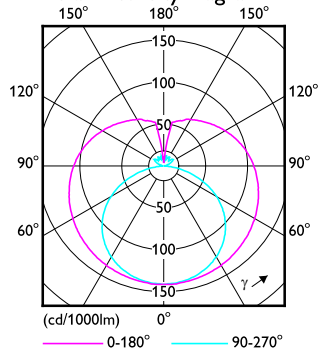


**1 x TLED 19W 4000K 9290043409**

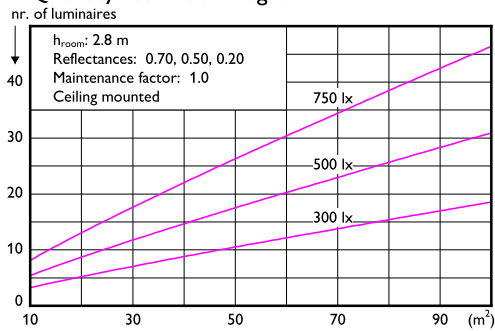
1 x 2200 lm

**Polar intensity diagram**

Light output ratio 1.00  
 Service upward 0.35  
 Service downward 0.65

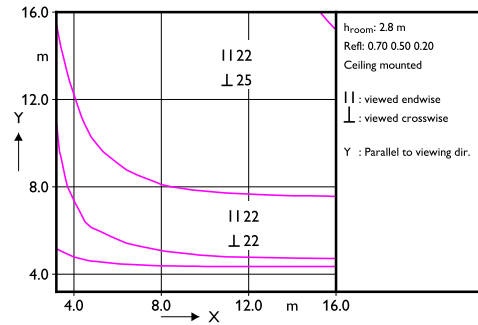
CIE flux code 32 59 82 65 100

UGRcen (4Hx8H, 0.25H) 23

**Quantity estimation diagram****Utilisation factor table**

| Room Index k | Reflectances (%) for ceiling, walls and working plane (CIE) |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|--------------|-------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|              | 0.80 0.80                                                   |           |           |           | 0.70 0.70 |           |           |           | 0.50 0.50 |           |           |           | 0.30 0.30 |           |           |           |
|              | 0.50 0.50                                                   | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 | 0.50 0.50 | 0.30 0.10 |
| 0.60         | 0.38                                                        | 0.36      | 0.36      | 0.35      | 0.34      | 0.27      | 0.24      | 0.20      | 0.21      | 0.18      | 0.13      | 0.10      | 0.10      | 0.10      | 0.10      | 0.00      |
| 0.80         | 0.47                                                        | 0.44      | 0.44      | 0.43      | 0.42      | 0.34      | 0.31      | 0.26      | 0.27      | 0.23      | 0.18      | 0.15      | 0.15      | 0.15      | 0.15      | 0.00      |
| 1.00         | 0.55                                                        | 0.51      | 0.51      | 0.50      | 0.48      | 0.40      | 0.36      | 0.31      | 0.32      | 0.28      | 0.22      | 0.19      | 0.19      | 0.19      | 0.19      | 0.00      |
| 1.25         | 0.63                                                        | 0.57      | 0.59      | 0.56      | 0.54      | 0.47      | 0.42      | 0.37      | 0.37      | 0.33      | 0.26      | 0.23      | 0.23      | 0.23      | 0.23      | 0.00      |
| 1.50         | 0.69                                                        | 0.62      | 0.64      | 0.61      | 0.59      | 0.52      | 0.46      | 0.41      | 0.41      | 0.37      | 0.29      | 0.26      | 0.26      | 0.26      | 0.26      | 0.00      |
| 2.00         | 0.78                                                        | 0.70      | 0.73      | 0.69      | 0.66      | 0.59      | 0.53      | 0.48      | 0.47      | 0.43      | 0.34      | 0.31      | 0.31      | 0.31      | 0.31      | 0.00      |
| 2.50         | 0.84                                                        | 0.74      | 0.78      | 0.74      | 0.70      | 0.64      | 0.58      | 0.54      | 0.51      | 0.48      | 0.38      | 0.35      | 0.35      | 0.35      | 0.35      | 0.00      |
| 3.00         | 0.89                                                        | 0.78      | 0.83      | 0.78      | 0.74      | 0.68      | 0.61      | 0.57      | 0.54      | 0.51      | 0.41      | 0.38      | 0.38      | 0.38      | 0.38      | 0.00      |
| 4.00         | 0.95                                                        | 0.83      | 0.89      | 0.83      | 0.78      | 0.74      | 0.66      | 0.63      | 0.59      | 0.56      | 0.45      | 0.42      | 0.42      | 0.42      | 0.42      | 0.00      |
| 5.00         | 1.00                                                        | 0.86      | 0.92      | 0.86      | 0.81      | 0.77      | 0.69      | 0.66      | 0.62      | 0.59      | 0.48      | 0.45      | 0.45      | 0.45      | 0.45      | 0.00      |

Ceiling mounted

**UGR diagram****Luminance Table**

| Plane Cone | 0.0  | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 |
|------------|------|------|------|------|------|------|------|
| 45.0       | 5452 | 5429 | 5596 | 5770 | 6173 | 7043 | 8470 |
| 50.0       | 5394 | 5356 | 5522 | 5651 | 6019 | 6909 | 8468 |
| 55.0       | 5357 | 5307 | 5476 | 5553 | 5876 | 6746 | 8397 |
| 60.0       | 5366 | 5300 | 5469 | 5480 | 5740 | 6551 | 8248 |
| 65.0       | 5396 | 5319 | 5496 | 5435 | 5624 | 6324 | 7990 |
| 70.0       | 5473 | 5378 | 5561 | 5430 | 5549 | 6049 | 7502 |
| 75.0       | 5578 | 5478 | 5684 | 5482 | 5530 | 5752 | 6742 |
| 80.0       | 5753 | 5640 | 5869 | 5613 | 5620 | 5489 | 5550 |
| 85.0       | 5977 | 5854 | 6118 | 5839 | 5869 | 5396 | 3635 |
| 90.0       | 6278 | 6155 | 6479 | 6222 | 6376 | 6017 | 1709 |

(cd/m<sup>2</sup>)

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