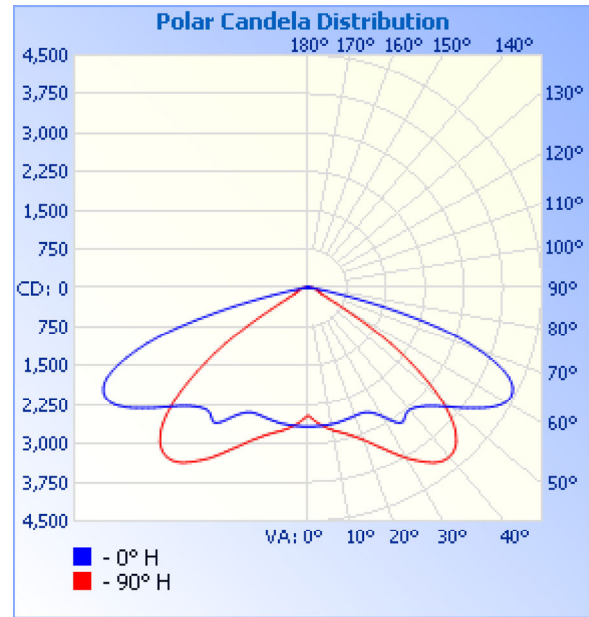


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** SSL - Slim Solar Light - 80W - IES  
**Manufacturer:** SARIN Energy Solutions  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 13753  
**Max Candela:** 4,429.7 at Horizontal: 0°, Vertical: 62°  
**Luminous Opening:** Point  
**Test Date:** 2023-05-05  
**Photometry :** Type C  
**Nema Type:** 6 X 7



### Roadway Summary

|                        |                 |             |
|------------------------|-----------------|-------------|
| Cutoff Classification: | CUTOFF          |             |
| Distribution:          | Type VS         |             |
| Max Cd, 90 Deg Vert:   | 55.3            |             |
| Max Cd, 80 to <90 Deg: | 347.5           |             |
|                        | Lumens          | % Lamp      |
| Downward Street Side:  | 6,859.6         | 49.9%       |
| Downward House Side:   | 6,859.6         | 49.9%       |
| Downward Total:        | 13,719.2        | 99.8%       |
| Upward Street Side:    | 16.7            | 0.1%        |
| Upward House Side:     | 16.7            | 0.1%        |
| Upward Total:          | 33.4            | 0.2%        |
| <b>Total Lumens:</b>   | <b>13,752.7</b> | <b>100%</b> |

### Flood Summary

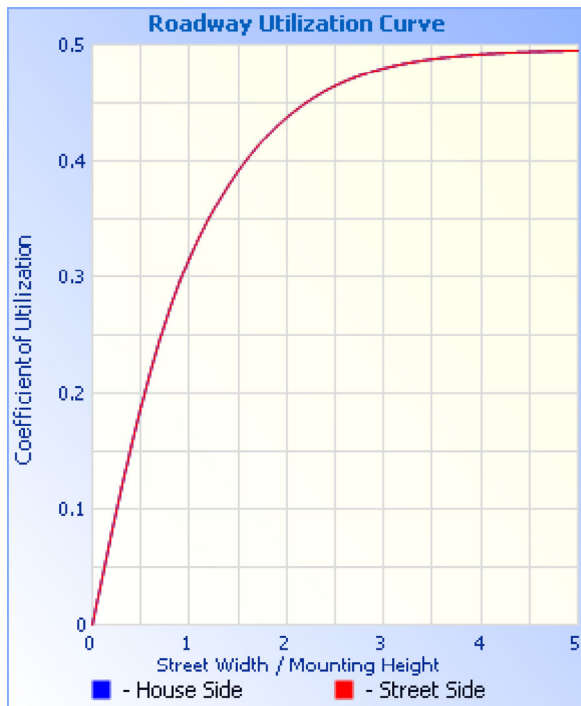
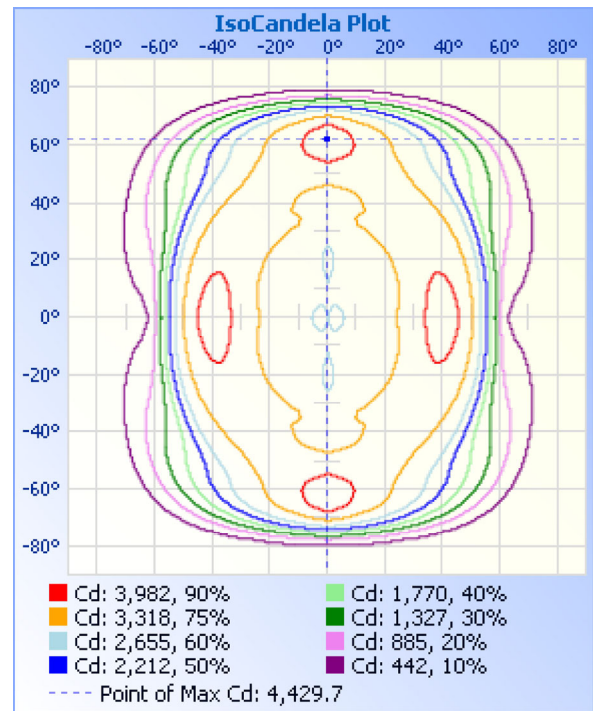
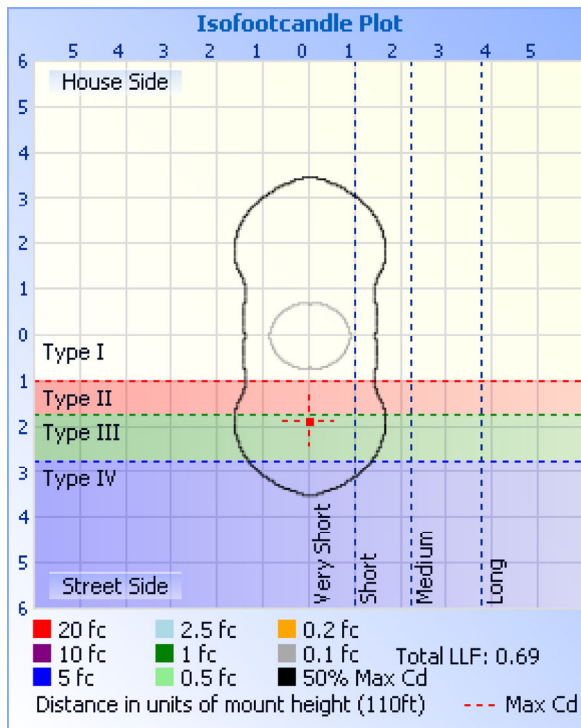
|               | Efficiency  | Lumens          | Horizontal Spread | Vertical Spread |
|---------------|-------------|-----------------|-------------------|-----------------|
| Field (10%):  | 98.1%       | 13,485.9        | 122.1             | 159.2           |
| Beam (50%):   | 86.9%       | 11,944.9        | 74.8              | 148.1           |
| <b>Total:</b> | <b>100%</b> | <b>13,747.1</b> |                   |                 |

### Zonal Lumen Summary

| Zone   | Lumens   | % Lamp | % Luminaire |
|--------|----------|--------|-------------|
| 0-30   | 2,463.8  | 17.9%  | 17.9%       |
| 0-40   | 4,705.2  | 34.2%  | 34.2%       |
| 0-60   | 10,245.7 | 74.5%  | 74.5%       |
| 60-90  | 3,472.7  | 25.3%  | 25.3%       |
| 70-100 | 1,229.8  | 8.9%   | 8.9%        |
| 90-120 | 32.9     | 0.2%   | 0.2%        |
| 0-90   | 13,718.3 | 99.7%  | 99.8%       |
| 90-180 | 33.5     | 0.2%   | 0.2%        |
| 0-180  | 13,751.8 | 100%   | 100%        |

### Lumens Per Zone

| Zone  | Lumens  | % Total | Zone    | Lumens | % Total |
|-------|---------|---------|---------|--------|---------|
| 0-10  | 255.3   | 1.9%    | 90-100  | 15.2   | 0.1%    |
| 10-20 | 791.4   | 5.8%    | 100-110 | 7.6    | 0.1%    |
| 20-30 | 1,417.1 | 10.3%   | 110-120 | 10.1   | 0.1%    |
| 30-40 | 2,241.4 | 16.3%   | 120-130 | 0.5    | 0%      |
| 40-50 | 2,784.0 | 20.2%   | 130-140 | 0      | 0%      |
| 50-60 | 2,756.5 | 20.0%   | 140-150 | 0      | 0%      |
| 60-70 | 2,258.1 | 16.4%   | 150-160 | 0      | 0%      |
| 70-80 | 1,085.7 | 7.9%    | 160-170 | 0      | 0%      |
| 80-90 | 128.9   | 0.9%    | 170-180 | 0      | 0%      |



**Illuminance at a Distance**

|       | Center Beam fc | Beam Width |         |
|-------|----------------|------------|---------|
| 3.7R  | 195 fc         | 25.9 ft    | 5.7 ft  |
| 7.3R  | 50.1 fc        | 51.1 ft    | 11.2 ft |
| 11.0R | 22.0 fc        | 77.0 ft    | 16.8 ft |
| 14.7R | 12.3 fc        | 102.9 ft   | 22.5 ft |
| 18.3R | 7.96 fc        | 128.1 ft   | 28.0 ft |
| 22.0R | 5.51 fc        | 154.0 ft   | 33.7 ft |

Vert. Spread: 148.1°  
Horiz. Spread: 74.8°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

| RCC %: | 80   |      |      |      | 70   |      |      |      | 50   |      |      | 30   |      |      | 10   |      |      | 0    |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RW %:  | 70   | 50   | 30   | 0    | 70   | 50   | 30   | 0    | 50   | 30   | 20   | 50   | 30   | 20   | 50   | 30   | 20   | 0    |
| RCR: 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.00 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 |
| 1      | 1.08 | 1.03 | .98  | .94  | 1.05 | 1.01 | .97  | .83  | .96  | .93  | .90  | .92  | .90  | .87  | .89  | .86  | .84  | .82  |
| 2      | .97  | .88  | .81  | .75  | .94  | .86  | .80  | .68  | .83  | .77  | .72  | .79  | .75  | .70  | .76  | .72  | .69  | .66  |
| 3      | .88  | .76  | .67  | .60  | .85  | .74  | .66  | .56  | .71  | .64  | .59  | .69  | .63  | .57  | .66  | .61  | .56  | .54  |

|    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4  | .79 | .66 | .57 | .50 | .77 | .65 | .56 | .47 | .62 | .55 | .48 | .60 | .53 | .48 | .58 | .52 | .47 | .45 |
| 5  | .72 | .58 | .49 | .41 | .70 | .57 | .48 | .39 | .55 | .47 | .41 | .53 | .46 | .40 | .51 | .45 | .40 | .37 |
| 6  | .66 | .52 | .42 | .35 | .64 | .51 | .42 | .34 | .49 | .41 | .35 | .47 | .40 | .34 | .45 | .39 | .34 | .32 |
| 7  | .61 | .46 | .37 | .30 | .59 | .45 | .37 | .29 | .44 | .36 | .30 | .42 | .35 | .30 | .41 | .34 | .29 | .27 |
| 8  | .56 | .42 | .33 | .26 | .55 | .41 | .32 | .26 | .40 | .32 | .26 | .38 | .31 | .26 | .37 | .31 | .26 | .24 |
| 9  | .52 | .38 | .29 | .23 | .51 | .37 | .29 | .23 | .36 | .28 | .23 | .35 | .28 | .23 | .34 | .27 | .23 | .21 |
| 10 | .49 | .35 | .26 | .21 | .47 | .34 | .26 | .20 | .33 | .26 | .20 | .32 | .25 | .20 | .31 | .25 | .20 | .18 |

**Candela Table - Type C**

|    | 0    | 90   | 180  | 270  | 360  |
|----|------|------|------|------|------|
| 0  | 2667 | 2460 | 2667 | 2460 | 2667 |
| 1  | 2668 | 2495 | 2668 | 2495 | 2668 |
| 2  | 2668 | 2531 | 2668 | 2531 | 2668 |
| 3  | 2668 | 2567 | 2668 | 2567 | 2668 |
| 4  | 2667 | 2603 | 2667 | 2603 | 2667 |
| 5  | 2667 | 2637 | 2667 | 2637 | 2667 |
| 6  | 2666 | 2668 | 2666 | 2668 | 2666 |
| 7  | 2664 | 2698 | 2664 | 2698 | 2664 |
| 8  | 2664 | 2728 | 2664 | 2728 | 2664 |
| 9  | 2662 | 2757 | 2662 | 2757 | 2662 |
| 10 | 2662 | 2781 | 2662 | 2781 | 2662 |
| 11 | 2659 | 2807 | 2659 | 2807 | 2659 |
| 12 | 2656 | 2829 | 2656 | 2829 | 2656 |
| 13 | 2651 | 2855 | 2651 | 2855 | 2651 |
| 14 | 2647 | 2882 | 2647 | 2882 | 2647 |
| 15 | 2643 | 2912 | 2643 | 2912 | 2643 |
| 16 | 2639 | 2945 | 2639 | 2945 | 2639 |
| 17 | 2635 | 2984 | 2635 | 2984 | 2635 |
| 18 | 2630 | 3023 | 2630 | 3023 | 2630 |
| 19 | 2626 | 3066 | 2626 | 3066 | 2626 |
| 20 | 2622 | 3111 | 2622 | 3111 | 2622 |
| 21 | 2620 | 3161 | 2620 | 3161 | 2620 |
| 22 | 2620 | 3216 | 2620 | 3216 | 2620 |
| 23 | 2623 | 3276 | 2623 | 3276 | 2623 |
| 24 | 2632 | 3340 | 2632 | 3340 | 2632 |
| 25 | 2645 | 3407 | 2645 | 3407 | 2645 |
| 26 | 2667 | 3474 | 2667 | 3474 | 2667 |
| 27 | 2700 | 3547 | 2700 | 3547 | 2700 |
| 28 | 2741 | 3620 | 2741 | 3620 | 2741 |
| 29 | 2792 | 3697 | 2792 | 3697 | 2792 |
| 30 | 2852 | 3769 | 2852 | 3769 | 2852 |
| 31 | 2926 | 3837 | 2926 | 3837 | 2926 |
| 32 | 3005 | 3903 | 3005 | 3903 | 3005 |
| 33 | 3082 | 3968 | 3082 | 3968 | 3082 |
| 34 | 3136 | 4032 | 3136 | 4032 | 3136 |
| 35 | 3159 | 4090 | 3159 | 4090 | 3159 |
| 36 | 3142 | 4145 | 3142 | 4145 | 3142 |
| 37 | 3101 | 4185 | 3101 | 4185 | 3101 |
| 38 | 3068 | 4214 | 3068 | 4214 | 3068 |
| 39 | 3055 | 4230 | 3055 | 4230 | 3055 |
| 40 | 3057 | 4235 | 3057 | 4235 | 3057 |
| 41 | 3073 | 4226 | 3073 | 4226 | 3073 |
| 42 | 3098 | 4201 | 3098 | 4201 | 3098 |
| 43 | 3133 | 4161 | 3133 | 4161 | 3133 |
| 44 | 3170 | 4107 | 3170 | 4107 | 3170 |
| 45 | 3216 | 4025 | 3216 | 4025 | 3216 |
| 46 | 3270 | 3943 | 3270 | 3943 | 3270 |

|    |             |      |             |      |             |
|----|-------------|------|-------------|------|-------------|
| 47 | 3331        | 3821 | 3331        | 3821 | 3331        |
| 48 | 3403        | 3681 | 3403        | 3681 | 3403        |
| 49 | 3480        | 3522 | 3480        | 3522 | 3480        |
| 50 | 3566        | 3347 | 3566        | 3347 | 3566        |
| 51 | 3655        | 3147 | 3655        | 3147 | 3655        |
| 52 | 3749        | 2924 | 3749        | 2924 | 3749        |
| 53 | 3843        | 2685 | 3843        | 2685 | 3843        |
| 54 | 3940        | 2437 | 3940        | 2437 | 3940        |
| 55 | 4034        | 2189 | 4034        | 2189 | 4034        |
| 56 | 4126        | 1921 | 4126        | 1921 | 4126        |
| 57 | 4212        | 1639 | 4212        | 1639 | 4212        |
| 58 | 4286        | 1356 | 4286        | 1356 | 4286        |
| 59 | 4349        | 1076 | 4349        | 1076 | 4349        |
| 60 | 4396        | 822  | 4396        | 822  | 4396        |
| 61 | 4423        | 617  | 4423        | 617  | 4423        |
| 62 | <b>4430</b> | 470  | <b>4430</b> | 470  | <b>4430</b> |
| 63 | 4419        | 399  | 4419        | 399  | 4419        |
| 64 | 4385        | 329  | 4385        | 329  | 4385        |
| 65 | 4326        | 287  | 4326        | 287  | 4326        |
| 66 | 4232        | 266  | 4232        | 266  | 4232        |
| 67 | 4103        | 254  | 4103        | 254  | 4103        |
| 68 | 3941        | 246  | 3941        | 246  | 3941        |
| 69 | 3746        | 234  | 3746        | 234  | 3746        |
| 70 | 3518        | 220  | 3518        | 220  | 3518        |
| 71 | 3272        | 210  | 3272        | 210  | 3272        |
| 72 | 2991        | 204  | 2991        | 204  | 2991        |
| 73 | 2647        | 203  | 2647        | 203  | 2647        |
| 74 | 2258        | 203  | 2258        | 203  | 2258        |
| 75 | 1843        | 203  | 1843        | 203  | 1843        |
| 76 | 1454        | 201  | 1454        | 201  | 1454        |
| 77 | 1065        | 192  | 1065        | 192  | 1065        |
| 78 | 747         | 178  | 747         | 178  | 747         |
| 79 | 509         | 162  | 509         | 162  | 509         |
| 80 | 348         | 149  | 348         | 149  | 348         |
| 81 | 242         | 139  | 242         | 139  | 242         |
| 82 | 193         | 131  | 193         | 131  | 193         |
| 83 | 144         | 123  | 144         | 123  | 144         |
| 84 | 122         | 115  | 122         | 115  | 122         |
| 85 | 108         | 106  | 108         | 106  | 108         |
| 86 | 98          | 97   | 98          | 97   | 98          |
| 87 | 87          | 86   | 87          | 86   | 87          |
| 88 | 74          | 74   | 74          | 74   | 74          |
| 89 | 66          | 62   | 66          | 62   | 66          |
| 90 | 55          | 49   | 55          | 49   | 55          |
| 91 | 37          | 36   | 37          | 36   | 37          |
| 92 | 24          | 25   | 24          | 25   | 24          |
| 93 | 16          | 16   | 16          | 16   | 16          |
| 94 | 11          | 7    | 11          | 7    | 11          |
| 95 | 8           | 2    | 8           | 2    | 8           |

|     |    |   |    |   |    |
|-----|----|---|----|---|----|
| 96  | 8  | 1 | 8  | 1 | 8  |
| 97  | 8  | 1 | 8  | 1 | 8  |
| 98  | 8  | 1 | 8  | 1 | 8  |
| 99  | 9  | 1 | 9  | 1 | 9  |
| 100 | 10 | 1 | 10 | 1 | 10 |
| 101 | 10 | 1 | 10 | 1 | 10 |
| 102 | 11 | 2 | 11 | 2 | 11 |
| 103 | 11 | 2 | 11 | 2 | 11 |
| 104 | 12 | 2 | 12 | 2 | 12 |
| 105 | 13 | 2 | 13 | 2 | 13 |
| 106 | 13 | 2 | 13 | 2 | 13 |
| 107 | 14 | 2 | 14 | 2 | 14 |
| 108 | 14 | 2 | 14 | 2 | 14 |
| 109 | 15 | 2 | 15 | 2 | 15 |
| 110 | 15 | 2 | 15 | 2 | 15 |
| 111 | 16 | 3 | 16 | 3 | 16 |
| 112 | 16 | 3 | 16 | 3 | 16 |
| 113 | 16 | 3 | 16 | 3 | 16 |
| 114 | 17 | 3 | 17 | 3 | 17 |
| 115 | 17 | 4 | 17 | 4 | 17 |
| 116 | 17 | 4 | 17 | 4 | 17 |
| 117 | 18 | 4 | 18 | 4 | 18 |
| 118 | 18 | 4 | 18 | 4 | 18 |
| 119 | 18 | 4 | 18 | 4 | 18 |
| 120 | 18 | 5 | 18 | 5 | 18 |
| 121 | 0  | 0 | 0  | 0 | 0  |
| 122 | 0  | 0 | 0  | 0 | 0  |
| 123 | 0  | 0 | 0  | 0 | 0  |
| 124 | 0  | 0 | 0  | 0 | 0  |
| 125 | 0  | 0 | 0  | 0 | 0  |
| 126 | 0  | 0 | 0  | 0 | 0  |
| 127 | 0  | 0 | 0  | 0 | 0  |
| 128 | 0  | 0 | 0  | 0 | 0  |
| 129 | 0  | 0 | 0  | 0 | 0  |
| 130 | 0  | 0 | 0  | 0 | 0  |
| 131 | 0  | 0 | 0  | 0 | 0  |
| 132 | 0  | 0 | 0  | 0 | 0  |
| 133 | 0  | 0 | 0  | 0 | 0  |
| 134 | 0  | 0 | 0  | 0 | 0  |
| 135 | 0  | 0 | 0  | 0 | 0  |
| 136 | 0  | 0 | 0  | 0 | 0  |
| 137 | 0  | 0 | 0  | 0 | 0  |
| 138 | 0  | 0 | 0  | 0 | 0  |
| 139 | 0  | 0 | 0  | 0 | 0  |
| 140 | 0  | 0 | 0  | 0 | 0  |
| 141 | 0  | 0 | 0  | 0 | 0  |
| 142 | 0  | 0 | 0  | 0 | 0  |
| 143 | 0  | 0 | 0  | 0 | 0  |
| 144 | 0  | 0 | 0  | 0 | 0  |

|     |   |   |   |   |   |
|-----|---|---|---|---|---|
| 145 | 0 | 0 | 0 | 0 | 0 |
| 146 | 0 | 0 | 0 | 0 | 0 |
| 147 | 0 | 0 | 0 | 0 | 0 |
| 148 | 0 | 0 | 0 | 0 | 0 |
| 149 | 0 | 0 | 0 | 0 | 0 |
| 150 | 0 | 0 | 0 | 0 | 0 |
| 151 | 0 | 0 | 0 | 0 | 0 |
| 152 | 0 | 0 | 0 | 0 | 0 |
| 153 | 0 | 0 | 0 | 0 | 0 |
| 154 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 |
| 156 | 0 | 0 | 0 | 0 | 0 |
| 157 | 0 | 0 | 0 | 0 | 0 |
| 158 | 0 | 0 | 0 | 0 | 0 |
| 159 | 0 | 0 | 0 | 0 | 0 |
| 160 | 0 | 0 | 0 | 0 | 0 |
| 161 | 0 | 0 | 0 | 0 | 0 |
| 162 | 0 | 0 | 0 | 0 | 0 |
| 163 | 0 | 0 | 0 | 0 | 0 |
| 164 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 |
| 166 | 0 | 0 | 0 | 0 | 0 |
| 167 | 0 | 0 | 0 | 0 | 0 |
| 168 | 0 | 0 | 0 | 0 | 0 |
| 169 | 0 | 0 | 0 | 0 | 0 |
| 170 | 0 | 0 | 0 | 0 | 0 |
| 171 | 0 | 0 | 0 | 0 | 0 |
| 172 | 0 | 0 | 0 | 0 | 0 |
| 173 | 0 | 0 | 0 | 0 | 0 |
| 174 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 |
| 176 | 0 | 0 | 0 | 0 | 0 |
| 177 | 0 | 0 | 0 | 0 | 0 |
| 178 | 0 | 0 | 0 | 0 | 0 |
| 179 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 |

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2023-05-05  
[TESTLAB]  
[ISSUEDATE] 2023-05-05 15:17:47  
[MANUFAC] SARIN Energy Solutions  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 13751.8  
[OTHER] EVERFINE GO-2000B\_V1 SYSTEM  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 5  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.