



Outdoor Light Fixture Replacement Options

You may feel like you're in a maze when you go to select outdoor light fixtures to replace old light pollution producing fixtures. These options are certainly not a complete list. The hope is that this will get you started and the ones at <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> will also guide your selections.

Fixtures are grouped by common names even though many fixtures could fit in more than one category. As an example, a so-called "Barn Light" could also be called more generically an "Area Light" or a "Security Light".

Select the lowest Kelvin rating offered and ask for one with the least amount of light in the blue spectrum. Due to demand more luminaires are being offered in amber or around 2000 Kelvin.

Your mission, should you choose to accept it, is to Test Every Selection Using the Five Principles of Responsible Lighting

LIGHT TO PROTECT THE NIGHT
Five Principles for Responsible Outdoor Lighting



USEFUL		ALL LIGHT SHOULD HAVE A CLEAR PURPOSE Before installing or replacing a light, determine if light is needed. Consider how the use of light will impact the area, including wildlife and the environment. Consider using reflective paints or self-luminous markers for signs, curbs, and steps to reduce the need for permanently installed outdoor lighting.
TARGETED		LIGHT SHOULD BE DIRECTED ONLY TO WHERE NEEDED Use shielding and careful aiming to target the direction of the light beam so that it points downward and does not spill beyond where it is needed.
LOW LIGHT LEVELS		LIGHT SHOULD BE NO BRIGHTER THAN NECESSARY Use the lowest light level required. Be mindful of surface conditions as some surfaces may reflect more light into the night sky than intended.
CONTROLLED		LIGHT SHOULD BE USED ONLY WHEN IT IS USEFUL Use controls such as timers or motion detectors to ensure that light is available when it is needed, dimmed when possible, and turned off when not needed.
COLOR		USE WARMER COLOR LIGHTS WHERE POSSIBLE Limit the amount of shorter wavelength (blue-violet) light to the least amount needed.



REMEMBER:

This is just a small sample list. Check the IDA list online and use the Five Principles of Responsible Lighting to select others.

Area, Security, Shoe Box, Cobra Head & Barn (NEMA Head) Type Fixtures

Original Fixtures



Option 1



Acuity Brands DSX0 or DSX1 with 360 degree add on shielding (usually from 1 inch to 2.5 inches on each side).
<https://www.acuitybrands.com/products/detail/196671/lithonia-lighting/d-series-area-size-0/dsx0-led-area-luminaire>

Option 2

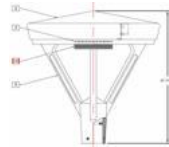


Crossroads LED Astrophile series and their dark sky compliant product line. Amber and LEDs rated at 2400 Kelvin and less are preferred.
<https://crossroadsled.com/lighting-products/phosphor-converted-amber-street-lights/>




Option 3





The CHU in amber with their optional one-inch shield. 2700K with lowest number of LEDs is acceptable. https://www.ela-lighting.com/pdf/update/CHU_Chute_LED.pdf









Note the very good optional shield in this drawing.







<p>Option 4</p> 	<p>Sellux Saturn Cutoff with 2700K option (ask about amber). https://www.selux.us/usa/en/exterior/products/saturn#downloads</p>
<p>Option 5</p> 	<p>Cooper Lighting Streetworks; preferred is the 2200K option but the 2700K option is acceptable; https://www.cooperlighting.com/content/cooper-lighting/us/en/brands/streetworks/pmm-mesa.html</p>
<p>Option 6</p>  <p>External 360 Full Visor</p>	<p>Lithonia RSX1 with the Exterior 360 Full Visor; https://www.acuitybrands.com/products/detail/885168/lithonia-lighting/rsx1-led-area-luminaire/up-to-17000-lumens</p>






Wall Packs (Usually Commercial)

<p>Original</p>	
<p>Option 1</p> 	<p>Pick the 2700 Kelvin option unless they have a lower Kelvin option when you are selecting it. https://www.acuitybrands.com/products/detail/1008034/lithonia-lighting/wdge1-led-wall-mount/architectural-wall-luminaire-size-1---up-to-2000-lumens</p>
<p>Option 2</p>	<p>So many manufacturers make this style. Make sure the top is closed (i.e. downlight only) and that you can either use your own bulb or the Kelvin rating / CCT is Amber or absolutely no higher than 2700 K. If you can use your own</p>







	<p>bulb, you can pick a comfortable 2200K or 2400K. As always, ensure the bulb does NOT protrude below the metal of the fixture.</p>
<p>Option 3</p> 	<p>Turtle Friendly Costal Wildlife amber LED with baffle</p>
<p>Option 4</p> 	<p>Envirolux Sphere Wallpack available in Amber and 2700K</p>
<p>Option 5</p> 	<p>EcoLights; 500 lumens and less http://www.csbg.ca/ECOLIGHT.HTM</p>
<p>Option 6</p> 	<p>Ligman Lighting UQU Quarter 1 Surface IF you select the Amber option and the Frosted Lens. The 2700 K option with the Frosted Lens should be okay when mounted low enough to mitigate the >1 Glare Rating.</p>
<p>Alternate Option</p> 	<p>Cover the old wall pack with a RAB Shade. This won't reduce your electric bill like replacing it with a new more efficient fixture would if the fixture is a bit old.</p>

Wall Sconces (Usually Residential)





<p>Original</p>	
<p>Option 1</p> 	<p>If the bulb is pointing down, you can shield the bulb and keep the fixture. Progress Lighting lamp shield from Loews Home Improvement. Here's an example & another style:</p> 
<p>Option 2</p> 	<p>Designers Fountain Bayport at Loews Home Improvement. Be sure to get the size that is large enough to cover the bulb you want to use in it.</p>
<p>Option 3</p> 	<p>Ripley Collection dark sky outdoor wall light</p>
<p>Option 4</p> 	<p>Pine Slope fixture with your (2400K) bulb.</p>

<p>Option 5</p> 	<p>Rickey Outdoor Barn Light – use your own (2400K) bulb.</p>
<p>Option 6</p> 	<p>Pine Slope fixture with your (2400K) bulb.</p>
<p>Option 7</p> 	<p>Sage Ridge fixture with your (2400K) very short bulb.</p>
<p>Option 8</p> 	<p>Possini Euro Ratner 3000K LED wall light (I would prefer it with 2400K but this is acceptable.)</p>
<p>Option 9</p> 	<p>Under a completely closed canopy, this type of specialty fixture works beautifully. It emits light upwards to illuminate the underneath of the canopy and downward to illuminate the walkway. The fixture hides the light sources and prevents glare.</p>


Spot or Flood Lights




<p>Original</p>	
<p>Option 1</p> 	<p>Bullet style fixture with long shroud.</p>
<p>Option 2</p> 	<p>Commercial Electric's Ultra Slim Color Selectable (select 2700K) recessed integrated LED.</p>
<p>Option 3</p> 	<p>Generation Lighting Flood Light Sea Gull Collection (your bulb)</p>
<p>Option 4</p> 	<p>Access Lighting 1 light 2800 Kelvin LED Fin Collection</p>
<p>Option 5</p> 	<p>MIK Solutions LED Spot Light with 2700 Kelvin bulb sold separately.</p>

Post Top Fixtures



Original	
Option 1 	Designers Fountain Bayport post top at Loews
Option 2 	Ripley Collection 16 inch high post light
Option 3 	Capital Lighting Dark Sky Outdoor Lantern; Model: 94450B






Sign Lighting

Original	
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<p>Option 1</p> 	<p>Many manufactures make RLM style fixtures which is perfect for illumination of signs. Be careful to ensure that the bulb does NOT extend below the metal of the fixture.</p>
<p>Option 2</p> 	<p>A good example of reverse lighting of the letters in a sign.</p>
<p>Option 3</p> 	<p>The photo on the left was taken of the sign during the day. The one on the right was taken of the sign during the night. Note the way the sign maker restricted the internal illumination from most of the sign at night. It didn't take much to make the sign show up without causing excessive glare.</p>

Path Lighting

<p>Original</p>	
<p>Option 1</p> 	<p>Selux Inula Bollard with <u>Amber</u> CCT selection. https://www.selux.us/usa/en/interior/products/inula#downloads</p>

<p>Option 2</p> 	<p>Numerous manufactures offer similar fully shielded path lighting. Be sure the color temperature is 2700 Kelvin or less and that the amount of light is not too bright. The ambient light around the area will determine how much light you need to see the path. The darker the area the less light it will take for you to see well. A bright light in a very dark area will just cause the space beyond the path to be even darker and keep you from seeing it too.</p>
<p>Option 3</p> 	<p>EcoLights; 500 lumens and less http://www.csbg.ca/ECOLIGHT.HTM</p>
<p>Flag Lighting</p>	
<p>Original</p>	 <p>Yes, all of those were for supposedly for two flags.</p>
<p>Option 1</p> 	<p>Eagle Mountain Stargazer Flag Light if you select the Amber or 3000 Kelvin model</p>
<p>Option 2</p> 	<p>Use a shielded light from above and close to the flag.</p>

Sports Field Lighting

Original



Notes:

No matter what manufacturer: **Sports lighting should NOT be installed on top of a hill.**

Have the lighting plan reviewed and evaluated by the International Dark-Sky Sports Field Community Friendly Lighting Criteria.

<https://www.darksky.org/our-work/lighting/lighting-for-industry/apply-osl/>

Example of **Best Option** where only the fields are illuminated, very little light trespass, and the sports lighting is NOT used for the surrounding areas (like parking).



Light Bulbs

Option 1



If you have fixtures that are “eye candy” that you don’t want to replace, try putting flicker flame bulbs in them and use another light source to illuminate the area. The porch with this light has fixtures recessed in the ceiling for illumination.

Option 2



This is a great bulb to use in any fixture but especially when the socket is pointed down. It can ‘save’ a fixture that otherwise would need to be replaced.

TCP Dimmable 7W 2400K Par20 LED bulb

Option 3



Bulbrite Dimmable 5W 2200K vintage G25 filament LED bulb

Option 4







Maxlite Dimmable 6.5 W 2000K vintage filament LED bulb

Option 5



QLS 4W 2200K decorative vintage filament LED bulb

<p>Option 6</p> 	<p>GE Dimmable 10W 2700K A19 LED bulb works well when you absolutely must have some white light. Try one with a rating of 2000 Kelvin to 2400 Kelvin first.</p>
<p>Option 7</p> 	<p>Sunlite 12W Sea Turtle and Wildlife certified orange LED lamp.</p>
<p>Option 8</p> 	<p>Sunlite 3W Sea Turtle and Wildlife certified LED lamp</p>
<p>Option 9</p> 	<p>Emery Allen dimmable 5W 2700K LED bulb; Here is that short bulb you may need to reduce glare and hide the light source in a fixture.</p>
<p>Last Option</p>	<p>There are lots more great bulbs out there. Look for bug lights when appropriate and otherwise, look for light bulbs rated around 2000K to 2400K. If you can't find one, then use one that's 2700K. Those are abundant.</p>