



## Bulb AR LED

## ACT-FLL-032

Bulb Bulb AR LED GU10 15W 802.00



### TECHNICAL FEATURES

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Power (W) : Max. power 15W

Real lumens : 802

Real lm/W : 53

Colour temperature : LED warm-white 3000K

Structure material : Aluminium

Recommended light bulb : GU10

Voltage / frequency : 220-240V/50-60Hz

Warranty : 5 Years

Max. temperature : 25°C

Energy efficiency : LED A++

### LUMINOTECHNIC FEATURES

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Lampholder: 1 x GU10

### LOGISTICS

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Net weight (kg): 0.28

Packaged weight (kg): 0.42

Packaging: 135mm x 135mm x 115mm

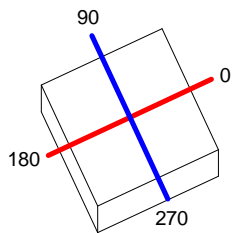


24 Un

|                            |                  |                             |                  |              |           |      |
|----------------------------|------------------|-----------------------------|------------------|--------------|-----------|------|
| <b>Luminaire</b>           |                  | <b>Measur.</b>              |                  | <b>Lamp</b>  |           |      |
| Code                       | ACT-FLL-032      | Code                        | ACT-FLL-032      | Code         | LED       |      |
| Name                       | 15W-24D (AR-111) | Name                        | 15W-24D (AR-111) | Number       | 1         |      |
| Line                       | AR LED           | Date                        | 24-05-2012       | Position     |           |      |
| Efficiency                 | 100.00%          | Coordinate system           | CG               | Total Flux   | 801.99 lm |      |
| Maximum value              | 5591.69 cd       | Position                    | C=30.00 G=1.00   | Asymmetrical |           |      |
| Rectangular Luminaire      | Length           | 1 mm                        | Width            | 1 mm         | Height    | 1 mm |
| Rectangular Luminous Area  | Length           | 1 mm                        | Width            | 1 mm         | Height    | 0 mm |
| Horizontal Luminous Area   | 0.000001 m2      | Emitting area on Plane 180° |                  | 0.000000 m2  |           |      |
| Emitting area on Plane 0°  | 0.000000 m2      | Emitting area on Plane 270° |                  | 0.000000 m2  |           |      |
| Emitting area on Plane 90° | 0.000000 m2      | Glare area at 76°           |                  | 0.000000 m2  |           |      |
| Symmetry Type              | Asymmetrical     | Maximum Gamma Angle         |                  | 90           |           |      |
| Measurement Distance       | 0.00             | Measurement Flux            |                  | 801.99 lm    |           |      |
| Operator                   |                  | Source voltage              |                  |              |           |      |
| Temperature                | 25.00 °C         | Source current              |                  |              |           |      |
| Humidity                   | 60.00 %          | Photocell                   |                  |              |           |      |
| Notes                      |                  |                             |                  |              |           |      |

| Luminaire Lamps |                  |               |           |          |      |  |
|-----------------|------------------|---------------|-----------|----------|------|--|
| Line            | Code             | Name          | Flux [lm] | Pow. [W] | Q.ty |  |
| Eulumdat        | LED              | LED - 13.80 W | 801.99    | 13.80    | 1    |  |
| C.I.E.          | 95 97 99 100 100 | D DIN 5040    |           | A60      |      |  |
| F UTE           | 1.00 A           | B NBN         |           | BZ 1     |      |  |

1mm x 1mm



**C Halfplanes**

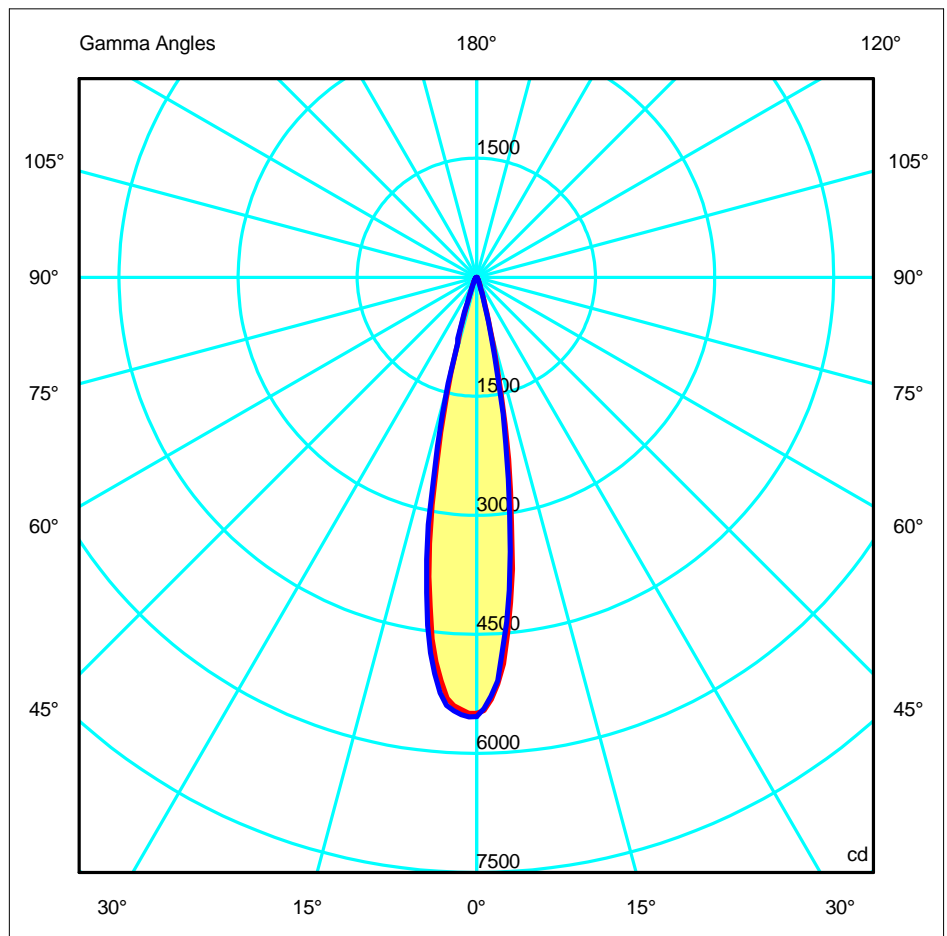
180.0 — 0.0

270.0 — 90.0

ULOR 0.00 %

DLOR 100.00 %

RN 0.00 %



**Luminaire**

Code ACT-FLL-032  
 Name 15W-24D (AR-111)  
 Line AR LED

**Measur.**

Code ACT-FLL-032  
 Name 15W-24D (AR-111)  
 Date 24-05-2012

**Lamp**

Code LED  
 Number 1  
 Position

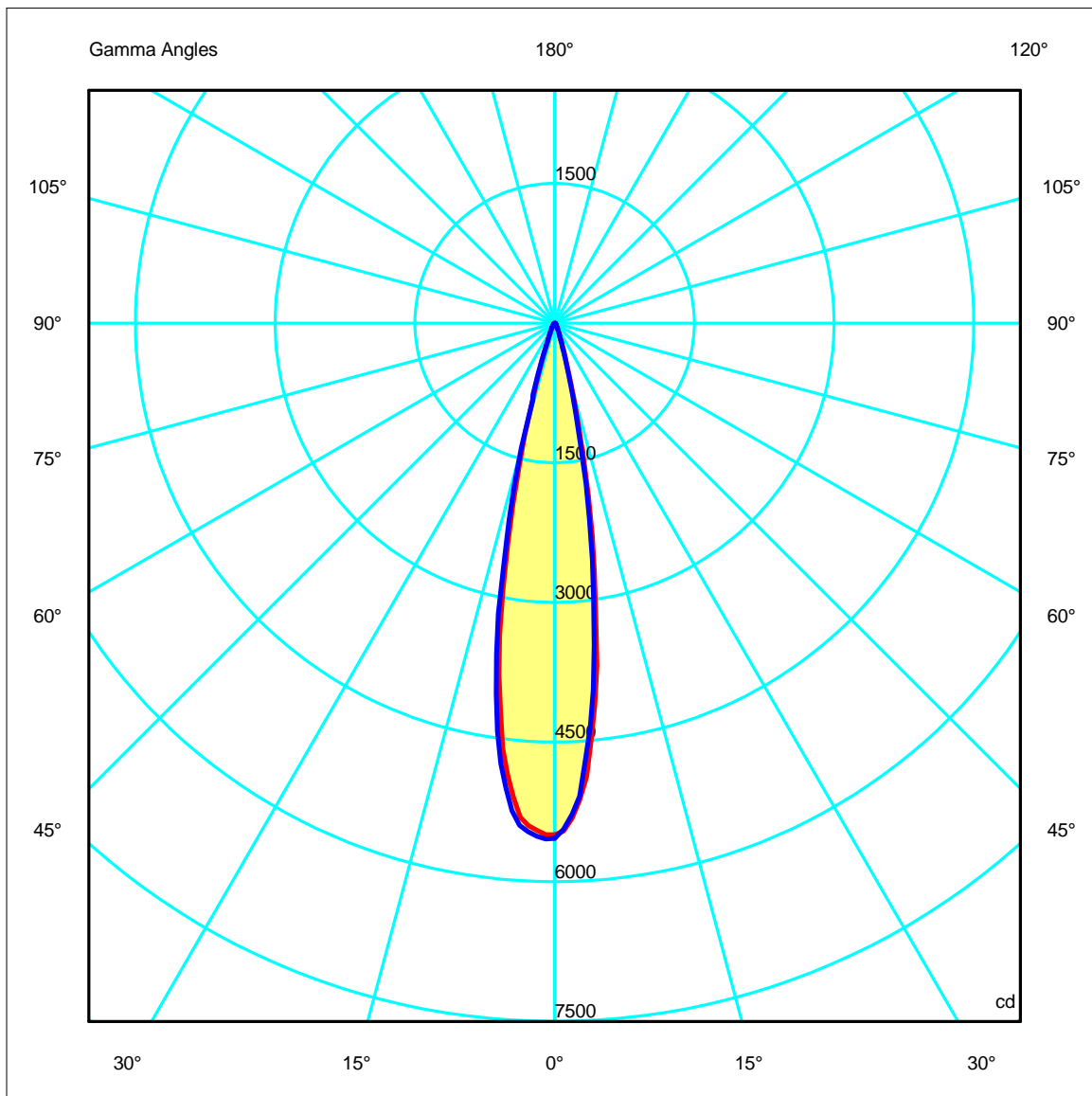
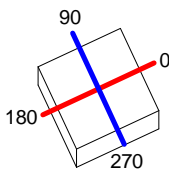
|            |         |                   |    |            |           |
|------------|---------|-------------------|----|------------|-----------|
| Efficiency | 100.00% | Coordinate system | CG | Total Flux | 801.99 lm |
|------------|---------|-------------------|----|------------|-----------|

1mm x 1mm

C Halfplanes

180.0 ————— 0.0

270.0 ————— 90.0



|                  |                  |                |                  |             |     |
|------------------|------------------|----------------|------------------|-------------|-----|
| <b>Luminaire</b> |                  | <b>Measur.</b> |                  | <b>Lamp</b> |     |
| Code             | ACT-FLL-032      | Code           | ACT-FLL-032      | Code        | LED |
| Name             | 15W-24D (AR-111) | Name           | 15W-24D (AR-111) | Number      | 1   |
| Line             | AR LED           | Date           | 24-05-2012       | Position    |     |

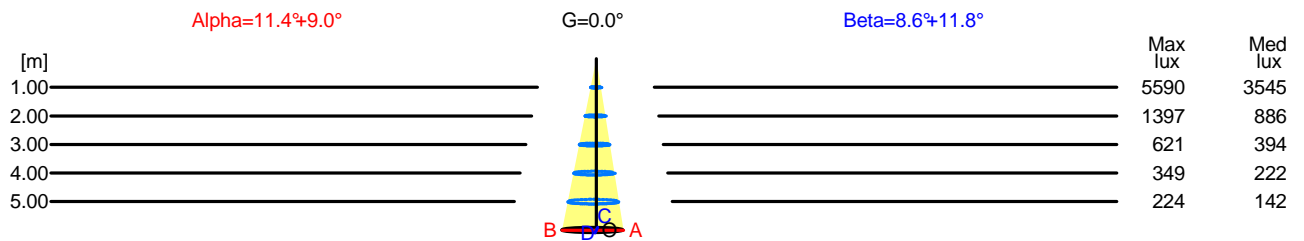
|            |         |                   |    |            |           |
|------------|---------|-------------------|----|------------|-----------|
| Efficiency | 100.00% | Coordinate system | CG | Total Flux | 801.99 lm |
|------------|---------|-------------------|----|------------|-----------|

Width at 50.00 % of MaxLux

|      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 0.16 | 0.32 | 0.47 | 0.63 | 0.79 | OC   | 0.15 | 0.30 | 0.45 | 0.60 | 0.75 |
| OB   | 0.20 | 0.40 | 0.60 | 0.80 | 1.00 | OD   | 0.21 | 0.42 | 0.63 | 0.83 | 1.04 |

Luminous Intensities [ cd ]

|    |         |         |         |        |       |       |       |      |      |      |
|----|---------|---------|---------|--------|-------|-------|-------|------|------|------|
|    | 0       | 5       | 15      | 25     | 35    | 45    | 55    | 65   | 75   | 85   |
| OA | 5494.70 | 4493.71 | 668.05  | 86.86  | 26.74 | 12.01 | 10.40 | 8.91 | 6.86 | 5.46 |
| OB | 5494.70 | 5103.22 | 1241.29 | 117.71 | 40.37 | 15.42 | 8.48  | 7.30 | 6.90 | 5.50 |
| OC | 5533.58 | 4355.21 | 575.86  | 84.50  | 26.39 | 11.88 | 10.22 | 8.87 | 6.90 | 5.37 |
| OD | 5533.58 | 5256.57 | 1382.85 | 123.65 | 41.20 | 15.51 | 8.21  | 7.12 | 6.90 | 5.46 |



| H[m] | D[m] | Max lux | Med lux | Alpha=11.4°+9.0° | G=0.0 |  |
|------|------|---------|---------|------------------|-------|--|
| 1.00 | 0.36 | 5590    | 3545    |                  |       |  |
| 2.00 | 0.72 | 1397    | 886     |                  |       |  |
| 3.00 | 1.08 | 621     | 394     |                  |       |  |
| 4.00 | 1.43 | 349     | 222     |                  |       |  |
| 5.00 | 1.79 | 224     | 142     |                  |       |  |

| H[m] | D[m] | Max lux | Med lux | Beta=11.8°+8.6° | G=0.0 |  |
|------|------|---------|---------|-----------------|-------|--|
| 1.00 | 0.36 | 5590    | 3545    |                 |       |  |
| 2.00 | 0.72 | 1397    | 886     |                 |       |  |
| 3.00 | 1.08 | 621     | 394     |                 |       |  |
| 4.00 | 1.44 | 349     | 222     |                 |       |  |
| 5.00 | 1.80 | 224     | 142     |                 |       |  |

**Luminaire**

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 Line AR LED

**Measurem.**

Code ACT-FLL-032  
 Name 15W-24D (AR-111)  
 Date 24-05-2012

**Lamp**

Code LED  
 Number 1  
 Position

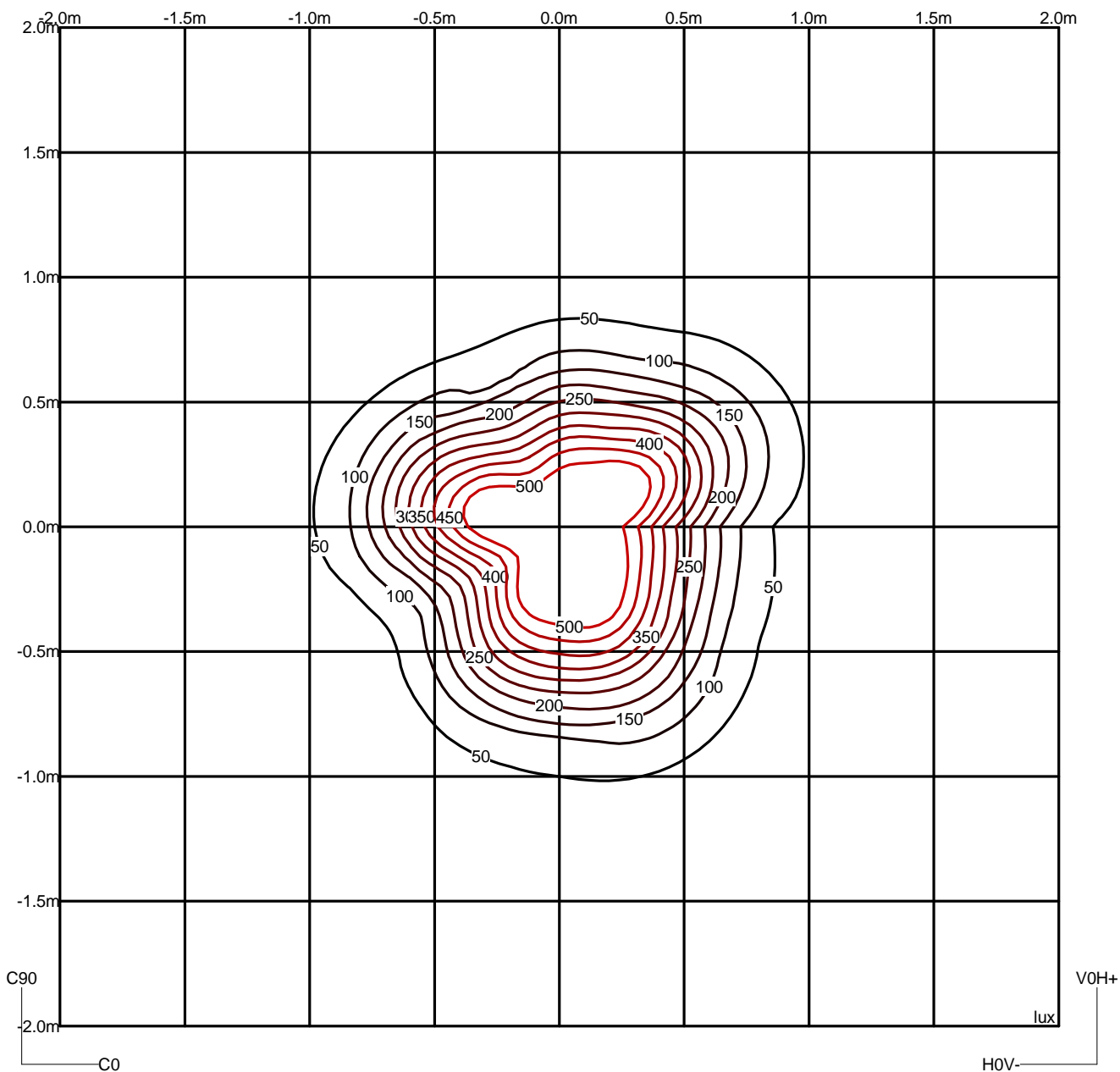
Efficiency 100.00%

Coordinate system CG

Total Flux 801.99 lm

Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=3.00m



**Luminaire**

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**Measur.**

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 Date 24-05-2012

**Lamp**

Code LED  
 Number 1  
 Position

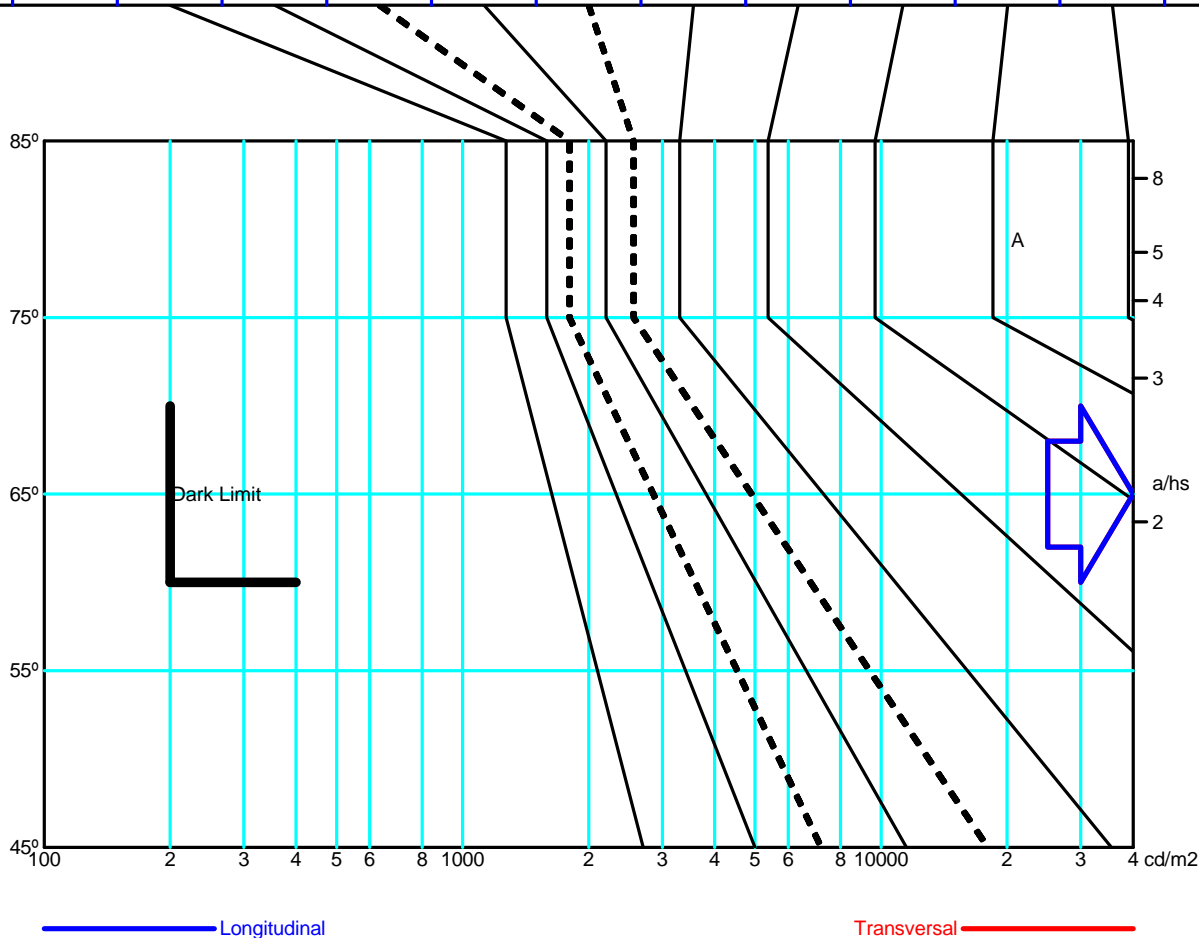
Efficiency 100.00%

Coordinate system CG

Total Flux 801.99 lm

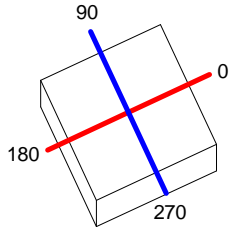
|       |          | Average Luminance [cd/m <sup>2</sup> ] |          |          |          |          |          |          |          |     |  |  |  |
|-------|----------|----------------------------------------|----------|----------|----------|----------|----------|----------|----------|-----|--|--|--|
|       |          | 45°                                    | 50°      | 55°      | 60°      | 65°      | 70°      | 75°      | 80°      | 85° |  |  |  |
| 0.0°  | 16991704 | 17400699                               | 18130025 | 18787915 | 21089869 | 24656340 | 26504904 | 32709666 | 62669157 | --- |  |  |  |
| 90.0° | 16806446 | 17332251                               | 17824918 | 18787915 | 20985744 | 24270399 | 26671022 | 31701914 | 61659443 | --- |  |  |  |

| 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 |

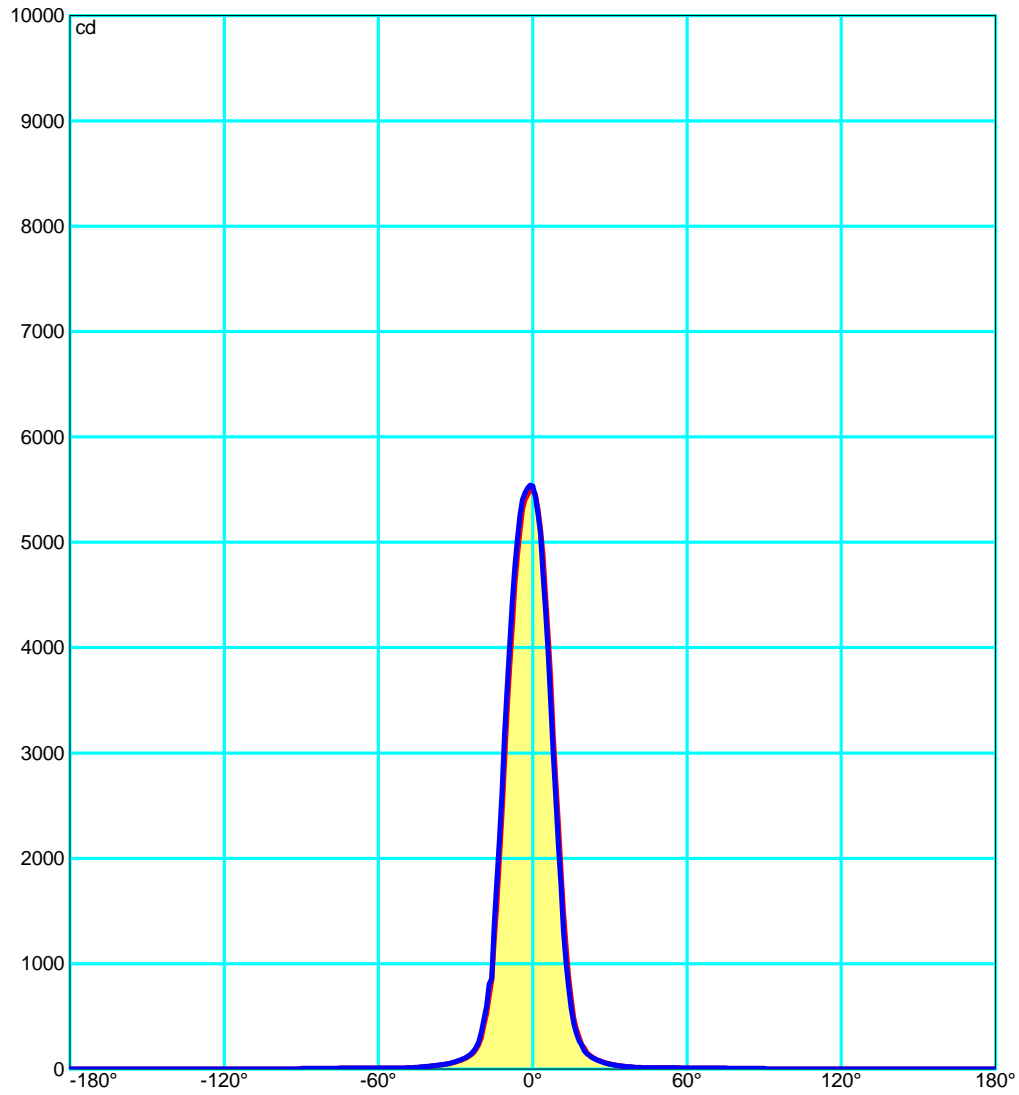


| Luminaire  |                  | Measur.           |                  | Lamp       |           |
|------------|------------------|-------------------|------------------|------------|-----------|
| Code       | ACT-FLL-032      | Code              | ACT-FLL-032      | Code       | LED       |
| Name       | 15W-24D (AR-111) | Name              | 15W-24D (AR-111) | Number     | 1         |
| Line       | AR LED           | Date              | 24-05-2012       | Position   |           |
| Efficiency | 100.00%          | Coordinate system | CG               | Total Flux | 801.99 lm |

1mm x 1mm



C Halfplanes



|                  |                  |                   |                  |             |           |
|------------------|------------------|-------------------|------------------|-------------|-----------|
| <b>Luminaire</b> |                  | <b>Measur.</b>    |                  | <b>Lamp</b> |           |
| Code             | ACT-FLL-032      | Code              | ACT-FLL-032      | Code        | LED       |
| Name             | 15W-24D (AR-111) | Name              | 15W-24D (AR-111) | Number      | 1         |
| Line             | AR LED           | Date              | 24-05-2012       | Position    |           |
| Efficiency       | 100.00%          | Coordinate system | CG               | Total Flux  | 801.99 lm |

**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      | 37.4            | 38.1 | 37.7 | 38.3 | 38.9 | 37.8          | 38.5 | 38.1 | 38.7 | 38.9 |
| x=2H y=3H      | 39.8            | 40.4 | 40.1 | 40.7 | 41.1 | 39.9          | 40.6 | 40.2 | 40.8 | 41.1 |
| x=2H y=4H      | 41.3            | 41.9 | 41.6 | 42.2 | 42.5 | 41.4          | 42.0 | 41.7 | 42.3 | 42.5 |
| x=2H y=6H      | 42.8            | 43.3 | 43.1 | 43.6 | 43.9 | 42.8          | 43.3 | 43.1 | 43.6 | 43.9 |
| x=2H y=8H      | 43.6            | 44.2 | 44.0 | 44.5 | 44.7 | 43.6          | 44.1 | 44.0 | 44.4 | 44.7 |
| x=2H y=12H     | 44.7            | 45.2 | 45.1 | 45.5 | 45.8 | 44.6          | 45.1 | 45.0 | 45.4 | 45.8 |
| x=4H y=2H      | 38.4            | 39.0 | 38.7 | 39.2 | 39.7 | 38.6          | 39.2 | 38.9 | 39.5 | 39.7 |
| x=4H y=3H      | 41.1            | 41.6 | 41.5 | 41.9 | 42.3 | 41.2          | 41.7 | 41.5 | 42.0 | 42.3 |
| x=4H y=4H      | 42.8            | 43.2 | 43.1 | 43.5 | 43.9 | 42.8          | 43.3 | 43.2 | 43.6 | 43.9 |
| x=4H y=6H      | 44.4            | 44.7 | 44.8 | 45.1 | 45.5 | 44.4          | 44.8 | 44.8 | 45.1 | 45.5 |
| x=4H y=8H      | 45.3            | 45.7 | 45.8 | 46.0 | 46.4 | 45.3          | 45.6 | 45.7 | 46.0 | 46.4 |
| x=4H y=12H     | 46.5            | 46.8 | 47.0 | 47.2 | 47.6 | 46.5          | 46.7 | 46.9 | 47.1 | 47.6 |
| x=8H y=4H      | 43.5            | 43.8 | 43.9 | 44.2 | 44.7 | 43.6          | 43.9 | 44.0 | 44.3 | 44.7 |
| x=8H y=6H      | 45.3            | 45.6 | 45.8 | 46.0 | 46.5 | 45.4          | 45.6 | 45.8 | 46.0 | 46.5 |
| x=8H y=8H      | 46.5            | 46.7 | 46.9 | 47.1 | 47.6 | 46.5          | 46.7 | 46.9 | 47.1 | 47.6 |
| x=8H y=12H     | 47.9            | 48.0 | 48.4 | 48.5 | 48.9 | 47.8          | 48.0 | 48.3 | 48.4 | 48.9 |
| x=12H y=4H     | 43.6            | 43.9 | 44.1 | 44.3 | 44.8 | 43.7          | 44.0 | 44.2 | 44.4 | 44.8 |
| x=12H y=6H     | 45.6            | 45.8 | 46.1 | 46.2 | 46.8 | 45.6          | 45.8 | 46.1 | 46.3 | 46.8 |
| x=12H y=8H     | 46.9            | 47.0 | 47.4 | 47.5 | 48.0 | 46.9          | 47.0 | 47.3 | 47.5 | 48.0 |



**Luminaire**

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 Line AR LED

**Measur.**

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 Date 24-05-2012

**Lamp**

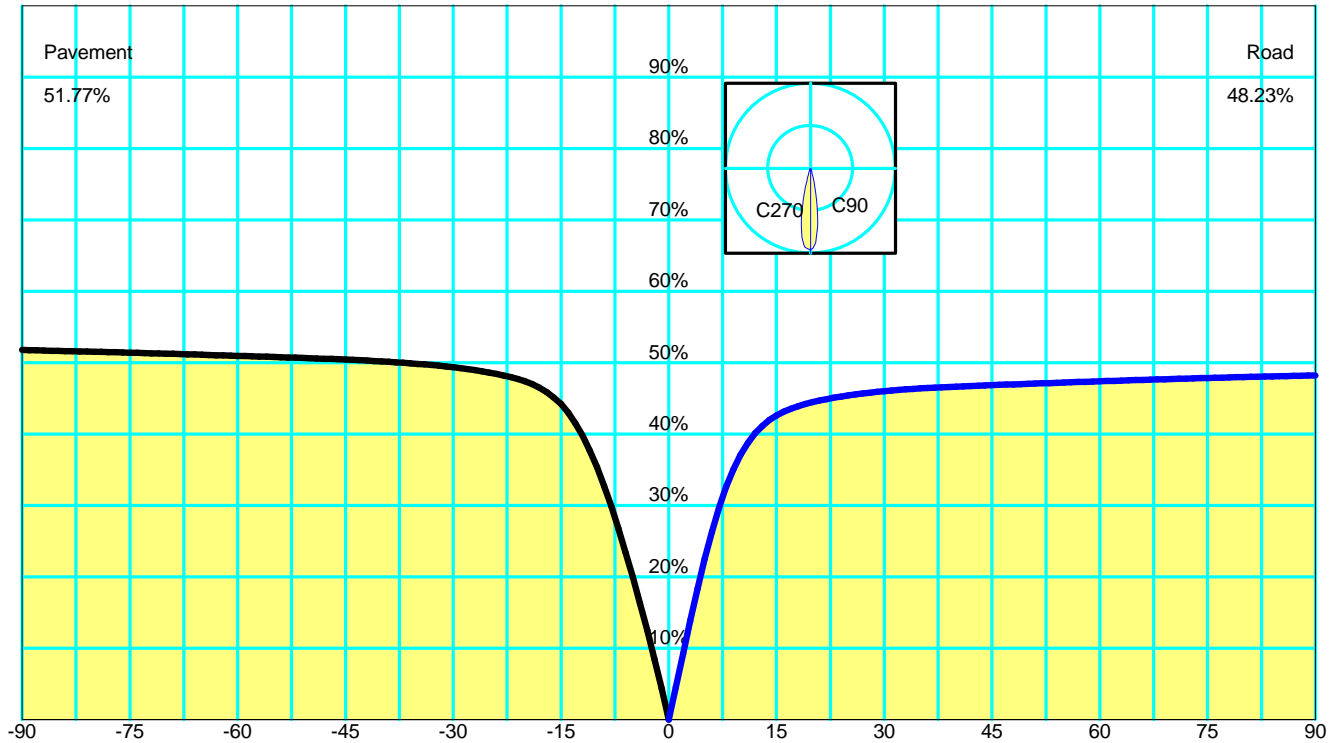
Code LED  
 Number 1  
 Position

Efficiency 100.00%      Coordinate system CG      Total Flux 801.99 lm

| Pavement |     |        | Road  |    |        |
|----------|-----|--------|-------|----|--------|
| Piano    | 0   | 0.00%  | Piano | 0  | 0.00%  |
| Piano    | -5  | 19.95% | Piano | 5  | 22.52% |
| Piano    | -10 | 35.38% | Piano | 10 | 37.10% |
| Piano    | -15 | 44.20% | Piano | 15 | 42.62% |
| Piano    | -20 | 47.38% | Piano | 20 | 44.48% |
| Piano    | -25 | 48.62% | Piano | 25 | 45.42% |
| Piano    | -30 | 49.36% | Piano | 30 | 46.01% |
| Piano    | -35 | 49.84% | Piano | 35 | 46.39% |
| Piano    | -40 | 50.19% | Piano | 40 | 46.65% |
| Piano    | -45 | 50.44% | Piano | 45 | 46.85% |
| Piano    | -50 | 50.63% | Piano | 50 | 47.04% |
| Piano    | -55 | 50.80% | Piano | 55 | 47.22% |
| Piano    | -60 | 50.96% | Piano | 60 | 47.39% |
| Piano    | -65 | 51.11% | Piano | 65 | 47.56% |
| Piano    | -70 | 51.26% | Piano | 70 | 47.72% |
| Piano    | -75 | 51.41% | Piano | 75 | 47.86% |
| Piano    | -80 | 51.53% | Piano | 80 | 47.99% |
| Piano    | -85 | 51.65% | Piano | 85 | 48.11% |
| Piano    | -90 | 51.77% | Piano | 90 | 48.23% |

Tilting Angle = 0.0

DLOR = 100.00%



|                                            |                                  |                          |             |
|--------------------------------------------|----------------------------------|--------------------------|-------------|
| Spread                                     | 3.9° Narrow                      | DLOR                     | 100.00000 % |
| Throw                                      | 3.2° Short                       | ULOR                     | 0.00000 %   |
| SLI (glare)                                | 2.9 Moderate                     | Efficiency               | 100.00000 % |
| CIE Cutoff                                 | Cutoff - Max: C=30.0° Gamma=1.0° | RN                       | 0.00000 %   |
| IESNA Cutoff                               | Cutoff                           | Luminous Intensity Class | G5          |
| DIN5044                                    | KB1                              | Glare Index              | D0          |
| IESNA Type I    Very Short    Asymmetrical |                                  |                          |             |

**Luminaire**

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**Measur.**

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 Date 24-05-2012

**Lamp**

Code  
 Number 1  
 Position

Efficiency 100.00%      Coordinate system CG      Total Flux 801.99 lm

Total Flux=801.99 Luminaire Flux=801.99

|     |      |      |      |      |      |      |      |      |      |      |       |       |
|-----|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 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 | 0.71 | 0.75 | 0.80 | 0.83 | 0.86 | 0.90 | 0.93 | 0.96 | 0.97 | 0.99 | 1.01  | 1.02  |
| RC  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -     | -     |

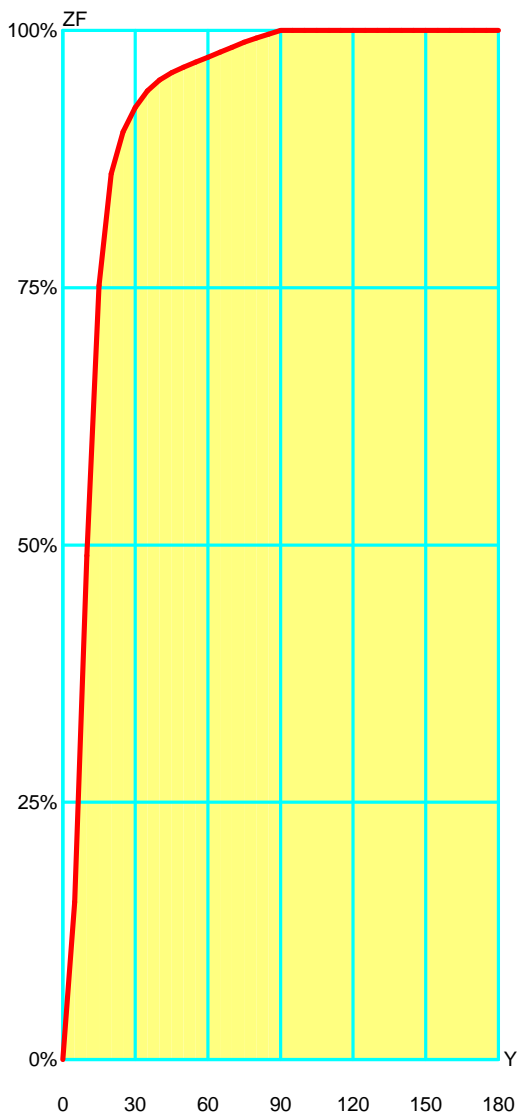
Zonal Flux per 1000 Lumen

|       |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Y°    | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
| ZF(Y) | 490 | 861 | 925 | 952 | 964 | 974 | 984 | 992 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

CIE Flux Codes

95 97 99 100 100

|            |                     |      |             |
|------------|---------------------|------|-------------|
| C.I.E.     | -/-/-/-/-/-/-/-/-/- | LOR  | 100.00000 % |
| D DIN 5040 | A60                 | ULOR | 0.00000 %   |
| F UTE      | 1.00 A              | DLOR | 100.00000 % |
| B NBN      | BZ 1                | UFF  | 0.00000 %   |
| RN         | 0.00000 %           | DFF  | 100.00000 % |
| BLF        | 1.0                 | FFR  | 0.00000 %   |



| Zonal Flux |        |         |          |          |
|------------|--------|---------|----------|----------|
| Gamma °    | Flux   | Sum lm  | Flux [%] | Sum [%]  |
| 0°         | 0.00   | 0.00    | 0.00%    | 0.00 %   |
| 5°         | 153.00 | 153.00  | 15.30 %  | 15.30 %  |
| 10°        | 336.65 | 489.64  | 33.66 %  | 48.96 %  |
| 15°        | 262.41 | 752.05  | 26.24 %  | 75.21 %  |
| 20°        | 108.63 | 860.69  | 10.86 %  | 86.07 %  |
| 25°        | 40.74  | 901.43  | 4.07 %   | 90.14 %  |
| 30°        | 23.65  | 925.08  | 2.37 %   | 92.51 %  |
| 35°        | 15.97  | 941.05  | 1.60 %   | 94.11 %  |
| 40°        | 10.63  | 951.68  | 1.06 %   | 95.17 %  |
| 45°        | 7.15   | 958.83  | 0.72 %   | 95.88 %  |
| 50°        | 5.44   | 964.27  | 0.54 %   | 96.43 %  |
| 55°        | 4.90   | 969.17  | 0.49 %   | 96.92 %  |
| 60°        | 4.80   | 973.97  | 0.48 %   | 97.40 %  |
| 65°        | 4.76   | 978.73  | 0.48 %   | 97.87 %  |
| 70°        | 4.80   | 983.53  | 0.48 %   | 98.35 %  |
| 75°        | 4.80   | 988.32  | 0.48 %   | 98.83 %  |
| 80°        | 4.10   | 992.42  | 0.41 %   | 99.24 %  |
| 85°        | 3.80   | 996.22  | 0.38 %   | 99.62 %  |
| 90°        | 3.78   | 1000.00 | 0.38 %   | 100.00 % |
| 95°        | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 100°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 105°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 110°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 115°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 120°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 125°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 130°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 135°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 140°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 145°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 150°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 155°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 160°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 165°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 170°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 175°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |
| 180°       | 0.00   | 1000.00 | 0.00 %   | 100.00 % |

**Luminaire**

 Code ACT-FLL-032  
 Name 15W-24D (AR-111)  
 Line AR LED

**Measur.**

 Code ACT-FLL-032  
 Name 15W-24D (AR-111)  
 Date 24-05-2012

**Lamp**

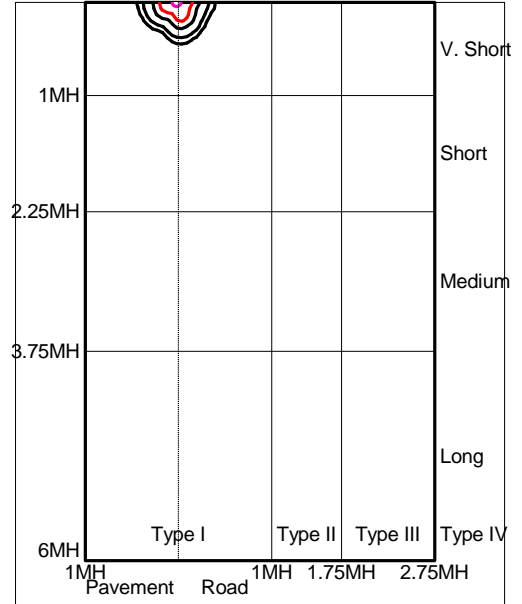
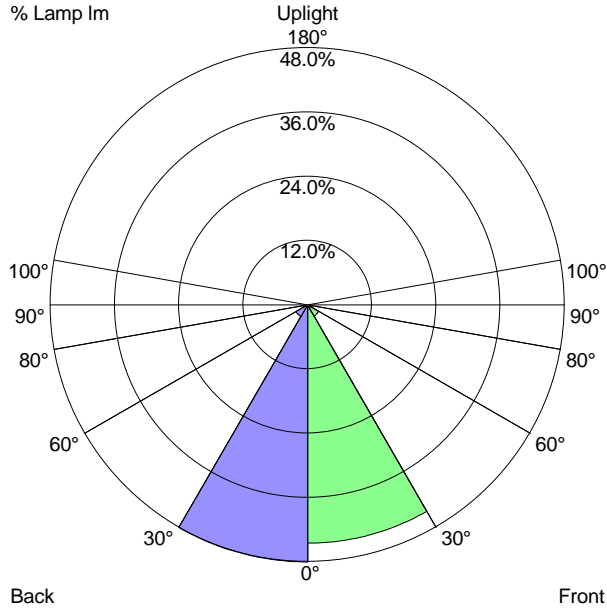
 Code LED  
 Number 1  
 Position

Efficiency 100.00%

Coordinate system CG

Total Flux 801.99 lm

## US ROAD STANDARDS



| Luminaire Classification System (LCS)       |             |                 |                |
|---------------------------------------------|-------------|-----------------|----------------|
| LCS Zone                                    |             | Lumens          | %Lamp          |
| FL                                          | 0°-- 30°    | 357.0 lm        | 44.5 %         |
| FM                                          | 30°-- 60°   | 19.3 lm         | 2.4 %          |
| FH                                          | 60°-- 80°   | 7.4 lm          | 0.9 %          |
| FVH                                         | 80°-- 90°   | 3.0 lm          | 0.4 %          |
| BL                                          | 0°-- 30°    | 384.9 lm        | 48.0 %         |
| BM                                          | 30°-- 60°   | 20.0 lm         | 2.5 %          |
| BH                                          | 60°-- 80°   | 7.3 lm          | 0.9 %          |
| BVH                                         | 80°-- 90°   | 3.0 lm          | 0.4 %          |
| UL                                          | 90°-- 100°  | 0.0 lm          | 0.0 %          |
| UH                                          | 100°-- 180° | 0.0 lm          | 0.0 %          |
| <b>TOTALS</b>                               |             | <b>802.0 lm</b> | <b>100.0 %</b> |
| BUG B1 U0 G0 Type I Very Short Asymmetrical |             |                 |                |