

#### Luminaire

Code VDL8A1 - 12W

Name VDL8A1 - 12W

#### Measurement

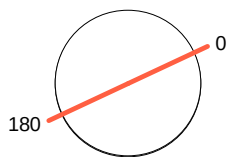
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|                            |            |                 |               |                             |               |                 |                 |
|----------------------------|------------|-----------------|---------------|-----------------------------|---------------|-----------------|-----------------|
| Luminaire Flux             | 1146.99 lm | Luminaire Power | 11.60 W       | Efficacy                    | 98.88 lm/W    | Efficiency      | 91.76%          |
| Lamps Flux                 | 1250.00 lm | Maximum value   | 451.48 cd/klm | Position                    | C=0.00 G=0.00 | CG              | Rotosymmetrical |
| Round Luminaire            |            | Diam.           | 88 mm         | Height                      | 1 mm          |                 |                 |
| Round Luminous Area        |            | Diam.           | 88 mm         | Height                      | 0 mm          |                 |                 |
| Horizontal Luminous Area   |            | 0.006082 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°           |               | 0.001471 m2     |                 |
| Coordinate system          |            | CG              |               | Symmetry Type               |               | Rotosymmetrical |                 |
| Date                       |            | 27-01-2000      |               | Maximum Gamma Angle         |               | 180             |                 |
| Measurement Distance       |            | 0.00            |               | Measurement Flux            |               | 1250.00 lm      |                 |
| Operator                   |            |                 |               | Source Voltage [V]          |               |                 |                 |
| Temperature                |            | 25.00 °C        |               | Source current [A]          |               |                 |                 |
| Humidity                   |            | 60.00 %         |               | Photocell                   |               |                 |                 |
| Notes                      |            |                 |               |                             |               |                 |                 |

| Line   | Code            | Luminaire Lamps      | Flux [lm] | Pow. [W] | Q.ty |
|--------|-----------------|----------------------|-----------|----------|------|
|        | LED10S/830/-    | Name<br>LED10S/830/- | 1250.00   | 11.60    | 1    |
| C.I.E. | 61 91 98 100 92 | D DIN 5040           | A50       |          |      |
| F UTE  | 0.92 C          | B NBN                | BZ 3      |          |      |

Diam=88mm

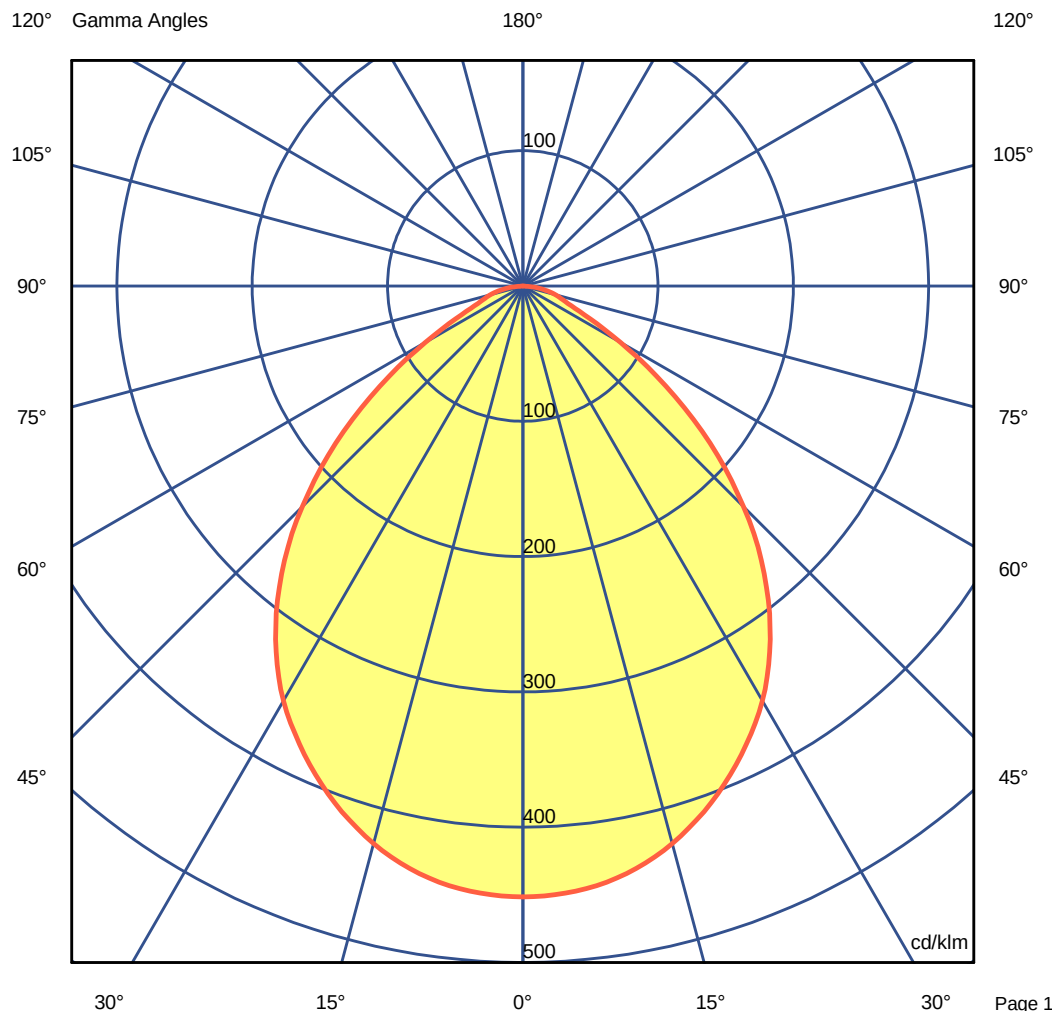


C Halfplanes

180.0 — 0.0

ULOR 0.03 %

DLOR 91.73 %





" ĐẲNG CẤP NGƯỜI DẪN ĐẦU "

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| Lamps Flux     | 1250.00 lm | Maximum value   | 451.48 cd/klm | Position | C=0.00 G=0.00 | CG         | Rotosymmetrical |

**Luminous Intensity Table cd/klm Table 1/2**

| C 0.00 |        |
|--------|--------|
| G 0.0  | 451.48 |
| G 1.0  | 451.28 |
| G 2.0  | 450.90 |
| G 3.0  | 450.41 |
| G 4.0  | 449.72 |
| G 5.0  | 448.85 |
| G 6.0  | 447.77 |
| G 7.0  | 446.41 |
| G 8.0  | 444.85 |
| G 9.0  | 442.90 |
| G 10.0 | 440.85 |
| G 11.0 | 438.50 |
| G 12.0 | 435.87 |
| G 13.0 | 432.94 |
| G 14.0 | 429.82 |
| G 15.0 | 426.51 |
| G 16.0 | 422.90 |
| G 17.0 | 419.00 |
| G 18.0 | 415.00 |
| G 19.0 | 410.90 |
| G 20.0 | 406.51 |
| G 21.0 | 401.93 |
| G 22.0 | 397.15 |
| G 23.0 | 392.38 |
| G 24.0 | 387.30 |
| G 25.0 | 382.03 |
| G 26.0 | 376.67 |
| G 27.0 | 371.21 |
| G 28.0 | 365.74 |
| G 29.0 | 360.09 |
| G 30.0 | 354.04 |
| G 31.0 | 347.61 |
| G 32.0 | 340.68 |
| G 33.0 | 333.56 |
| G 34.0 | 326.15 |
| G 35.0 | 318.64 |
| G 36.0 | 310.74 |
| G 37.0 | 302.84 |
| G 38.0 | 294.65 |
| G 39.0 | 286.16 |
| G 40.0 | 277.48 |
| G 41.0 | 268.61 |
| G 42.0 | 259.63 |
| G 43.0 | 250.37 |
| G 44.0 | 240.71 |
| G 45.0 | 230.86 |
| G 46.0 | 220.71 |
| G 47.0 | 210.77 |
| G 48.0 | 200.82 |
| G 49.0 | 190.78 |
| G 50.0 | 180.54 |
| G 51.0 | 170.39 |
| G 52.0 | 160.05 |
| G 53.0 | 149.62 |
| G 54.0 | 139.08 |
| G 55.0 | 128.94 |
| G 56.0 | 119.18 |
| G 57.0 | 109.92 |
| G 58.0 | 100.85 |
| G 59.0 | 91.98  |
| G 60.0 | 83.49  |
| G 61.0 | 75.58  |
| G 62.0 | 68.37  |
| G 63.0 | 61.54  |
| G 64.0 | 55.50  |
| G 65.0 | 50.23  |
| G 66.0 | 45.74  |
| G 67.0 | 41.94  |
| G 68.0 | 38.72  |
| G 69.0 | 35.79  |
| G 70.0 | 33.26  |
| G 71.0 | 31.21  |
| G 72.0 | 29.55  |



" ĐẲNG CẤP NGƯỜI DẪN ĐẦU "

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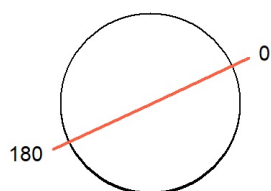
|                |            |                 |               |          |               |            |                 |
|----------------|------------|-----------------|---------------|----------|---------------|------------|-----------------|
| Luminaire Flux | 1146.99 lm | Luminaire Power | 11.60 W       | Efficacy | 98.88 lm/W    | Efficiency | 91.76%          |
| Lamps Flux     | 1250.00 lm | Maximum value   | 451.48 cd/klm | Position | C=0.00 G=0.00 | CG         | Rotosymmetrical |

Luminous Intensity Table cd/klm Table 2/2

C 0.00

|        |       |
|--------|-------|
| G 73.0 | 28.09 |
| G 74.0 | 26.62 |
| G 75.0 | 25.16 |
| G 76.0 | 23.50 |
| G 77.0 | 21.85 |
| G 78.0 | 20.09 |
| G 79.0 | 18.34 |
| G 80.0 | 16.58 |
| G 81.0 | 14.73 |
| G 82.0 | 12.87 |
| G 83.0 | 11.12 |
| G 84.0 | 9.26  |
| G 85.0 | 7.42  |
| G 86.0 | 5.46  |
| G 87.0 | 3.61  |
| G 88.0 | 2.05  |
| G 89.0 | 1.07  |
| G 90.0 | 0.39  |
| G 91.0 | 0.10  |
| G180.0 | 0.00  |

Diam=88mm



C Halfplanes

180.0 — 0.0

Flux 1250.00 lm

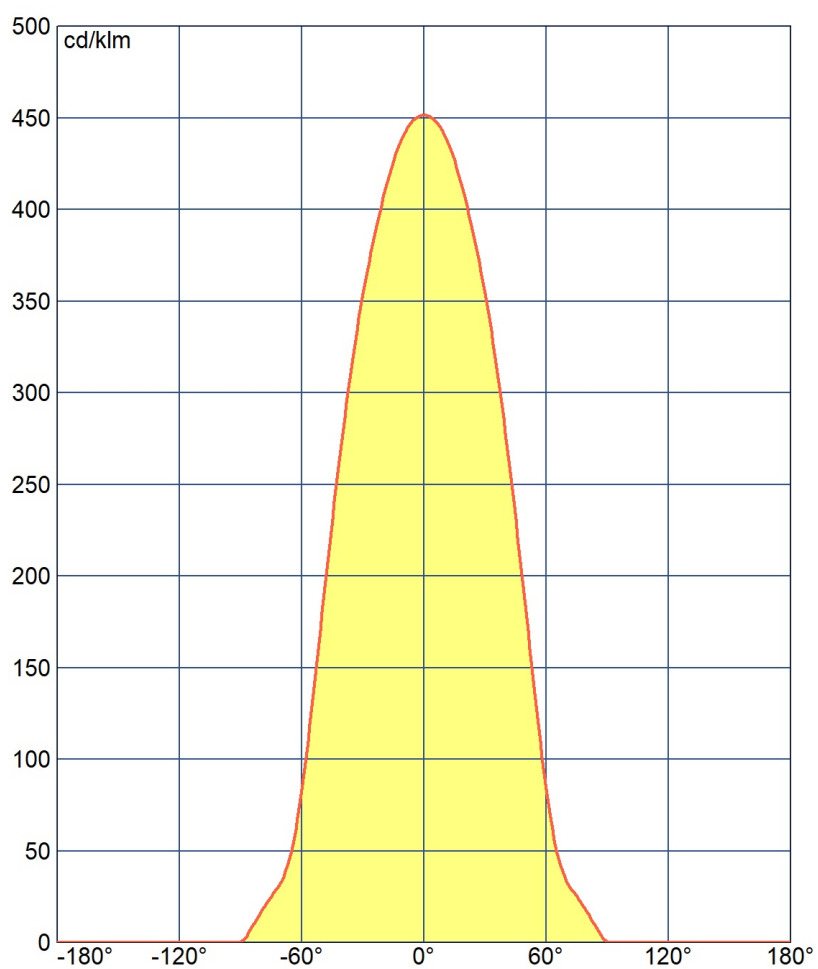
Maximum 451.48 cd/klm

Position C=0.00 G=0.00

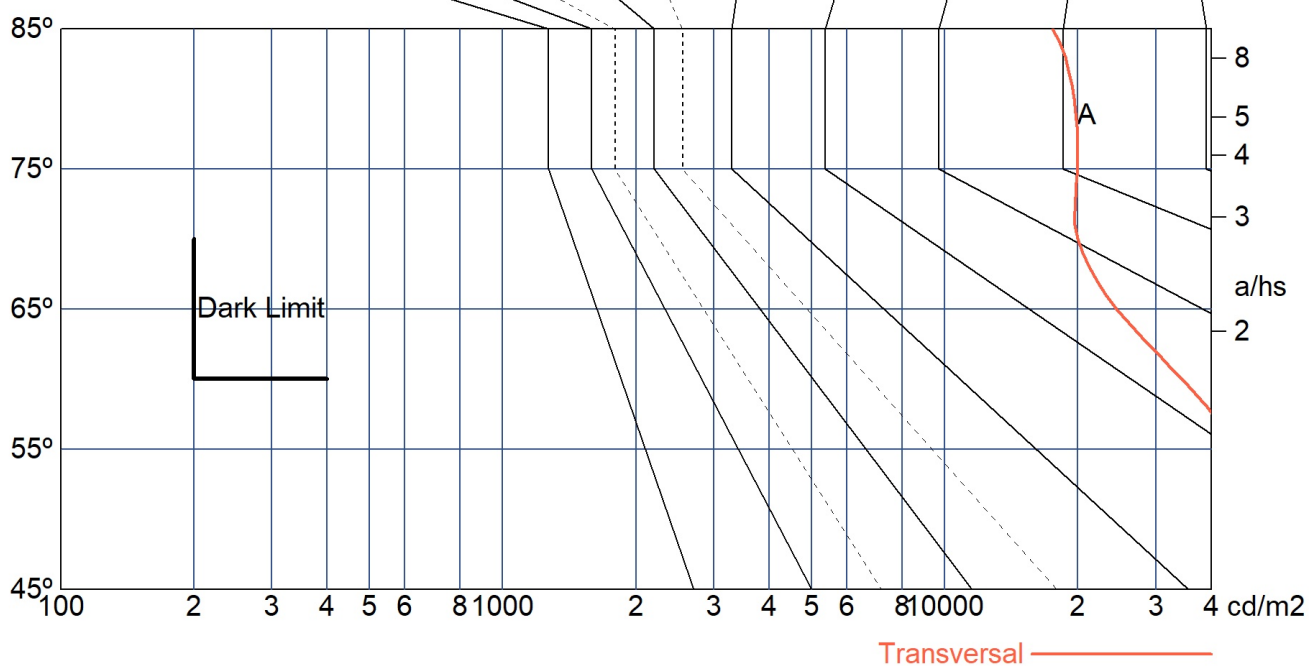
Efficiency: 91.76%

Date: 27-01-2000

Rotosymmetrical



| 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 |



|     |      |                |       |             |
|-----|------|----------------|-------|-------------|
| 0.5 | 1.02 | E(0°)<br>E(C0) | 45.5° | 2257<br>389 |
| 1.0 | 2.04 | E(0°)<br>E(C0) | 45.5° | 564<br>97   |
| 1.5 | 3.05 | E(0°)<br>E(C0) | 45.5° | 251<br>43   |
| 2.0 | 4.07 | E(0°)<br>E(C0) | 45.5° | 141<br>24   |
| 2.5 | 5.09 | E(0°)<br>E(C0) | 45.5° | 90<br>16    |
| 3.0 | 6.11 | E(0°)<br>E(C0) | 45.5° | 63<br>11    |

Distance [m]

Cone Diameter [m]

Illuminance [lx]

— C0 - C180 (Half value angle: 91.0°)

## Glare Evaluation According to UGR

|                                                                 |     |                                                   |      |      |      |      |                                            |      |      |      |      |
|-----------------------------------------------------------------|-----|---------------------------------------------------|------|------|------|------|--------------------------------------------|------|------|------|------|
| ρ Ceiling                                                       |     | 70                                                | 70   | 50   | 50   | 30   | 70                                         | 70   | 50   | 50   | 30   |
| ρ Walls                                                         |     | 50                                                | 30   | 50   | 30   | 30   | 50                                         | 30   | 50   | 30   | 30   |
| ρ Floor                                                         |     | 20                                                | 20   | 20   | 20   | 20   | 20                                         | 20   | 20   | 20   | 20   |
| Room size<br>X      Y                                           |     | Viewing direction at right angles<br>to lamp axis |      |      |      |      | Viewing direction parallel<br>to lamp axis |      |      |      |      |
| 2H                                                              | 2H  | 25.3                                              | 26.4 | 25.6 | 26.6 | 26.9 | 25.3                                       | 26.4 | 25.6 | 26.6 | 26.9 |
|                                                                 | 3H  | 25.7                                              | 26.7 | 26.0 | 26.9 | 27.2 | 25.7                                       | 26.7 | 26.0 | 26.9 | 27.2 |
|                                                                 | 4H  | 25.9                                              | 26.8 | 26.2 | 27.1 | 27.4 | 25.9                                       | 26.8 | 26.2 | 27.1 | 27.4 |
|                                                                 | 6H  | 26.1                                              | 26.9 | 26.4 | 27.2 | 27.5 | 26.1                                       | 26.9 | 26.4 | 27.2 | 27.5 |
|                                                                 | 8H  | 26.1                                              | 27.0 | 26.5 | 27.3 | 27.6 | 26.1                                       | 27.0 | 26.5 | 27.3 | 27.6 |
|                                                                 | 12H | 26.2                                              | 27.0 | 26.6 | 27.3 | 27.6 | 26.2                                       | 27.0 | 26.6 | 27.3 | 27.6 |
| 4H                                                              | 2H  | 25.5                                              | 26.4 | 25.8 | 26.7 | 27.0 | 25.5                                       | 26.4 | 25.8 | 26.7 | 27.0 |
|                                                                 | 3H  | 26.0                                              | 26.8 | 26.4 | 27.1 | 27.5 | 26.0                                       | 26.8 | 26.4 | 27.1 | 27.5 |
|                                                                 | 4H  | 26.3                                              | 27.0 | 26.7 | 27.4 | 27.7 | 26.3                                       | 27.0 | 26.7 | 27.4 | 27.7 |
|                                                                 | 6H  | 26.6                                              | 27.2 | 27.1 | 27.6 | 28.0 | 26.6                                       | 27.2 | 27.1 | 27.6 | 28.0 |
|                                                                 | 8H  | 26.8                                              | 27.3 | 27.2 | 27.7 | 28.1 | 26.8                                       | 27.3 | 27.2 | 27.7 | 28.1 |
|                                                                 | 12H | 26.9                                              | 27.4 | 27.3 | 27.8 | 28.2 | 26.9                                       | 27.4 | 27.3 | 27.8 | 28.2 |
| 8H                                                              | 4H  | 26.4                                              | 27.0 | 26.9 | 27.4 | 27.8 | 26.4                                       | 27.0 | 26.9 | 27.4 | 27.8 |
|                                                                 | 6H  | 26.9                                              | 27.3 | 27.3 | 27.7 | 28.2 | 26.9                                       | 27.3 | 27.3 | 27.7 | 28.2 |
|                                                                 | 8H  | 27.1                                              | 27.4 | 27.5 | 27.9 | 28.4 | 27.1                                       | 27.4 | 27.5 | 27.9 | 28.4 |
|                                                                 | 12H | 27.2                                              | 27.5 | 27.7 | 28.0 | 28.5 | 27.2                                       | 27.5 | 27.7 | 28.0 | 28.5 |
| 12H                                                             | 4H  | 26.4                                              | 26.9 | 26.9 | 27.3 | 27.8 | 26.4                                       | 26.9 | 26.9 | 27.3 | 27.8 |
|                                                                 | 6H  | 26.9                                              | 27.3 | 27.4 | 27.7 | 28.2 | 26.9                                       | 27.3 | 27.4 | 27.7 | 28.2 |
|                                                                 | 8H  | 27.1                                              | 27.4 | 27.6 | 27.9 | 28.4 | 27.1                                       | 27.4 | 27.6 | 27.9 | 28.4 |
| Variation of the observerposition for the luminaire distance S  |     |                                                   |      |      |      |      |                                            |      |      |      |      |
| S = 1.0H                                                        |     | +0.4 / -0.5                                       |      |      |      |      | +0.4 / -0.5                                |      |      |      |      |
| S = 1.5H                                                        |     | +0.8 / -1.4                                       |      |      |      |      | +0.8 / -1.4                                |      |      |      |      |
| S = 2.0H                                                        |     | +1.7 / -2.3                                       |      |      |      |      | +1.7 / -2.3                                |      |      |      |      |
| Standard table                                                  |     | BK03                                              |      |      |      |      | BK03                                       |      |      |      |      |
| Correction summand                                              |     | 9.0                                               |      |      |      |      | 9.0                                        |      |      |      |      |
| Corrected glare indices referring to 1250lm total luminous flux |     |                                                   |      |      |      |      |                                            |      |      |      |      |