

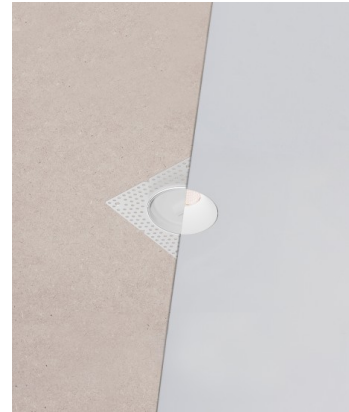
## Light efficiency:

**77 Lumen/Watt**

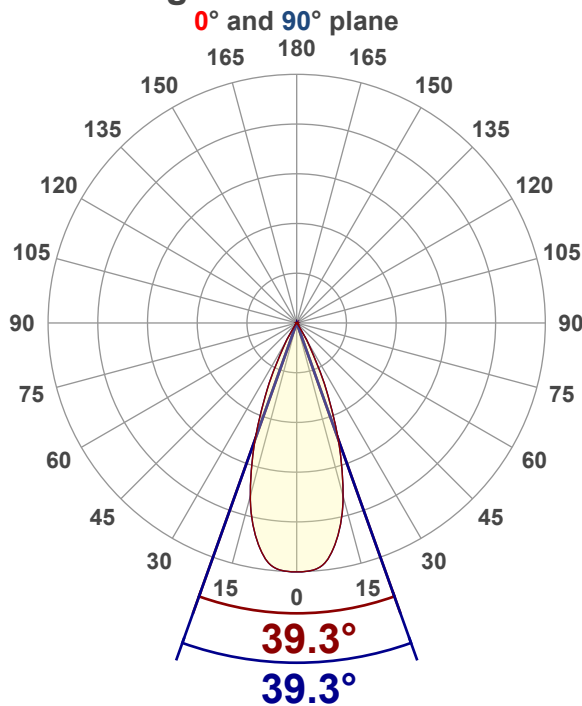
## Color temperature:

**3085 K**

## Light quality:

**CRI:93.1, R<sub>g</sub>:102.9, R<sub>f</sub>:91.2****R9: 70.8 / P: 2 / V: - / F: 2****Output: 1579 lm****Peak: 3775 cd****Power: 20.4 W****Voltage: 120 V****Current: 0.171 A****PF: 0.99****THD: 6.42 %**

## Angular Distribution



Product name:

**S241XX-E30MC-TX-XX**

Test Date:

**8/21/2026**

Beam Angle (50% of the brightness of the centre):

**39.3°**

Field Angle (10% of the brightness of the centre):

**58.6°**

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

**66.9°**

## Beam Details

\*measured at centre of beam

| Mounting Height<br>(feet)\(meter) | Lux*    | Footcandles* | Beam width<br>(feet) / (meter) |
|-----------------------------------|---------|--------------|--------------------------------|
| 4 ft / 1.2 m                      | 2540 lx | 236 fc       | 2.9 ft / 0.9 m                 |
| 8 ft / 2.4 m                      | 635 lx  | 59 fc        | 5.7 ft / 1.7 m                 |
| 12 ft / 3.7 m                     | 282 lx  | 26 fc        | 8.6 ft / 2.6 m                 |
| 16 ft / 4.9 m                     | 159 lx  | 15 fc        | 11.4 ft / 3.5 m                |
| 20 ft / 6.1 m                     | 102 lx  | 9 fc         | 14.3 ft / 4.4 m                |

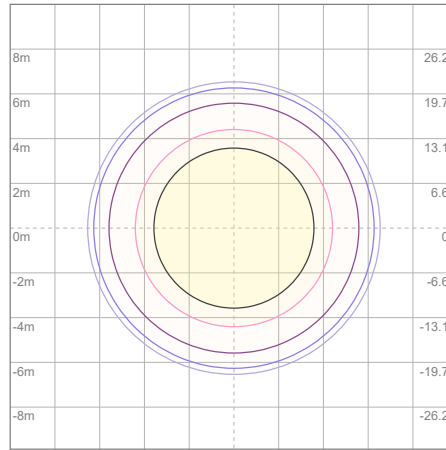
Beam center

## Photometric Testing Report

## Zonal Lumen Summary

| Zone   | Lumen | %Luminaire |
|--------|-------|------------|
| 0-30   | 1514  | 95.88%     |
| 0-40   | 1569  | 99.37%     |
| 0-60   | 1577  | 99.87%     |
| 60-90  | 1.45  | 0.09%      |
| 70-100 | 0.238 | 0.02%      |
| 90-120 | 0.077 | 0.00%      |
| 0-90   | 1578  | 99.94%     |
| 90-180 | 0.833 | 0.05%      |
| 0-180  | 1579  | 100.00%    |

## ISO Lux Diagram



|                |           |
|----------------|-----------|
| Lux at center: | 406 lx    |
| 3%             | 12.18 lx  |
| 5%             | 20.30 lx  |
| 10%            | 40.60 lx  |
| 30%            | 121.80 lx |
| 50%            | 203.00 lx |

## Conditions:

Number of planes: 8

Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

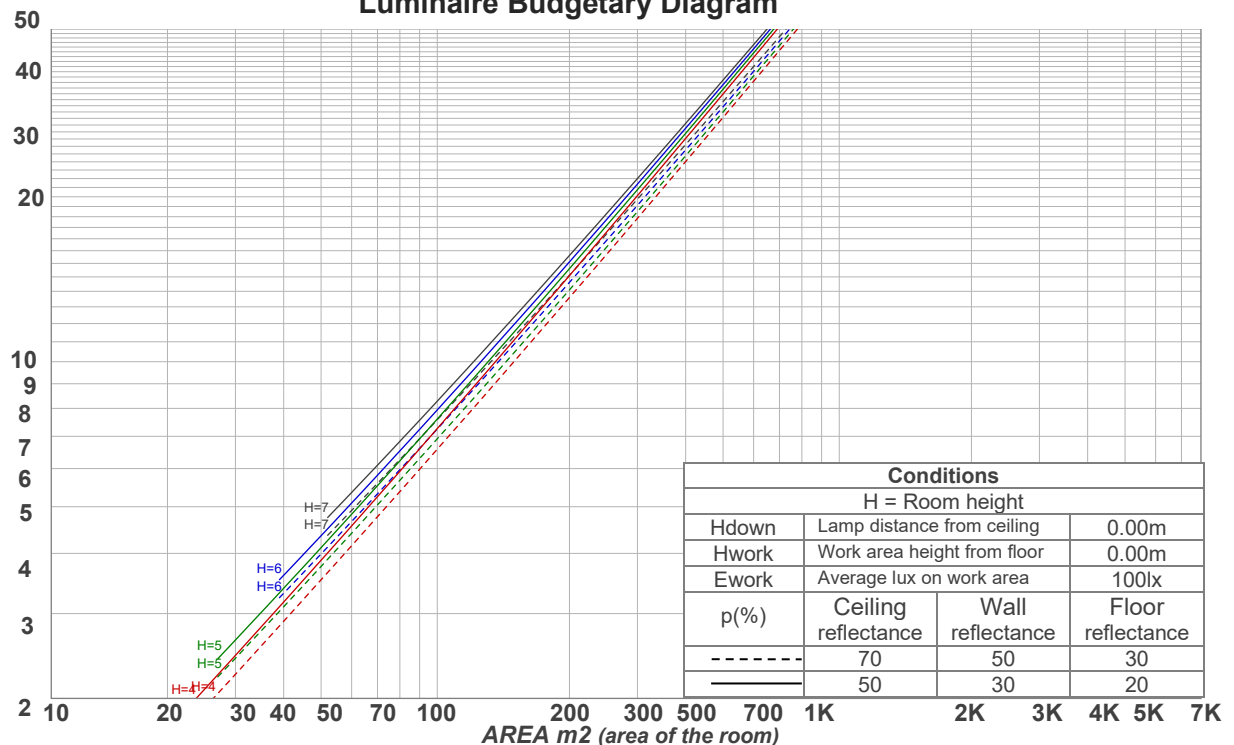
Mounting height: 3.05 meters (10 feet)

## 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 | 103 | 101 | 100 | 99  | 98  | 97  | 96  |
| 2                   | 110                      | 106 | 103 | 101 | 108                                                                             | 105 | 102 | 99  | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 95  | 93  | 92  |
| 3                   | 106                      | 101 | 97  | 94  | 105                                                                             | 100 | 96  | 94  | 97  | 95  | 92  | 95  | 93  | 91  | 93  | 91  | 89  | 88  |
| 4                   | 103                      | 97  | 92  | 89  | 101                                                                             | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |
| 5                   | 99                       | 92  | 88  | 85  | 98                                                                              | 92  | 87  | 84  | 90  | 86  | 84  | 88  | 85  | 83  | 87  | 84  | 82  | 81  |
| 6                   | 96                       | 89  | 84  | 81  | 94                                                                              | 88  | 84  | 80  | 87  | 83  | 80  | 85  | 82  | 79  | 84  | 81  | 79  | 78  |
| 7                   | 92                       | 85  | 80  | 77  | 91                                                                              | 85  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 75  |
| 8                   | 89                       | 82  | 77  | 74  | 88                                                                              | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 79  | 75  | 73  | 72  |
| 9                   | 86                       | 79  | 74  | 71  | 85                                                                              | 78  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 70  | 69  |
| 10                  | 83                       | 76  | 71  | 68  | 83                                                                              | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 71  | 68  | 74  | 70  | 68  | 67  |

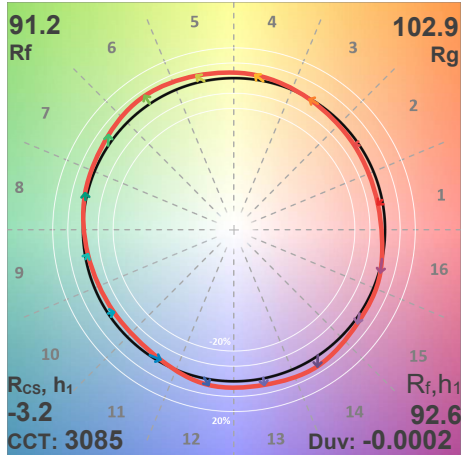
## LAMPS (number of lamps)

## Luminaire Budgetary Diagram

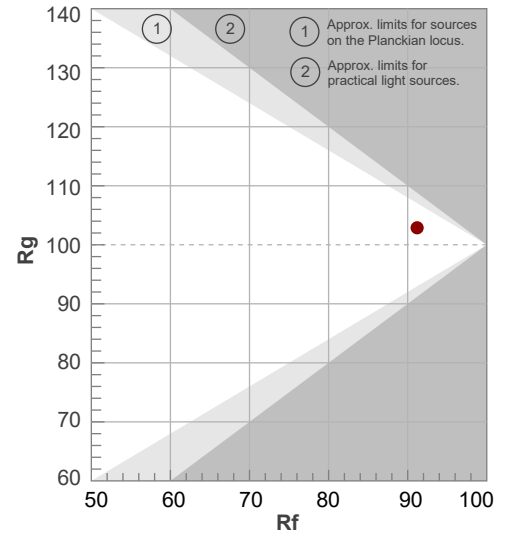
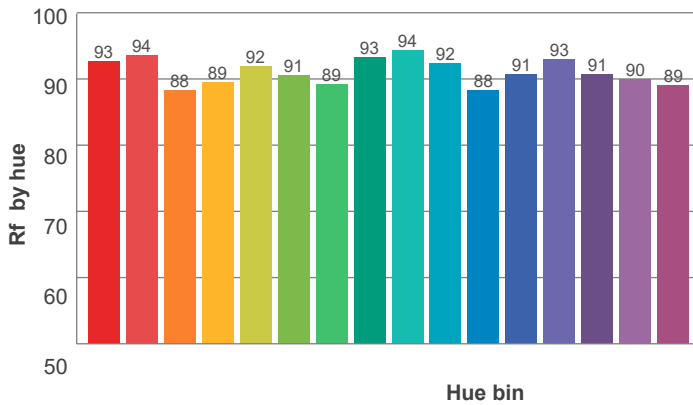
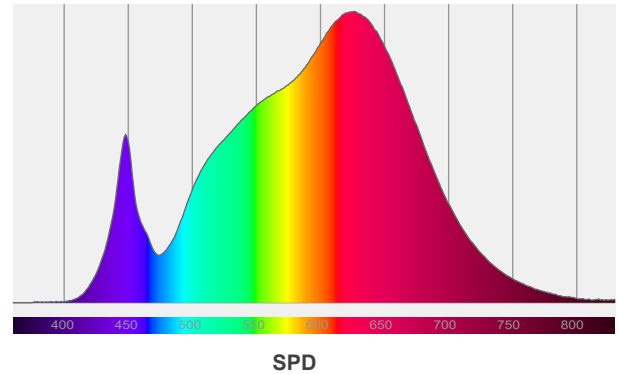
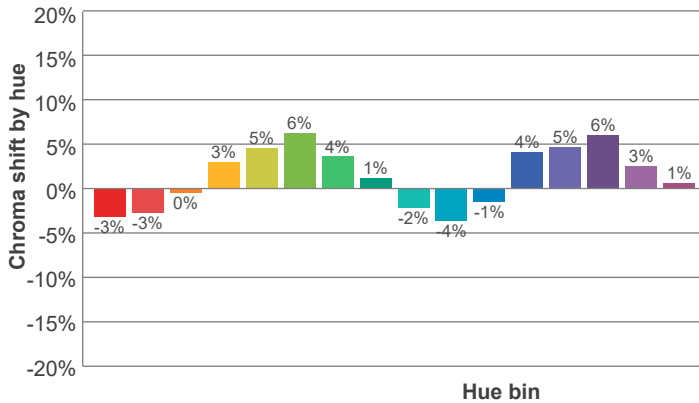


ANSI/IES TM-30-18

P: 2 / V: - / F: 2



| Hue Bin | R <sub>f</sub> | Shifts (%) |     |
|---------|----------------|------------|-----|
|         |                | Chroma     | Hue |
| 1       | 93             | -3%        | -2% |
| 2       | 94             | -3%        | 2%  |
| 3       | 88             | 0%         | 6%  |
| 4       | 89             | 3%         | 6%  |
| 5       | 92             | 5%         | 4%  |
| 6       | 91             | 6%         | 0%  |
| 7       | 89             | 4%         | -6% |
| 8       | 93             | 1%         | -4% |
| 9       | 94             | -2%        | -3% |
| 10      | 92             | -4%        | 1%  |
| 11      | 88             | -1%        | 7%  |
| 12      | 91             | 4%         | 4%  |
| 13      | 93             | 5%         | 0%  |
| 14      | 91             | 6%         | -4% |
| 15      | 90             | 3%         | -6% |
| 16      | 89             | 1%         | -9% |



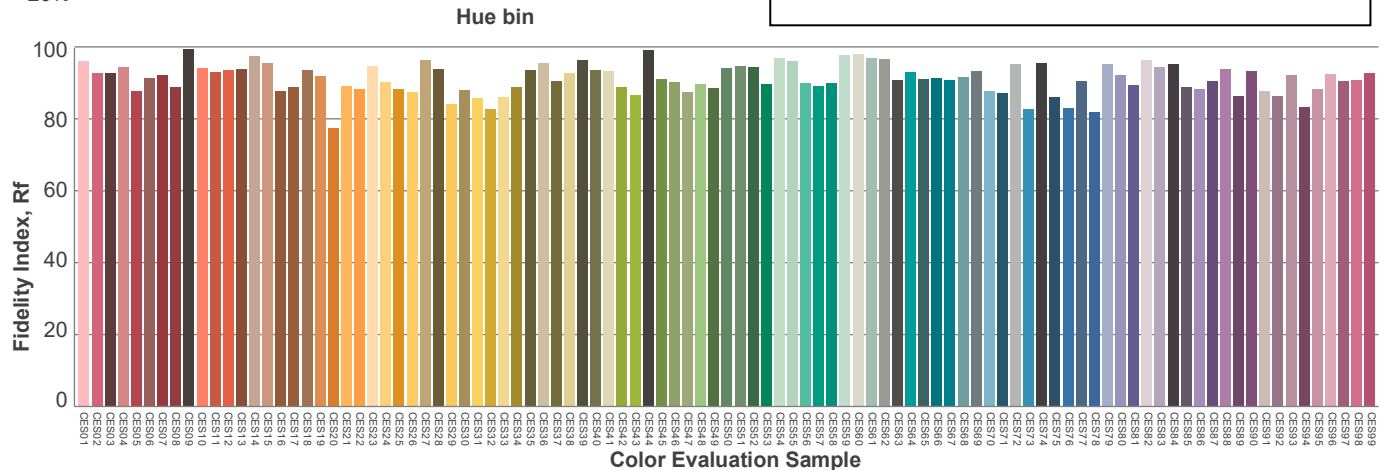
Red: 38.8%, Power=17.1mW

Blue: 6.7%, Power=5.5mW

Green: 24.8%, Power=19.7mW

UVA: 0%, Power=0.0mW

Dominant Wavelength: 583nm

1<sup>st</sup> Peak Wavelength: 626nm2<sup>nd</sup> Peak Wavelength: 448nm

## 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 = mounting height above<br>eye level<br><br>X      Y |     | Viewing direction at right angles to<br>lamp axis |      |      |      |      | Viewing direction parallel to lamp axis |      |      |      |      |
| 2H                                                                  | 2H  | 14.8                                              | 15.2 | 14.9 | 15.4 | 15.6 | 14.8                                    | 15.2 | 14.9 | 15.4 | 15.6 |
|                                                                     | 3H  | 14.5                                              | 15.1 | 14.8 | 15.3 | 15.5 | 14.5                                    | 15.1 | 14.8 | 15.3 | 15.5 |
|                                                                     | 4H  | 14.4                                              | 15.0 | 14.8 | 15.2 | 15.4 | 14.4                                    | 15.0 | 14.8 | 15.2 | 15.4 |
|                                                                     | 6H  | 14.4                                              | 14.9 | 14.7 | 15.2 | 15.5 | 14.4                                    | 14.9 | 14.7 | 15.2 | 15.5 |
|                                                                     | 8H  | 14.3                                              | 14.8 | 14.7 | 15.1 | 15.5 | 14.3                                    | 14.8 | 14.7 | 15.1 | 15.5 |
|                                                                     | 12H | 14.3                                              | 14.7 | 14.6 | 15.1 | 15.5 | 14.3                                    | 14.7 | 14.6 | 15.1 | 15.5 |
| 4H                                                                  | 2H  | 14.4                                              | 15.0 | 14.8 | 15.2 | 15.5 | 14.4                                    | 15.0 | 14.8 | 15.2 | 15.5 |
|                                                                     | 3H  | 14.3                                              | 14.8 | 14.6 | 15.1 | 15.5 | 14.3                                    | 14.8 | 14.6 | 15.1 | 15.5 |
|                                                                     | 4H  | 14.2                                              | 14.6 | 14.6 | 15.0 | 15.5 | 14.2                                    | 14.6 | 14.6 | 15.0 | 15.5 |
|                                                                     | 6H  | 14.1                                              | 14.6 | 14.6 | 14.9 | 15.2 | 14.1                                    | 14.6 | 14.6 | 14.9 | 15.2 |
|                                                                     | 8H  | 14.0                                              | 14.5 | 14.5 | 14.8 | 15.2 | 14.0                                    | 14.5 | 14.5 | 14.8 | 15.2 |
|                                                                     | 12H | 13.9                                              | 14.3 | 14.4 | 14.7 | 15.1 | 13.9                                    | 14.3 | 14.4 | 14.7 | 15.1 |
| 8H                                                                  | 4H  | 14.0                                              | 14.5 | 14.5 | 14.8 | 15.2 | 14.0                                    | 14.5 | 14.5 | 14.8 | 15.2 |
|                                                                     | 6H  | 13.9                                              | 14.2 | 14.5 | 14.7 | 15.2 | 13.9                                    | 14.2 | 14.5 | 14.7 | 15.2 |
|                                                                     | 8H  | 13.9                                              | 14.2 | 14.5 | 14.7 | 15.3 | 13.9                                    | 14.2 | 14.5 | 14.7 | 15.3 |
|                                                                     | 12H | 13.9                                              | 14.1 | 14.5 | 14.6 | 15.2 | 13.9                                    | 14.1 | 14.5 | 14.6 | 15.2 |
| 12H                                                                 | 4H  | 13.9                                              | 14.3 | 14.4 | 14.7 | 15.1 | 13.9                                    | 14.3 | 14.4 | 14.7 | 15.1 |
|                                                                     | 6H  | 13.9                                              | 14.2 | 14.5 | 14.7 | 15.3 | 13.9                                    | 14.2 | 14.5 | 14.7 | 15.3 |
|                                                                     | 8H  | 13.9                                              | 14.1 | 14.5 | 14.6 | 15.2 | 13.9                                    | 14.1 | 14.5 | 14.6 | 15.2 |
| Variation of the observer position for the luminaire distance S     |     |                                                   |      |      |      |      |                                         |      |      |      |      |
| S = 1.0H                                                            |     | 6.8 / -12.2                                       |      |      |      |      | 6.8 / -12.2                             |      |      |      |      |
| S = 1.5H                                                            |     | 9.6 / -13.4                                       |      |      |      |      | 9.6 / -13.4                             |      |      |      |      |
| S = 2.0H                                                            |     | 11.6 / -16.7                                      |      |      |      |      | 11.6 / -16.7                            |      |      |      |      |
| Corrected glare indices referring to 1579 lm total luminous flux    |     |                                                   |      |      |      |      |                                         |      |      |      |      |