

# floodlight

solutions

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## VERSATILE

Featuring output up to 220 Watts of energy efficient LED sources, provides the designer with a unique set of “tools” to creatively enhance the visual effects of each project while reducing energy and maintenance costs.

## FUNCTIONAL

These luminaires are designed as direct replacements for Quartz, Compact Fluorescent, Metal Halide, and High Pressure Sodium from 50Watt thru 1000Watt with beam spreads to meet all floodlighting application needs. The choice of beam patterns eliminates spill light and light trespass making it an ideal instrument for lighting commercial facilities in both residential and urban settings.

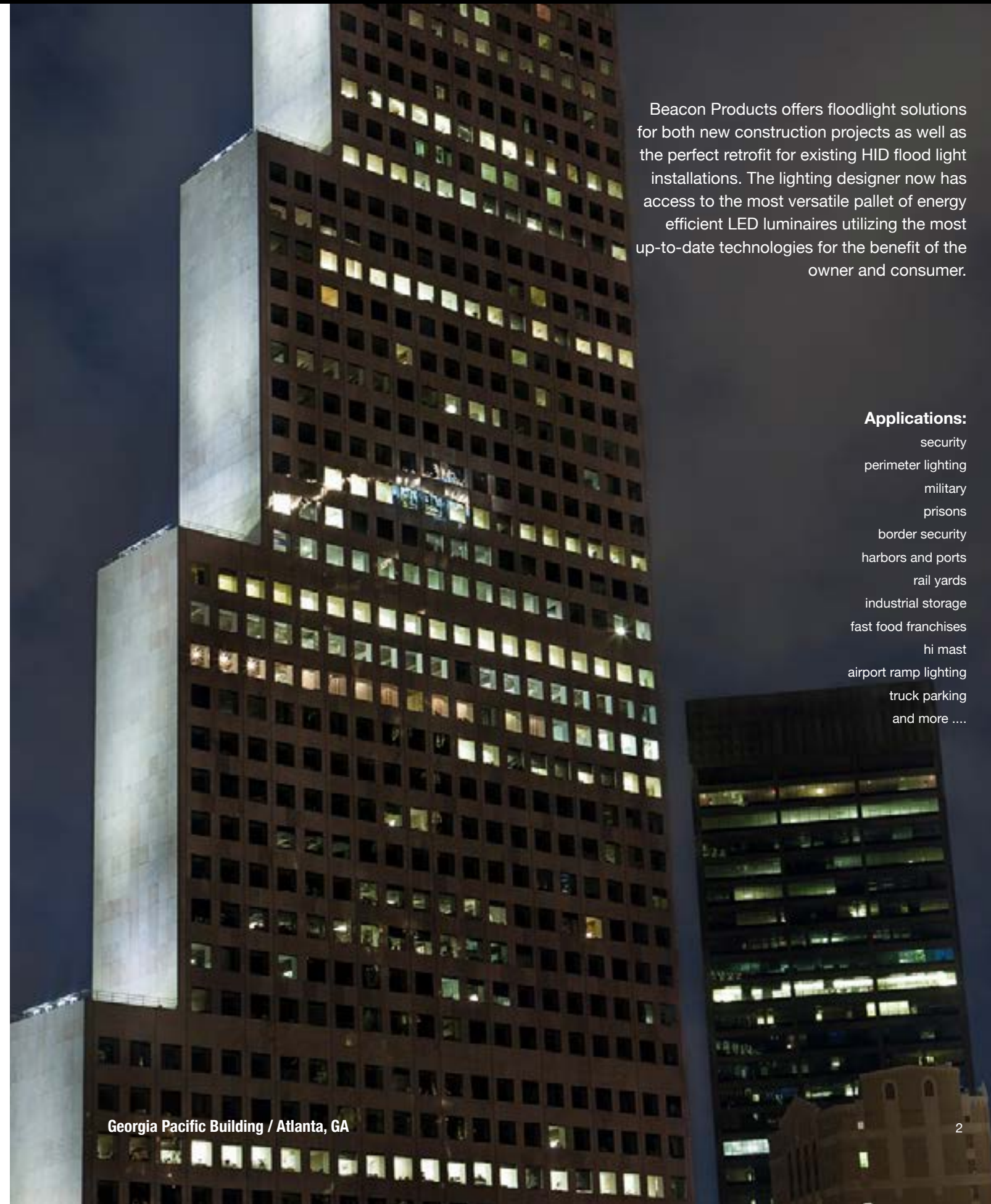
## COMPATIBLE

- 6 beam spreads
- 3CCT - Color Temps
- Many architectural and functional mounting options
- Many light control accessory options

Beacon Products offers floodlight solutions for both new construction projects as well as the perfect retrofit for existing HID flood light installations. The lighting designer now has access to the most versatile pallet of energy efficient LED luminaires utilizing the most up-to-date technologies for the benefit of the owner and consumer.

### Applications:

- security
- perimeter lighting
- military
- prisons
- border security
- harbors and ports
- rail yards
- industrial storage
- fast food franchises
- hi mast
- airport ramp lighting
- truck parking
- and more ....



Georgia Pacific Building / Atlanta, GA

# Beamspreads

The light distribution of a floodlight is known as the “beam spread”. The beam spread is classified by a NEMA designation. The “NEMA Type” is determined by two angles Horizontal and Vertical where the light intensity is 10% of the maximum beam intensity.

The NEMA designation determines how wide or narrow the light is projected out of a floodlight. Below is the NEMA type and beam description.

*For example: If the Horizontal Beam spread is 100° and the Vertical Beam Spread is 46° then, according to the chart to the right, we find the angles and see that the NEMA type is 5 x 3.*



Beam Spread (°)	NEMA Type	Beam Description
10° up to 18°	1	Very Narrow
18° up to 29°	2	Narrow
29° up to 46°	3	Medium Narrow
46° up to 70°	4	Medium
70° up to 100°	5	Medium Wide
100° up to 130°	6	Wide
130° and up	7	Very Wide

\* NEMA – National Electrical Manufacturers Association

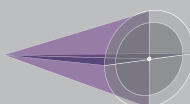
## Six Standard Beamspreads

### Narrow Spot 2 x 2



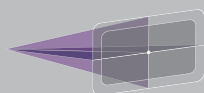
The narrow spot distribution is ideal for applications where a tighter beam is required. The narrow spot is excellent for applications with far setbacks or longer distances such as flagpoles or tall trees.

### Narrow Flood 4 x 4



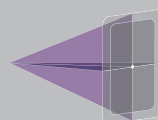
The narrow flood provides a concentrated distribution for applications requiring a tight symmetrical distribution. It is ideal for accenting sculptures, landscape and façade lighting with farther setbacks.

### Horizontal Flood 5 x 3



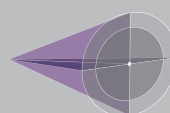
The horizontal flood provides a wide horizontal beam with a narrow vertical concentration. It is ideal for applications requiring a wide horizontal coverage area with a shorter setback and can also be used in building mounted applications for grazing and accentuating architecture.

### Vertical Flood 3 x 5



The vertical flood distribution is ideal for applications requiring a tall, tight distribution such as tall facades and signage with a limited setback.

### Medium Flood 5 x 5



The medium flood is designed for applications that require a wider uniform pattern with a medium setback such as facades, under canopies, signage and general landscape applications.

### Wide Flood 6 x 6



The wide flood provides a large and uniform light pattern that is ideal for applications with a shorter setback. The wide flood is ideal for signage, large facades and broad landscape foliage. It is also ideal for pole mounted applications for general area lighting applications.

ALPHA									
Beam Pattern	NEMA type	Beam Angle (50% of max candela)	Field Angle (10% of max candela)	Max Candela	Lumens	LPW	Max Candela	Lumens	LPW
2x2 narrow spot	2 H x 2 V	17.4 H x 17.2 V	32.3 H x 32.5 V	45,920	5,680	104.5	68,881	8,520	104.5
4x4 narrow flood	4 H x 4 V	28.1 H x 29.4 V	52.4 H x 51.8 V	18,255	5,627	103.8	27,383	8,440	103.7
5x5 medium flood	5 H x 5 V	66.8 H x 67.3 V	97.0 H x 96.3 V	8,342	5,042	91.7	12,514	7,563	92.3
6x6 wide flood	6 H x 6 V	72.0 H x 74.9 V	102.2 H x 101.6 V	4,449	5,603	101.8	6,674	8,404	102.5
5x3 horizontal flood	5 H x 3 V	56.2 H x 22.7 V	82.3 H x 46.4 V	8,342	5,032	91.6	12,514	7,547	92.3
3x5 vertical flood	3 H x 5 V	22.8 H x 56.1 V	46.7 H x 83.8 V	8,342	5,042	91.6	12,514	7,566	92.3
2x2 narrow spot	2 H x 2 V	17.4 H x 17.2 V	32.3 H x 32.5 V	114,802	14,200	104.5	164,385	20,333	96.2
4x4 narrow flood	4 H x 4 V	28.1 H x 29.4 V	52.4 H x 51.8 V	46,635	14,066	103.7	65,349	20,143	95.3
5x5 medium flood	5 H x 5 V	66.8 H x 67.3 V	97.0 H x 96.3 V	20,856	12,605	92.8	30,024	18,146	82.5
6x6 wide flood	6 H x 6 V	72.0 H x 74.9 V	102.2 H x 101.6 V	11,123	14,024	103.3	16,089	20,260	92.1
5x3 horizontal flood	5 H x 3 V	56.2 H x 22.7 V	82.3 H x 46.4 V	20,856	12,579	93.0	30,024	18,108	82.5
3x5 vertical flood	3 H x 5 V	22.8 H x 56.1 V	46.7 H x 83.8 V	20,856	12,611	93.0	30,024	18,153	82.5



## LED BEZEL

### cartridge bezel system

The 'Heart' of Beacon Products leadership in utilizing the latest in LED technology is incorporated in the unique LED bezel with optics specifically designed to provide the highest efficiency and utilization required.

With Beacon's specially designed optical-grade acrylic lenses, each bezel produces the selected light distribution which eliminates light trespass, reduces glare and maintains uniformity regardless of the mounting height. This modular component is featured in many of the Beacon Products luminaires, including the Genesis, Genesis-2X, Urban, Endura, Aurora, Traverse, and Cruzer.

The Cadet bezel lets you easily change the fixture output directly in the field to four different nominal levels: 100%, 75%, 50%, and 25%. This technology gives you the ability to fine tune energy conservation and lighting layout in the field and adjust to various conditions as needed.

## SUPERIOR DESIGN

### thermal regulation circuit

Ambient temperatures in which outdoor luminaires operate differ widely because of geographic and climatic variations. Because of this, LED luminaires may be subjected to temperatures in excess of their rated operating temperatures. Beacon Products has developed a circuit that counters this damaging effect by controlling drive current to the LEDs and when necessary, reduces that current (using a dimming driver) to ensure the maximum operating temperature of the LED itself is not exceeded.

- Extremely Accurate
- Controls total power at the LED
- Prevents premature failure of LED caused by "Day-Burners"
- Assures Maximum Life of the LED
- Low Power Consumption
- Geographically compatible

## SOLAR

### environmentally powered

As we design our lighted spaces to become environmentally friendly, we often look at the opportunity to utilize the sun as our source of power. LED lighting is a natural component of this type of lighting because LED luminaires have high light output, and very low power consumption.







# Current @

## **Current - HLI Brands**

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Greenville, SC 29607

[currentlighting.com/beacon](http://currentlighting.com/beacon)

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