

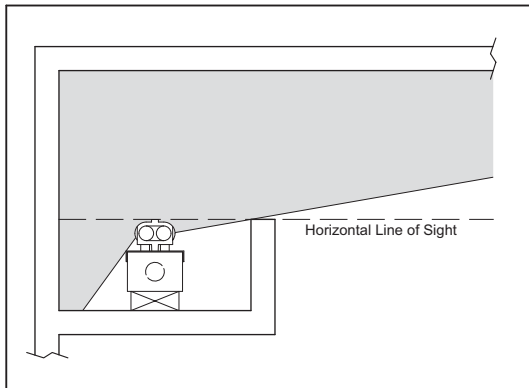
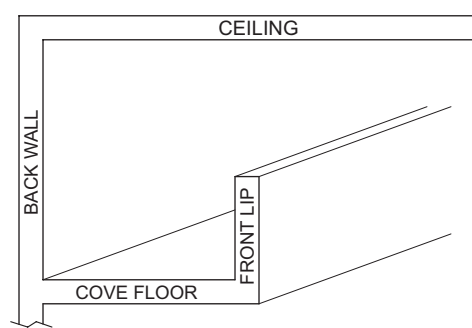
## Lighting a cove with the SYDNEY™ Field Curvable Lighting System (page 1 of 2)

Whether the required effect is a soft glowing cove or the lighting of an entire space, Sydney does the job. By following these few tips on lighting a cove with the Sydney Field Curvable Lighting System, you can achieve these requirements.

First, it is important to know the terminology of coves. There are many different terms used to describe the same elements of a cove. For the sake of discussion here, we use the terms found in the drawing to the right.

### Tip #1 - Finish

For the best results, the ceiling and inside of the cove should be finished in matte white. This will increase reflectivity and increase the overall efficiency of the lighting system.



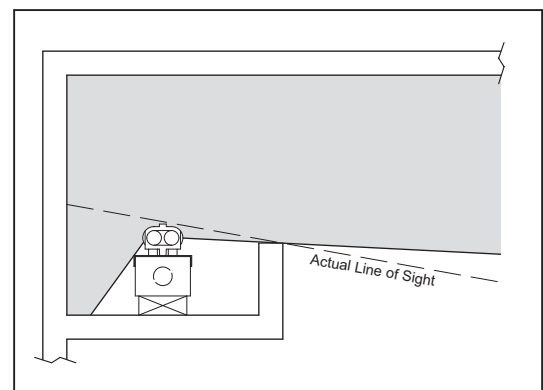
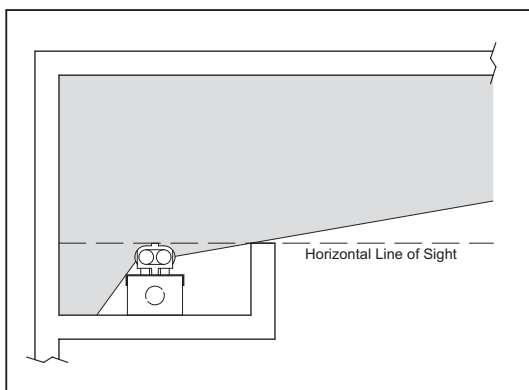
### Tip #2 - Line of Sight

If the desired effect is to get even light in the cove, but throw as much light as possible out into the space, the "line of sight" must be considered. When the fixture is installed, the top of the fixture should be as close to the line of sight as possible. In some applications a spacer (as shown in the drawing to the left) may be necessary to achieve this.

**Horizontal Line of Sight** - This is normally used in coves that are nine feet or less above the finished floor. The horizontal line of sight is found by drawing a level line from the top of the front lip of the cove to the back wall.

**Actual Line of Sight** - This method is normally used in coves that are higher than nine feet off the finished floor. To find this line of sight, find the farthest point away from the cove where the cove is still visible. Now draw a line from this point at seven feet off the finished floor to the top of the front lip and continue to the back wall.

By using one of these two methods, maximum light output will be achieved while the actual fixture and lamps will be hidden from view.



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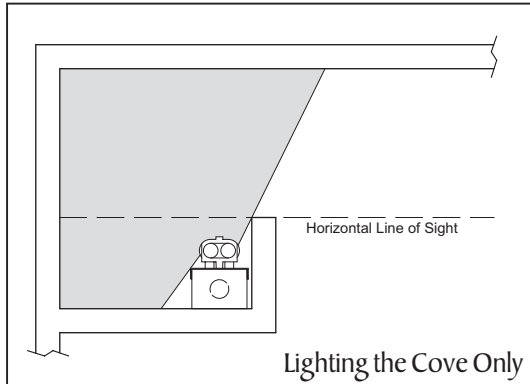
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NOTE: Specifications and dimensions are subject to change without notice.



## Lighting a cove with the SYDNEY™ Field Curvable Lighting System (page 2 of 2)

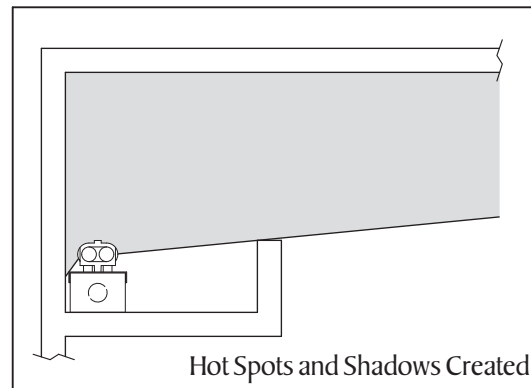
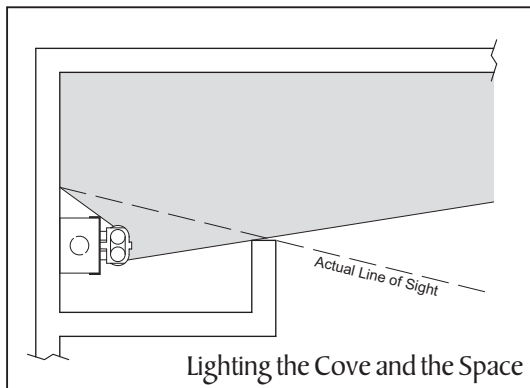


### Tip #3 - Fixture Placement

**Lighting the Cove Only** - For this effect, install the Sydney light fixtures closer to the front lip and far below the horizontal line of sight, as shown to the left. This will trap the light in the cove and make a nice accent lighting effect.

**Lighting the Cove and the Space** - Installing the Sydney light fixtures on the back wall, as shown at the lower left, will yield the best results for getting light out into the space. When using this method, the Sydney light fixture should be installed one inch below the horizontal or actual line of sight. This will help to minimize visible shadows on the back wall.

When installing Sydney on the cove floor, do not place it against the back wall, as shown below. This will make hot spots and shadows on the back wall. When using Sydney "EE", fixtures should be four to five inches away from the wall. Sydney "OL" can be installed two to three inches away from the wall. The Sydney "SM" version may be installed on the cove floor and one inch away from the back wall.



### Tip #4 - Lamp Choice

Use the charts on the Minimum Radius / Lamp Information pages to decide which lamp type is best for your specific application. Using the nine watt twin tubes in a Sydney EE model will give about 870 lumens per foot, which is ideal for subtle lighting as described in the "Lighting the Cove Only" section above. 55 watt long twin tubes in a Sydney EE or OL model installed on the back wall will make a dramatic showing in the cove and out into the open space. Depending on the lamp used, Sydney can give anywhere from 800 to 4,500 lumens per foot.

Many factors go into deciding which lamp and Sydney model may be best for a given application. If you have a desired effect, but you are not sure which lamp to use, feel free to contact the factory for support.

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## LAMP INFORMATION

| "EE"<br>MODELS | LAMP TYPE<br>(NEMA) | INITIAL LUMENS<br>PER LAMP | LUMENS<br>PER FOOT | AVERAGE<br>RATED LIFE |
|----------------|---------------------|----------------------------|--------------------|-----------------------|
| SYD-9T-EE      | CFT9W/G23           | 580                        | 870                | 10,000 hrs.           |
| SYD-13T-EE     | CFT13W/GX23         | 800                        | 1,200              | 10,000 hrs.           |
| SYD-18Q-EE     | CFQ18W/G24q         | 1,250                      | 1,875              | 10,000 hrs.           |
| SYD-18T-EE     | FT18W/2G11/RS       | 1,250                      | 1,250              | 20,000 hrs.           |
| SYD-24T-EE     | FT24W/2G11          | 1,800                      | 1,620              | 12,000 hrs.           |
| SYD-26Q-EE     | CFQ26W/G24q         | 1,800                      | 2,700              | 10,000 hrs.           |
| SYD-32H-EE     | CFM32W/GX24q        | 2,400                      | 3,600              | 10,000 hrs.           |
| SYD-39T-EE     | FT36W/2G11          | 2,900                      | 2,030              | 12,000 hrs.           |
| SYD-40T-EE     | FT40W/2G11/RS       | 3,150                      | 1,575              | 20,000 hrs.           |
| SYD-42H-EE     | CFM42W/GX24q        | 3,200                      | 4,800              | 10,000 hrs.           |
| SYD-50T-EE     | FT50W/2G11/RS       | 4,000                      | 2,000              | 14,000 hrs.           |
| SYD-55T-EE     | FT55W/2G11          | 4,800                      | 2,688              | 12,000 hrs.           |
| SYD-80T-EE     | FT80W/2G11          | 6,000                      | 3,000              | 12,000 hrs.           |

| "OL"<br>MODELS | LAMP TYPE<br>(NEMA) | INITIAL LUMENS<br>PER LAMP | LUMENS<br>PER FOOT | AVERAGE<br>RATED LIFE |
|----------------|---------------------|----------------------------|--------------------|-----------------------|
| SYD-9T-OL      | CFT9W/G23           | 580                        | 1,740              | 10,000 hrs.           |
| SYD-13T-OL     | CFT13W/GX23         | 800                        | 2,400              | 10,000 hrs.           |
| SYD-18T-OL     | FT18W/2G11/RS       | 1,250                      | 1,875              | 20,000 hrs.           |
| SYD-24T-OL     | FT24W/2G11          | 1,800                      | 2,052              | 12,000 hrs.           |
| SYD-39T-OL     | FT36W/2G11          | 2,900                      | 2,494              | 12,000 hrs.           |
| SYD-40T-OL     | FT40W/2G11/RS       | 3,150                      | 1,890              | 20,000 hrs.           |
| SYD-50T-OL     | FT50W/2G11/RS       | 4,000                      | 2,400              | 14,000 hrs.           |
| SYD-55T-OL     | FT55W/2G11          | 4,800                      | 3,120              | 12,000 hrs.           |
| SYD-80T-OL     | FT80W/2G11          | 6,000                      | 3,600              | 12,000 hrs.           |

| "SM"<br>MODELS | LAMP TYPE<br>(NEMA) | INITIAL LUMENS<br>PER LAMP | LUMENS<br>PER FOOT | AVERAGE<br>RATED LIFE |
|----------------|---------------------|----------------------------|--------------------|-----------------------|
| SYD-9T-SM      | CFT9W/G23           | 580                        | 870                | 10,000 hrs.           |
| SYD-13T-SM     | CFT13W/GX23         | 800                        | 1,200              | 10,000 hrs.           |
| SYD-18Q-SM     | CFQ18W/G24q         | 1,250                      | 1,875              | 10,000 hrs.           |
| SYD-18T-SM     | FT18W/2G11/RS       | 1,250                      | 1,250              | 20,000 hrs.           |
| SYD-24T-SM     | FT24W/2G11          | 1,800                      | 1,620              | 12,000 hrs.           |
| SYD-26Q-SM     | CFQ26W/G24q         | 1,800                      | 2,700              | 10,000 hrs.           |
| SYD-39T-SM     | FT36W/2G11          | 2,900                      | 2,030              | 12,000 hrs.           |
| SYD-40T-SM     | FT40W/2G11/RS       | 3,150                      | 1,575              | 20,000 hrs.           |
| SYD-50T-SM     | FT50W/2G11/RS       | 4,000                      | 2,000              | 14,000 hrs.           |
| SYD-55T-SM     | FT55W/2G11          | 4,800                      | 2,688              | 12,000 hrs.           |
| SYD-80T-SM     | FT80W/2G11          | 6,000                      | 3,000              | 12,000 hrs.           |

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