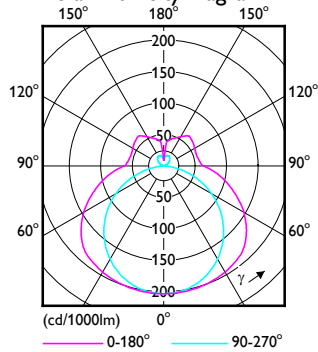


**TLED 16.5W 1 x TLED16.5W3000K 160D 9290013815**

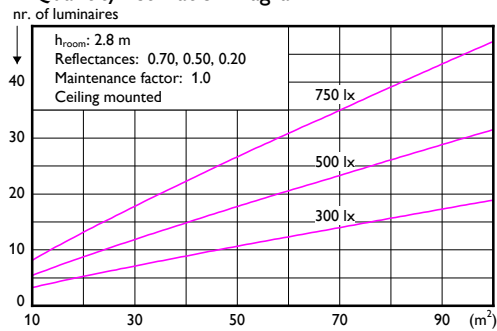
1 x 2000 lm

**Polar intensity diagram**

Light output ratio 1.00  
 Service upward 0.23  
 Service downward 0.77

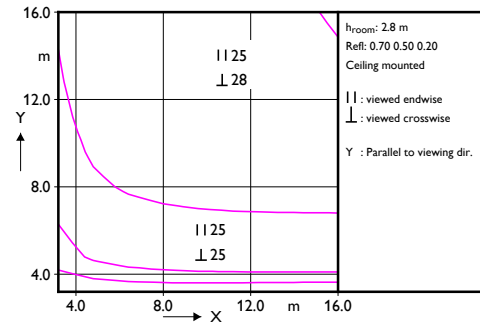
CIE flux code 38 68 88 77 100

UGRcen (4Hx8H, 0.25H) 27

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

| Room Index k | Reflectances (%) for ceiling, walls and working plane (CIE) |      |      |      |      |      |      |      |      |      |      |      |
|--------------|-------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
|              | 0.80                                                        |      |      | 0.70 |      |      | 0.50 |      |      | 0.30 |      |      |
|              | 0.80                                                        | 0.50 | 0.30 | 0.80 | 0.50 | 0.30 | 0.80 | 0.50 | 0.30 | 0.80 | 0.50 | 0.30 |
| 0.60         | 0.41                                                        | 0.39 | 0.30 | 0.39 | 0.38 | 0.30 | 0.28 | 0.24 | 0.26 | 0.22 | 0.19 | 0.19 |
| 0.80         | 0.51                                                        | 0.48 | 0.49 | 0.47 | 0.46 | 0.38 | 0.36 | 0.31 | 0.33 | 0.29 | 0.25 | 0.25 |
| 1.00         | 0.59                                                        | 0.55 | 0.56 | 0.54 | 0.53 | 0.45 | 0.42 | 0.37 | 0.39 | 0.35 | 0.30 | 0.30 |
| 1.25         | 0.67                                                        | 0.62 | 0.64 | 0.61 | 0.59 | 0.52 | 0.48 | 0.43 | 0.45 | 0.41 | 0.35 | 0.35 |
| 1.50         | 0.73                                                        | 0.67 | 0.70 | 0.67 | 0.64 | 0.57 | 0.53 | 0.48 | 0.49 | 0.45 | 0.39 | 0.39 |
| 2.00         | 0.83                                                        | 0.74 | 0.79 | 0.75 | 0.71 | 0.65 | 0.60 | 0.56 | 0.56 | 0.52 | 0.46 | 0.46 |
| 2.50         | 0.89                                                        | 0.79 | 0.85 | 0.80 | 0.76 | 0.70 | 0.65 | 0.62 | 0.61 | 0.57 | 0.50 | 0.50 |
| 3.00         | 0.94                                                        | 0.82 | 0.89 | 0.84 | 0.79 | 0.74 | 0.69 | 0.66 | 0.64 | 0.61 | 0.54 | 0.54 |
| 4.00         | 1.00                                                        | 0.87 | 0.95 | 0.89 | 0.84 | 0.80 | 0.74 | 0.71 | 0.69 | 0.66 | 0.58 | 0.58 |
| 5.00         | 1.05                                                        | 0.90 | 0.99 | 0.92 | 0.86 | 0.83 | 0.77 | 0.74 | 0.71 | 0.69 | 0.61 | 0.61 |

Ceiling mounted

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

| Plane Cone | 0.0   | 15.0  | 30.0  | 45.0  | 60.0  | 75.0  | 90.0  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 45.0       | 16173 | 15726 | 15614 | 15827 | 15974 | 16396 | 17080 |
| 50.0       | 15859 | 15428 | 15369 | 15678 | 15713 | 16042 | 16650 |
| 55.0       | 15450 | 15049 | 15056 | 15477 | 15391 | 15610 | 16121 |
| 60.0       | 15050 | 14625 | 14642 | 15117 | 14918 | 15033 | 15449 |
| 65.0       | 14481 | 14036 | 14067 | 14598 | 14289 | 14294 | 14601 |
| 70.0       | 13972 | 13470 | 13479 | 14033 | 13563 | 13381 | 13446 |
| 75.0       | 13548 | 12923 | 12847 | 13353 | 12668 | 12194 | 11776 |
| 80.0       | 13157 | 12410 | 12259 | 12745 | 11762 | 10814 | 9351  |
| 85.0       | 12745 | 11843 | 11589 | 12030 | 10788 | 9300  | 5727  |
| 90.0       | 12421 | 11386 | 11083 | 11589 | 10538 | 9326  | 2339  |

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

2017-06-21