 50   | 30   | 70   | 70   | 50   | 50   | 30   | 30   | 30   |
| ρ Walls  | 50  | 30   | 50   | 30   | 30   | 50   | 30   | 50   | 30   | 30   | 30   | 30   |
| ρ Floor  | 20  | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Room Size<br>X Y   | Viewing direction at right angles<br>to lamp axis |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |      |      |
| 2H   | 2H  | 21.0 | 22.2 | 21.3 | 22.4 | 22.7                                       | 21.7 | 22.9 | 22.0 | 23.1 | 23.3 | 23.3 |
|  | 3H  | 21.3 | 22.4 | 21.6 | 22.6 | 22.9                                       | 22.9 | 23.9 | 23.2 | 24.2 | 24.4 | 24.4 |
|  | 4H  | 21.3 | 22.3 | 21.6 | 22.6 | 22.8                                       | 23.2 | 24.2 | 23.6 | 24.5 | 24.8 | 24.8 |
|  | 6H  | 21.3 | 22.2 | 21.6 | 22.5 | 22.8                                       | 23.4 | 24.4 | 23.8 | 24.7 | 25.0 | 25.0 |
|  | 8H  | 21.2 | 22.1 | 21.6 | 22.4 | 22.7                                       | 23.5 | 24.4 | 23.8 | 24.7 | 25.0 | 25.0 |
| 4H   | 12H   | 21.2 | 22.0 | 21.6 | 22.3 | 22.7                                       | 23.5 | 24.3 | 23.9 | 24.6 | 25.0 | 25.0 |
|  | 2H  | 21.5 | 22.5 | 21.8 | 22.8 | 23.1                                       | 22.1 | 23.0 | 22.4 | 23.3 | 23.6 | 23.6 |
|  | 3H  | 21.9 | 22.8 | 22.3 | 23.1 | 23.4                                       | 23.4 | 24.3 | 23.8 | 24.6 | 24.9 | 24.9 |
|  | 4H  | 22.0 | 22.7 | 22.4 | 23.0 | 23.4                                       | 23.9 | 24.6 | 24.3 | 25.0 | 25.3 | 25.3 |
|  | 6H  | 21.9 | 22.6 | 22.4 | 22.9 | 23.3                                       | 24.2 | 24.8 | 24.6 | 25.2 | 25.6 | 25.6 |
| 8H   | 8H  | 21.9 | 22.5 | 22.3 | 22.9 | 23.3                                       | 24.3 | 24.9 | 24.7 | 25.3 | 25.7 | 25.7 |
|  | 12H   | 21.9 | 22.4 | 22.3 | 22.8 | 23.3                                       | 24.3 | 24.8 | 24.8 | 25.2 | 25.7 | 25.7 |
|  | 4H  | 22.1 | 22.7 | 22.6 | 23.1 | 23.5                                       | 23.9 | 24.5 | 24.4 | 24.9 | 25.3 | 25.3 |
|  | 6H  | 22.1 | 22.6 | 22.6 | 23.0 | 23.5                                       | 24.3 | 24.8 | 24.8 | 25.2 | 25.7 | 25.7 |
|  | 8H  | 22.1 | 22.5 | 22.6 | 23.0 | 23.4                                       | 24.5 | 24.9 | 24.9 | 25.3 | 25.8 | 25.8 |
| 12H  | 12H   | 22.1 | 22.5 | 22.6 | 22.9 | 23.4                                       | 24.5 | 24.9 | 25.0 | 25.3 | 25.8 | 25.8 |
|  | 4H  | 22.2 | 22.7 | 22.6 | 23.1 | 23.5                                       | 23.9 | 24.4 | 24.4 | 24.8 | 25.3 | 25.3 |
|  | 6H  | 22.2 | 22.6 | 22.6 | 23.0 | 23.5                                       | 24.3 | 24.7 | 24.8 | 25.2 | 25.6 | 25.6 |
| 8H   | 22.1  | 22.5 | 22.6 | 23.0 | 23.5 | 24.4                                       | 24.8 | 24.9 | 25.3 | 25.8 | 25.8 |      |
| Variation of the observer position for the luminaire distances S |   |      |      |      |      |  |      |      |      |      |      |      |
| S = 1.0H   | +0.5 / -0.5                                       |      |      |      |      | +0.2 / -0.3                                |      |      |      |      |      |      |
| S = 1.5H   | +1.3 / -2.3                                       |      |      |      |      | +0.5 / -0.9                                |      |      |      |      |      |      |
| S = 2.0H   | +2.5 / -4.1                                       |      |      |      |      | +0.8 / -1.5                                |      |      |      |      |      |      |
| Standard table   | BK01  |      |      |      |      | BK03                                       |      |      |      |      |      |      |
| Correction   |   |      |      |      |      |  |      |      |      |      |      |      |
| Summand  | -1.7  |      |      |      |      | 0.1  |      |      |      |      |      |      |
| Corrected Glare Indices referring to 7000lm Total Luminous Flux  |   |      |      |      |      |  |      |      |      |      |      |      |

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**Room 1 / Summary**



Height of Room: 7.000 m, Mounting Height: 7.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:304

| Surface   | $\rho$ [%] | $E_{av}$ [lx] | $E_{min}$ [lx] | $E_{max}$ [lx] | $u0$  |
|-----------|------------|---------------|----------------|----------------|-------|
| Workplane | /          | 334           | 198            | 386            | 0.595 |
| Floor     | 20         | 315           | 171            | 378            | 0.541 |
| Ceiling   | 70         | 69            | 57             | 79             | 0.825 |
| Walls (4) | 50         | 157           | 61             | 268            | /     |

**Workplane:**

Height: 0.750 m  
Grid: 128 x 64 Points  
Boundary Zone: 0.500 m

**UGR**

Left Wall 22  
Lower Wall 22  
(CIE, SHR = 1.00.)

**Lengthways-**

22

**Across**

24

**to luminaire axis**

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.473, Ceiling / Working Plane: 0.207.  
Proportion of points with less than 400 lx (for IEQ-7): 100.00%.

**Luminaire Parts List**

| No.    | Pieces | Designation (Correction Factor)                                    | $\Phi$ (Luminaire) [lm] | $\Phi$ (Lamps) [lm] | P [W]  |
|--------|--------|--|-------------------------|---------------------|--------|
| 1      | 52     | Beghelli SpA A258E ACCIAIO E LED 2X58 D 4000K<br>(Type 1)* (1.000) | 6500                    | 6500                | 58.0   |
| Total: |        |  | 337977                  | 338000              | 3016.0 |

\*Modified Technical Specifications

Specific connected load: 4.06 W/m<sup>2</sup> = 1.22 W/m<sup>2</sup>/100 lx (Ground area: 743.75 m<sup>2</sup>)

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**Room 1 / Input Protocol**

Height of working plane: 0.750 m  
Boundary Zone: 0.500 m

Maintenance factor: 0.80

Height of Room: 7.000 m  
Ground area: 743.75 m<sup>2</sup>



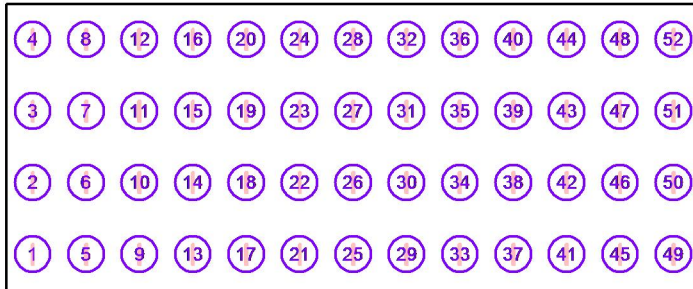
| Surface | Rho [%] | from ( [m]   [m] )  | towards ( [m]   [m] ) | Length [m] |
|---------|---------|---------------------|-----------------------|------------|
| Floor   | 20      | /                   | /                     | /          |
| Ceiling | 70      | /                   | /                     | /          |
| Wall 1  | 50      | ( 0.000   0.000 )   | ( 42.500   0.000 )    | 42.500     |
| Wall 2  | 50      | ( 42.500   0.000 )  | ( 42.500   17.500 )   | 17.500     |
| Wall 3  | 50      | ( 42.500   17.500 ) | ( 0.000   17.500 )    | 42.500     |
| Wall 4  | 50      | ( 0.000   17.500 )  | ( 0.000   0.000 )     | 17.500     |

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## Room 1 / Luminaires (coordinates list)

**Beghelli SpA A258E ACCIAIO E LED 2X58 D 4000K (Type 1)**

6500 lm, 58.0 W, 1 x 1 x User defined (Correction Factor 1.000).



| No. | Position [m] |        |       | Rotation [°] |     |       |
|-----|--------------|--------|-------|--------------|-----|-------|
|     | X            | Y      | Z     | X            | Y   | Z     |
| 1   | 1.630        | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 2   | 1.630        | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 3   | 1.630        | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 4   | 1.630        | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 5   | 4.900        | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 6   | 4.900        | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 7   | 4.900        | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 8   | 4.900        | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 9   | 8.170        | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 10  | 8.170        | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 11  | 8.170        | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 12  | 8.170        | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 13  | 11.440       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 14  | 11.440       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 15  | 11.440       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 16  | 11.440       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 17  | 14.710       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 18  | 14.710       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 19  | 14.710       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 20  | 14.710       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 21  | 17.980       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 22  | 17.980       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 23  | 17.980       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 24  | 17.980       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 25  | 21.250       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 26  | 21.250       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 27  | 21.250       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 28  | 21.250       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |

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**Room 1 / Luminaires (coordinates list)**

| No. | Position [m] |        |       | Rotation [°] |     |       |
|-----|--------------|--------|-------|--------------|-----|-------|
|     | X            | Y      | Z     | X            | Y   | Z     |
| 29  | 24.520       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 30  | 24.520       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 31  | 24.520       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 32  | 24.520       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 33  | 27.790       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 34  | 27.790       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 35  | 27.790       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 36  | 27.790       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 37  | 31.060       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 38  | 31.060       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 39  | 31.060       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 40  | 31.060       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 41  | 34.330       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 42  | 34.330       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 43  | 34.330       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 44  | 34.330       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 45  | 37.600       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 46  | 37.600       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 47  | 37.600       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 48  | 37.600       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |
| 49  | 40.870       | 2.190  | 7.000 | 0.0          | 0.0 | 180.0 |
| 50  | 40.870       | 6.570  | 7.000 | 0.0          | 0.0 | 180.0 |
| 51  | 40.870       | 10.950 | 7.000 | 0.0          | 0.0 | 180.0 |
| 52  | 40.870       | 15.330 | 7.000 | 0.0          | 0.0 | 180.0 |