**LITELINE CORPORATION** | LITELINE.COM
T 416.996.1856 | 1.866.730.7704
F 905.709.5255 | 1.888.738.9736
Copyright © 2023, All rights reserved.



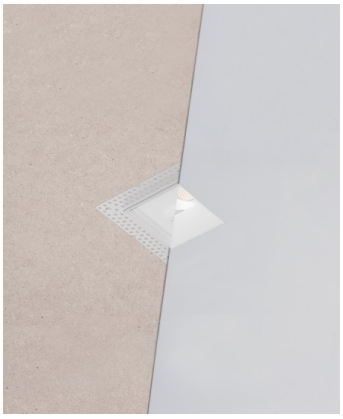
# Photometric Testing Report

**Light efficiency:**
55 Lumen/Watt

**Color temperature:**
3023 K

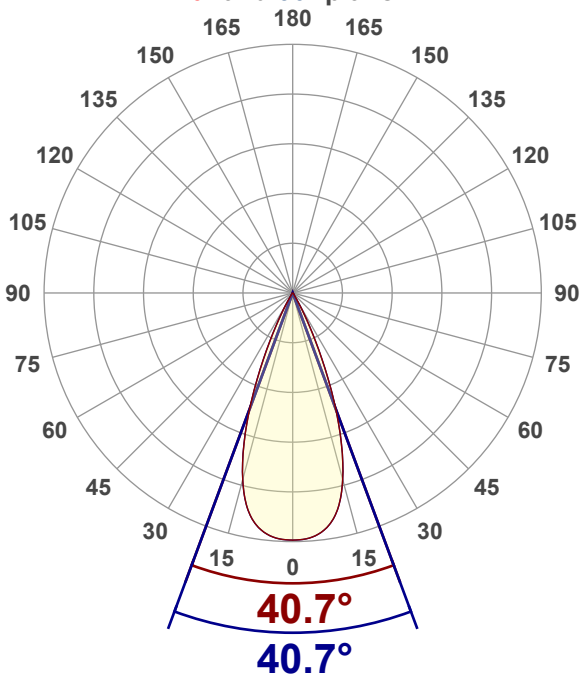
**Light quality:**
CRI:94.5, $R_g$:98.9, $R_f$:93.0
R9: 63.4 / P: 2 / V: - / F: 2

| | |
|---|---|
| **Output:** | **1299 lm** |
| **Peak:** | **3013 cd** |
| **Power:** | **23.6 W** |
| **Voltage:** | **119 V** |
| **Current:** | **0.200 A** |
| **PF:** | **0.99** |
| **THD:** | **7.96 %** |



## Angular Distribution

0° and 90° plane




**Product name:**
**S254XX-ETWMC-TX-XX**

**Test Date:**
**9/1/2026**

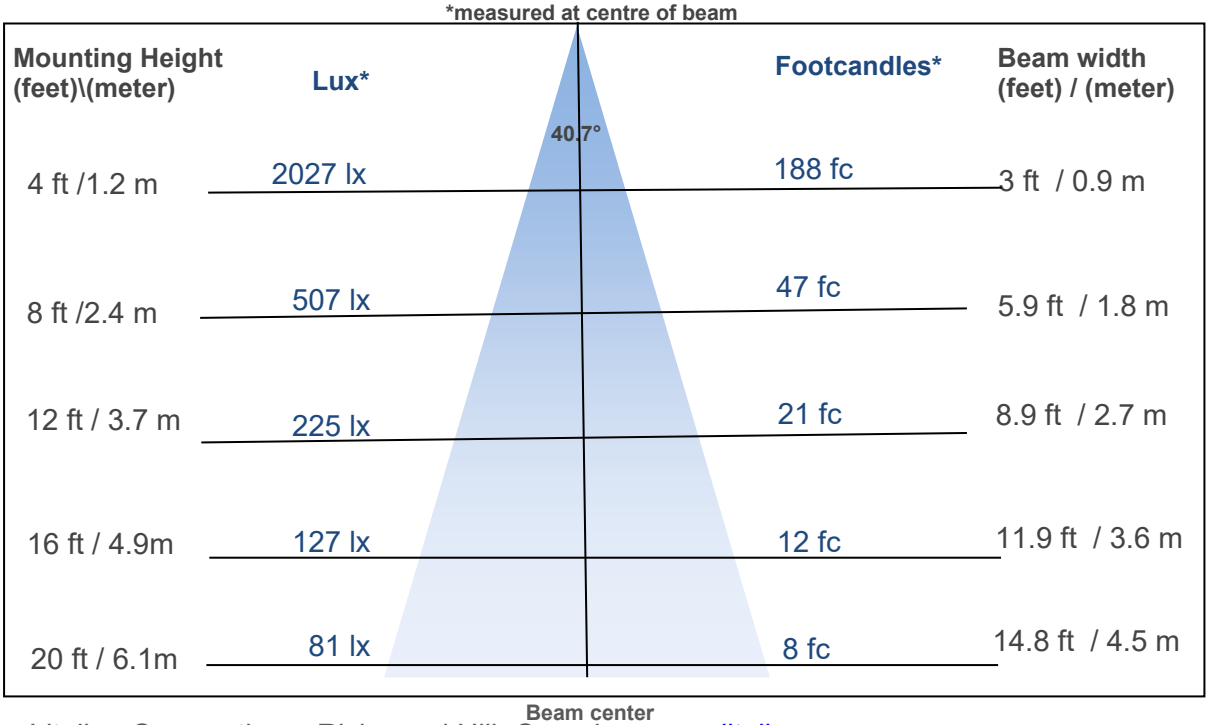
**Beam Angle (50% of the brightness of the centre):**
**40.7°**

**Field Angle (10% of the brightness of the centre):**
**56.5°**

**Cut Off Angle (2.5% of the brightness of the centre):**
**64.6°**

## Beam Details

*measured at centre of beam



**LITELINE CORPORATION** | LITELINE.COM
T 416.996.1856 | 1.866.730.7704
F 905.709.5255 | 1.888.738.9736
Copyright © 2023, All rights reserved.

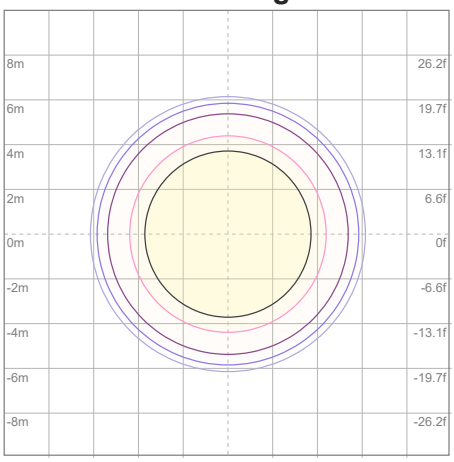
S254XX-ETWMC-TX-XX

# Photometric Testing Report

## Zonal Lumen Summary

| Zone | Lumen | %Luminaire |
|---|---|---|
| 0-30 | 1242 | 95.61% |
| 0-40 | 1273 | 98.00% |
| 0-60 | 1294 | 99.62% |
| 60-90 | 5.16 | 0.40% |
| 70-100 | 0.982 | 0.08% |
| 90-120 | 0.030 | 0.00% |
| 0-90 | 1299 | 100.00% |
| 90-180 | 0.041 | 0.00% |
| 0-180 | 1299 | 100.00% |

## ISO Lux Diagram




Mounting height: 3.05 meters (10 feet)

| | |
|---|---|
| Lux at center: | 324 lx |
| 3% | 9.72 lx |
| 5% | 16.20 lx |
| 10% | 32.40 lx |
| 30% | 97.20 lx |
| 50% | 162.00 lx |

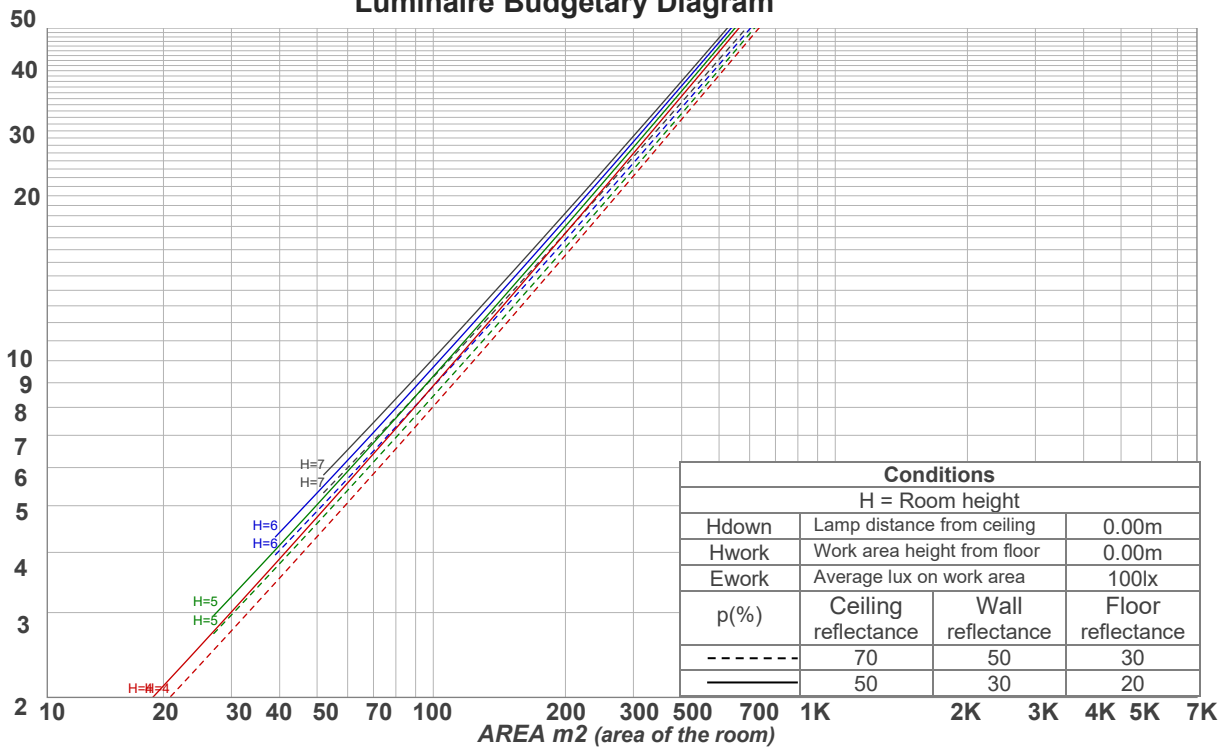
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

## Coefficients of Utilization

| Ceiling reflectance | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wall reflectance | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| Floor reflectance | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 0 |
| RCR | (RCR: Room Cavity Ratio) | | | | Room Values are expressed as percentage of Lumens delivered to the task surface | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 94 | 93 | 92 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 90 | 93 | 91 | 89 | 88 |
| 4 | 102 | 97 | 92 | 89 | 101 | 95 | 91 | 88 | 93 | 90 | 87 | 92 | 89 | 86 | 90 | 87 | 85 | 84 |
| 5 | 99 | 92 | 88 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 |
| 6 | 95 | 88 | 84 | 80 | 94 | 88 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 78 |
| 7 | 92 | 85 | 80 | 77 | 91 | 84 | 80 | 77 | 83 | 79 | 76 | 82 | 79 | 76 | 81 | 78 | 76 | 75 |
| 8 | 89 | 82 | 77 | 74 | 88 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 78 | 75 | 73 | 72 |
| 9 | 86 | 79 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 |
| 10 | 83 | 76 | 71 | 68 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 71 | 68 | 74 | 70 | 68 | 67 |

## Luminaire Budgetary Diagram

*LAMPS (number of lamps)*




| Conditions | | | |
|---|---|---|---|
| H = Room height | | | |
| Hdown | Lamp distance from ceiling | | 0.00m |
| Hwork | Work area height from floor | | 0.00m |
| Ework | Average lux on work area | | 100lx |
| p(%) | Ceiling reflectance | Wall reflectance | Floor reflectance |
| - - - - - - - | 70 | 50 | 30 |
| ——— | 50 | 30 | 20 |

**LITELINE CORPORATION** | LITELINE.COM
T 416.996.1856 | 1.866.730.7704
F 905.709.5255 | 1.888.738.9736

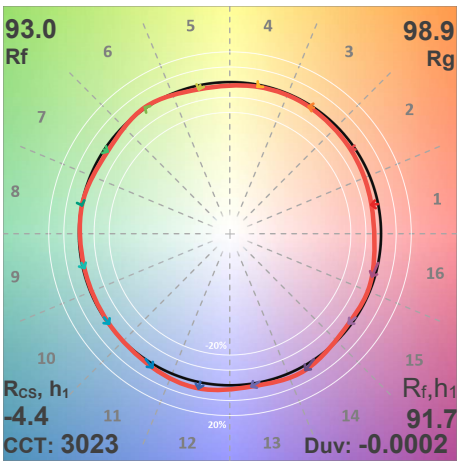
Copyright © 2023, All rights reserved.

S254XX-ETWMC-TX-XX

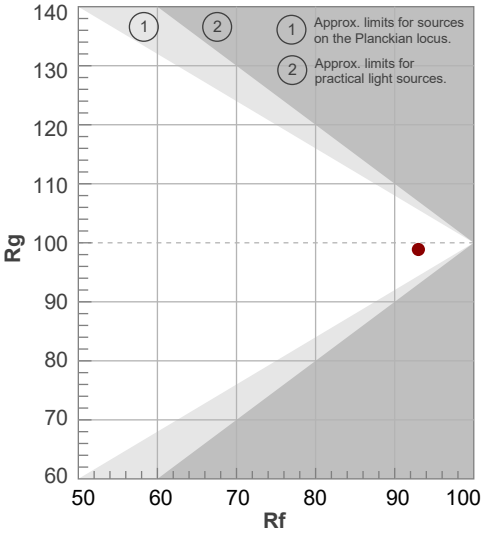
Liteline

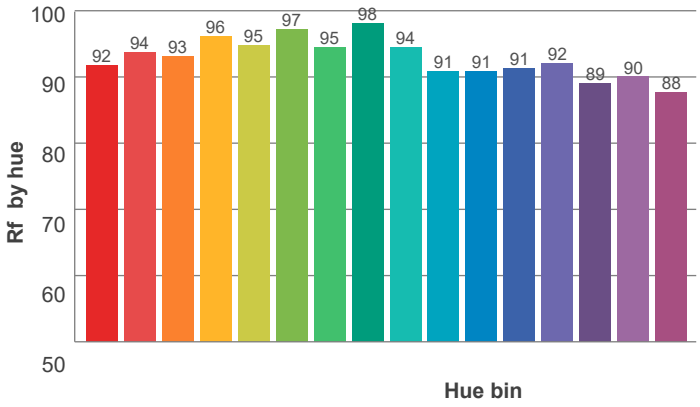
# Photometric Testing Report

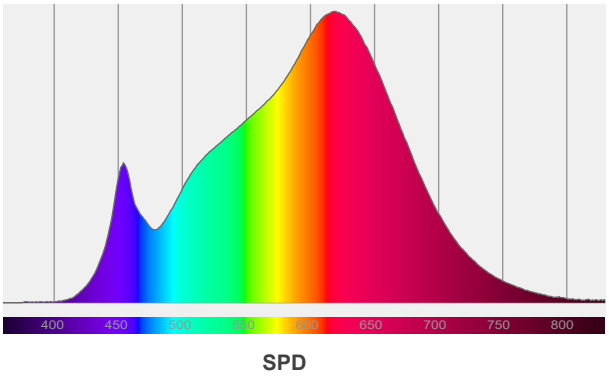
**ANSI/IES TM-30-18** P: **2** / V: **-** / F: **2**

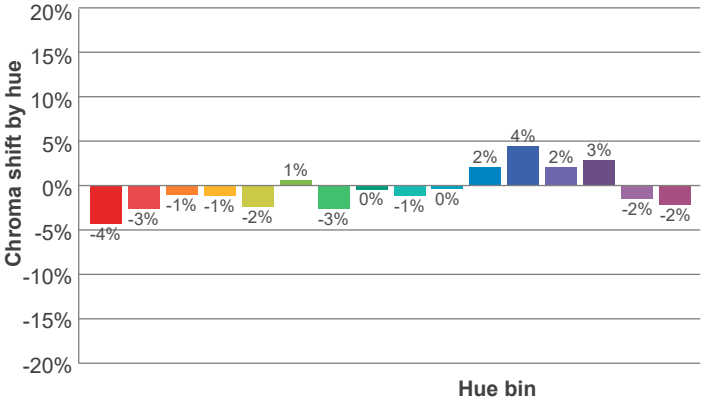



| Hue Bin | $R_f$ | Shifts (%) Chroma | Hue |
|---|---|---|---|
| 1 | 92 | -4% | 0% |
| 2 | 94 | -3% | 2% |
| 3 | 93 | -1% | 3% |
| 4 | 96 | -1% | 1% |
| 5 | 95 | -2% | 1% |
| 6 | 97 | 1% | 0% |
| 7 | 95 | -3% | 0% |
| 8 | 98 | 0% | 1% |
| 9 | 94 | -1% | 4% |
| 10 | 91 | 0% | 5% |
| 11 | 91 | 2% | 7% |
| 12 | 91 | 4% | 0% |
| 13 | 92 | 2% | -6% |
| 14 | 89 | 3% | -9% |
| 15 | 90 | -2% | -6% |
| 16 | 88 | -2% | -9% |




Red: 37.6%, Power=13.0mW

Blue: 8.9%, Power=7.6mW

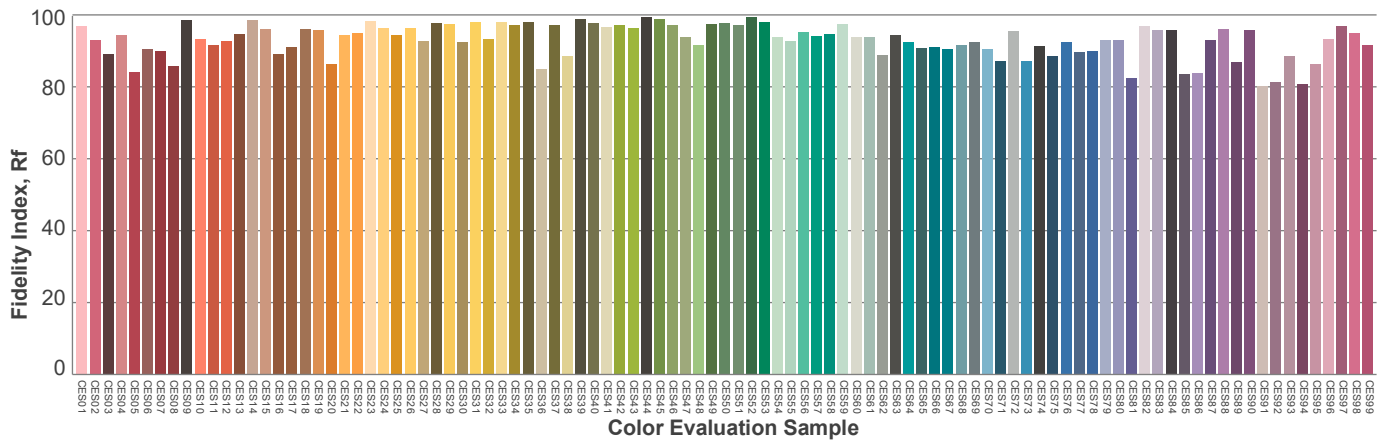
Green: 24.5%, Power=15.5mW

UVA: 0%, Power=0.0mW

Dominant Wavelength:584nm

1st Peak Wavelength: 619nm

2nd Peak Wavelength:454nm



Copyright © 2023, All rights reserved.


## Glare Evaluation According to UGR

Corrected, comprehensive UGR table according to 117-1995, S/H ratio=0.25

| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size<br>H = mouting height above eye level<br>X | Y | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 11.4 | 11.8 | 11.4 | 12.0 | 12.2 | 11.4 | 11.8 | 11.4 | 12.0 | 12.2 |
| | 3H | 11.3 | 12.0 | 11.7 | 12.1 | 12.3 | 11.3 | 12.0 | 11.7 | 12.1 | 12.3 |
| | 4H | 11.3 | 11.9 | 11.7 | 12.1 | 12.4 | 11.3 | 11.9 | 11.7 | 12.1 | 12.4 |
| | 6H | 11.3 | 11.8 | 11.6 | 12.1 | 12.5 | 11.3 | 11.8 | 11.6 | 12.1 | 12.5 |
| | 8H | 11.3 | 11.8 | 11.6 | 12.1 | 12.5 | 11.3 | 11.8 | 11.6 | 12.1 | 12.5 |
| | 12H | 11.2 | 11.7 | 11.6 | 12.0 | 12.5 | 11.2 | 11.7 | 11.6 | 12.0 | 12.5 |
| 4H | 2H | 11.4 | 12.0 | 11.7 | 12.2 | 12.4 | 11.4 | 12.0 | 11.7 | 12.2 | 12.4 |
| | 3H | 11.6 | 12.0 | 11.9 | 12.4 | 12.8 | 11.6 | 12.0 | 11.9 | 12.4 | 12.8 |
| | 4H | 11.5 | 11.9 | 11.9 | 12.3 | 12.8 | 11.5 | 11.9 | 11.9 | 12.3 | 12.8 |
| | 6H | 11.4 | 11.9 | 11.9 | 12.2 | 12.6 | 11.4 | 11.9 | 11.9 | 12.2 | 12.6 |
| | 8H | 11.4 | 11.8 | 11.9 | 12.2 | 12.5 | 11.4 | 11.8 | 11.9 | 12.2 | 12.5 |
| | 12H | 11.3 | 11.7 | 11.8 | 12.1 | 12.5 | 11.3 | 11.7 | 11.8 | 12.1 | 12.5 |
| 8H | 4H | 11.4 | 11.8 | 11.9 | 12.2 | 12.5 | 11.4 | 11.8 | 11.9 | 12.2 | 12.5 |
| | 6H | 11.4 | 11.6 | 11.9 | 12.1 | 12.6 | 11.4 | 11.6 | 11.9 | 12.1 | 12.6 |
| | 8H | 11.4 | 11.6 | 11.9 | 12.1 | 12.7 | 11.4 | 11.6 | 11.9 | 12.1 | 12.7 |
| | 12H | 11.3 | 11.5 | 11.9 | 12.0 | 12.6 | 11.3 | 11.5 | 11.9 | 12.0 | 12.6 |
| 12H | 4H | 11.3 | 11.7 | 11.8 | 12.1 | 12.5 | 11.3 | 11.7 | 11.8 | 12.1 | 12.5 |
| | 6H | 11.4 | 11.6 | 11.9 | 12.1 | 12.7 | 11.4 | 11.6 | 11.9 | 12.1 | 12.7 |
| | 8H | 11.3 | 11.5 | 11.9 | 12.0 | 12.6 | 11.3 | 11.5 | 11.9 | 12.0 | 12.6 |
| Variation of the observer position for the luminaire distance S | | | | | | | | | | | |
| S = 1.0H | | 3.3 / -1.4 | | | | | 3.3 / -1.4 | | | | |
| S = 1.5H | | 5.4 / -2.5 | | | | | 5.4 / -2.5 | | | | |
| S = 2.0H | | 7.1 / -5.8 | | | | | 7.1 / -5.8 | | | | |
| Corrected glare indices referring to 1299 lm total luminous flux | | | | | | | | | | | |