

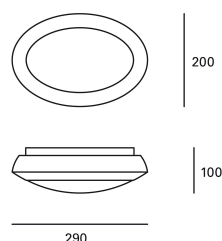


Ford Oval

PX-0142-NEG

Aplique IP65 Ford Oval E27 15W Negro 1300lm

## CARACTERÍSTICAS TÉCNICAS



IP65 IK10



Consumo total de la luminaria (W) : 15W

Lúmenes reales : 1300

Lúmenes nominales : 0

Lm / W reales : 87

Ángulo Ópticas / Reflector : HORIZONTAL 119°

Material de la estructura : Policarbonato + ABS

Acabado estructura : Negro

Material del difusor : Policarbonato

Acabado difusor : Opal

Medida máx. de la bombilla : 150/45 mm

Bombilla recomendada : E27

Voltaje / Frecuencia : 100-240V/50-60Hz

Garantía : 2 Años

Resistencia ambientes marinos : Sí

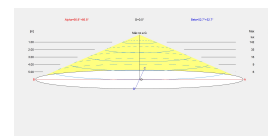
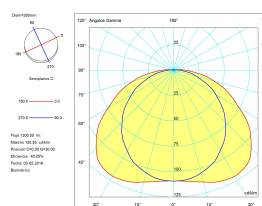
## CARACTERÍSTICAS LUMINOTÉCNICAS

CRI: NA

MacAdam steps: NA

Riesgo fotobiológico: NA

| Portalámparas | Cantidad | Potencia fuente de luz (W) |
|---------------|----------|----------------------------|
| E27           | 1        | Potencia máx. 15W          |



## LOGÍSTICA

Peso neto (Kg): 0.71

Peso embalado (Kg): 0.93

Embalaje: 200mm x 100mm x 290mm



12 Un

**Luminaire**

Code PX-0142-NEG  
Name Apliq. FORD1x23W TC-TEL opal

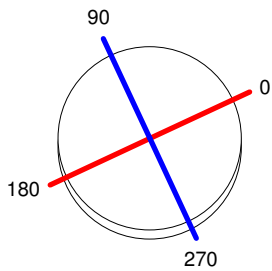
**Measurement**

Code PX-0142-NEG  
Name Apliq. FORD1x23W TC-TEL opal

|                                        |            |                 |                  |                             |                |                    |                    |
|----------------------------------------|------------|-----------------|------------------|-----------------------------|----------------|--------------------|--------------------|
| Luminaire Flux                         | 523.31 lm  | Luminaire Power | 23.00 W          | Efficacy                    | 22.75 lm/W     | Efficiency         | 40.25%             |
| Lamps Flux                             | 1300.00 lm | Maximum value   | 156.72 cd        | Position                    | C=0.00 G=30.00 | CG                 | Double Symmetrical |
| Round Luminaire<br>Round Luminous Area |            | Diam.<br>Diam.  | 260 mm<br>220 mm | Height<br>Height            | 95 mm<br>25 mm |                    |                    |
| Horizontal Luminous Area               |            | 0.038013 m2     |                  | Emitting area on Plane 180° |                | 0.005500 m2        |                    |
| Emitting area on Plane 0°              |            | 0.005500 m2     |                  | Emitting area on Plane 270° |                | 0.005500 m2        |                    |
| Emitting area on Plane 90°             |            | 0.005500 m2     |                  | Glare area at 76°           |                | 0.014533 m2        |                    |
| Coordinate system                      |            | CG              |                  | Symmetry Type               |                | Double Symmetrical |                    |
| Date                                   |            | 03-02-2016      |                  | Maximum Gamma Angle         |                | 180                |                    |
| Measurement Distance                   |            | 0.00            |                  | Measurement Flux            |                | 1300.00 lm         |                    |
| Operator                               |            | Asselum T2      |                  | Source Voltage [V]          |                |                    |                    |
| Temperature                            |            | 25.00 °C        |                  | Source current [A]          |                |                    |                    |
| Humidity                               |            | 60.00 %         |                  | Photocell                   |                |                    |                    |
| Notes                                  |            |                 |                  |                             |                |                    |                    |

| Line   |                 | Code                |  | Luminaire Lamps             |  | Flux [lm] | Pow. [W] | Q.ty |
|--------|-----------------|---------------------|--|-----------------------------|--|-----------|----------|------|
|        |                 | PL ELECT pro23W/827 |  | Name<br>PL ELECT pro23W/827 |  | 1300.00   | 23.00    | 1    |
| C.I.E. | 42 74 93 98 40  |                     |  | D DIN 5040                  |  | A31       |          |      |
| F UTE  | 0.39 E + 0.01 T |                     |  | B NBN                       |  | BZ 5      |          |      |

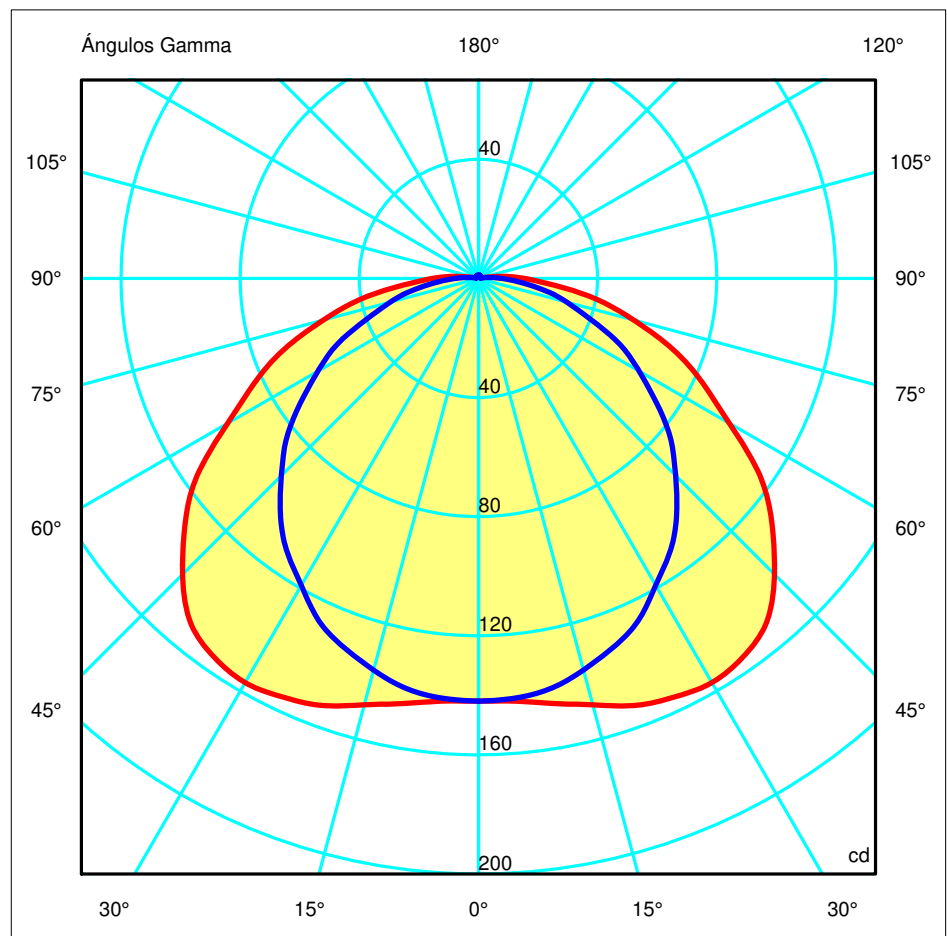
Diam=260mm



Semiplanos C

180.0 — 0.0  
270.0 — 90.0

ULOR 0.86 %  
DLOR 39.39 %  
RN 2.14 %



**Luminaire**

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**Measurem.**

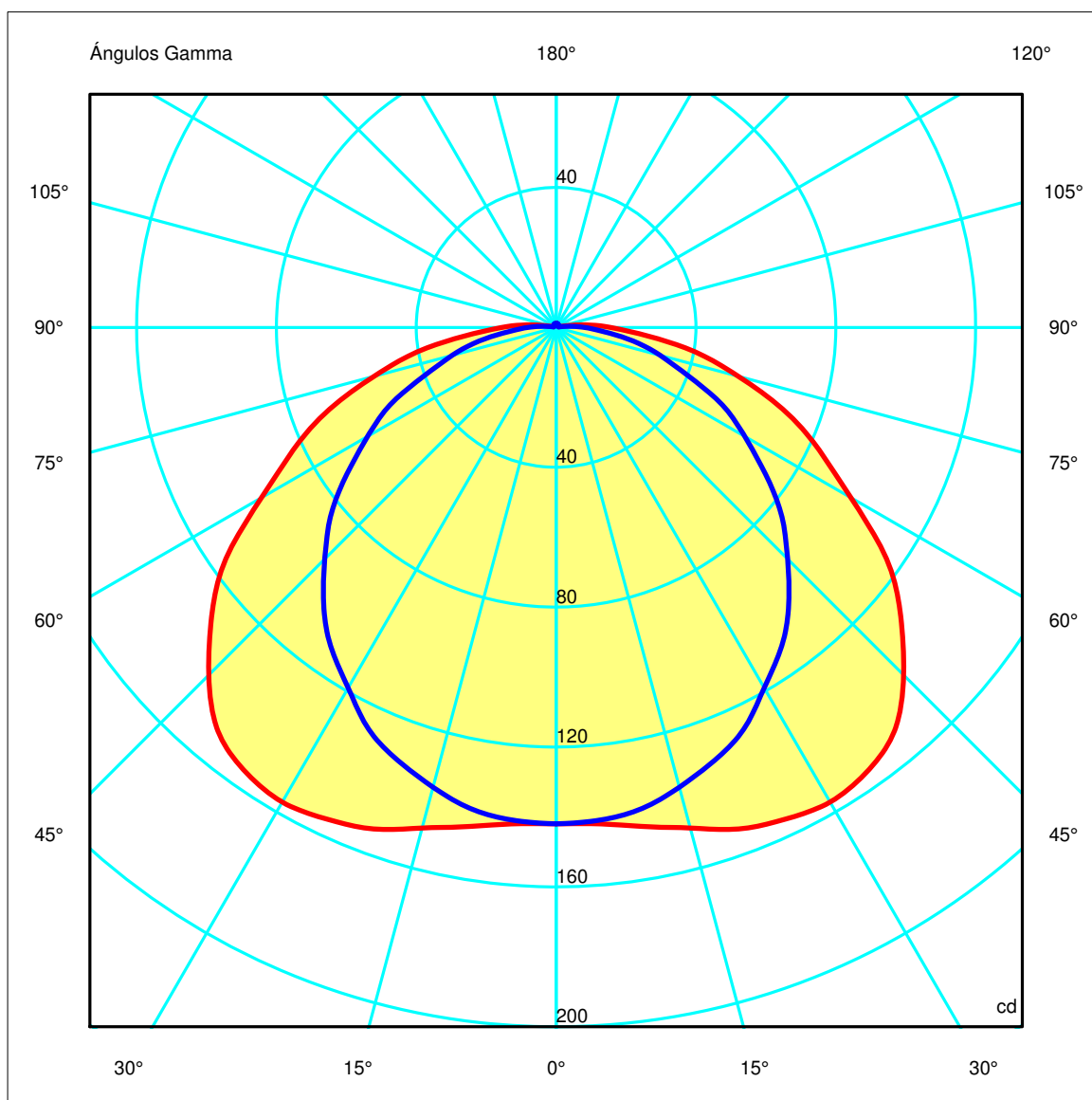
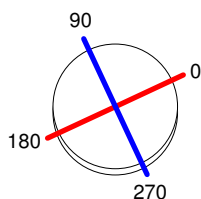
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Diam=260mm

Semiplanos C

180.0 ——— 0.0  
270.0 ——— 90.0



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**Measurem.**

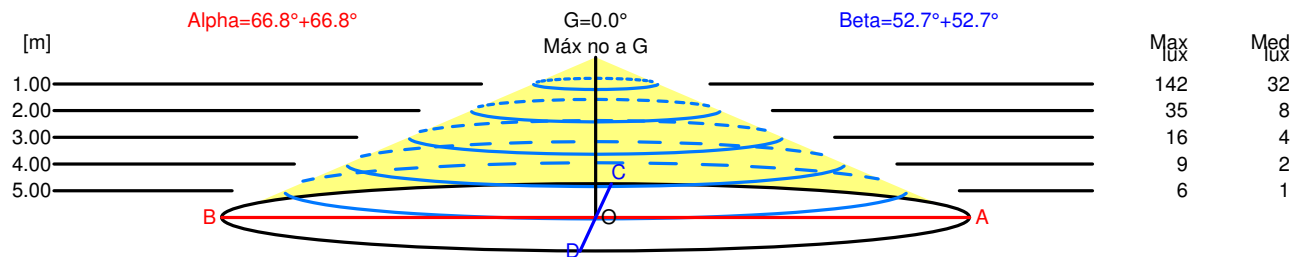
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Width at 50.00 % of Max Intensity

| H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00  | H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |
|------|------|------|------|------|-------|------|------|------|------|------|------|
| OA   | 2.33 | 4.67 | 7.00 | 9.33 | 11.66 | OC   | 1.31 | 2.63 | 3.94 | 5.26 | 6.57 |
| OB   | 2.33 | 4.67 | 7.00 | 9.33 | 11.66 | OD   | 1.31 | 2.63 | 3.94 | 5.26 | 6.57 |

|    | Luminous Intensities [ cd ] |        |        |        |        |        |        |       |       |       |
|----|-----------------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
|    | 0                           | 5      | 15     | 25     | 35     | 45     | 55     | 65    | 75    | 85    |
| OA | 141.94                      | 142.48 | 148.20 | 155.15 | 155.04 | 140.51 | 115.34 | 83.03 | 53.90 | 25.39 |
| OB | 141.94                      | 142.48 | 148.20 | 155.15 | 155.04 | 140.51 | 115.34 | 83.03 | 53.90 | 25.39 |
| OC | 141.94                      | 141.43 | 136.12 | 126.84 | 112.08 | 93.58  | 73.08  | 52.44 | 30.78 | 13.56 |
| OD | 141.94                      | 141.43 | 136.12 | 126.84 | 112.08 | 93.58  | 73.08  | 52.44 | 30.78 | 13.56 |



| H[m] | D[m]  | Max lux | Med lux | Alpha=66.8°+66.8° | G=0.0<br>Máx no a G |
|------|-------|---------|---------|-------------------|---------------------|
| 1.00 | 4.67  | 142     | 32      |                   |                     |
| 2.00 | 9.33  | 35      | 8       |                   |                     |
| 3.00 | 14.00 | 16      | 4       |                   |                     |
| 4.00 | 18.66 | 9       | 2       |                   |                     |
| 5.00 | 23.33 | 6       | 1       |                   |                     |

| H[m] | D[m]  | Max lux | Med lux | Beta=52.7°+52.7° | G=0.0<br>Máx no a G |
|------|-------|---------|---------|------------------|---------------------|
| 1.00 | 2.63  | 142     | 32      |                  |                     |
| 2.00 | 5.26  | 35      | 8       |                  |                     |
| 3.00 | 7.88  | 16      | 4       |                  |                     |
| 4.00 | 10.51 | 9       | 2       |                  |                     |
| 5.00 | 13.14 | 6       | 1       |                  |                     |

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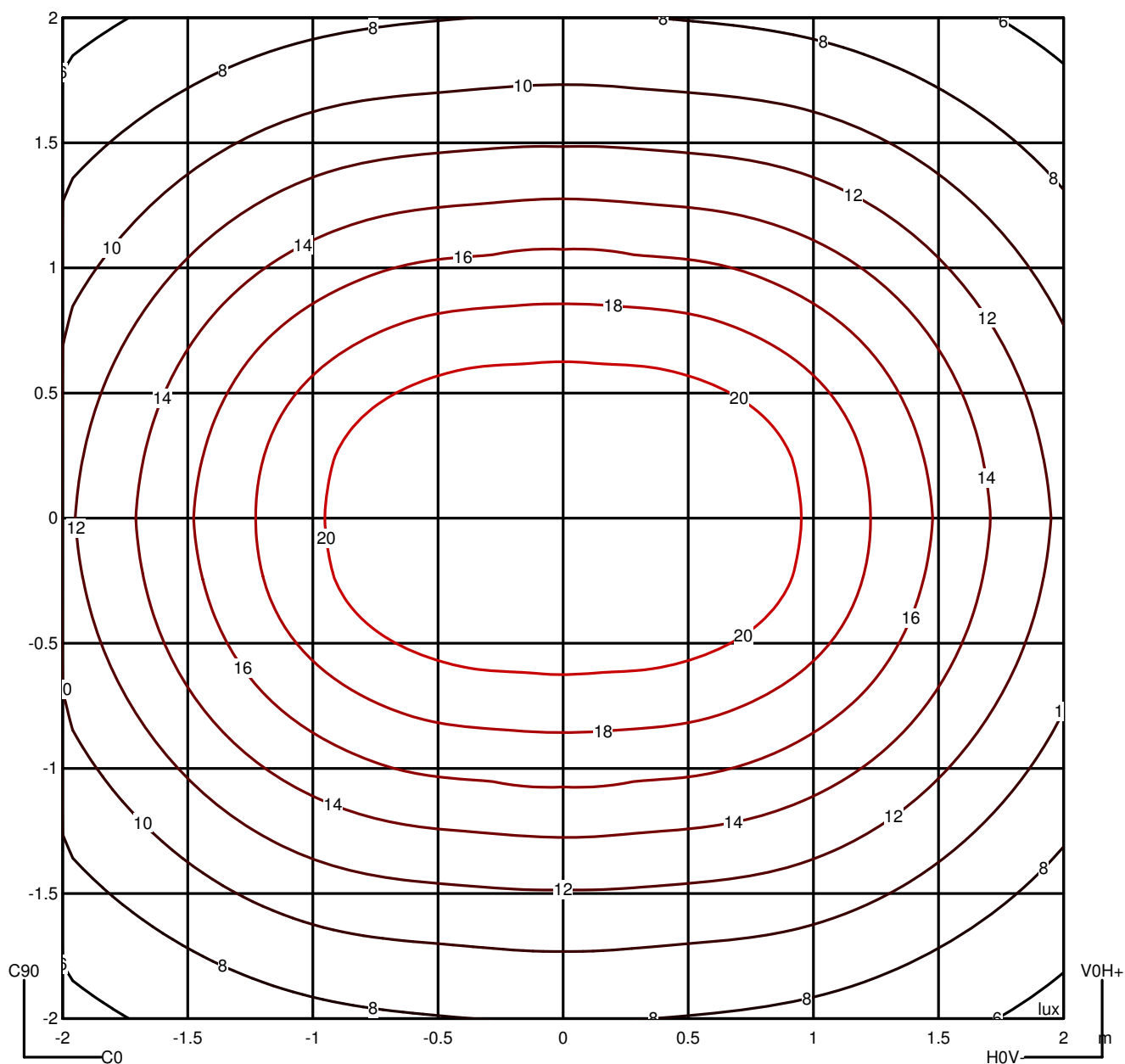
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Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



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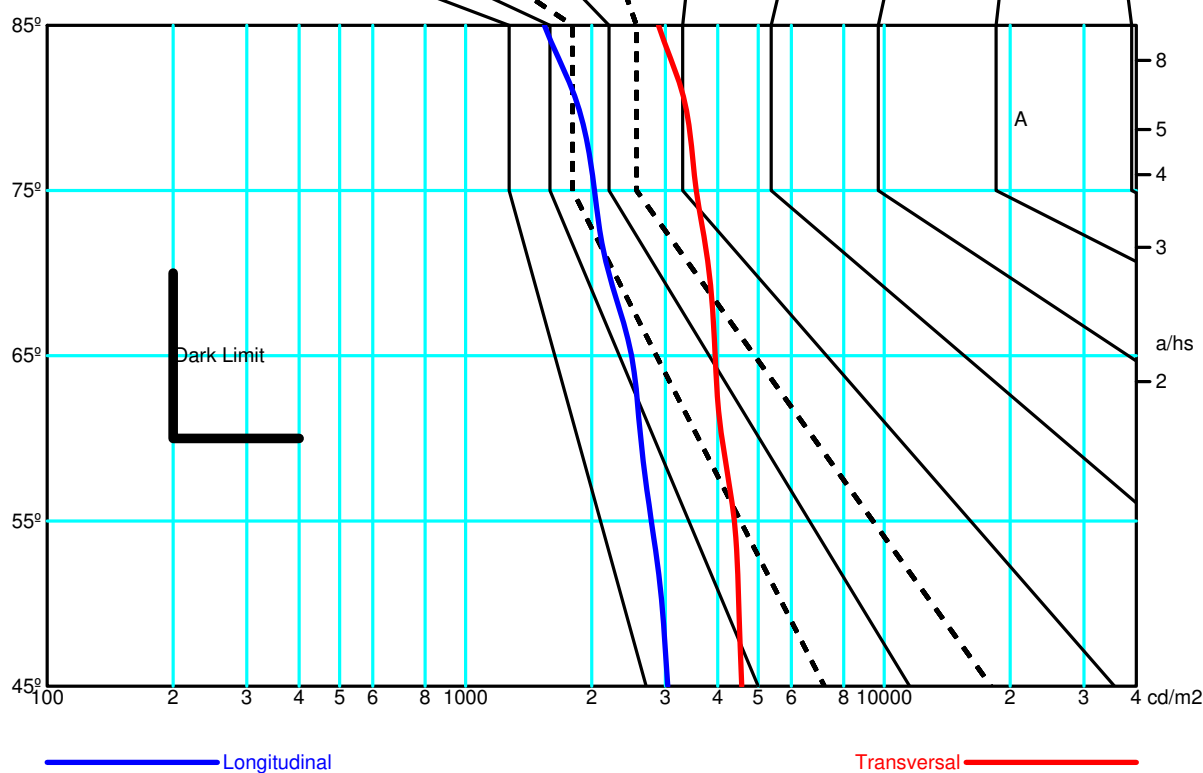
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| Average Luminance [cd/m²] |      |      |      |      |      |      |      |      |      |     |
|---------------------------|------|------|------|------|------|------|------|------|------|-----|
| 0.0°                      | 45°  | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  |     |
| 0.0°                      | 4567 | 4492 | 4384 | 4093 | 3944 | 3820 | 3557 | 3361 | 2888 | --- |
| 90.0°                     | 3041 | 2943 | 2778 | 2619 | 2491 | 2197 | 2032 | 1862 | 1542 | --- |

| Flujo montado o vista longitudinal |   |                  |      |      |      |     |      |      |      |      |      |      |
|------------------------------------|---|------------------|------|------|------|-----|------|------|------|------|------|------|
|                                    |   | Iluminancia (lx) |      |      |      |     |      |      |      |      |      |      |
| A                                  | A | 2000             | 1000 | 750  | 500  |     | <300 |      |      |      |      | 1.15 |
| B                                  | 1 |                  | 2000 | 1500 | 1000 | 750 | 500  | <300 |      |      |      | 1.5  |
| C                                  |   |                  |      |      | 2000 |     | 1000 | 500  | <300 |      |      | 1.85 |
| D                                  | 2 |                  |      |      |      |     | 2000 | 1000 | 500  | <300 |      | 2.2  |
| E                                  | 3 |                  |      |      |      |     |      | 2000 | 1000 | 500  | <300 | 2.55 |



**Luminaire**

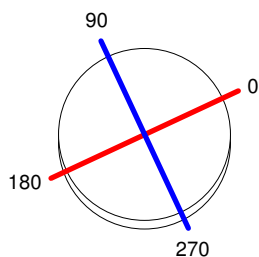
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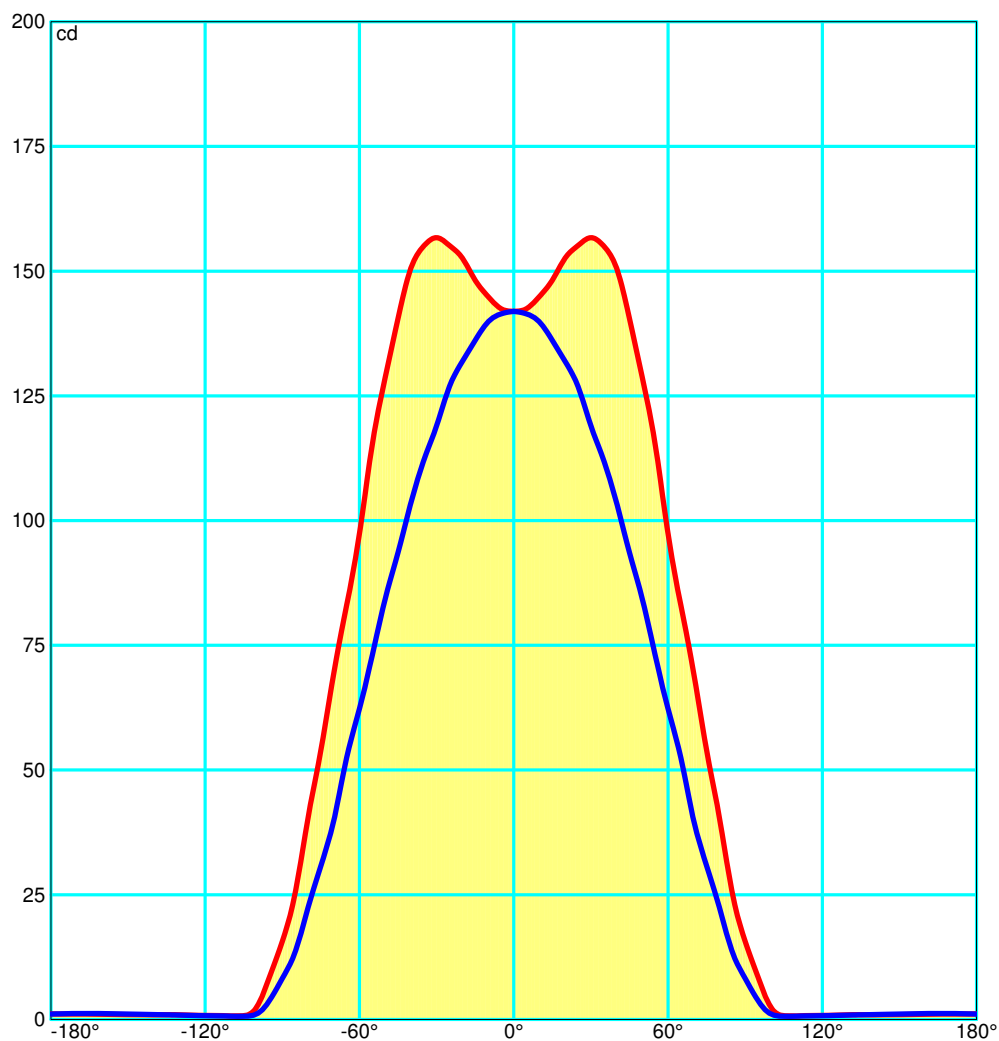
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270.0 — 90.0



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**UGR**  
S = 0.250

| Reflectancies  |                 |      |      |      |      |               |      |      |      |      |
|----------------|-----------------|------|------|------|------|---------------|------|------|------|------|
| Ceiling/Cavity | 0.7             | 0.7  | 0.5  | 0.5  | 0.3  | 0.7           | 0.7  | 0.5  | 0.5  | 0.3  |
| Walls          | 0.5             | 0.3  | 0.5  | 0.3  | 0.3  | 0.5           | 0.3  | 0.5  | 0.3  | 0.3  |
| WorkingPlane   | 0.2             | 0.2  | 0.2  | 0.2  | 0.2  | 0.2           | 0.2  | 0.2  | 0.2  | 0.2  |
| RoomDimensions |                 |      |      |      |      |               |      |      |      |      |
| RoomDimensions | ViewedCrosswise |      |      |      |      | ViewedEndwise |      |      |      |      |
|                |                 |      |      |      |      |               |      |      |      |      |
| x=2H y=2H      | 17.6            | 19.0 | 18.0 | 19.3 | 17.7 | 15.7          | 17.1 | 16.1 | 17.4 | 17.7 |
| x=2H y=3H      | 19.5            | 20.7 | 19.8 | 21.0 | 19.1 | 17.2          | 18.4 | 17.6 | 18.8 | 19.1 |
| x=2H y=4H      | 20.2            | 21.4 | 20.6 | 21.7 | 19.6 | 17.8          | 18.9 | 18.1 | 19.3 | 19.6 |
| x=2H y=6H      | 21.0            | 22.0 | 21.3 | 22.4 | 20.1 | 18.3          | 19.4 | 18.7 | 19.7 | 20.1 |
| x=2H y=8H      | 21.2            | 22.3 | 21.6 | 22.6 | 20.3 | 18.5          | 19.5 | 18.9 | 19.9 | 20.3 |
| x=2H y=12H     | 21.5            | 22.5 | 21.9 | 22.8 | 20.4 | 18.6          | 19.6 | 19.1 | 20.0 | 20.4 |
| x=4H y=2H      | 18.2            | 19.4 | 18.6 | 19.7 | 18.7 | 16.8          | 18.0 | 17.2 | 18.3 | 18.7 |
| x=4H y=3H      | 20.2            | 21.2 | 20.7 | 21.6 | 20.2 | 18.4          | 19.4 | 18.9 | 19.8 | 20.2 |
| x=4H y=4H      | 21.2            | 22.1 | 21.6 | 22.5 | 20.9 | 19.1          | 20.0 | 19.6 | 20.4 | 20.9 |
| x=4H y=6H      | 22.0            | 22.8 | 22.4 | 23.2 | 21.4 | 19.7          | 20.5 | 20.2 | 20.9 | 21.4 |
| x=4H y=8H      | 22.3            | 23.1 | 22.8 | 23.5 | 21.6 | 20.0          | 20.7 | 20.4 | 21.1 | 21.6 |
| x=4H y=12H     | 22.6            | 23.3 | 23.1 | 23.8 | 21.8 | 20.2          | 20.9 | 20.7 | 21.3 | 21.8 |
| x=8H y=4H      | 21.4            | 22.1 | 21.9 | 22.6 | 21.3 | 19.7          | 20.4 | 20.1 | 20.8 | 21.3 |
| x=8H y=6H      | 22.4            | 23.0 | 22.9 | 23.5 | 22.1 | 20.5          | 21.1 | 21.0 | 21.6 | 22.1 |
| x=8H y=8H      | 22.9            | 23.4 | 23.4 | 23.9 | 22.4 | 20.8          | 21.4 | 21.3 | 21.8 | 22.4 |
| x=8H y=12H     | 23.3            | 23.7 | 23.8 | 24.2 | 22.6 | 21.1          | 21.6 | 21.6 | 22.1 | 22.6 |
| x=12H y=4H     | 21.4            | 22.1 | 21.9 | 22.6 | 21.4 | 19.8          | 20.5 | 20.3 | 20.9 | 21.4 |
| x=12H y=6H     | 22.5            | 23.0 | 23.0 | 23.5 | 22.2 | 20.6          | 21.2 | 21.1 | 21.6 | 22.2 |
| x=12H y=8H     | 23.0            | 23.4 | 23.5 | 23.9 | 22.5 | 21.0          | 21.5 | 21.5 | 22.0 | 22.5 |



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**Measurem.**

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Flujo Total=1300.00 Flujo Luminaria=523.31

|     |      |      |      |      |      |      |      |      |      |      |       |       |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| RI  | 0.60 | 0.80 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 | 10.00 | 20.00 |
| DRR | 0.27 | 0.35 | 0.43 | 0.50 | 0.55 | 0.64 | 0.70 | 0.74 | 0.80 | 0.83 | 0.91  | 0.95  |
| RC  | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6     | 6     |

Flujo Zonal por 1000 Lúmenes

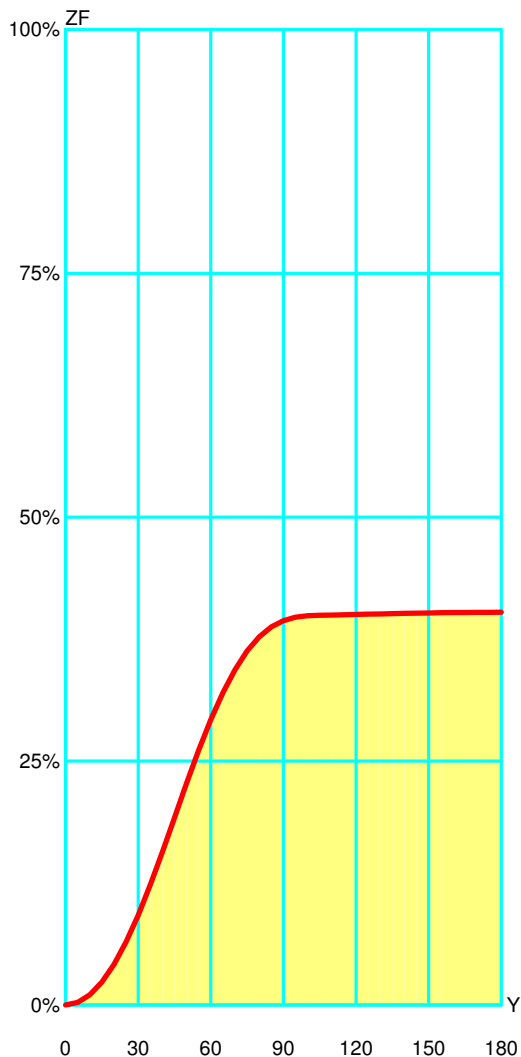
|       |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Y°    | 10 | 20 | 30 | 40  | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| ZF(Y) | 10 | 42 | 92 | 157 | 227 | 292 | 344 | 377 | 394 | 399 | 400 | 400 | 401 | 401 | 402 | 402 | 402 | 403 |

Códigos de Flujo C.I.E.

42 74 93 98 40

C.I.E. 6  
D DIN 5040 A31  
F UTE 0.39 E + 0.01 T  
B NBN BZ 5  
RN 2.13844 %  
BLF 1.0

LOR 40.25434 %  
ULOR 0.86082 %  
DLOR 39.39352 %  
UFF 2.13844 %  
DFF 97.86156 %  
FFR 2.18517 %



| Flujo Zonal |       |         |           |          |
|-------------|-------|---------|-----------|----------|
| Gamma °     | Flujo | Suma lm | Flujo [%] | Suma [%] |
| 0°          | 0.00  | 0.00    | 0.00 %    | 0.00 %   |
| 5°          | 2.61  | 2.61    | 0.65 %    | 0.65 %   |
| 10°         | 7.84  | 10.45   | 1.95 %    | 2.60 %   |
| 15°         | 13.04 | 23.50   | 3.24 %    | 5.84 %   |
| 20°         | 18.15 | 41.65   | 4.51 %    | 10.35 %  |
| 25°         | 23.00 | 64.65   | 5.71 %    | 16.06 %  |
| 30°         | 27.38 | 92.02   | 6.80 %    | 22.86 %  |
| 35°         | 31.06 | 123.08  | 7.72 %    | 30.58 %  |
| 40°         | 33.80 | 156.89  | 8.40 %    | 38.97 %  |
| 45°         | 35.25 | 192.13  | 8.76 %    | 47.73 %  |
| 50°         | 35.27 | 227.41  | 8.76 %    | 56.49 %  |
| 55°         | 33.87 | 261.28  | 8.41 %    | 64.91 %  |
| 60°         | 31.16 | 292.44  | 7.74 %    | 72.65 %  |
| 65°         | 27.64 | 320.07  | 6.87 %    | 79.51 %  |
| 70°         | 23.61 | 343.69  | 5.87 %    | 85.38 %  |
| 75°         | 19.16 | 362.84  | 4.76 %    | 90.14 %  |
| 80°         | 14.56 | 377.40  | 3.62 %    | 93.75 %  |
| 85°         | 10.14 | 387.54  | 2.52 %    | 96.27 %  |
| 90°         | 6.39  | 393.94  | 1.59 %    | 97.86 %  |
| 95°         | 3.53  | 397.47  | 0.88 %    | 98.74 %  |
| 100°        | 1.50  | 398.97  | 0.37 %    | 99.11 %  |
| 105°        | 0.49  | 399.45  | 0.12 %    | 99.23 %  |
| 110°        | 0.27  | 399.72  | 0.07 %    | 99.30 %  |
| 115°        | 0.28  | 400.00  | 0.07 %    | 99.37 %  |
| 120°        | 0.28  | 400.28  | 0.07 %    | 99.44 %  |
| 125°        | 0.28  | 400.57  | 0.07 %    | 99.51 %  |
| 130°        | 0.28  | 400.85  | 0.07 %    | 99.58 %  |
| 135°        | 0.27  | 401.12  | 0.07 %    | 99.65 %  |
| 140°        | 0.26  | 401.38  | 0.06 %    | 99.71 %  |
| 145°        | 0.24  | 401.62  | 0.06 %    | 99.77 %  |
| 150°        | 0.23  | 401.85  | 0.06 %    | 99.83 %  |
| 155°        | 0.20  | 402.05  | 0.05 %    | 99.88 %  |
| 160°        | 0.17  | 402.22  | 0.04 %    | 99.92 %  |
| 165°        | 0.14  | 402.36  | 0.03 %    | 99.95 %  |
| 170°        | 0.10  | 402.46  | 0.03 %    | 99.98 %  |
| 175°        | 0.06  | 402.52  | 0.02 %    | 99.99 %  |
| 180°        | 0.02  | 402.54  | 0.01 %    | 100.00 % |

**Luminaire**

Code PX-0142-NEG  
Name Apliq. FORD1x23W TC-TEL opal

**Measurem.**

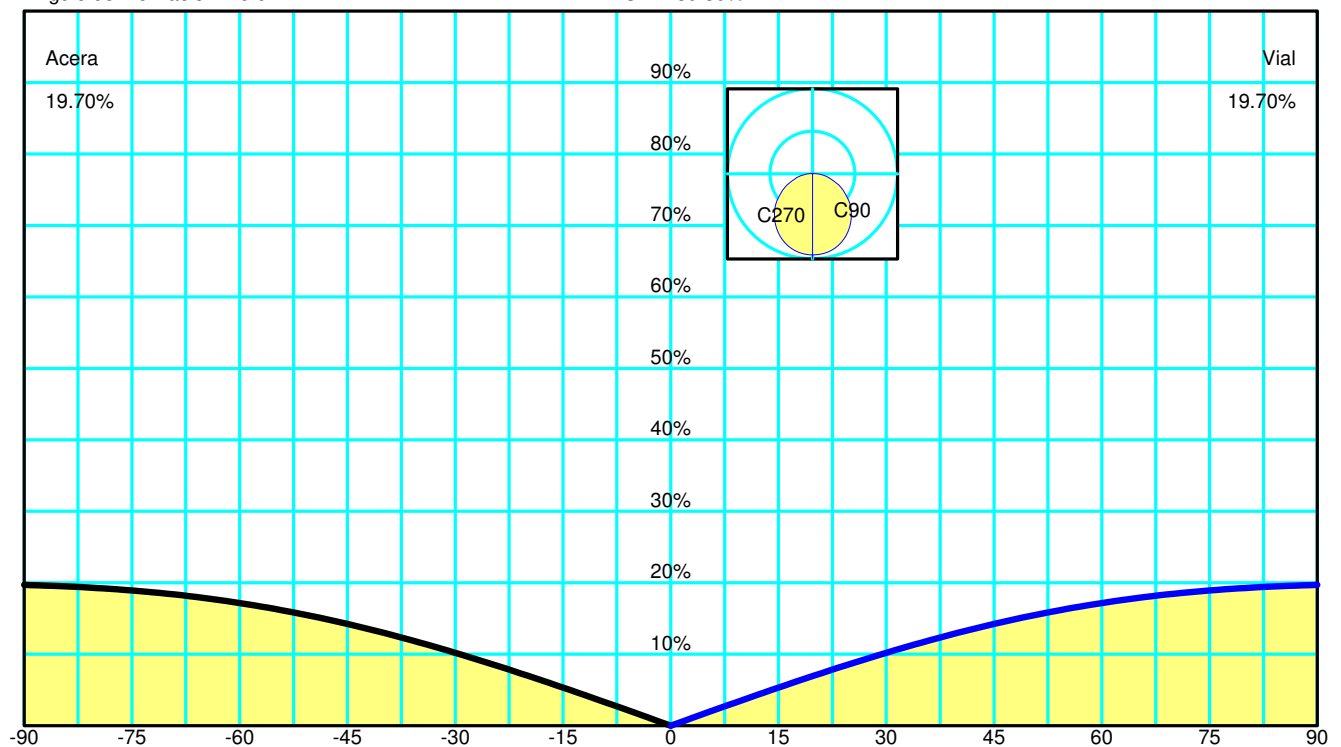
Code PX-0142-NEG  
Name Apliq. FORD1x23W TC-TEL opal

|                |            |                 |           |          |                |            |                    |
|----------------|------------|-----------------|-----------|----------|----------------|------------|--------------------|
| Luminaire Flux | 523.31 lm  | Luminaire Power | 23.00 W   | Efficacy | 22.75 lm/W     | Efficiency | 40.25%             |
| Lamps Flux     | 1300.00 lm | Maximum value   | 156.72 cd | Position | C=0.00 G=30.00 | CG         | Double Symmetrical |

| Pavement |     |        | Road  |    |        |
|----------|-----|--------|-------|----|--------|
| Piano    | 0   | 0.00%  | Piano | 0  | 0.00%  |
| Piano    | -5  | 1.80%  | Piano | 5  | 1.80%  |
| Piano    | -10 | 3.58%  | Piano | 10 | 3.58%  |
| Piano    | -15 | 5.33%  | Piano | 15 | 5.33%  |
| Piano    | -20 | 7.02%  | Piano | 20 | 7.02%  |
| Piano    | -25 | 8.65%  | Piano | 25 | 8.65%  |
| Piano    | -30 | 10.20% | Piano | 30 | 10.20% |
| Piano    | -35 | 11.65% | Piano | 35 | 11.65% |
| Piano    | -40 | 13.00% | Piano | 40 | 13.00% |
| Piano    | -45 | 14.24% | Piano | 45 | 14.24% |
| Piano    | -50 | 15.34% | Piano | 50 | 15.34% |
| Piano    | -55 | 16.32% | Piano | 55 | 16.32% |
| Piano    | -60 | 17.16% | Piano | 60 | 17.16% |
| Piano    | -65 | 17.88% | Piano | 65 | 17.88% |
| Piano    | -70 | 18.46% | Piano | 70 | 18.46% |
| Piano    | -75 | 18.92% | Piano | 75 | 18.92% |
| Piano    | -80 | 19.27% | Piano | 80 | 19.27% |
| Piano    | -85 | 19.52% | Piano | 85 | 19.52% |
| Piano    | -90 | 19.70% | Piano | 90 | 19.70% |

Ángulo de Inclinación = 0.0

DLOR = 39.39%



|                                       |                                       |                              |            |
|---------------------------------------|---------------------------------------|------------------------------|------------|
| Spread                                | 23.8° Estrecho                        | DLOR                         | 39.39352 % |
| Throw                                 | 22.4° Corto                           | ULOR                         | 0.86082 %  |
| SLI (deslumbramiento)                 | Concentrado                           | Rendimiento                  | 40.25434 % |
| Cutoff CIE                            | Semi Cutoff - Max: C=0.0° Gamma=30.0° | RN                           | 2.13844 %  |
| Cutoff Iesna                          | Cutoff                                | Clase de Intensidad Luminosa | G3         |
| DIN5044                               | KB2                                   | Índice de Deslumbramiento    | D6         |
| IESNA Type II Very Short Asymmetrical |                                       |                              |            |

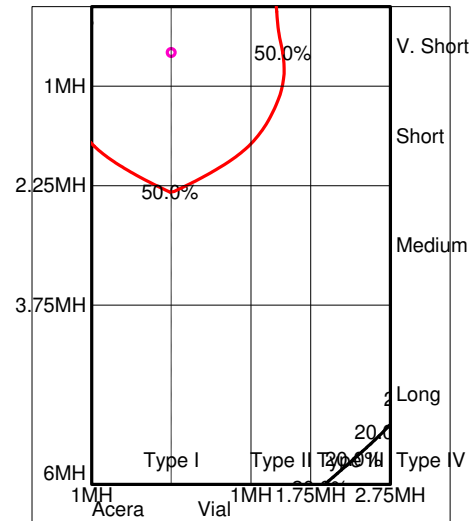
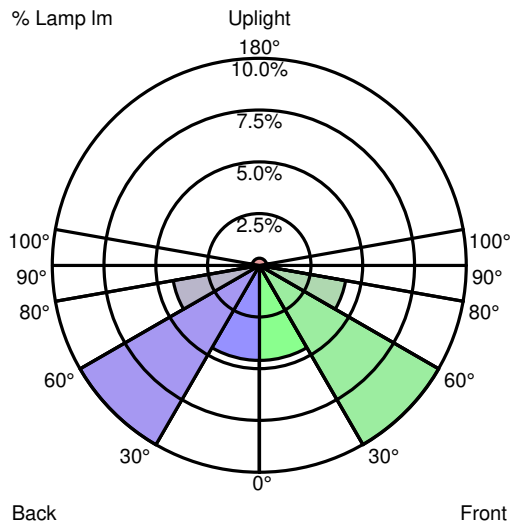
**Luminaire**

Code PX-0142-NEG  
Name Apliq. FORD1x23W TC-TEL opal

**Measur.**

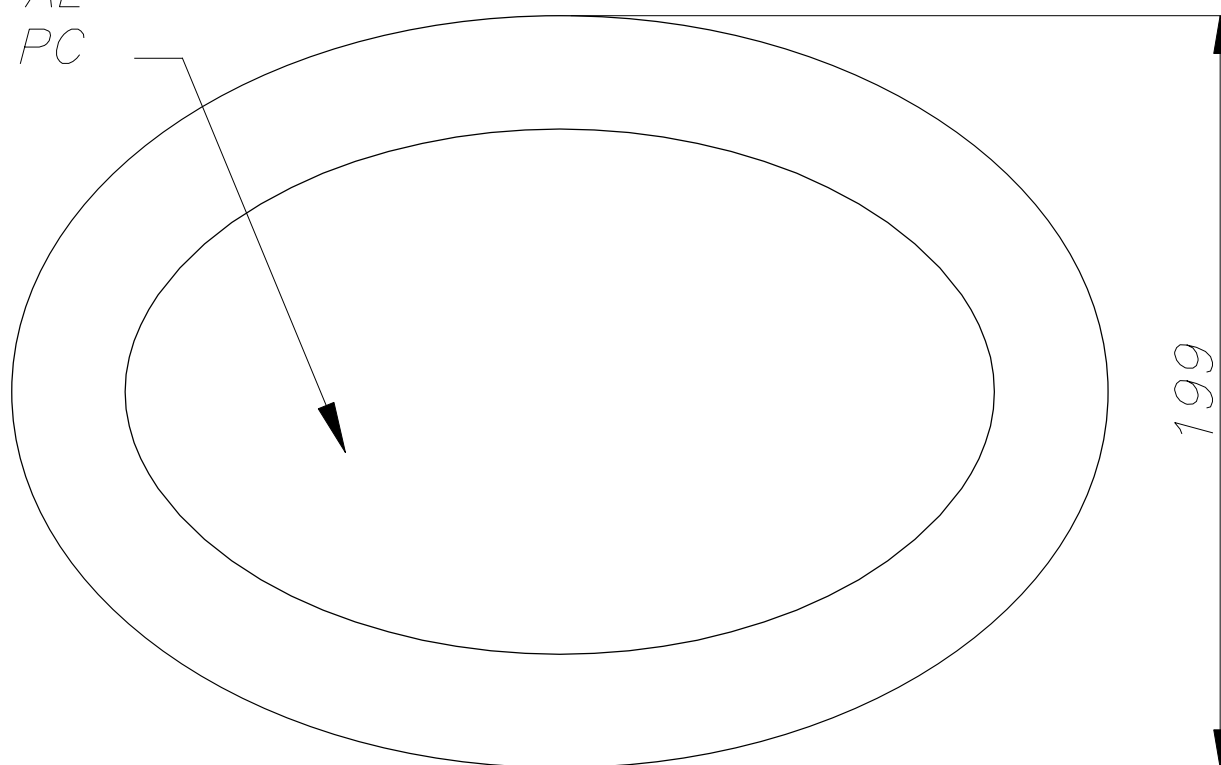
Code PX-0142-NEG  
Name Apliq. FORD1x23W TC-TEL opal

|                |            |                 |           |          |                |            |                    |
|----------------|------------|-----------------|-----------|----------|----------------|------------|--------------------|
| Luminaire Flux | 523.31 lm  | Luminaire Power | 23.00 W   | Efficacy | 22.75 lm/W     | Efficiency | 40.25%             |
| Lamps Flux     | 1300.00 lm | Maximum value   | 156.72 cd | Position | C=0.00 G=30.00 | CG         | Double Symmetrical |

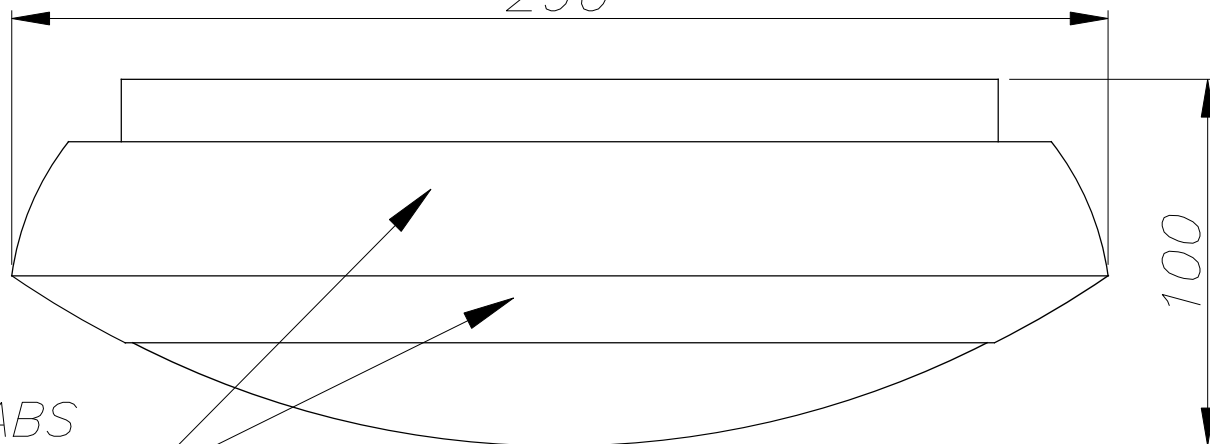
**US ROAD STANDARDS**


| Luminaire Classification System (LCS)        |              |          |                |
|----------------------------------------------|--------------|----------|----------------|
| LCS Zone                                     |              | Lumens   | %Lamp %Lum     |
| FL                                           | 0° -- 30°    | 59.9 lm  | 4.6 % 11.4 %   |
| FM                                           | 30° -- 60°   | 130.5 lm | 10.0 % 24.9 %  |
| FH                                           | 60° -- 80°   | 55.2 lm  | 4.2 % 10.5 %   |
| FVH                                          | 80° -- 90°   | 10.6 lm  | 0.8 % 2.0 %    |
| BL                                           | 0° -- 30°    | 59.9 lm  | 4.6 % 11.4 %   |
| BM                                           | 30° -- 60°   | 130.5 lm | 10.0 % 24.9 %  |
| BH                                           | 60° -- 80°   | 55.2 lm  | 4.2 % 10.5 %   |
| BVH                                          | 80° -- 90°   | 10.6 lm  | 0.8 % 2.0 %    |
| UL                                           | 90° -- 100°  | 6.3 lm   | 0.5 % 1.2 %    |
| UH                                           | 100° -- 180° | 4.6 lm   | 0.4 % 0.9 %    |
| TOTALS                                       |              | 523.3 lm | 40.3 % 100.0 % |
| BUG B0 U1 G1 Type II Very Short Asymmetrical |              |          |                |

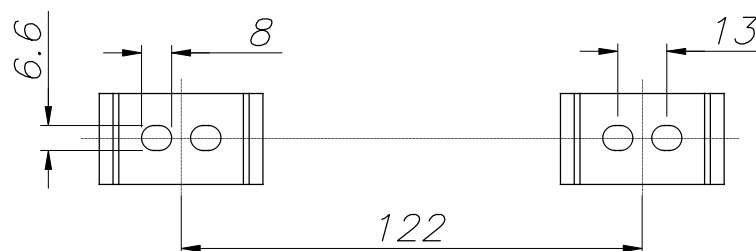
PC OPAL  
OPAL PC



290



PC+ABS  
PC+ABS

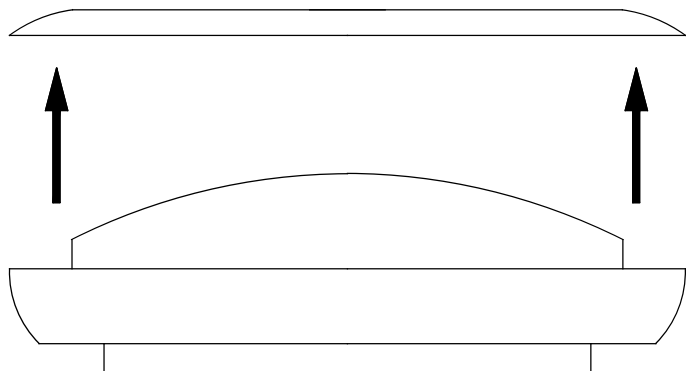


PLANTILLA DE INSTALACIÓN  
INSTALLATION TEMPLATE

①

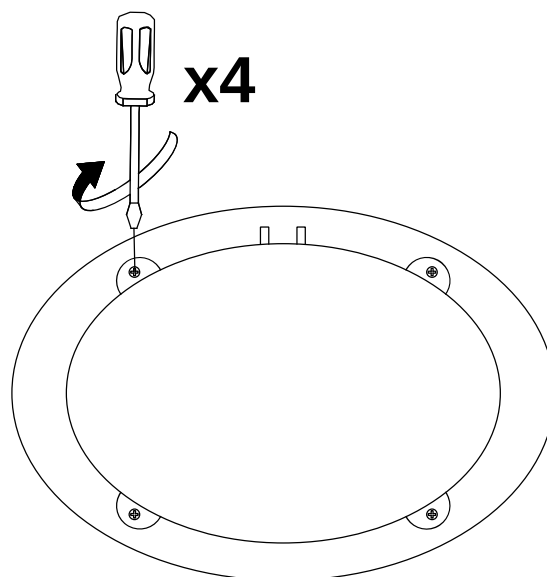
CLICK!

OFF



②

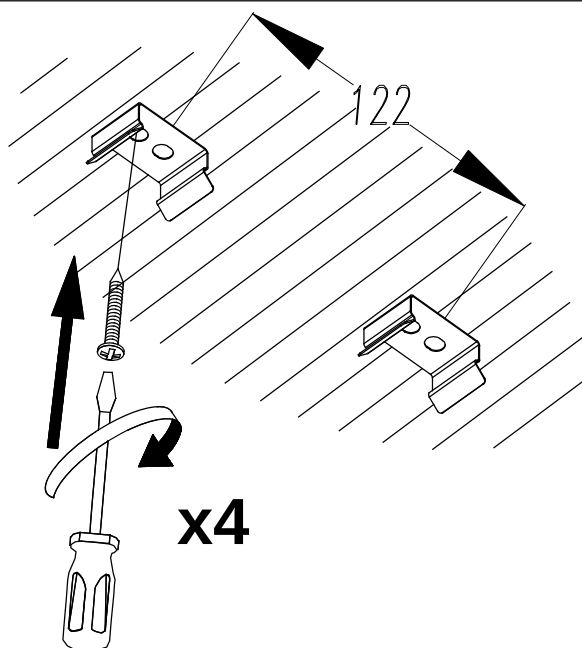
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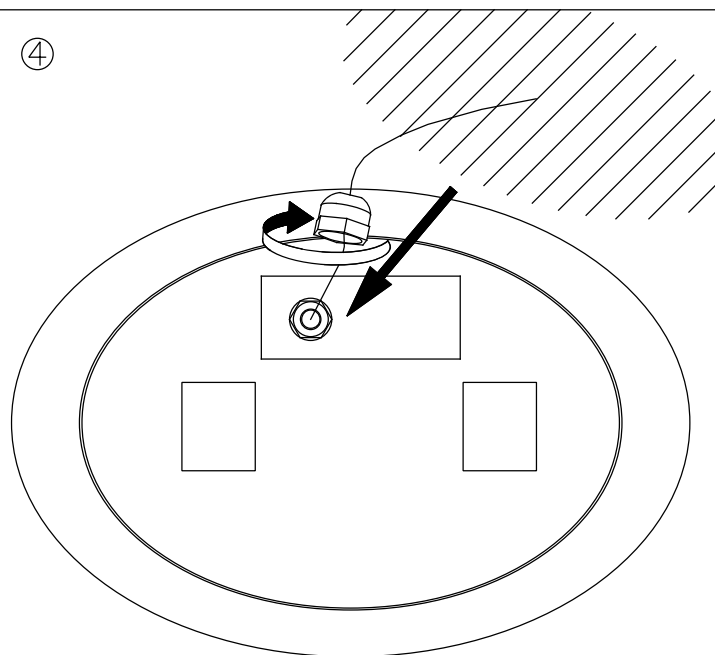
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122

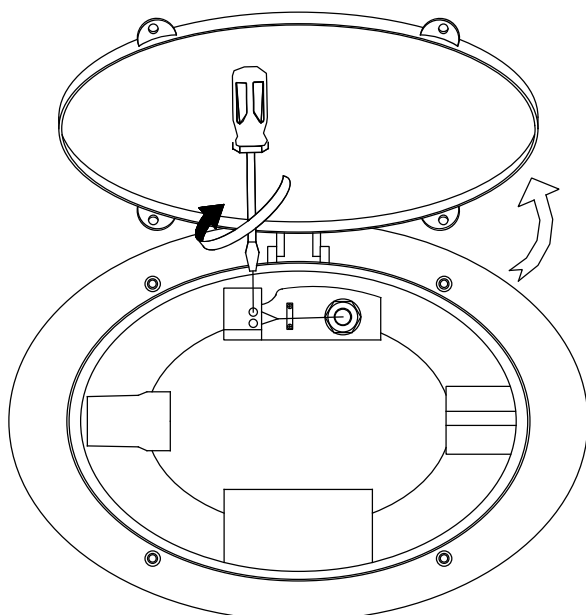
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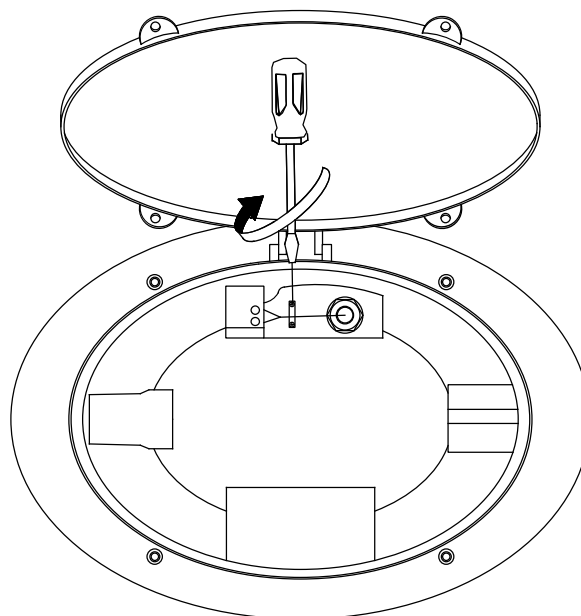
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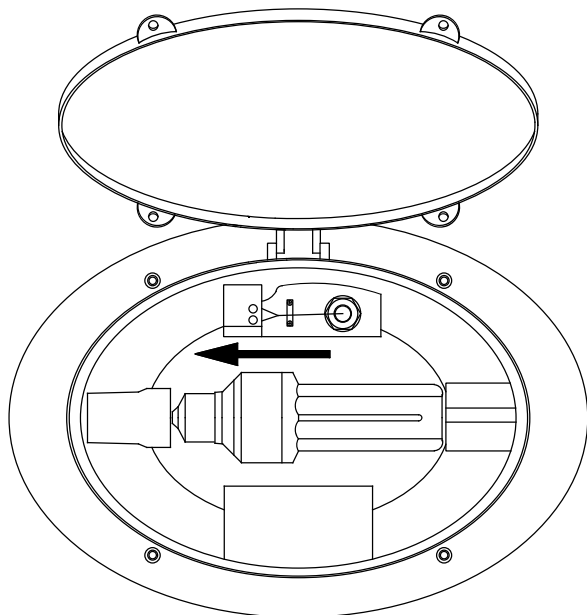
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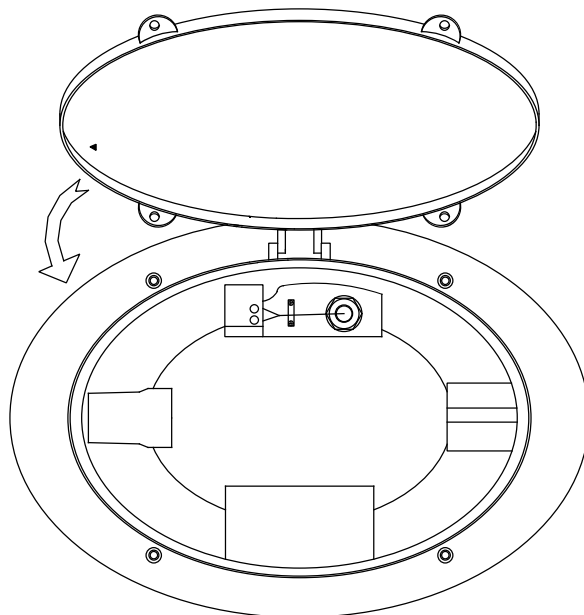
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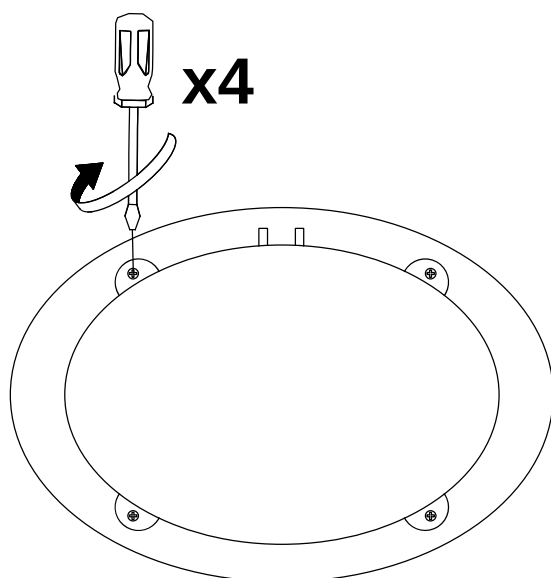
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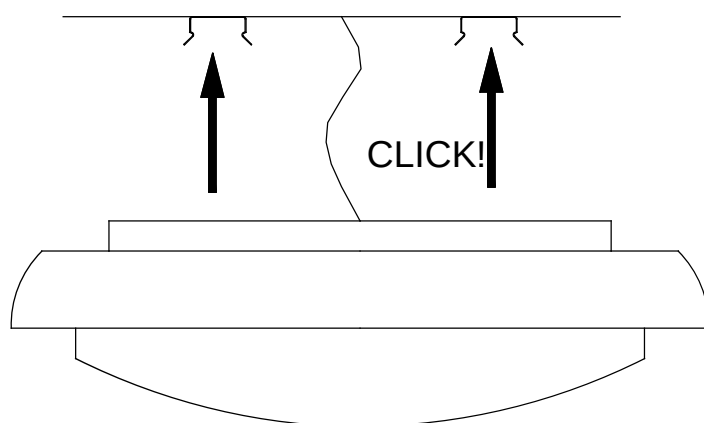
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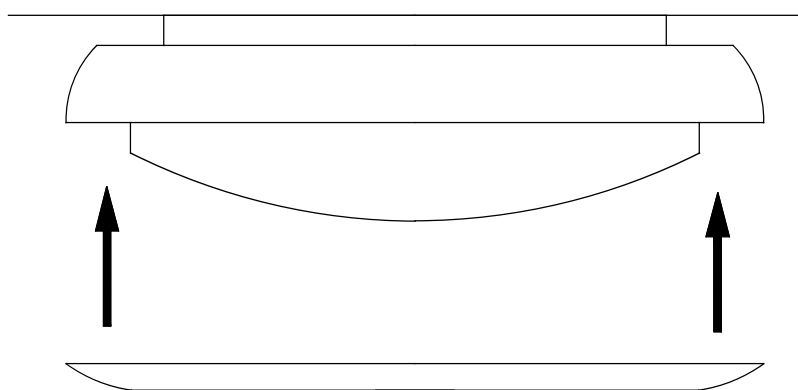
9



10



11



CLICK!

