

**Luminaire**

Code 90551L090

Name TTP 70 COLOUR L0900 TOP 840 LO

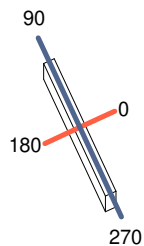
**Measurem.**

Code 3/7/2023

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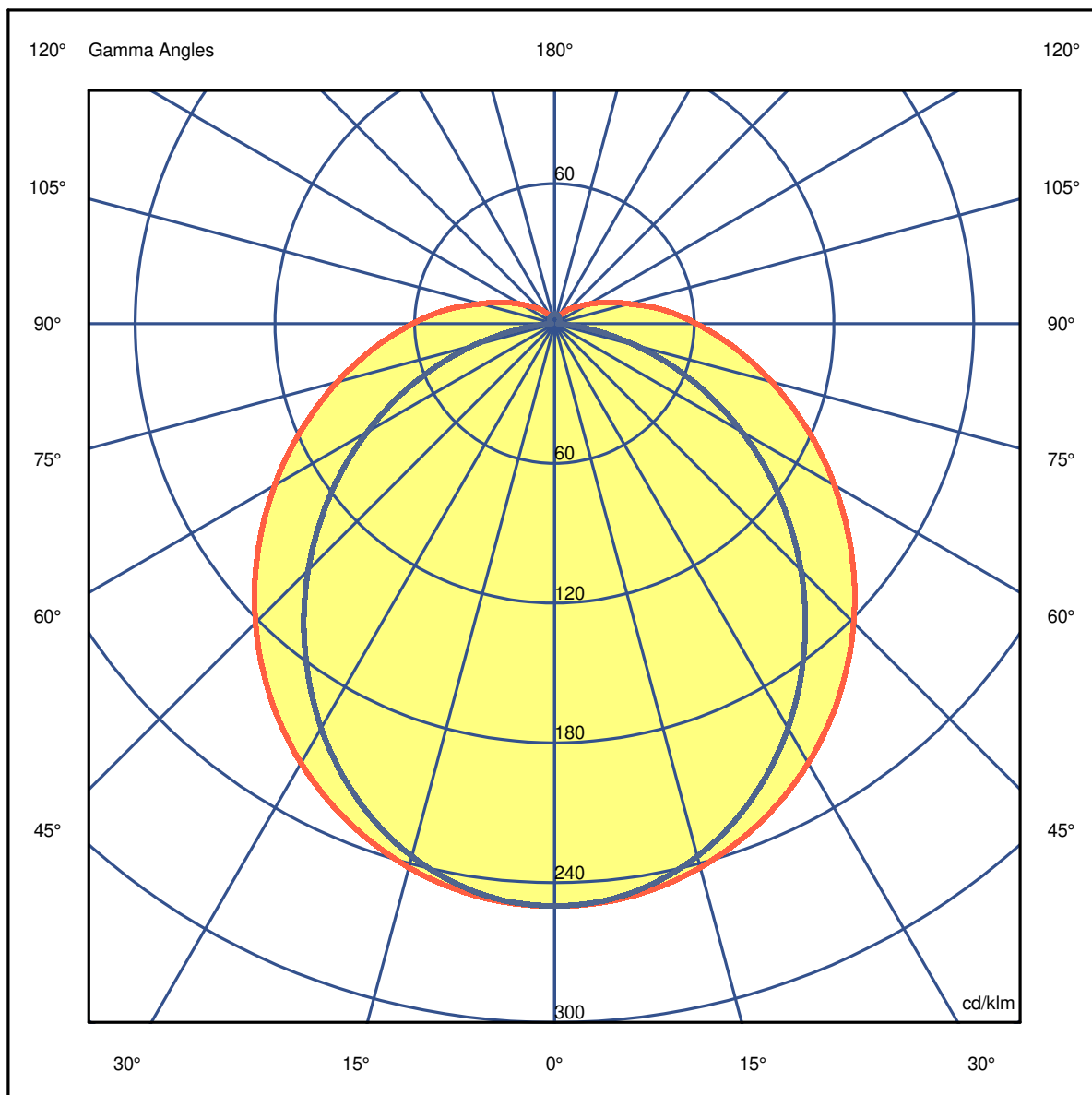
|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 2532 lm | Luminaire Power | 16.5 W        | Efficacy | 153.464 lm/W  | Efficiency | 85.86%             |
| Source Flux    | 2949 lm | Maximum value   | 250.10 cd/klm | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

900mm x 70mm



C Halfplanes

180.0 — 0.0  
270.0 — 90.0



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**Measurem.**

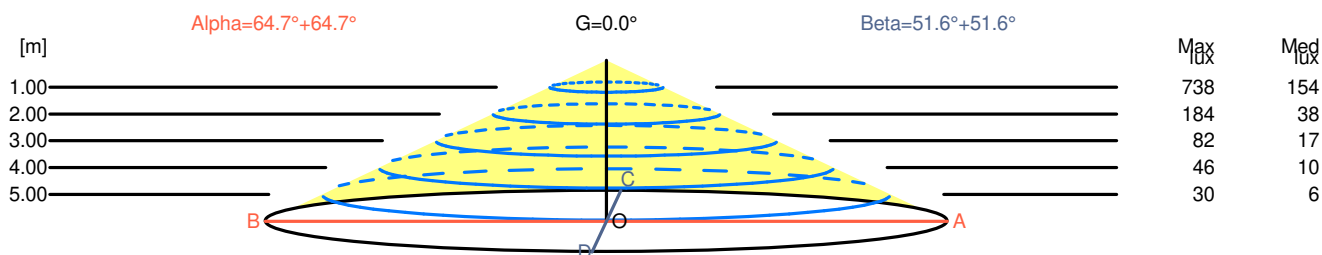
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|                |         |                 |               |          |               |            |                    |
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| Luminaire Flux | 2532 lm | Luminaire Power | 16.5 W        | Efficacy | 153.464 lm/W  | Efficiency | 85.86%             |
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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   | 2.12 | 4.24 | 6.36 | 8.48 | 10.60 | OC   | 1.26 | 2.52 | 3.79 | 5.05 | 6.31 |
| OB   | 2.12 | 4.24 | 6.36 | 8.48 | 10.60 | OD   | 1.26 | 2.52 | 3.79 | 5.05 | 6.31 |

|    | 0      | 5      | 15     | 25     | 35     | 45     | 55     | 65     | 75     | 85     |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| OA | 737.54 | 735.19 | 712.77 | 670.31 | 610.15 | 535.54 | 452.08 | 366.56 | 284.87 | 211.74 |
| OB | 737.54 | 735.19 | 712.77 | 670.31 | 610.15 | 535.54 | 452.08 | 366.56 | 284.87 | 211.74 |
| OC | 737.54 | 733.12 | 698.03 | 632.86 | 544.09 | 441.17 | 330.88 | 217.05 | 105.87 | 17.99  |
| OD | 737.54 | 733.12 | 698.03 | 632.86 | 544.09 | 441.17 | 330.88 | 217.05 | 105.87 | 17.99  |



| H[m] | D[m]  | Max lux | Med lux | Alpha=64.7°+64.7° | G=0.0 |
|------|-------|---------|---------|-------------------|-------|
| 1.00 | 4.24  | 738     | 154     |                   |       |
| 2.00 | 8.48  | 184     | 38      |                   |       |
| 3.00 | 12.72 | 82      | 17      |                   |       |
| 4.00 | 16.96 | 46      | 10      |                   |       |
| 5.00 | 21.20 | 30      | 6       |                   |       |

| H[m] | D[m]  | Max lux | Med lux | Beta=51.6°+51.6° | G=0.0 |
|------|-------|---------|---------|------------------|-------|
| 1.00 | 2.52  | 738     | 154     |                  |       |
| 2.00 | 5.05  | 184     | 38      |                  |       |
| 3.00 | 7.57  | 82      | 17      |                  |       |
| 4.00 | 10.10 | 46      | 10      |                  |       |
| 5.00 | 12.62 | 30      | 6       |                  |       |

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|                |         |                 |               |          |               |            |                    |
|----------------|---------|-----------------|---------------|----------|---------------|------------|--------------------|
| Luminaire Flux | 2532 lm | Luminaire Power | 16.5 W        | Efficacy | 153.464 lm/W  | Efficiency | 85.86%             |
| Source Flux    | 2949 lm | Maximum value   | 250.10 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       | 18.0         | 19.3 | 18.5 | 19.7 | 20.1 | 17.9           | 19.1 | 18.3 | 19.5 | 20.0 |
| x=2H y=3H       | 19.8         | 20.9 | 20.2 | 21.4 | 21.8 | 19.2           | 20.3 | 19.6 | 20.8 | 21.2 |
| x=2H y=4H       | 20.6         | 21.7 | 21.0 | 22.1 | 22.6 | 19.6           | 20.7 | 20.1 | 21.2 | 21.6 |
| x=2H y=6H       | 21.4         | 22.4 | 21.8 | 22.8 | 23.3 | 19.9           | 20.9 | 20.4 | 21.4 | 21.9 |
| x=2H y=8H       | 21.7         | 22.7 | 22.2 | 23.2 | 23.7 | 19.9           | 20.9 | 20.4 | 21.4 | 21.9 |
| x=2H y=12H      | 22.0         | 23.0 | 22.5 | 23.5 | 24.0 | 20.0           | 20.9 | 20.5 | 21.4 | 21.9 |
| x=4H y=2H       | 18.6         | 19.7 | 19.0 | 20.1 | 20.6 | 18.4           | 19.5 | 18.9 | 20.0 | 20.4 |
| x=4H y=3H       | 20.5         | 21.5 | 21.0 | 21.9 | 22.5 | 19.9           | 20.8 | 20.4 | 21.3 | 21.8 |
| x=4H y=4H       | 21.5         | 22.3 | 22.0 | 22.9 | 23.4 | 20.5           | 21.3 | 21.0 | 21.8 | 22.4 |
| x=4H y=6H       | 22.4         | 23.2 | 23.0 | 23.7 | 24.3 | 20.9           | 21.6 | 21.4 | 22.1 | 22.7 |
| x=4H y=8H       | 22.9         | 23.6 | 23.5 | 24.1 | 24.7 | 21.0           | 21.7 | 21.5 | 22.2 | 22.8 |
| x=4H y=12H      | 23.3         | 24.0 | 23.9 | 24.5 | 25.1 | 21.0           | 21.6 | 21.6 | 22.2 | 22.8 |
| x=8H y=4H       | 21.8         | 22.5 | 22.3 | 23.0 | 23.6 | 20.9           | 21.5 | 21.4 | 22.1 | 22.7 |
| x=8H y=6H       | 22.9         | 23.5 | 23.5 | 24.1 | 24.7 | 21.4           | 22.0 | 22.0 | 22.6 | 23.2 |
| x=8H y=8H       | 23.5         | 24.0 | 24.1 | 24.6 | 25.3 | 21.6           | 22.1 | 22.2 | 22.7 | 23.4 |
| x=8H y=12H      | 24.1         | 24.5 | 24.7 | 25.2 | 25.8 | 21.7           | 22.2 | 22.3 | 22.8 | 23.5 |
| x=12H y=4H      | 21.8         | 22.4 | 22.4 | 23.0 | 23.6 | 20.9           | 21.6 | 21.5 | 22.1 | 22.7 |
| x=12H y=6H      | 23.0         | 23.5 | 23.6 | 24.1 | 24.8 | 21.6           | 22.1 | 22.2 | 22.7 | 23.3 |
| x=12H y=8H      | 23.6         | 24.1 | 24.2 | 24.7 | 25.4 | 21.8           | 22.3 | 22.5 | 22.9 | 23.6 |

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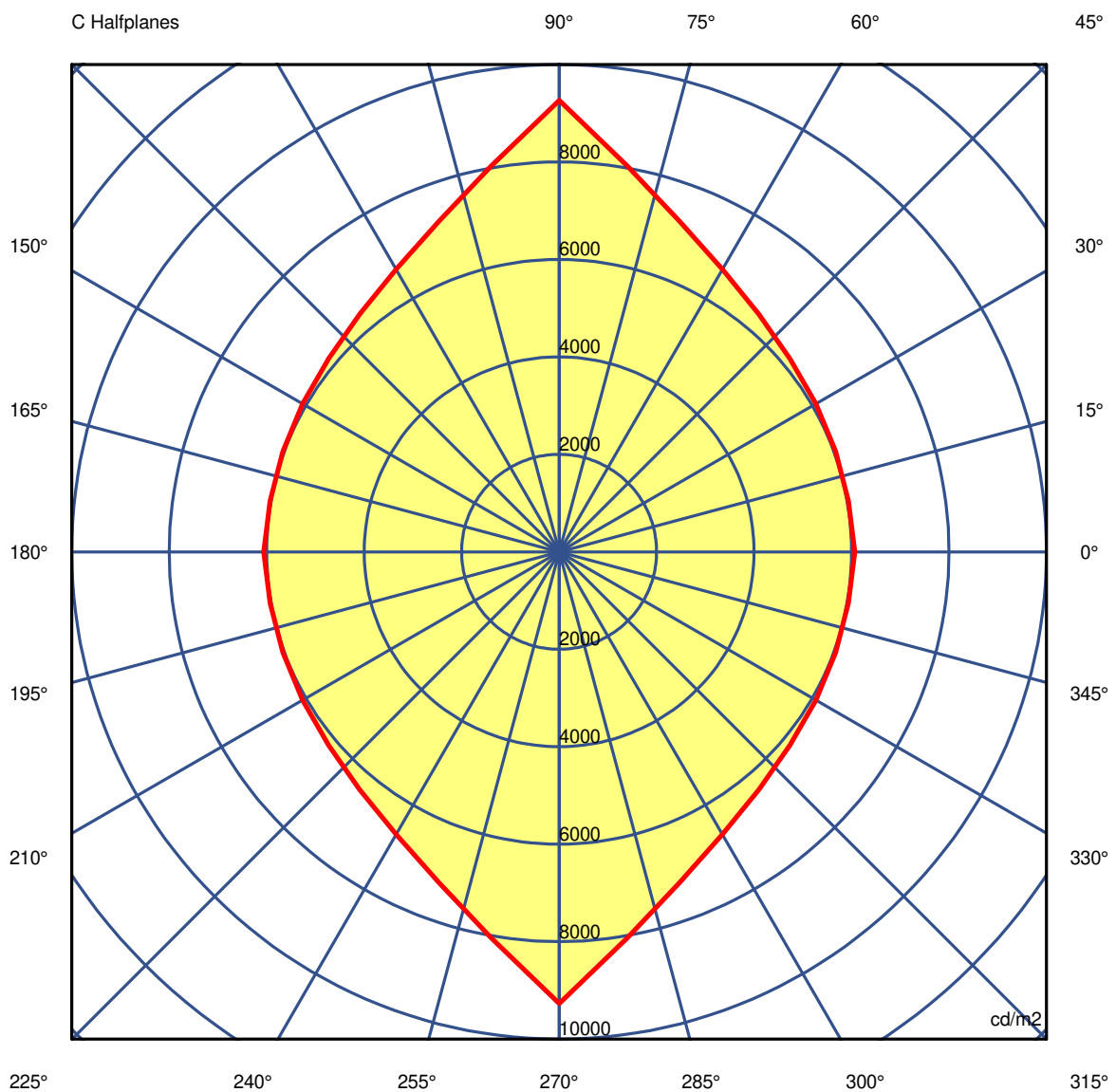
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|----------------|---------|-----------------|---------------|----------|---------------|-----------------------|--------|
| Luminaire Flux | 2532 lm | Luminaire Power | 16.5 W        | Efficacy | 153.464 lm/W  | Efficiency            | 85.86% |
| Source Flux    | 2949 lm | Maximum value   | 250.10 cd/klm | Position | C=0.00 G=0.00 | CG Double Symmetrical |        |

Luminance



45.0°

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| Luminaire Flux            | 2532 lm |         | Luminaire Power |         | 16.5 W        |         | Efficacy |         | 153.464 lm/W  |         | Efficiency |          | 85.86%             |  |
|---------------------------|---------|---------|-----------------|---------|---------------|---------|----------|---------|---------------|---------|------------|----------|--------------------|--|
| Source Flux               | 2949 lm |         | Maximum value   |         | 250.10 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                     | 11812   | 11812   | 11812           | 11812   | 11812         | 11812   | 11812    | 11812   | 11812         | 11812   | 11812      | 11812    | 11812              |  |
| G 5.0                     | 10868   | 10856   | 10880           | 10934   | 11011         | 11109   | 11228    | 11372   | 11533         | 11706   | 11533      | 11372    | 11228              |  |
| G 10.0                    | 10046   | 10033   | 10071           | 10157   | 10287         | 10453   | 10658    | 10911   | 11208         | 11542   | 11208      | 10911    | 10658              |  |
| G 15.0                    | 9321    | 9312    | 9359            | 9460    | 9614          | 9824    | 10096    | 10437   | 10851         | 11335   | 10851      | 10437    | 10096              |  |
| G 20.0                    | 8667    | 8659    | 8706            | 8808    | 8978          | 9215    | 9530     | 9942    | 10462         | 11087   | 10462      | 9942     | 9530               |  |
| G 25.0                    | 8078    | 8059    | 8104            | 8208    | 8376          | 8621    | 8961     | 9422    | 10028         | 10788   | 10028      | 9422     | 8961               |  |
| G 30.0                    | 7530    | 7504    | 7542            | 7636    | 7798          | 8045    | 8399     | 8892    | 9571          | 10460   | 9571       | 8892     | 8399               |  |
| G 35.0                    | 7016    | 6984    | 7011            | 7089    | 7238          | 7475    | 7829     | 8347    | 9084          | 10084   | 9084       | 8347     | 7829               |  |
| G 40.0                    | 6527    | 6493    | 6511            | 6573    | 6705          | 6922    | 7261     | 7788    | 8578          | 9695    | 8578       | 7788     | 7261               |  |
| G 45.0                    | 6065    | 6025    | 6034            | 6079    | 6179          | 6370    | 6696     | 7221    | 8043          | 9265    | 8043       | 7221     | 6696               |  |
| G 50.0                    | 5625    | 5578    | 5574            | 5599    | 5676          | 5836    | 6126     | 6627    | 7473          | 8809    | 7473       | 6627     | 6126               |  |
| G 55.0                    | 5199    | 5153    | 5140            | 5143    | 5189          | 5313    | 5565     | 6029    | 6876          | 8308    | 6876       | 6029     | 5565               |  |
| G 60.0                    | 4799    | 4746    | 4719            | 4701    | 4722          | 4802    | 4990     | 5398    | 6220          | 7717    | 6220       | 5398     | 4990               |  |
| G 65.0                    | 4418    | 4360    | 4328            | 4293    | 4276          | 4306    | 4429     | 4739    | 5488          | 7040    | 5488       | 4739     | 4429               |  |
| G 70.0                    | 4053    | 3997    | 3957            | 3904    | 3860          | 3839    | 3872     | 4049    | 4666          | 6191    | 4666       | 4049     | 3872               |  |
| G 75.0                    | 3725    | 3666    | 3618            | 3547    | 3468          | 3396    | 3340     | 3344    | 3734          | 5067    | 3734       | 3344     | 3340               |  |
| G 80.0                    | 3412    | 3356    | 3302            | 3215    | 3109          | 2985    | 2829     | 2645    | 2723          | 3595    | 2723       | 2645     | 2829               |  |
| G 85.0                    | 3130    | 3064    | 3004            | 2908    | 2779          | 2607    | 2365     | 2020    | 1746          | 1743    | 1746       | 2020     | 2365               |  |
| G 90.0                    | 2876    | 2814    | 2749            | 2640    | 2494          | 2295    | 1996     | 1532    | 1093          | 782     | 1093       | 1532     | 1996               |  |

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|--------------------------------|----------|----------|-----------------|----------|---------------|----------|----------|----------|---------------|----------|------------|----------|--------------------|--|
| Luminaire Flux                 | 2532 lm  |          | Luminaire Power |          | 16.5 W        |          | Efficacy |          | 153.464 lm/W  |          | Efficiency |          | 85.86%             |  |
| Source Flux                    | 2949 lm  |          | Maximum value   |          | 250.10 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                          | 11812    | 11812    | 11812           | 11812    | 11812         | 11812    | 11812    | 11812    | 11812         | 11812    | 11812      | 11812    | 11812              |  |
| G 5.0                          | 11109    | 11011    | 10934           | 10880    | 10856         | 10868    | 10856    | 10880    | 10934         | 11011    | 11109      | 11228    | 11372              |  |
| G 10.0                         | 10453    | 10287    | 10157           | 10071    | 10033         | 10046    | 10033    | 10071    | 10157         | 10287    | 10453      | 10658    | 10911              |  |
| G 15.0                         | 9824     | 9614     | 9460            | 9359     | 9312          | 9321     | 9312     | 9359     | 9460          | 9614     | 9824       | 10096    | 10437              |  |
| G 20.0                         | 9215     | 8978     | 8808            | 8706     | 8659          | 8667     | 8659     | 8706     | 8808          | 8978     | 9215       | 9530     | 9942               |  |
| G 25.0                         | 8621     | 8376     | 8208            | 8104     | 8059          | 8078     | 8059     | 8104     | 8208          | 8376     | 8621       | 8961     | 9422               |  |
| G 30.0                         | 8045     | 7798     | 7636            | 7542     | 7504          | 7530     | 7504     | 7542     | 7636          | 7798     | 8045       | 8399     | 8892               |  |
| G 35.0                         | 7475     | 7238     | 7089            | 7011     | 6984          | 7016     | 6984     | 7011     | 7089          | 7238     | 7475       | 7829     | 8347               |  |
| G 40.0                         | 6922     | 6705     | 6573            | 6511     | 6493          | 6527     | 6493     | 6511     | 6573          | 6705     | 6922       | 7261     | 7788               |  |
| G 45.0                         | 6370     | 6179     | 6079            | 6034     | 6025          | 6065     | 6025     | 6034     | 6079          | 6179     | 6370       | 6696     | 7221               |  |
| G 50.0                         | 5836     | 5676     | 5599            | 5574     | 5578          | 5625     | 5578     | 5574     | 5599          | 5676     | 5836       | 6126     | 6627               |  |
| G 55.0                         | 5313     | 5189     | 5143            | 5140     | 5153          | 5199     | 5153     | 5140     | 5189          | 5313     | 5565       | 6029     | 6627               |  |
| G 60.0                         | 4802     | 4722     | 4701            | 4719     | 4746          | 4799     | 4746     | 4719     | 4701          | 4722     | 4802       | 4990     | 5398               |  |
| G 65.0                         | 4306     | 4276     | 4293            | 4328     | 4360          | 4418     | 4360     | 4328     | 4293          | 4276     | 4306       | 4429     | 4739               |  |
| G 70.0                         | 3839     | 3860     | 3904            | 3957     | 3997          | 4053     | 3997     | 3957     | 3904          | 3860     | 3839       | 3872     | 4049               |  |
| G 75.0                         | 3396     | 3468     | 3547            | 3618     | 3666          | 3725     | 3666     | 3618     | 3547          | 3468     | 3396       | 3340     | 3344               |  |
| G 80.0                         | 2985     | 3109     | 3215            | 3302     | 3356          | 3412     | 3356     | 3302     | 3215          | 3109     | 2985       | 2829     | 2645               |  |
| G 85.0                         | 2607     | 2779     | 2908            | 3004     | 3064          | 3130     | 3064     | 3004     | 2908          | 2779     | 2607       | 2365     | 2020               |  |
| G 90.0                         | 2295     | 2494     | 2640            | 2749     | 2814          | 2876     | 2814     | 2749     | 2640          | 2494     | 2295       | 1996     | 1532               |  |

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|----------------|---------|-----------------|--------|----------|--------------|------------|--------|

|             |         |               |               |          |               |    |                    |
|-------------|---------|---------------|---------------|----------|---------------|----|--------------------|
| Source Flux | 2949 lm | Maximum value | 250.10 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  | 11812    | 11812    | 11812    | 11812    | 11812    | 11812    | 11812    | 11812    | 11812    | 11812    |
| G 5.0  | 11533    | 11706    | 11533    | 11372    | 11228    | 11109    | 11011    | 10934    | 10880    | 10856    |
| G 10.0 | 11208    | 11542    | 11208    | 10911    | 10658    | 10453    | 10287    | 10157    | 10071    | 10033    |
| G 15.0 | 10851    | 11335    | 10851    | 10437    | 10096    | 9824     | 9614     | 9460     | 9359     | 9312     |
| G 20.0 | 10462    | 11087    | 10462    | 9942     | 9530     | 9215     | 8978     | 8808     | 8706     | 8659     |
| G 25.0 | 10028    | 10788    | 10028    | 9422     | 8961     | 8621     | 8376     | 8208     | 8104     | 8059     |
| G 30.0 | 9571     | 10460    | 9571     | 8892     | 8399     | 8045     | 7798     | 7636     | 7542     | 7504     |
| G 35.0 | 9084     | 10084    | 9084     | 8347     | 7829     | 7475     | 7238     | 7089     | 7011     | 6984     |
| G 40.0 | 8578     | 9695     | 8578     | 7788     | 7261     | 6922     | 6705     | 6573     | 6511     | 6493     |
| G 45.0 | 8043     | 9265     | 8043     | 7221     | 6696     | 6370     | 6179     | 6079     | 6034     | 6025     |
| G 50.0 | 7473     | 8809     | 7473     | 6627     | 6126     | 5836     | 5676     | 5599     | 5574     | 5578     |
| G 55.0 | 6876     | 8308     | 6876     | 6029     | 5565     | 5313     | 5189     | 5143     | 5140     | 5153     |
| G 60.0 | 6220     | 7717     | 6220     | 5398     | 4990     | 4802     | 4722     | 4701     | 4719     | 4746     |
| G 65.0 | 5488     | 7040     | 5488     | 4739     | 4429     | 4306     | 4276     | 4293     | 4328     | 4360     |
| G 70.0 | 4666     | 6191     | 4666     | 4049     | 3872     | 3839     | 3860     | 3904     | 3957     | 3997     |
| G 75.0 | 3734     | 5067     | 3734     | 3344     | 3340     | 3396     | 3468     | 3547     | 3618     | 3666     |
| G 80.0 | 2723     | 3595     | 2723     | 2645     | 2829     | 2985     | 3109     | 3215     | 3302     | 3356     |
| G 85.0 | 1746     | 1743     | 1746     | 2020     | 2365     | 2607     | 2779     | 2908     | 3004     | 3064     |
| G 90.0 | 1093     | 782      | 1093     | 1532     | 1996     | 2295     | 2494     | 2640     | 2749     | 2814     |