

**Luminaire**

Code 90430L015

Name VEGA /E D100 LIGHT+ 930 HO

**Measurem.**

Code 10/2/2023

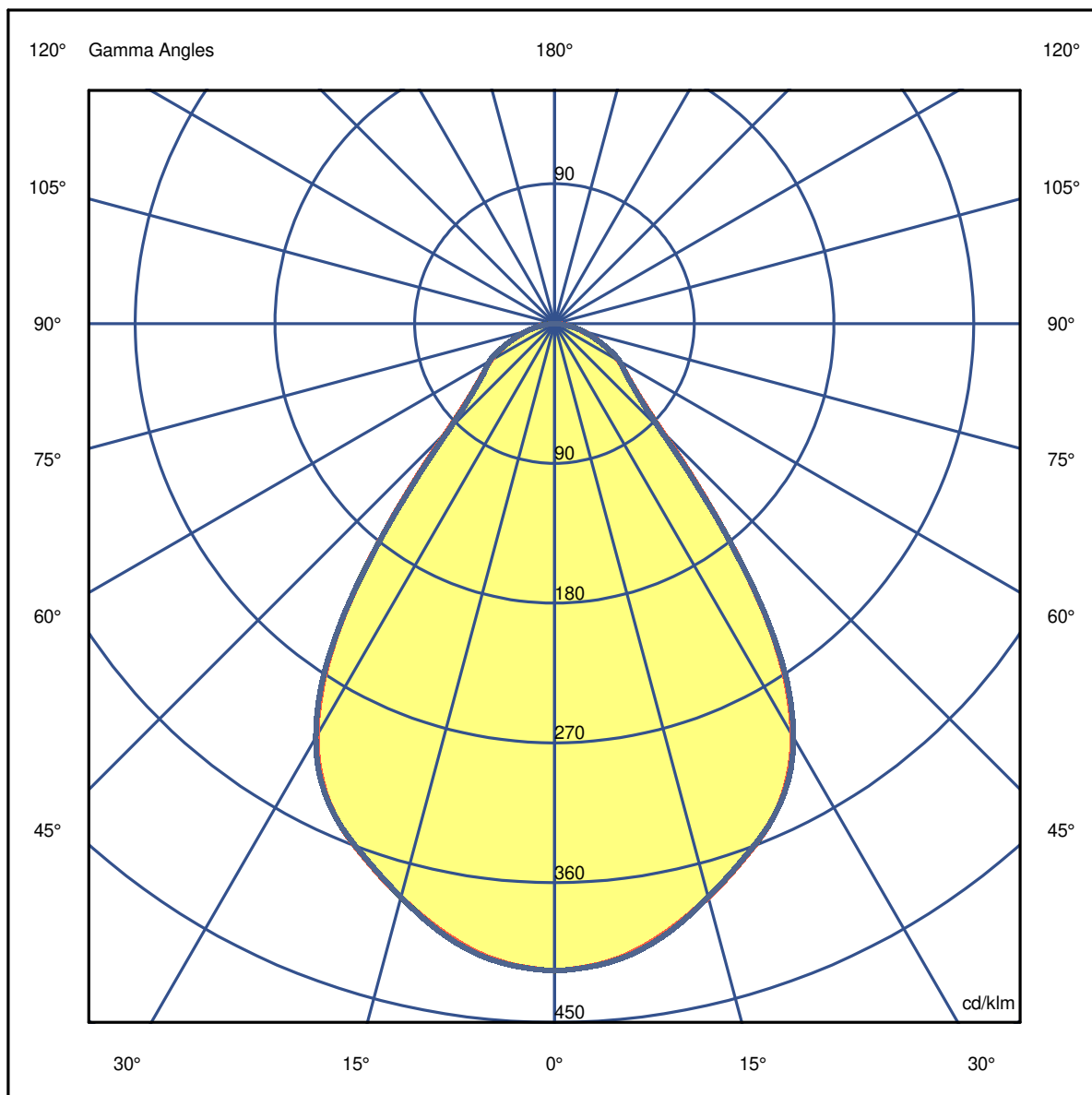
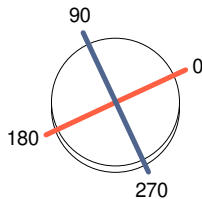
Name VEGA /E D100 LIGHT+ 930 HO

|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 1066 lm | Luminaire Power | 11.8 W        | Efficacy | 90.627 lm/W   | Efficiency | 64.75%             |
| Source Flux    | 1646 lm | Maximum value   | 416.80 cd/klm | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

Diam=100mm

C Halfplanes

180.0 ——— 0.0  
270.0 ——— 90.0



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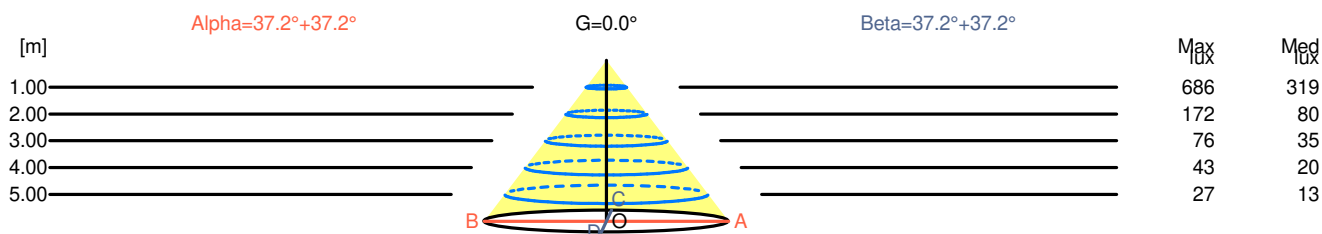
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|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
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Width at 50.00 % of Max Intensity

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 0.76 | 1.52 | 2.28 | 3.04 | 3.80 | OC   | 0.76 | 1.52 | 2.28 | 3.04 | 3.80 |
| OB   | 0.76 | 1.52 | 2.28 | 3.04 | 3.80 | OD   | 0.76 | 1.52 | 2.28 | 3.04 | 3.80 |

| Luminous Intensities [ cd/klm] |        |        |        |        |        |        |       |       |       |      |  |
|--------------------------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--|
|                                | 0      | 5      | 15     | 25     | 35     | 45     | 55    | 65    | 75    | 85   |  |
| OA                             | 686.05 | 678.32 | 629.43 | 563.26 | 403.60 | 160.98 | 92.67 | 61.72 | 30.29 | 7.90 |  |
| OB                             | 686.05 | 678.32 | 629.43 | 563.26 | 403.60 | 160.98 | 92.67 | 61.72 | 30.29 | 7.90 |  |
| OC                             | 686.05 | 679.14 | 629.27 | 563.75 | 405.57 | 157.19 | 91.85 | 61.89 | 30.45 | 6.91 |  |
| OD                             | 686.05 | 679.14 | 629.27 | 563.75 | 405.57 | 157.19 | 91.85 | 61.89 | 30.45 | 6.91 |  |



| H[m] | D[m] | Max lux | Med lux | Alpha=37.2°+37.2° | G=0.0 |
|------|------|---------|---------|-------------------|-------|
| 1.00 | 1.52 | 686     | 319     |                   |       |
| 2.00 | 3.04 | 172     | 80      |                   |       |
| 3.00 | 4.56 | 76      | 35      |                   |       |
| 4.00 | 6.08 | 43      | 20      |                   |       |
| 5.00 | 7.60 | 27      | 13      |                   |       |

| H[m] | D[m] | Max lux | Med lux | Beta=37.2°+37.2° | G=0.0 |
|------|------|---------|---------|------------------|-------|
| 1.00 | 1.52 | 686     | 319     |                  |       |
| 2.00 | 3.04 | 172     | 80      |                  |       |
| 3.00 | 4.56 | 76      | 35      |                  |       |
| 4.00 | 6.08 | 43      | 20      |                  |       |
| 5.00 | 7.60 | 27      | 13      |                  |       |

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|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 1066 lm | Luminaire Power | 11.8 W        | Efficacy | 90.627 lm/W   | Efficiency | 64.75%             |
| Source Flux    | 1646 lm | Maximum value   | 416.80 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 | Lateral View |      |      |      |      | Viewed Endwise |      |      |      |      |
| x=2H y=2H       | 20.2         | 21.2 | 20.5 | 21.4 | 21.6 | 20.2           | 21.2 | 20.5 | 21.4 | 21.6 |
| x=2H y=3H       | 20.7         | 21.6 | 21.0 | 21.8 | 22.1 | 20.7           | 21.6 | 21.0 | 21.8 | 22.1 |
| x=2H y=4H       | 20.9         | 21.7 | 21.2 | 22.0 | 22.2 | 20.9           | 21.7 | 21.2 | 22.0 | 22.2 |
| x=2H y=6H       | 20.9         | 21.7 | 21.3 | 22.0 | 22.3 | 20.9           | 21.7 | 21.2 | 22.0 | 22.3 |
| x=2H y=8H       | 20.9         | 21.7 | 21.3 | 22.0 | 22.3 | 20.9           | 21.6 | 21.3 | 21.9 | 22.2 |
| x=2H y=12H      | 20.9         | 21.6 | 21.3 | 21.9 | 22.3 | 20.9           | 21.6 | 21.3 | 21.9 | 22.2 |
| x=4H y=2H       | 20.4         | 21.3 | 20.7 | 21.5 | 21.8 | 20.4           | 21.2 | 20.7 | 21.5 | 21.8 |
| x=4H y=3H       | 21.1         | 21.8 | 21.4 | 22.1 | 22.4 | 21.1           | 21.8 | 21.4 | 22.1 | 22.4 |
| x=4H y=4H       | 21.3         | 21.9 | 21.7 | 22.3 | 22.6 | 21.3           | 21.9 | 21.7 | 22.3 | 22.6 |
| x=4H y=6H       | 21.4         | 22.0 | 21.8 | 22.3 | 22.7 | 21.4           | 22.0 | 21.8 | 22.3 | 22.7 |
| x=4H y=8H       | 21.5         | 21.9 | 21.9 | 22.3 | 22.8 | 21.4           | 21.9 | 21.9 | 22.3 | 22.7 |
| x=4H y=12H      | 21.5         | 21.9 | 21.9 | 22.3 | 22.7 | 21.4           | 21.9 | 21.9 | 22.3 | 22.7 |
| x=8H y=4H       | 21.4         | 21.9 | 21.8 | 22.2 | 22.7 | 21.3           | 21.8 | 21.8 | 22.2 | 22.6 |
| x=8H y=6H       | 21.5         | 21.9 | 22.0 | 22.4 | 22.8 | 21.5           | 21.9 | 22.0 | 22.3 | 22.8 |
| x=8H y=8H       | 21.6         | 21.9 | 22.1 | 22.4 | 22.8 | 21.6           | 21.9 | 22.0 | 22.3 | 22.8 |
| x=8H y=12H      | 21.6         | 21.9 | 22.1 | 22.3 | 22.8 | 21.5           | 21.8 | 22.0 | 22.3 | 22.8 |
| x=12H y=4H      | 21.3         | 21.8 | 21.8 | 22.2 | 22.6 | 21.3           | 21.8 | 21.8 | 22.2 | 22.6 |
| x=12H y=6H      | 21.5         | 21.9 | 22.0 | 22.3 | 22.8 | 21.5           | 21.8 | 22.0 | 22.3 | 22.7 |
| x=12H y=8H      | 21.6         | 21.9 | 22.1 | 22.3 | 22.8 | 21.5           | 21.8 | 22.0 | 22.3 | 22.8 |

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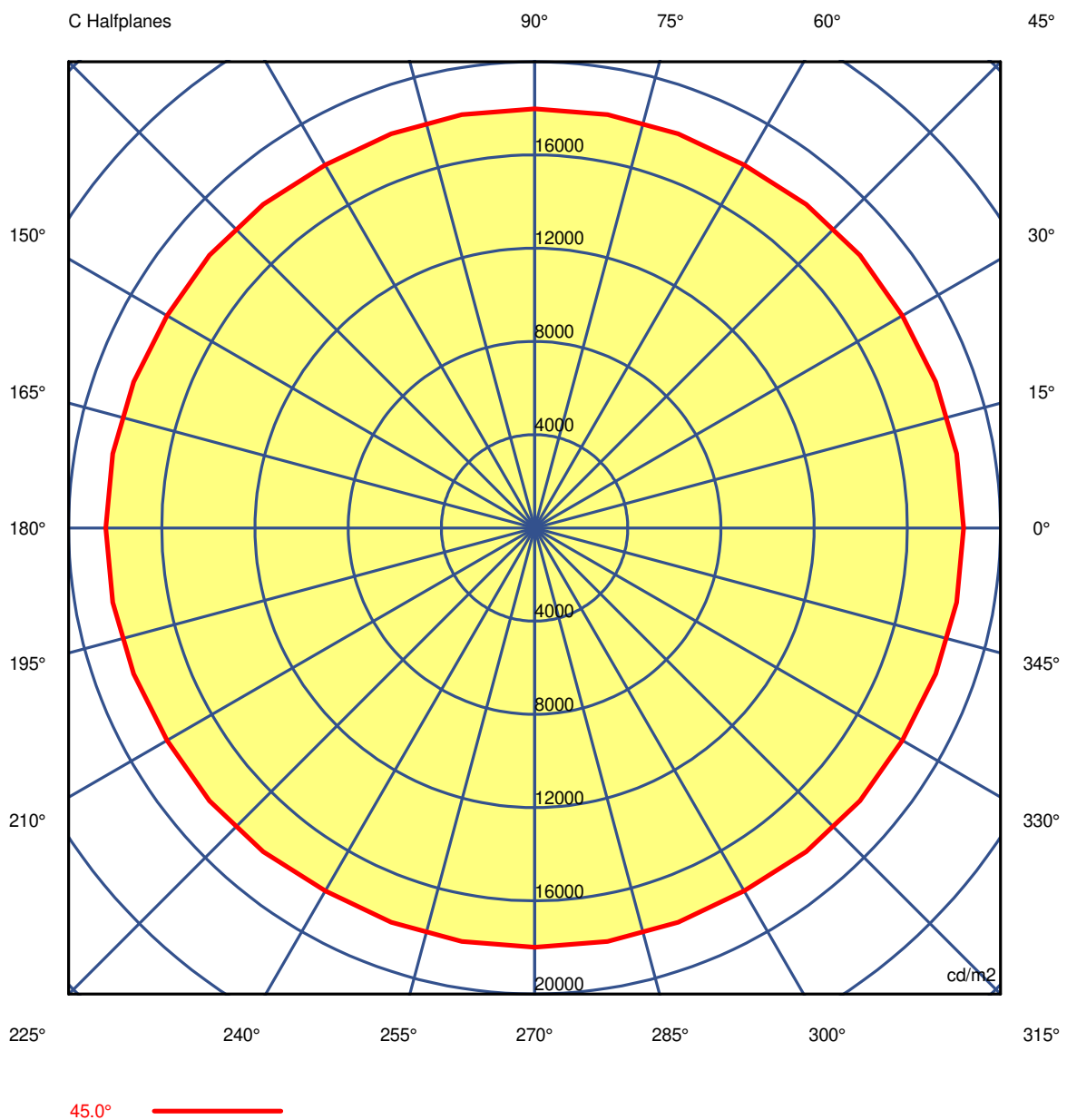
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| Luminaire Flux | 1066 lm | Luminaire Power | 11.8 W        | Efficacy | 90.627 lm/W   | Efficiency | 64.75%             |
| Source Flux    | 1646 lm | Maximum value   | 416.80 cd/klm | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

Luminance



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**Measur.**

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| Luminaire Flux  |        | 1066 lm |         | Luminaire Power |         | 11.8 W        |         | Efficacy |         | 90.627 lm/W   |          | Efficiency |          | 64.75%             |        |
|-----------------|--------|---------|---------|-----------------|---------|---------------|---------|----------|---------|---------------|----------|------------|----------|--------------------|--------|
| Source Flux     |        | 1646 lm |         | Maximum value   |         | 416.80 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           | 163916 | 163916  | 163916  | 163916          | 163916  | 163916        | 163916  | 163916   | 163916  | 163916        | 163916   | 163916     | 163916   | 163916             | 163916 |
| G 5.0           | 138941 | 139143  | 139241  | 139211          | 139128  | 139126        | 139177  | 139138   | 139110  | 139110        | 139110   | 139110     | 139138   | 139177             | 139177 |
| G 10.0          | 118693 | 118961  | 119059  | 119079          | 119052  | 119049        | 119049  | 118981   | 118970  | 119049        | 118970   | 118970     | 118981   | 119049             | 119049 |
| G 15.0          | 102199 | 102285  | 102305  | 102279          | 102279  | 102262        | 102199  | 102134   | 102124  | 102172        | 102124   | 102134     | 102199   | 102199             | 102199 |
| G 20.0          | 88937  | 88839   | 88889   | 89010           | 88982   | 88898         | 88839   | 88797    | 88798   | 88839         | 88798    | 88797      | 88839    | 88839              | 88839  |
| G 25.0          | 77706  | 77654   | 77701   | 77775           | 77720   | 77741         | 77820   | 77730    | 77683   | 77775         | 77683    | 77730      | 77820    | 77820              | 77820  |
| G 30.0          | 65348  | 65468   | 65619   | 65689           | 65561   | 65613         | 65817   | 65746    | 65704   | 65689         | 65704    | 65746      | 65817    | 65817              | 65817  |
| G 35.0          | 49716  | 49769   | 49885   | 49960           | 49840   | 49822         | 49939   | 49926    | 49920   | 49960         | 49920    | 49926      | 49939    | 49939              | 49939  |
| G 40.0          | 31416  | 31387   | 31314   | 31221           | 31169   | 31108         | 31046   | 31050    | 31080   | 31105         | 31080    | 31050      | 31046    | 31046              | 31046  |
| G 45.0          | 18417  | 18391   | 18313   | 18229           | 18217   | 18125         | 17984   | 17996    | 18008   | 17984         | 18008    | 17996      | 17984    | 17984              | 17984  |
| G 50.0          | 12777  | 12729   | 12731   | 12758           | 12740   | 12704         | 12666   | 12623    | 12614   | 12648         | 12614    | 12623      | 12666    | 12666              | 12666  |
| G 55.0          | 10186  | 10174   | 10160   | 10150           | 10150   | 10140         | 10113   | 10098    | 10095   | 10095         | 10095    | 10098      | 10113    | 10113              | 10113  |
| G 60.0          | 8559   | 8579    | 8615    | 8649            | 8649    | 8656          | 8667    | 8641     | 8634    | 8667          | 8634     | 8641       | 8667     | 8667               | 8667   |
| G 65.0          | 6725   | 6725    | 6730    | 6743            | 6743    | 6743          | 6743    | 6743     | 6743    | 6743          | 6743     | 6743       | 6743     | 6743               | 6743   |
| G 70.0          | 4948   | 4932    | 4934    | 4948            | 4954    | 4937          | 4912    | 4908     | 4918    | 4930          | 4918     | 4908       | 4912     | 4912               | 4912   |
| G 75.0          | 3372   | 3401    | 3409    | 3409            | 3409    | 3405          | 3391    | 3375     | 3375    | 3391          | 3375     | 3375       | 3391     | 3391               | 3391   |
| G 80.0          | 2044   | 2058    | 2065    | 2063            | 2053    | 2030          | 2006    | 2006     | 2006    | 2006          | 2006     | 2006       | 2006     | 2006               | 2006   |
| G 85.0          | 928    | 945     | 944     | 928             | 915     | 904           | 890     | 865      | 838     | 812           | 838      | 865        | 890      | 890                | 890    |
| G 90.0          | 161    | 149     | 132     | 121             | 121     | 109           | 81      | 81       | 81      | 81            | 81       | 81         | 81       | 81                 | 81     |

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| Luminaire Flux  | 1066 lm  |          | Luminaire Power |          | 11.8 W        |          | Efficacy |          | 90.627 lm/W   |          | Efficiency |          | 64.75%             |  |
|-----------------|----------|----------|-----------------|----------|---------------|----------|----------|----------|---------------|----------|------------|----------|--------------------|--|
| Source Flux     | 1646 lm  |          | Maximum value   |          | 416.80 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           | 163916   | 163916   | 163916          | 163916   | 163916        | 163916   | 163916   | 163916   | 163916        | 163916   | 163916     | 163916   | 163916             |  |
| G 5.0           | 139126   | 139128   | 139211          | 139241   | 139143        | 138941   | 139143   | 139241   | 139211        | 139128   | 139126     | 139177   | 139138             |  |
| G 10.0          | 119049   | 119052   | 119079          | 119059   | 118961        | 118693   | 118961   | 119059   | 119079        | 119052   | 119049     | 119049   | 118981             |  |
| G 15.0          | 102262   | 102279   | 102279          | 102305   | 102285        | 102199   | 102285   | 102305   | 102279        | 102279   | 102262     | 102199   | 102134             |  |
| G 20.0          | 88898    | 88982    | 89010           | 88889    | 88839         | 88937    | 88839    | 88889    | 89010         | 88982    | 88898      | 88839    | 88797              |  |
| G 25.0          | 77741    | 77720    | 77775           | 77701    | 77654         | 77706    | 77654    | 77701    | 77775         | 77720    | 77741      | 77820    | 77730              |  |
| G 30.0          | 65613    | 65561    | 65689           | 65619    | 65468         | 65348    | 65468    | 65619    | 65689         | 65561    | 65613      | 65817    | 65746              |  |
| G 35.0          | 49822    | 49840    | 49960           | 49885    | 49769         | 49716    | 49769    | 49885    | 49960         | 49840    | 49822      | 49939    | 49926              |  |
| G 40.0          | 31108    | 31169    | 31221           | 31314    | 31387         | 31416    | 31387    | 31314    | 31221         | 31169    | 31108      | 31046    | 31050              |  |
| G 45.0          | 18125    | 18217    | 18229           | 18313    | 18391         | 18417    | 18391    | 18313    | 18229         | 18217    | 18125      | 17984    | 17996              |  |
| G 50.0          | 12704    | 12740    | 12758           | 12731    | 12729         | 12777    | 12729    | 12731    | 12758         | 12740    | 12704      | 12666    | 12623              |  |
| G 55.0          | 10140    | 10150    | 10150           | 10160    | 10174         | 10186    | 10174    | 10160    | 10150         | 10150    | 10140      | 10113    | 10098              |  |
| G 60.0          | 8656     | 8649     | 8649            | 8615     | 8579          | 8559     | 8579     | 8615     | 8649          | 8649     | 8656       | 8667     | 8641               |  |
| G 65.0          | 6743     | 6743     | 6743            | 6730     | 6725          | 6725     | 6725     | 6730     | 6743          | 6743     | 6743       | 6743     | 6743               |  |
| G 70.0          | 4937     | 4954     | 4948            | 4934     | 4932          | 4948     | 4932     | 4934     | 4948          | 4954     | 4937       | 4912     | 4908               |  |
| G 75.0          | 3405     | 3409     | 3409            | 3409     | 3401          | 3372     | 3401     | 3409     | 3409          | 3409     | 3405       | 3391     | 3375               |  |
| G 80.0          | 2030     | 2053     | 2063            | 2065     | 2058          | 2044     | 2058     | 2065     | 2063          | 2053     | 2030       | 2006     | 2006               |  |
| G 85.0          | 904      | 915      | 928             | 944      | 945           | 928      | 945      | 944      | 928           | 915      | 904        | 890      | 865                |  |
| G 90.0          | 109      | 121      | 121             | 132      | 149           | 161      | 149      | 132      | 121           | 121      | 109        | 81       | 81                 |  |

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| Source Flux    | 1646 lm | Maximum value   | 416.80 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  | 163916   | 163916   | 163916   | 163916   | 163916   | 163916   | 163916   | 163916   | 163916   | 163916   |
| G 5.0  | 139110   | 139110   | 139110   | 139138   | 139177   | 139126   | 139128   | 139211   | 139241   | 139143   |
| G 10.0 | 118970   | 119049   | 118970   | 118981   | 119049   | 119049   | 119052   | 119079   | 119059   | 118961   |
| G 15.0 | 102124   | 102172   | 102124   | 102134   | 102199   | 102262   | 102279   | 102279   | 102305   | 102285   |
| G 20.0 | 88798    | 88839    | 88798    | 88797    | 88839    | 88898    | 88982    | 89010    | 88889    | 88839    |
| G 25.0 | 77683    | 77775    | 77683    | 77730    | 77820    | 77741    | 77720    | 77775    | 77701    | 77654    |
| G 30.0 | 65704    | 65689    | 65704    | 65746    | 65817    | 65613    | 65561    | 65689    | 65619    | 65468    |
| G 35.0 | 49920    | 49960    | 49920    | 49926    | 49939    | 49822    | 49840    | 49960    | 49885    | 49769    |
| G 40.0 | 31080    | 31105    | 31080    | 31050    | 31046    | 31108    | 31169    | 31221    | 31314    | 31387    |
| G 45.0 | 18008    | 17984    | 18008    | 17996    | 17984    | 18125    | 18217    | 18229    | 18313    | 18391    |
| G 50.0 | 12614    | 12648    | 12614    | 12623    | 12666    | 12704    | 12740    | 12758    | 12731    | 12729    |
| G 55.0 | 10095    | 10095    | 10095    | 10098    | 10113    | 10140    | 10150    | 10150    | 10160    | 10174    |
| G 60.0 | 8634     | 8667     | 8634     | 8641     | 8667     | 8656     | 8649     | 8649     | 8615     | 8579     |
| G 65.0 | 6743     | 6743     | 6743     | 6743     | 6743     | 6743     | 6743     | 6743     | 6730     | 6725     |
| G 70.0 | 4918     | 4930     | 4918     | 4908     | 4912     | 4937     | 4954     | 4948     | 4934     | 4932     |
| G 75.0 | 3375     | 3391     | 3375     | 3375     | 3391     | 3405     | 3409     | 3409     | 3409     | 3401     |
| G 80.0 | 2006     | 2006     | 2006     | 2006     | 2006     | 2030     | 2053     | 2063     | 2065     | 2058     |
| G 85.0 | 838      | 812      | 838      | 865      | 890      | 904      | 915      | 928      | 944      | 945      |
| G 90.0 | 81       | 81       | 81       | 81       | 81       | 109      | 121      | 121      | 132      | 149      |