

**Luminaire**

Code 05-9640  
 Name Aplique HELIO 1x50W GU10

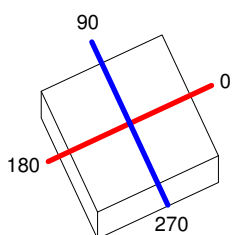
**Measurerm.**

Code 05-9640  
 Name Aplique HELIO 1x50W GU10

|   |   |   |   |          |               |            |                    |
|---|---|---|---|----------|---------------|------------|--------------------|
| Luminaire Flux  | 160.28 lm                                 | Luminaire Power   | 100.00 W                                  | Efficacy | 1.60 lm/W     | Efficiency | 43.32%             |
| Lamps Flux  | 370.00 lm                                 | Maximum value   | 510.91 cd                                 | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |
| Rectangular Luminaire<br>Rectangular Luminous Area                                  | Length 180 mm<br>Length 44 mm             | Width 180 mm<br>Width 63 mm   | Height 180 mm<br>Height 0 mm              |          |               |            |                    |
| Horizontal Luminous Area<br>Emitting area on Plane 0°<br>Emitting area on Plane 90° | 0.002772 m2<br>0.000000 m2<br>0.000000 m2 | Emitting area on Plane 180°<br>Emitting area on Plane 270°<br>Glare area at 76° | 0.000000 m2<br>0.000000 m2<br>0.000671 m2 |          |               |            |                    |
| Coordinate system<br>Date<br>Measurement Distance                                   | CG<br>09-09-2015<br>0.00                  | Symmetry Type<br>Maximum Gamma Angle<br>Measurement Flux                        | Double Symmetrical<br>90<br>740.00 lm     |          |               |            |                    |
| Operator<br>Temperature<br>Humidity<br>Notes  | Asselum T3<br>25.00 °C<br>60.00 %         | Source voltage<br>Source current<br>Photocell                                   |   |          |               |            |                    |

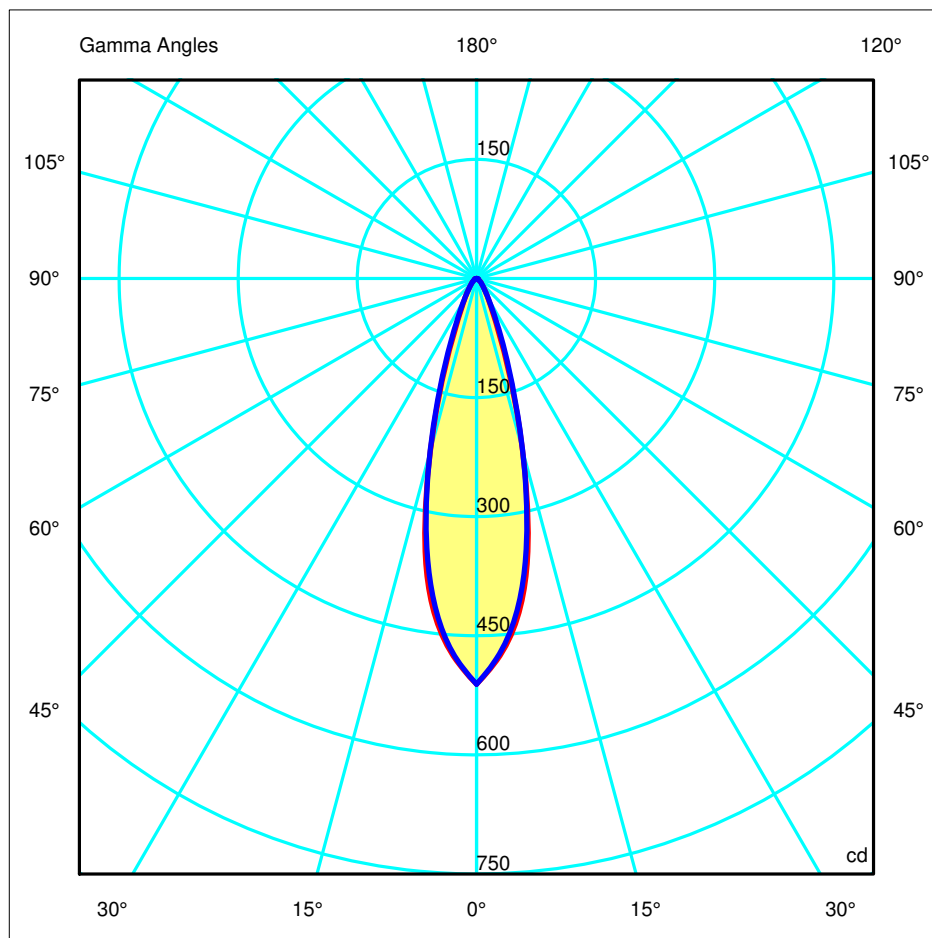
| Line            | Code                      | Luminaire Lamps<br>Name | Flux [lm]   | Pow. [W] | Q.ty |
|-----------------|---------------------------|-------------------------|-------------|----------|------|
|                 | 64826FL                   | 64826FL - 50.00 W       | 370.00      | 50.00    | 1    |
| C.I.E.<br>F UTE | 91 97 99 100 43<br>0.43 A | D DIN 5040<br>B NBN     | A60<br>BZ 1 |          |      |

180mm x 180mm



C Halfplanes  
 180.0 — 0.0  
 270.0 — 90.0

ULOR 0.00 %  
 DLOR 43.32 %  
 RN 0.00 %



**Luminaire**

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**Measur.**

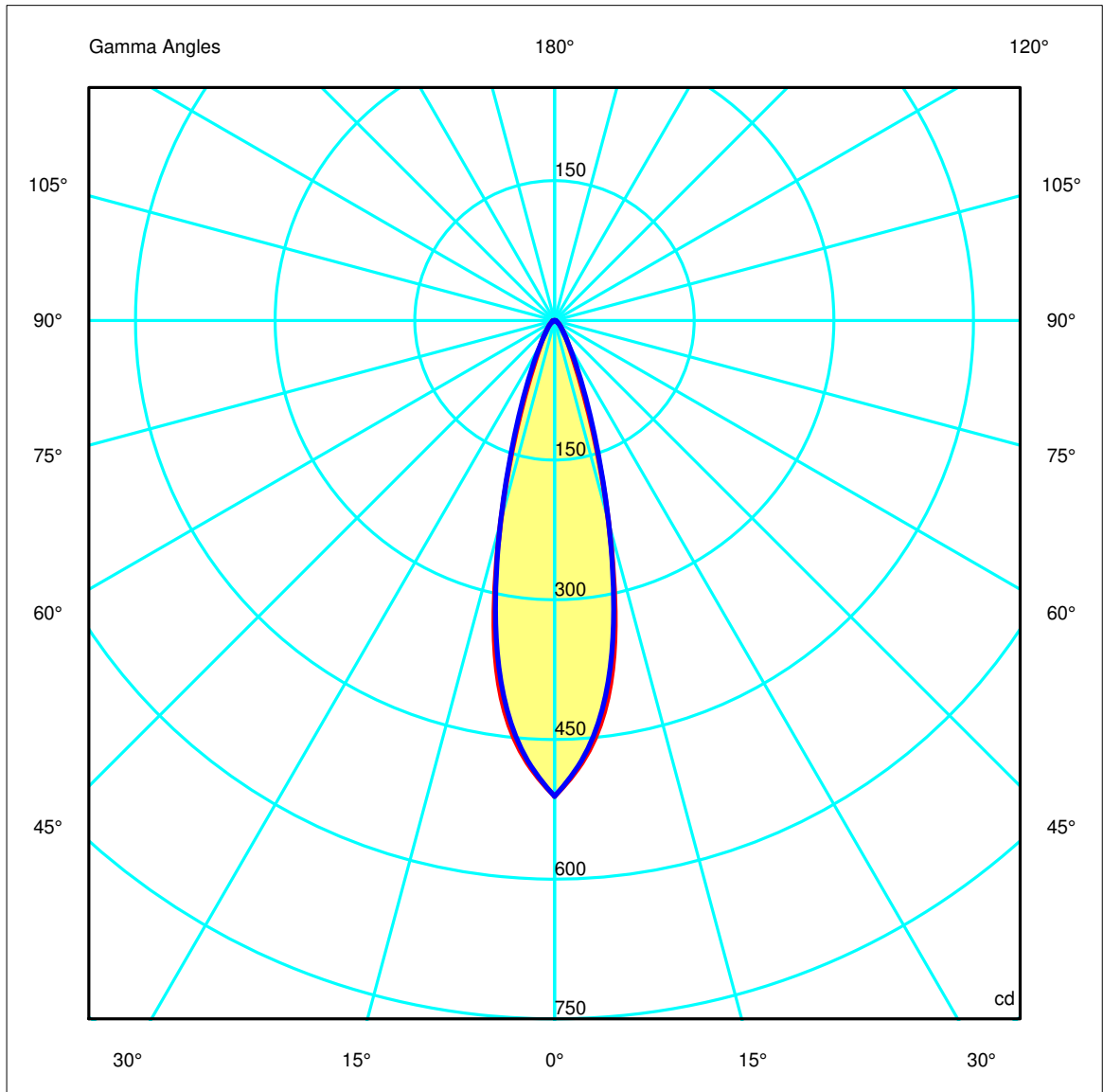
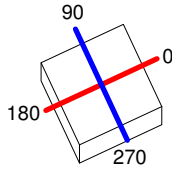
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| Luminaire Flux | 160.28 lm | Luminaire Power | 100.00 W  | Efficacy | 1.60 lm/W     | Efficiency | 43.32%             |
| Lamps Flux     | 370.00 lm | Maximum value   | 510.91 cd | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

180mm x 180mm

C Halfplanes

180.0 ——— 0.0  
 270.0 ——— 90.0



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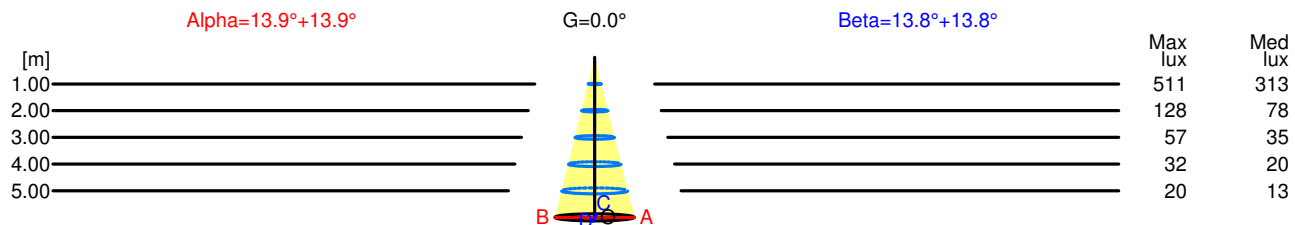
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## Width at 50.00 % of Max Intensity

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 0.25 | 0.50 | 0.74 | 0.99 | 1.24 | OC   | 0.25 | 0.49 | 0.74 | 0.98 | 1.23 |
| OB   | 0.25 | 0.50 | 0.74 | 0.99 | 1.24 | OD   | 0.25 | 0.49 | 0.74 | 0.98 | 1.23 |

|    | Luminous Intensities [ cd ] |        |        |       |       |      |      |      |      |      |
|----|-----------------------------|--------|--------|-------|-------|------|------|------|------|------|
|    | 0                           | 5      | 15     | 25    | 35    | 45   | 55   | 65   | 75   | 85   |
| OA | 510.91                      | 458.24 | 223.92 | 50.37 | 19.27 | 8.89 | 3.98 | 2.62 | 1.61 | 0.78 |
| OB | 510.91                      | 458.24 | 223.92 | 50.37 | 19.27 | 8.89 | 3.98 | 2.62 | 1.61 | 0.78 |
| OC | 510.91                      | 453.48 | 224.45 | 59.94 | 18.80 | 8.99 | 4.57 | 2.49 | 1.51 | 0.75 |
| OD | 510.91                      | 453.48 | 224.45 | 59.94 | 18.80 | 8.99 | 4.57 | 2.49 | 1.51 | 0.75 |



| H[m] | D[m] | Max lux | Med lux | Alpha=13.9°+13.9° | G=0.0 |  |
|------|------|---------|---------|-------------------|-------|--|
| 1.00 | 0.50 | 511     | 313     |                   |       |  |
| 2.00 | 0.99 | 128     | 78      |                   |       |  |
| 3.00 | 1.49 | 57      | 35      |                   |       |  |
| 4.00 | 1.98 | 32      | 20      |                   |       |  |
| 5.00 | 2.48 | 20      | 13      |                   |       |  |

| H[m] | D[m] | Max lux | Med lux | Beta=13.8°+13.8° | G=0.0 |  |
|------|------|---------|---------|------------------|-------|--|
| 1.00 | 0.49 | 511     | 313     |                  |       |  |
| 2.00 | 0.98 | 128     | 78      |                  |       |  |
| 3.00 | 1.48 | 57      | 35      |                  |       |  |
| 4.00 | 1.97 | 32      | 20      |                  |       |  |
| 5.00 | 2.46 | 20      | 13      |                  |       |  |

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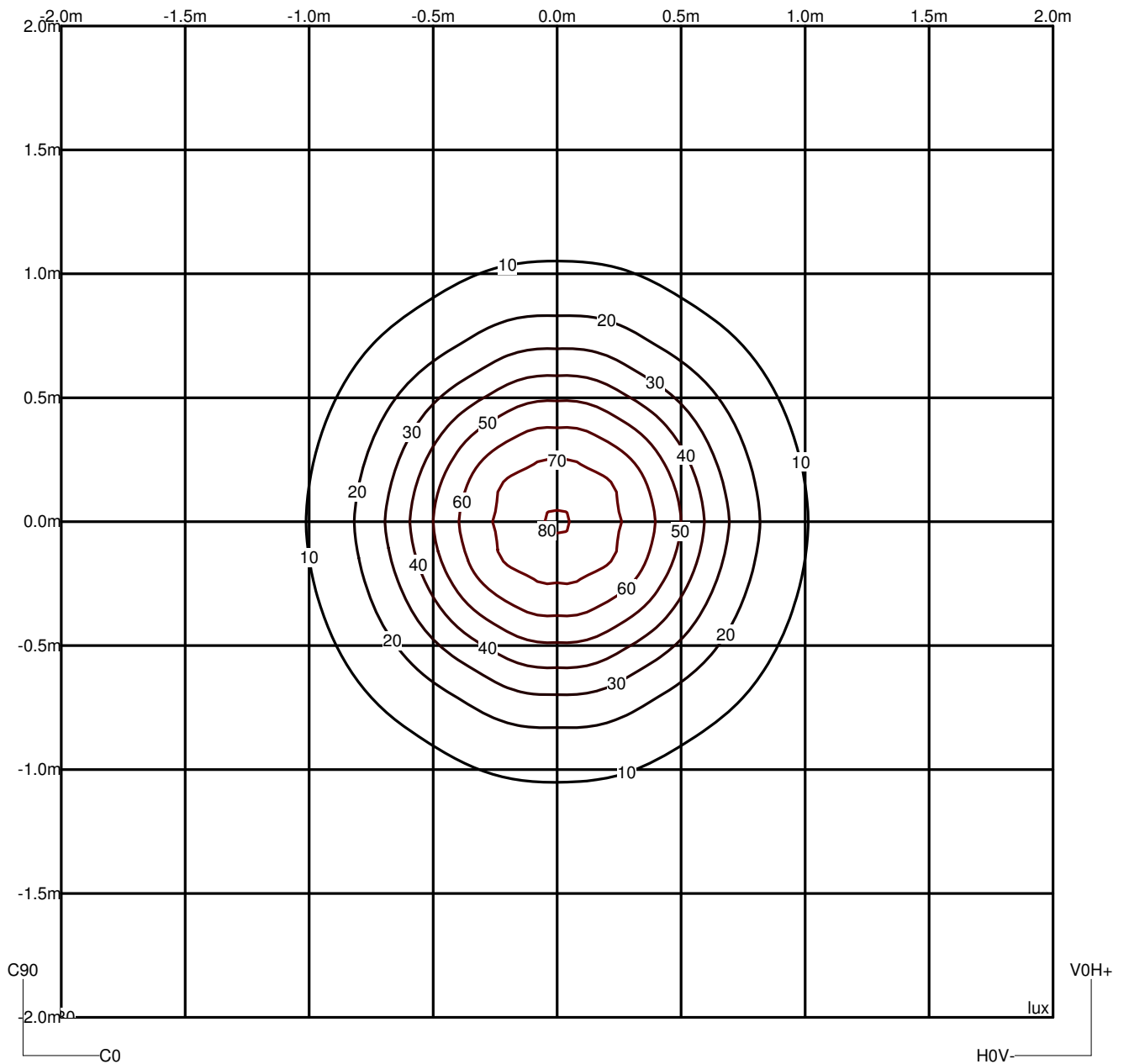
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Isolux (Floor)

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



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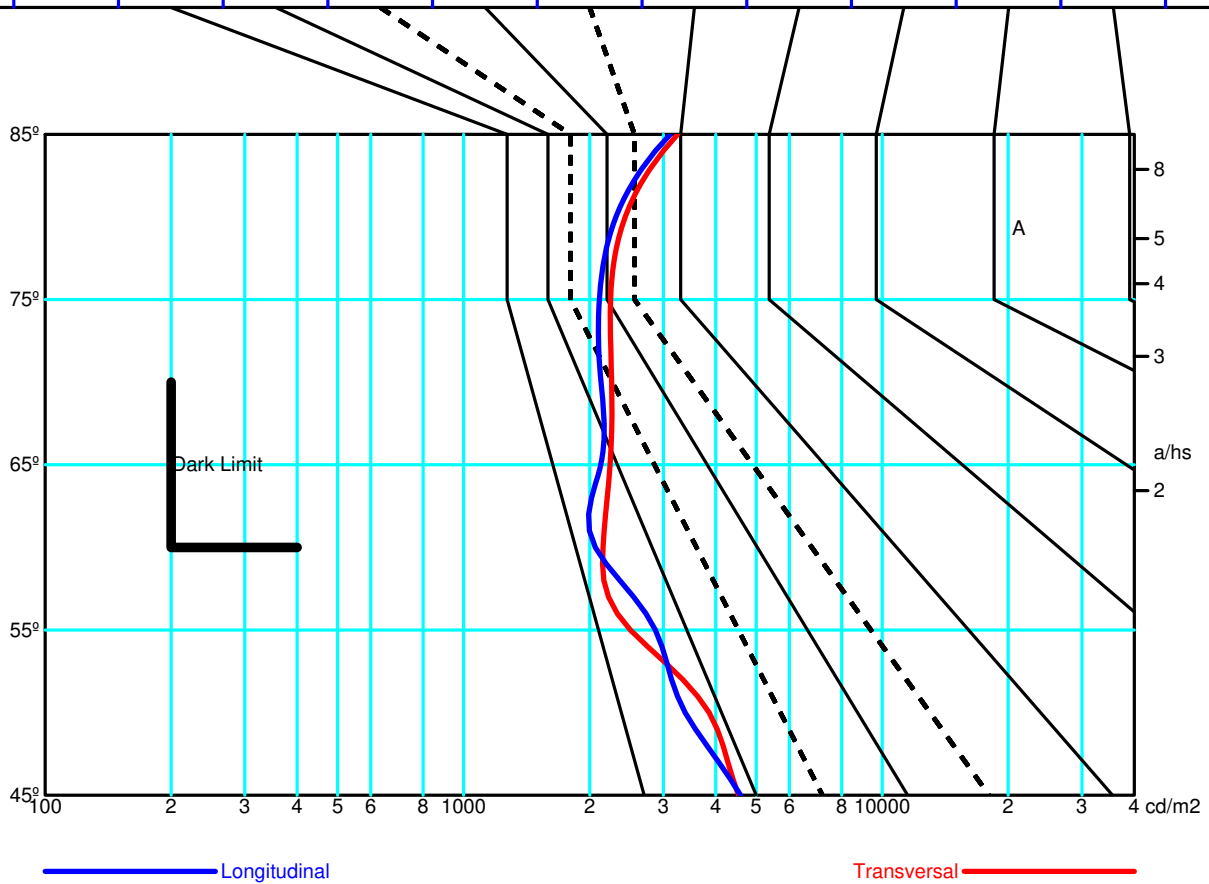
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|       |      | Average Luminance [cd/m <sup>2</sup> ] |      |      |      |      |      |      |      |     |  |
|-------|------|--|------|------|------|------|------|------|------|-----|--|
|       |      | 45°                                    | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85° |  |
| 0.0°  | 4534 | 3858                                   | 2503 | 2152 | 2239 | 2257 | 2244 | 2431 | 3244 | --- |  |
| 90.0° | 4585 | 3383                                   | 2871 | 2063 | 2125 | 2128 | 2109 | 2311 | 3117 | --- |  |

| Flush mounted or longitudinal view |   |                  |      |      |      |     |      |      |      |      |      |      |
|------------------------------------|---|------------------|------|------|------|-----|------|------|------|------|------|------|
|                                    |   | Illumination(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 |



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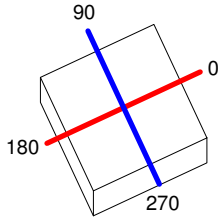
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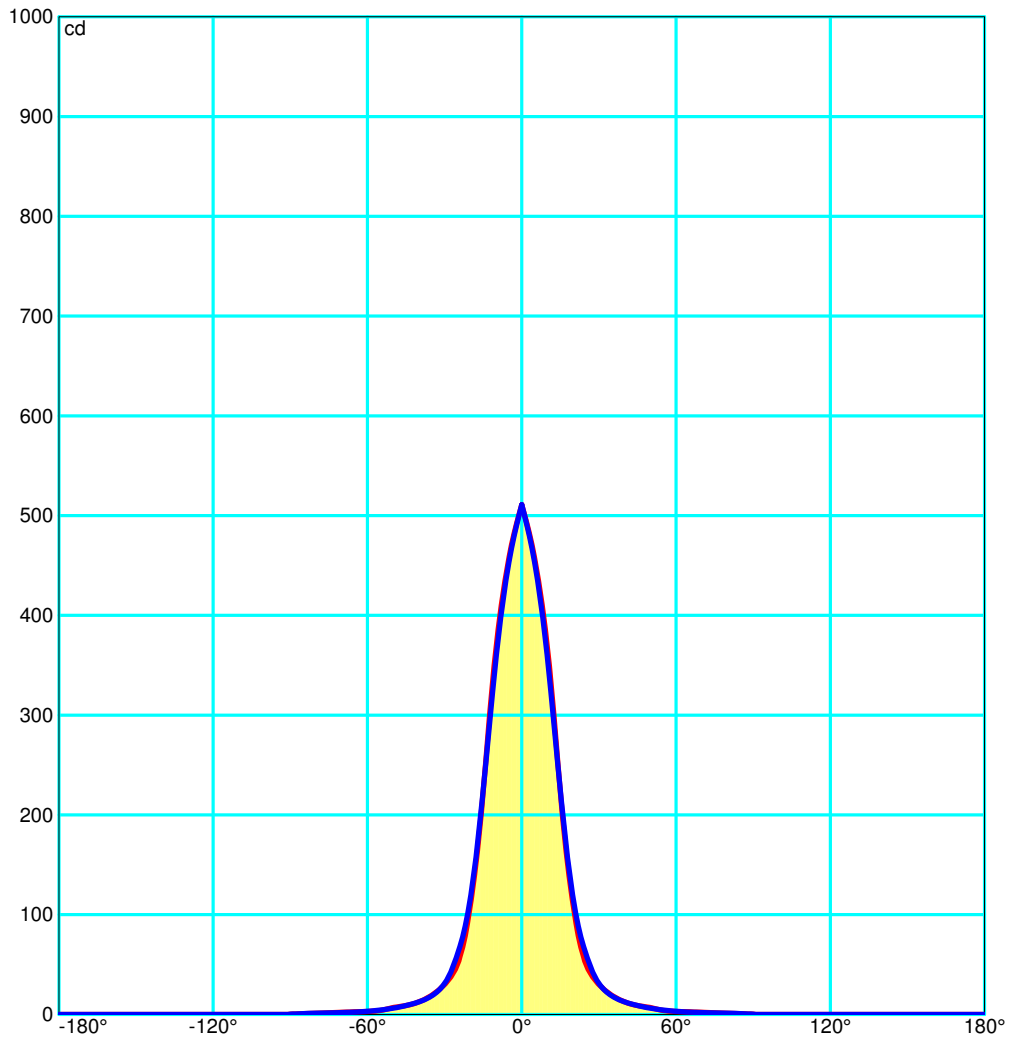
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180mm x 180mm



C Halfplanes

180.0 ————— 0.0  
 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 | ViewedCrosswise |      |      |      |      | ViewedEndwise |      |      |      |      |
| x=2H y=2H      | 11.1            | 11.8 | 11.3 | 12.0 | 12.3 | 11.1          | 11.9 | 11.4 | 12.0 | 12.3 |
| x=2H y=3H      | 12.0            | 12.7 | 12.3 | 13.0 | 13.2 | 12.0          | 12.7 | 12.3 | 12.9 | 13.2 |
| x=2H y=4H      | 12.5            | 13.2 | 12.8 | 13.4 | 13.6 | 12.4          | 13.1 | 12.8 | 13.4 | 13.6 |
| x=2H y=6H      | 13.1            | 13.6 | 13.4 | 13.9 | 14.1 | 12.9          | 13.5 | 13.3 | 13.8 | 14.1 |
| x=2H y=8H      | 13.3            | 13.9 | 13.6 | 14.1 | 14.3 | 13.2          | 13.7 | 13.5 | 14.0 | 14.3 |
| x=2H y=12H     | 13.6            | 14.1 | 13.9 | 14.4 | 14.6 | 13.4          | 14.0 | 13.8 | 14.3 | 14.6 |
| x=4H y=2H      | 11.5            | 12.1 | 11.8 | 12.4 | 12.6 | 11.5          | 12.1 | 11.8 | 12.4 | 12.6 |
| x=4H y=3H      | 12.7            | 13.2 | 13.0 | 13.6 | 13.8 | 12.6          | 13.2 | 13.0 | 13.5 | 13.8 |
| x=4H y=4H      | 13.4            | 13.8 | 13.8 | 14.2 | 14.4 | 13.3          | 13.7 | 13.7 | 14.1 | 14.4 |
| x=4H y=6H      | 14.0            | 14.4 | 14.5 | 14.8 | 15.1 | 13.9          | 14.3 | 14.3 | 14.7 | 15.1 |
| x=4H y=8H      | 14.4            | 14.8 | 14.8 | 15.1 | 15.4 | 14.3          | 14.6 | 14.7 | 15.0 | 15.4 |
| x=4H y=12H     | 14.8            | 15.1 | 15.2 | 15.5 | 15.8 | 14.6          | 14.9 | 15.1 | 15.3 | 15.8 |
| x=8H y=4H      | 13.7            | 14.1 | 14.1 | 14.4 | 14.7 | 13.6          | 14.0 | 14.0 | 14.3 | 14.7 |
| x=8H y=6H      | 14.5            | 14.8 | 15.0 | 15.2 | 15.6 | 14.4          | 14.7 | 14.9 | 15.1 | 15.6 |
| x=8H y=8H      | 15.0            | 15.3 | 15.5 | 15.7 | 16.0 | 14.9          | 15.1 | 15.4 | 15.5 | 16.0 |
| x=8H y=12H     | 15.6            | 15.7 | 16.0 | 16.2 | 16.6 | 15.4          | 15.6 | 15.9 | 16.1 | 16.6 |
| x=12H y=4H     | 13.7            | 14.0 | 14.1 | 14.4 | 14.8 | 13.7          | 13.9 | 14.1 | 14.4 | 14.8 |
| x=12H y=6H     | 14.6            | 14.9 | 15.1 | 15.3 | 15.7 | 14.5          | 14.8 | 15.0 | 15.2 | 15.7 |
| x=12H y=8H     | 15.2            | 15.4 | 15.7 | 15.9 | 16.2 | 15.1          | 15.3 | 15.6 | 15.7 | 16.2 |

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Total Flux=370.00 Luminaire Flux=160.28

|     |      |      |      |      |      |      |      |      |      |      |       |       |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 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 | 0.66 | 0.71 | 0.77 | 0.81 | 0.84 | 0.89 | 0.92 | 0.94 | 0.96 | 0.98 | 1.00  | 1.01  |
| RC  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -     | -     |

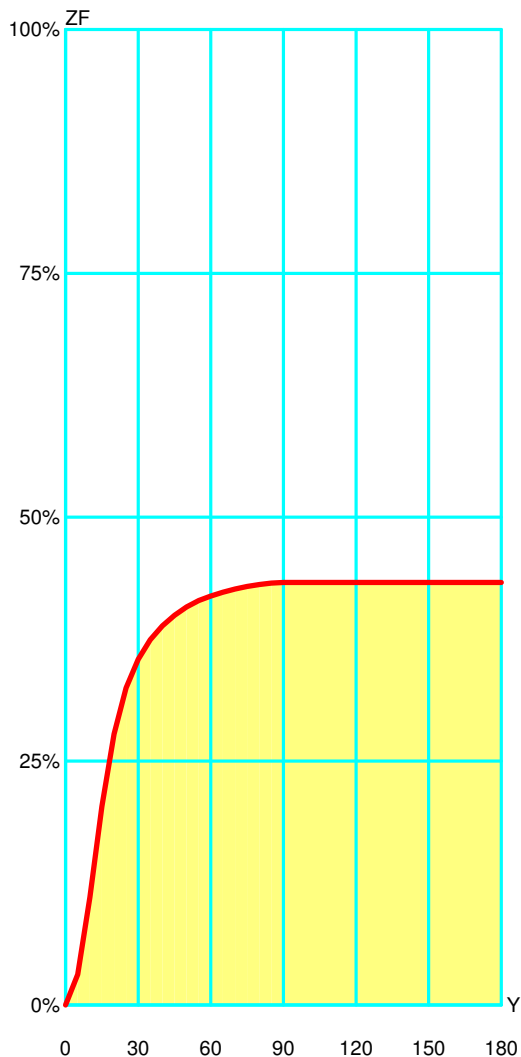
Zonal Flux per 1000 Lumen

|       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Y°    | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| ZF(Y) | 110 | 278 | 354 | 389 | 408 | 419 | 426 | 431 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 | 433 |

CIE Flux Codes

91 97 99 100 43

|            |                     |      |             |
|------------|---------------------|------|-------------|
| C.I.E.     | -/-/-/-/-/-/-/-/-/- | LOR  | 43.31802 %  |
| D DIN 5040 | A60                 | ULOR | 0.00000 %   |
| F UTE      | 0.43 A              | DLOR | 43.31802 %  |
| B NBN      | BZ 1                | UFF  | 0.00000 %   |
| RN         | 0.00000 %           | DFF  | 100.00000 % |
| BLF        | 1.0                 | FFR  | 0.00000 %   |



| Gamma ° | Zonal Flux |        |          |          |
|---------|------------|--------|----------|----------|
|         | Flux       | Sum lm | Flux [%] | Sum [%]  |
| 0°      | 0.00       | 0.00   | 0.00%    | 0.00 %   |
| 5°      | 31.29      | 31.29  | 7.22 %   | 7.22 %   |
| 10°     | 79.10      | 110.39 | 18.26 %  | 25.48 %  |
| 15°     | 93.18      | 203.58 | 21.51 %  | 47.00 %  |
| 20°     | 74.13      | 277.71 | 17.11 %  | 64.11 %  |
| 25°     | 47.28      | 324.98 | 10.91 %  | 75.02 %  |
| 30°     | 29.38      | 354.37 | 6.78 %   | 81.81 %  |
| 35°     | 20.00      | 374.37 | 4.62 %   | 86.42 %  |
| 40°     | 14.33      | 388.69 | 3.31 %   | 89.73 %  |
| 45°     | 10.80      | 399.49 | 2.49 %   | 92.22 %  |
| 50°     | 8.50       | 407.99 | 1.96 %   | 94.18 %  |
| 55°     | 6.52       | 414.51 | 1.51 %   | 95.69 %  |
| 60°     | 4.72       | 419.23 | 1.09 %   | 96.78 %  |
| 65°     | 3.81       | 423.04 | 0.88 %   | 97.66 %  |
| 70°     | 3.33       | 426.36 | 0.77 %   | 98.43 %  |
| 75°     | 2.65       | 429.01 | 0.61 %   | 99.04 %  |
| 80°     | 1.98       | 430.99 | 0.46 %   | 99.49 %  |
| 85°     | 1.42       | 432.41 | 0.33 %   | 99.82 %  |
| 90°     | 0.77       | 433.18 | 0.18 %   | 100.00 % |
| 95°     | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 100°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 105°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 110°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 115°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 120°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 125°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 130°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 135°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 140°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 145°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 150°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 155°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 160°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 165°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 170°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 175°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |
| 180°    | 0.00       | 433.18 | 0.00 %   | 100.00 % |



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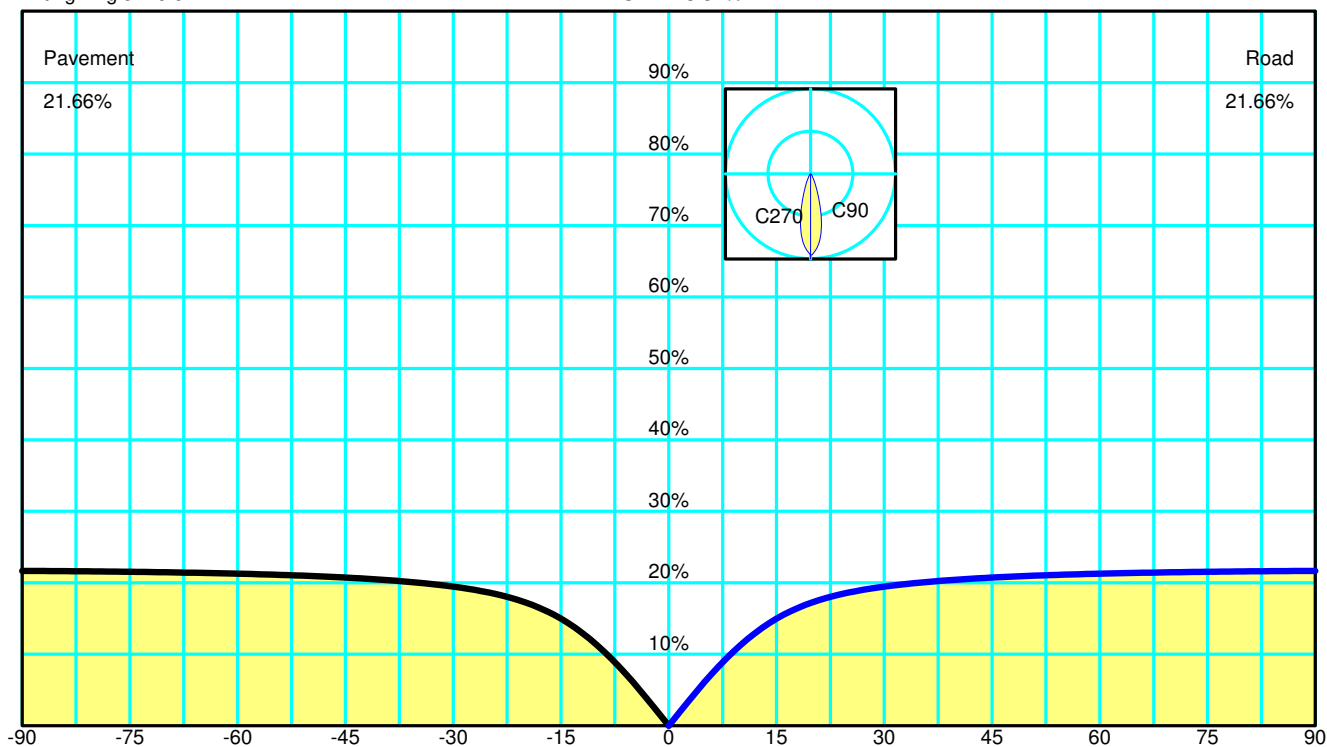
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| Pavement |     |        | Road  |    |        |
|----------|-----|--------|-------|----|--------|
| Piano    | 0   | 0.00%  | Piano | 0  | 0.00%  |
| Piano    | -5  | 6.13%  | Piano | 5  | 6.13%  |
| Piano    | -10 | 11.29% | Piano | 10 | 11.29% |
| Piano    | -15 | 14.98% | Piano | 15 | 14.98% |
| Piano    | -20 | 17.26% | Piano | 20 | 17.26% |
| Piano    | -25 | 18.62% | Piano | 25 | 18.62% |
| Piano    | -30 | 19.46% | Piano | 30 | 19.46% |
| Piano    | -35 | 20.02% | Piano | 35 | 20.02% |
| Piano    | -40 | 20.42% | Piano | 40 | 20.42% |
| Piano    | -45 | 20.73% | Piano | 45 | 20.73% |
| Piano    | -50 | 20.96% | Piano | 50 | 20.96% |
| Piano    | -55 | 21.13% | Piano | 55 | 21.13% |
| Piano    | -60 | 21.27% | Piano | 60 | 21.27% |
| Piano    | -65 | 21.38% | Piano | 65 | 21.38% |
| Piano    | -70 | 21.47% | Piano | 70 | 21.47% |
| Piano    | -75 | 21.54% | Piano | 75 | 21.54% |
| Piano    | -80 | 21.60% | Piano | 80 | 21.60% |
| Piano    | -85 | 21.64% | Piano | 85 | 21.64% |
| Piano    | -90 | 21.66% | Piano | 90 | 21.66% |

Tilting Angle = 0.0

DLOR = 43.32%



|              |                                 |                          |            |
|--------------|---------------------------------|--------------------------|------------|
| Spread       | 4.7° Narrow                     | DLOR                     | 43.31802 % |
| Throw        | 2.4° Short                      | ULOR                     | 0.00000 %  |
| SLI (glare)  | 9.7 Tight                       | Efficiency               | 43.31802 % |
| CIE Cutoff   | Cutoff - Max: C=0.0° Gamma=0.0° | RN                       | 0.00000 %  |
| Iesna Cutoff | Cutoff                          | Luminous Intensity Class | G5         |
| DIN5044      | KB1                             | Glare Index              | D6         |

IESNA Type V Very Short Quadrilateral Symmetry

**Luminaire**

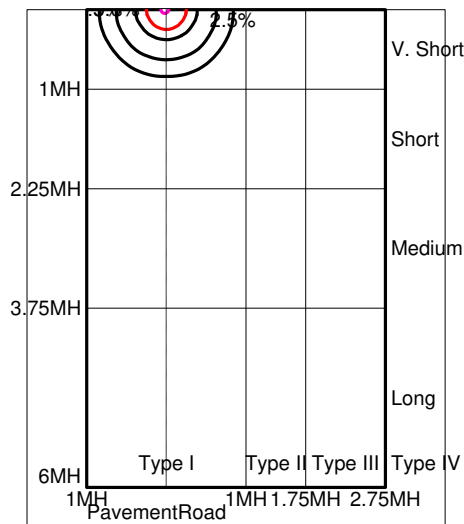
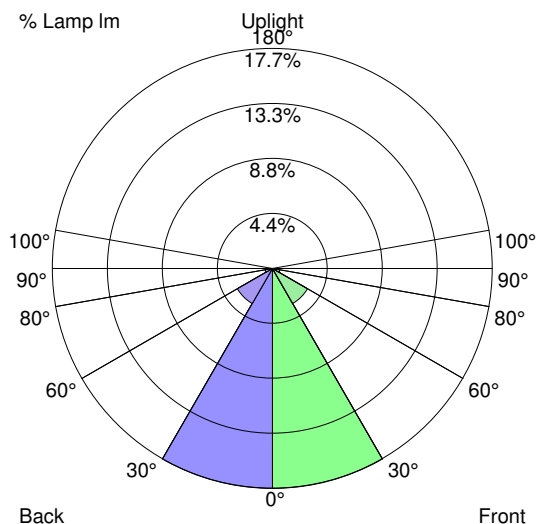
 Code 05-9640  
 Name Aplique HELIO 1x50W GU10

**Measurerm.**

 Code 05-9640  
 Name Aplique HELIO 1x50W GU10

|                |           |                 |           |          |               |            |                    |
|----------------|-----------|-----------------|-----------|----------|---------------|------------|--------------------|
| Luminaire Flux | 160.28 lm | Luminaire Power | 100.00 W  | Efficacy | 1.60 lm/W     | Efficiency | 43.32%             |
| Lamps Flux     | 370.00 lm | Maximum value   | 510.91 cd | Position | C=0.00 G=0.00 | CG         | Double Symmetrical |

## US ROAD STANDARDS



| Luminaire Classification System (LCS) |              |                   |                        |                |
|---------------------------------------|--------------|-------------------|------------------------|----------------|
| LCS Zone                              |              | Lumens            | %Lamp                  | %Lum           |
| FL                                    | 0° -- 30°    | 130.9 lm          | 17.7 %                 | 40.8 %         |
| FM                                    | 30° -- 60°   | 24.1 lm           | 3.3 %                  | 7.5 %          |
| FH                                    | 60° -- 80°   | 4.4 lm            | 0.6 %                  | 1.4 %          |
| FVH                                   | 80° -- 90°   | 0.8 lm            | 0.1 %                  | 0.3 %          |
| BL                                    | 0° -- 30°    | 130.9 lm          | 17.7 %                 | 40.8 %         |
| BM                                    | 30° -- 60°   | 24.1 lm           | 3.3 %                  | 7.5 %          |
| BH                                    | 60° -- 80°   | 4.4 lm            | 0.6 %                  | 1.4 %          |
| BVH                                   | 80° -- 90°   | 0.8 lm            | 0.1 %                  | 0.3 %          |
| UL                                    | 90° -- 100°  | 0.0 lm            | 0.0 %                  | 0.0 %          |
| UH                                    | 100° -- 180° | 0.0 lm            | 0.0 %                  | 0.0 %          |
| <b>TOTALS</b>                         |              | <b>320.6 lm</b>   | <b>43.3 %</b>          | <b>100.0 %</b> |
| BUG B1 U0 G0                          |              | Type V Very Short | Quadrilateral Symmetry |                |