

**Luminaire**

Code 90569L011

Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

**Measurem.**

Code 10/2/2023

Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

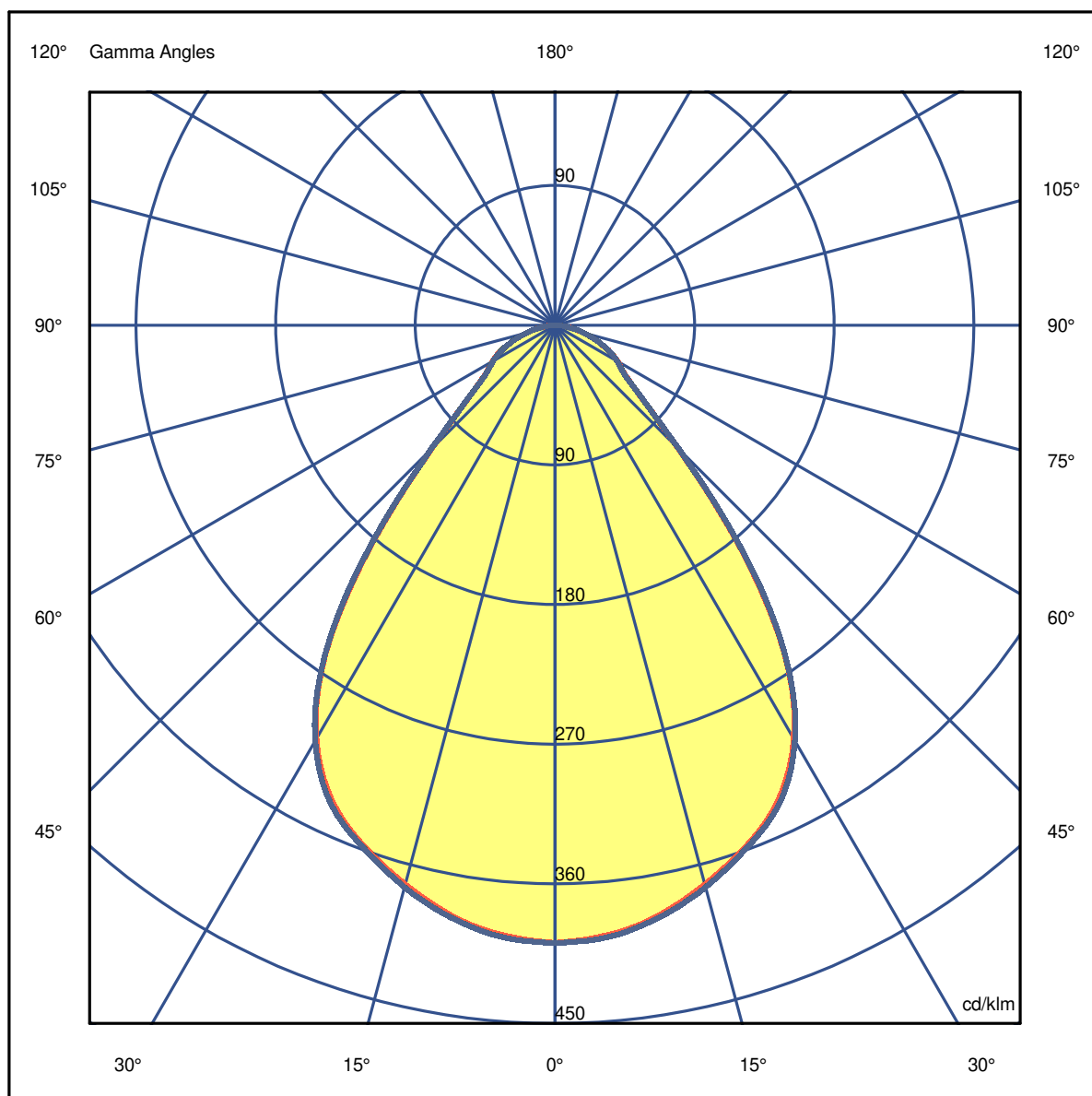
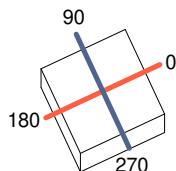
|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 814 lm  | Luminaire Power | 8.2 W         | Efficacy | 98.612 lm/W   | Efficiency | 67.57%             |
| Source Flux    | 1204 lm | Maximum value   | 397.90 cd/klm | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

100mm x 100mm

C Halfplanes

180.0 ————— 0.0

270.0 ————— 90.0



## Luminaire

Code 90569L011

Code 50509L011  
Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

**Measur.**

Code 10/2/2023

Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

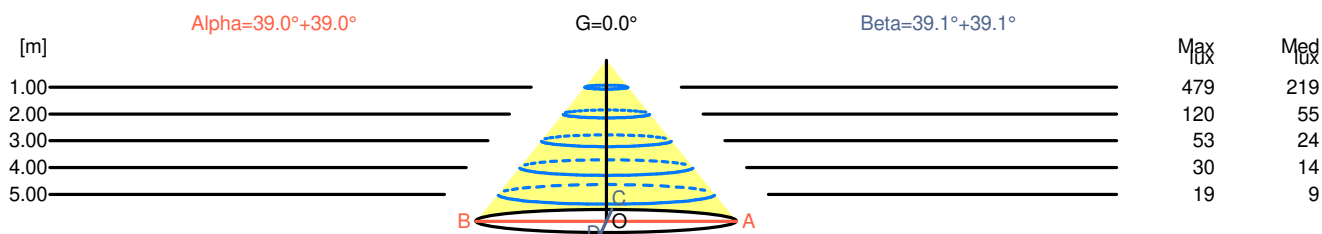
|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 814 lm  | Luminaire Power | 8.2 W         | Efficacy | 98.612 lm/W   | Efficiency | 67.57%             |
| Source Flux    | 1204 lm | Maximum value   | 397.90 cd/klm | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |


Width at 50.00 % of Max Intensity


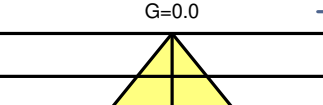
| H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 | H[m] | 1.00 | 2.00 | 3.00 | 4.00 | 5.00 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| OA   | 0.81 | 1.62 | 2.43 | 3.24 | 4.05 | OC   | 0.81 | 1.63 | 2.44 | 3.25 | 4.06 |
| OB   | 0.81 | 1.62 | 2.43 | 3.24 | 4.05 | OD   | 0.81 | 1.63 | 2.44 | 3.25 | 4.06 |

Luminous Intensities [ cd/klm]

|    | 0      | 5      | 15     | 25     | 35     | 45     | 55    | 65    | 75    | 85   |
|----|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|
| OA | 479.07 | 474.86 | 449.09 | 408.16 | 310.03 | 134.85 | 65.62 | 45.63 | 22.88 | 6.02 |
| OB | 479.07 | 474.86 | 449.09 | 408.16 | 310.03 | 134.85 | 65.62 | 45.63 | 22.88 | 6.02 |
| OC | 479.07 | 476.42 | 451.38 | 410.68 | 310.99 | 135.81 | 65.50 | 45.39 | 22.76 | 5.42 |
| OD | 479.07 | 476.42 | 451.38 | 410.68 | 310.99 | 135.81 | 65.50 | 45.39 | 22.76 | 5.42 |



| H[m] | D[m] | Max lux | Med lux | Alpha=39.0°+39.0° | G=0.0 |  |
|------|------|---------|---------|-------------------|-------|---|
| 1.00 | 1.62 | 479     | 219     |                   |       |   |
| 2.00 | 3.24 | 120     | 55      |                   |       |   |
| 3.00 | 4.86 | 53      | 24      |                   |       |   |
| 4.00 | 6.48 | 30      | 14      |                   |       |   |
| 5.00 | 8.10 | 19      | 9       |                   |       |   |

| H[m] | D[m] | Max<br>lux | Med<br>lux | Beta=39.1°+39.1° <span style="float:right">G=0.0</span> <div></div> |  |  |
|------|------|------------|------------|--|--|--|
| 1.00 | 1.63 | 479        | 219        |    |  |  |
| 2.00 | 3.25 | 120        | 55         |  |  |  |
| 3.00 | 4.88 | 53         | 24         |  |  |  |
| 4.00 | 6.50 | 30         | 14         |  |  |  |
| 5.00 | 8.13 | 19         | 9          |  |  |  |

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Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 814 lm  | Luminaire Power | 8.2 W         | Efficacy | 98.612 lm/W   | Efficiency | 67.57%             |
| Source Flux    | 1204 lm | Maximum value   | 397.90 cd/klm | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

**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  |
| Working Plane   | 0.2          | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |              |      |      |      |      |                |      |      |      |      |
| Room Dimensions | Lateral View |      |      |      |      | Viewed Endwise |      |      |      |      |
| x=2H y=2H       | 18.8         | 19.8 | 19.0 | 20.0 | 20.2 | 18.8           | 19.8 | 19.0 | 20.0 | 20.2 |
| x=2H y=3H       | 19.2         | 20.1 | 19.5 | 20.4 | 20.6 | 19.2           | 20.1 | 19.5 | 20.4 | 20.6 |
| x=2H y=4H       | 19.4         | 20.2 | 19.7 | 20.5 | 20.8 | 19.4           | 20.2 | 19.7 | 20.5 | 20.8 |
| x=2H y=6H       | 19.5         | 20.2 | 19.8 | 20.5 | 20.8 | 19.5           | 20.2 | 19.8 | 20.5 | 20.8 |
| x=2H y=8H       | 19.5         | 20.2 | 19.8 | 20.5 | 20.8 | 19.4           | 20.2 | 19.8 | 20.5 | 20.8 |
| x=2H y=12H      | 19.4         | 20.2 | 19.8 | 20.5 | 20.8 | 19.4           | 20.2 | 19.8 | 20.5 | 20.8 |
| x=4H y=2H       | 18.9         | 19.7 | 19.2 | 20.0 | 20.3 | 18.9           | 19.7 | 19.2 | 20.0 | 20.3 |
| x=4H y=3H       | 19.5         | 20.2 | 19.8 | 20.5 | 20.8 | 19.5           | 20.2 | 19.8 | 20.5 | 20.8 |
| x=4H y=4H       | 19.7         | 20.3 | 20.1 | 20.7 | 21.0 | 19.7           | 20.3 | 20.1 | 20.7 | 21.0 |
| x=4H y=6H       | 19.8         | 20.4 | 20.2 | 20.8 | 21.1 | 19.8           | 20.4 | 20.2 | 20.7 | 21.1 |
| x=4H y=8H       | 19.9         | 20.3 | 20.3 | 20.7 | 21.1 | 19.8           | 20.3 | 20.3 | 20.7 | 21.1 |
| x=4H y=12H      | 19.8         | 20.3 | 20.3 | 20.7 | 21.1 | 19.8           | 20.3 | 20.3 | 20.7 | 21.1 |
| x=8H y=4H       | 19.7         | 20.2 | 20.1 | 20.6 | 21.0 | 19.7           | 20.2 | 20.1 | 20.6 | 21.0 |
| x=8H y=6H       | 19.9         | 20.3 | 20.3 | 20.7 | 21.2 | 19.9           | 20.3 | 20.3 | 20.7 | 21.2 |
| x=8H y=8H       | 19.9         | 20.3 | 20.4 | 20.7 | 21.2 | 19.9           | 20.3 | 20.4 | 20.7 | 21.2 |
| x=8H y=12H      | 19.9         | 20.2 | 20.4 | 20.7 | 21.2 | 19.9           | 20.2 | 20.4 | 20.7 | 21.2 |
| x=12H y=4H      | 19.7         | 20.1 | 20.1 | 20.5 | 21.0 | 19.7           | 20.1 | 20.1 | 20.5 | 21.0 |
| x=12H y=6H      | 19.9         | 20.2 | 20.4 | 20.7 | 21.1 | 19.9           | 20.2 | 20.3 | 20.6 | 21.1 |
| x=12H y=8H      | 19.9         | 20.2 | 20.4 | 20.7 | 21.2 | 19.9           | 20.2 | 20.4 | 20.7 | 21.2 |

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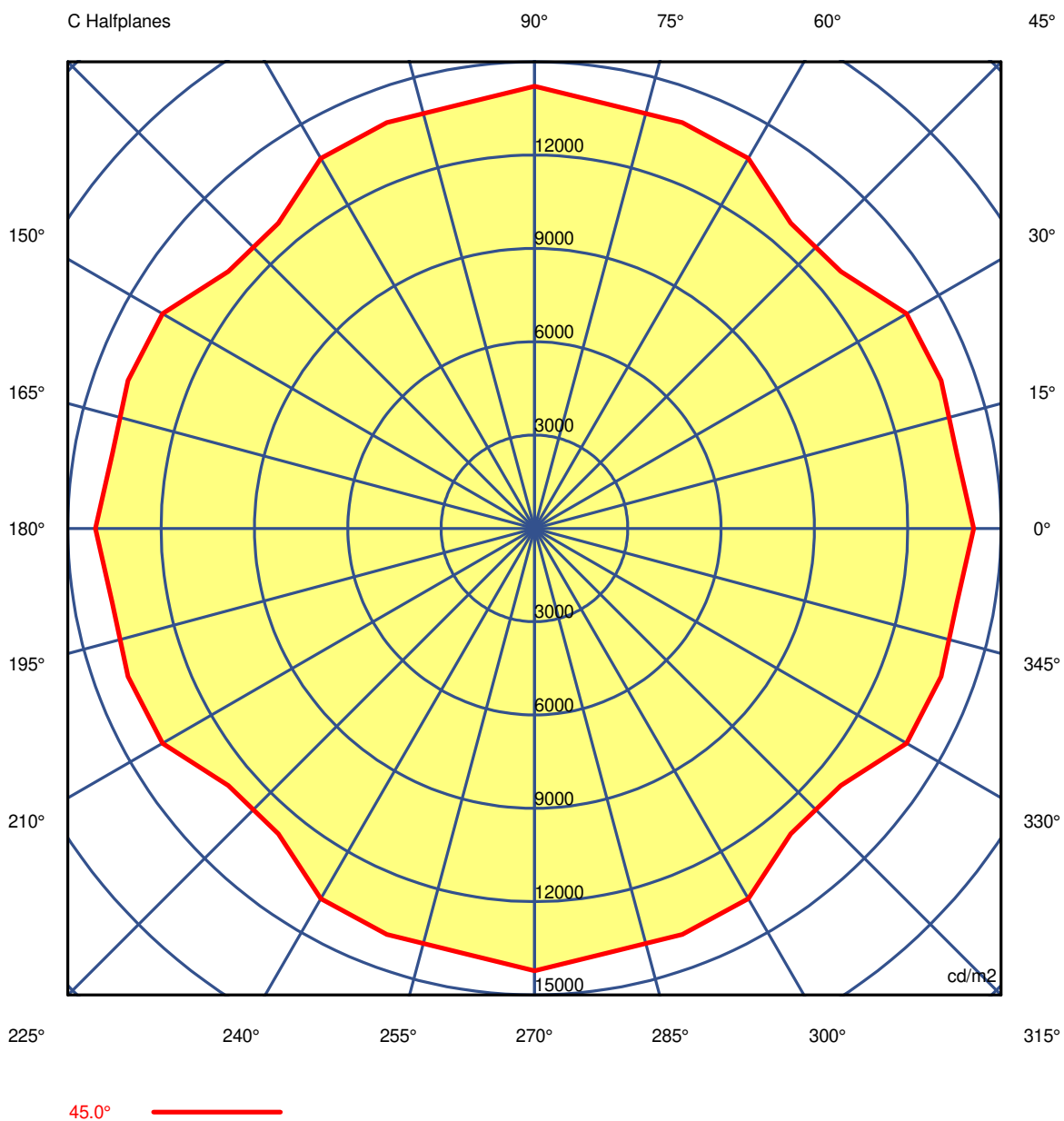
**Measurem.**

Code 10/2/2023

Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

|                |         |                 |               |          |               |                       |        |
|----------------|---------|-----------------|---------------|----------|---------------|-----------------------|--------|
| Luminaire Flux | 814 lm  | Luminaire Power | 8.2 W         | Efficacy | 98.612 lm/W   | Efficiency            | 67.57% |
| Source Flux    | 1204 lm | Maximum value   | 397.90 cd/klm | Position | C=0.00 G=0.00 | CG Double Symmetrical |        |

Luminance



**Luminaire**

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**Measur.**

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Name VEGA SQ IP /E Q100 LIGHT+ 930 MO

| Luminaire Flux  | 814 lm  |         | Luminaire Power |         | 8.2 W         |         | Efficacy |         | 98.612 lm/W   |         | Efficiency |          | 67.57%             |  |
|-----------------|---------|---------|-----------------|---------|---------------|---------|----------|---------|---------------|---------|------------|----------|--------------------|--|
| Source Flux     | 1204 lm |         | Maximum value   |         | 397.90 cd/klm |         | Position |         | C=0.00 G=0.00 |         | CG         |          | Double Symmetrical |  |
| Luminance cd/m2 |         |         |                 |         |               |         |          |         |               |         |            |          |                    |  |
| Table 1/3       |         |         |                 |         |               |         |          |         |               |         |            |          |                    |  |
|                 | C 0.00  | C 10.00 | C 20.00         | C 30.00 | C 40.00       | C 50.00 | C 60.00  | C 70.00 | C 80.00       | C 90.00 | C 100.00   | C 110.00 | C 120.00           |  |
| G 0.0           | 89899   | 89899   | 89899           | 89899   | 89899         | 89899   | 89899    | 89899   | 89899         | 89899   | 89899      | 89899    | 89899              |  |
| G 5.0           | 78863   | 77646   | 76606           | 75761   | 75290         | 75312   | 75799    | 76615   | 77718         | 79123   | 77718      | 76615    | 75799              |  |
| G 10.0          | 69718   | 67711   | 66087           | 64878   | 64297         | 64307   | 64878    | 66030   | 67717         | 69953   | 67717      | 66030    | 64878              |  |
| G 15.0          | 61828   | 59239   | 57352           | 56080   | 55412         | 55440   | 56155    | 57463   | 59425         | 62143   | 59425      | 57463    | 56155              |  |
| G 20.0          | 55248   | 52301   | 50182           | 48815   | 48240         | 48264   | 48883    | 50274   | 52431         | 55417   | 52431      | 50274    | 48883              |  |
| G 25.0          | 49264   | 46185   | 44030           | 42677   | 42074         | 42154   | 42879    | 44264   | 46438         | 49569   | 46438      | 44264    | 42879              |  |
| G 30.0          | 42554   | 39800   | 37889           | 36653   | 36049         | 36146   | 36866    | 38047   | 39928         | 42775   | 39928      | 38047    | 36866              |  |
| G 35.0          | 34239   | 31936   | 30573           | 29778   | 29169         | 29253   | 29990    | 30815   | 32132         | 34346   | 32132      | 30815    | 29990              |  |
| G 40.0          | 23635   | 22477   | 21899           | 21501   | 20927         | 21000   | 21704    | 22184   | 22764         | 23854   | 22764      | 22184    | 21704              |  |
| G 45.0          | 14121   | 13787   | 13904           | 13809   | 12851         | 12814   | 13737    | 13886   | 13841         | 14222   | 13841      | 13886    | 13737              |  |
| G 50.0          | 9072    | 8605    | 8458            | 8281    | 7736          | 7669    | 8110     | 8264    | 8470          | 9059    | 8470       | 8264     | 8110               |  |
| G 55.0          | 6727    | 6134    | 5759            | 5534    | 5410          | 5376    | 5455     | 5690    | 6095          | 6715    | 6095       | 5690     | 5455               |  |
| G 60.0          | 5745    | 5119    | 4721            | 4480    | 4350          | 4345    | 4460     | 4678    | 5061          | 5683    | 5061       | 4678     | 4460               |  |
| G 65.0          | 4723    | 4167    | 3802            | 3600    | 3555          | 3555    | 3600     | 3796    | 4152          | 4698    | 4152       | 3796     | 3600               |  |
| G 70.0          | 3534    | 3110    | 2839            | 2688    | 2640          | 2644    | 2698     | 2843    | 3108          | 3534    | 3108       | 2843     | 2698               |  |
| G 75.0          | 2466    | 2166    | 1973            | 1860    | 1817          | 1818    | 1860     | 1966    | 2153          | 2453    | 2153       | 1966     | 1860               |  |
| G 80.0          | 1516    | 1318    | 1199            | 1131    | 1099          | 1096    | 1121     | 1188    | 1303          | 1489    | 1303       | 1188     | 1121               |  |
| G 85.0          | 699     | 608     | 552             | 519     | 498           | 490     | 499      | 524     | 565           | 629     | 565        | 524      | 499                |  |
| G 90.0          | 118     | 113     | 100             | 86      | 84            | 77      | 65       | 75      | 89            | 103     | 89         | 75       | 65                 |  |

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| Luminaire Flux  |       | 814 lm   |          | Luminaire Power |          | 8.2 W         |          | Efficacy |          | 98.612 lm/W   |          | Efficiency |          | 67.57%             |       |       |
|-----------------|-------|----------|----------|-----------------|----------|---------------|----------|----------|----------|---------------|----------|------------|----------|--------------------|-------|-------|
| Source Flux     |       | 1204 lm  |          | Maximum value   |          | 397.90 cd/klm |          | Position |          | C=0.00 G=0.00 |          | CG         |          | Double Symmetrical |       |       |
| Luminance cd/m2 |       |          |          |                 |          |               |          |          |          |               |          |            |          | Table 2/3          |       |       |
|                 |       | C 130.00 | C 140.00 | C 150.00        | C 160.00 | C 170.00      | C 180.00 | C 190.00 | C 200.00 | C 210.00      | C 220.00 | C 230.00   | C 240.00 | C 250.00           |       |       |
| G 0.0           | 89899 | 89899    | 89899    | 89899           | 89899    | 89899         | 89899    | 89899    | 89899    | 89899         | 89899    | 89899      | 89899    | 89899              | 89899 | 89899 |
| G 5.0           | 75312 | 75290    | 75761    | 76606           | 77646    | 78863         | 77646    | 76606    | 75761    | 75290         | 75312    | 75799      | 76615    | 77463              | 78211 | 78959 |
| G 10.0          | 64307 | 64297    | 64878    | 66087           | 67711    | 69718         | 67711    | 66087    | 64878    | 64297         | 64307    | 64878      | 66030    | 67188              | 68246 | 69304 |
| G 15.0          | 55440 | 55412    | 56080    | 57352           | 59239    | 61828         | 59239    | 57352    | 56080    | 55412         | 55440    | 56155      | 57463    | 58971              | 60579 | 62187 |
| G 20.0          | 48264 | 48240    | 48815    | 50182           | 52301    | 55248         | 52301    | 50182    | 48815    | 48240         | 48264    | 48883      | 50274    | 51882              | 53490 | 55098 |
| G 25.0          | 42154 | 42074    | 42677    | 44030           | 46185    | 49264         | 46185    | 44030    | 42677    | 42074         | 42154    | 42879      | 44264    | 45649              | 47034 | 48419 |
| G 30.0          | 36146 | 36049    | 36653    | 37889           | 39800    | 42554         | 39800    | 37889    | 36653    | 36049         | 36146    | 36866      | 38047    | 39228              | 40409 | 41590 |
| G 35.0          | 29253 | 29169    | 29778    | 30573           | 31936    | 34239         | 31936    | 30573    | 29778    | 29169         | 29253    | 29990      | 30815    | 31640              | 32465 | 33290 |
| G 40.0          | 21000 | 20927    | 21501    | 21899           | 22477    | 23635         | 22477    | 21899    | 21501    | 20927         | 21000    | 21704      | 22184    | 22888              | 23592 | 24296 |
| G 45.0          | 12814 | 12851    | 13809    | 13904           | 13787    | 14121         | 13787    | 13904    | 13809    | 12851         | 12814    | 13737      | 13886    | 14035              | 14184 | 14333 |
| G 50.0          | 7669  | 7736     | 8281     | 8458            | 8605     | 9072          | 8605     | 8458     | 8281     | 7736          | 7669     | 8110       | 8264     | 8418               | 8572  | 8726  |
| G 55.0          | 5376  | 5410     | 5534     | 5759            | 6134     | 6727          | 6134     | 5759     | 5534     | 5410          | 5376     | 5455       | 5690     | 5869               | 6048  | 6227  |
| G 60.0          | 4345  | 4350     | 4480     | 4721            | 5119     | 5745          | 5119     | 4721     | 4480     | 4350          | 4345     | 4460       | 4678     | 4837               | 5006  | 5175  |
| G 65.0          | 3555  | 3555     | 3600     | 3802            | 4167     | 4723          | 4167     | 3802     | 3600     | 3555          | 3555     | 3600       | 3796     | 3935               | 4074  | 4213  |
| G 70.0          | 2644  | 2640     | 2688     | 2839            | 3110     | 3534          | 3110     | 2839     | 2688     | 2640          | 2644     | 2698       | 2843     | 2988               | 3133  | 3278  |
| G 75.0          | 1818  | 1817     | 1860     | 1973            | 2166     | 2466          | 2166     | 1973     | 1860     | 1817          | 1818     | 1860       | 1966     | 2072               | 2178  | 2284  |
| G 80.0          | 1096  | 1099     | 1131     | 1199            | 1318     | 1516          | 1318     | 1199     | 1131     | 1099          | 1096     | 1121       | 1188     | 1255               | 1322  | 1389  |
| G 85.0          | 490   | 498      | 519      | 552             | 608      | 699           | 608      | 552      | 519      | 498           | 490      | 499        | 524      | 549                | 574   | 599   |
| G 90.0          | 77    | 84       | 86       | 100             | 113      | 118           | 113      | 100      | 86       | 84            | 77       | 65         | 75       | 85                 | 95    | 105   |

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|                |         |                 |               |          |               |                       |        |
|----------------|---------|-----------------|---------------|----------|---------------|-----------------------|--------|
| Luminaire Flux | 814 lm  | Luminaire Power | 8.2 W         | Efficacy | 98.612 lm/W   | Efficiency            | 67.57% |
| Source Flux    | 1204 lm | Maximum value   | 397.90 cd/klm | Position | C=0.00 G=0.00 | CG Double Symmetrical |        |

**Luminance cd/m2 Table 3/3**

|        | C 260.00 | C 270.00 | C 280.00 | C 290.00 | C 300.00 | C 310.00 | C 320.00 | C 330.00 | C 340.00 | C 350.00 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| G 0.0  | 89899    | 89899    | 89899    | 89899    | 89899    | 89899    | 89899    | 89899    | 89899    | 89899    |
| G 5.0  | 77718    | 79123    | 77718    | 76615    | 75799    | 75312    | 75290    | 75761    | 76606    | 77646    |
| G 10.0 | 67717    | 69953    | 67717    | 66030    | 64878    | 64307    | 64297    | 64878    | 66087    | 67711    |
| G 15.0 | 59425    | 62143    | 59425    | 57463    | 56155    | 55440    | 55412    | 56080    | 57352    | 59239    |
| G 20.0 | 52431    | 55417    | 52431    | 50274    | 48883    | 48264    | 48240    | 48815    | 50182    | 52301    |
| G 25.0 | 46438    | 49569    | 46438    | 44264    | 42879    | 42154    | 42074    | 42677    | 44030    | 46185    |
| G 30.0 | 39928    | 42775    | 39928    | 38047    | 36866    | 36146    | 36049    | 36653    | 37889    | 39800    |
| G 35.0 | 32132    | 34346    | 32132    | 30815    | 29990    | 29253    | 29169    | 29778    | 30573    | 31936    |
| G 40.0 | 22764    | 23854    | 22764    | 22184    | 21704    | 21000    | 20927    | 21501    | 21899    | 22477    |
| G 45.0 | 13841    | 14222    | 13841    | 13886    | 13737    | 12814    | 12851    | 13809    | 13904    | 13787    |
| G 50.0 | 8470     | 9059     | 8470     | 8264     | 8110     | 7669     | 7736     | 8281     | 8458     | 8605     |
| G 55.0 | 6095     | 6715     | 6095     | 5690     | 5455     | 5376     | 5410     | 5534     | 5759     | 6134     |
| G 60.0 | 5061     | 5683     | 5061     | 4678     | 4460     | 4345     | 4350     | 4480     | 4721     | 5119     |
| G 65.0 | 4152     | 4698     | 4152     | 3796     | 3600     | 3555     | 3555     | 3600     | 3802     | 4167     |
| G 70.0 | 3108     | 3534     | 3108     | 2843     | 2698     | 2644     | 2640     | 2688     | 2839     | 3110     |
| G 75.0 | 2153     | 2453     | 2153     | 1966     | 1860     | 1818     | 1817     | 1860     | 1973     | 2166     |
| G 80.0 | 1303     | 1489     | 1303     | 1188     | 1121     | 1096     | 1099     | 1131     | 1199     | 1318     |
| G 85.0 | 565      | 629      | 565      | 524      | 499      | 490      | 498      | 519      | 552      | 608      |
| G 90.0 | 89       | 103      | 89       | 75       | 65       | 77       | 84       | 86       | 100      | 113      |