# floodlight solutions







25W LED

## VERSATILE

The versatility of these three luminaires, 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.

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55 W LED

## **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**

- 3 distinct LED luminaires
- Over 375 options .
- Wattages from 25W thru 220W
- 6 beam spreads
- 3CCT Color Temps
- Many architectural and functional mounting options
- Many light control accessory options



55W - 220W LED

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#### Beacon products brings to you the most complete family of floodlights.

No. CALLER

SW(X)=

a look and the state

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 ....

21 E

12 2

# performance

#### floodlight solutions

**ALPHA** 

## **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  $100^{\circ}$  and the Vertical Beam Spread is  $46^{\circ}$  then, according to the chart to the right, we find the angles and see that the NEMA type is 5 x 3.

## **Six Standard Beamspreads**

FL-1	CADET
P	

Beam Spread (°)	<b>NEMA Туре</b>	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

**Narrow Spot** 2 × 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.

#### 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.

#### Medium Flood $5 \times 5$



he medium flood is designed for applications that require a vider uniform pattern with a medium setback such as facades, inder canopies, signage and general landscape applications.





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.

## Vertical Flood $3 \times 5$



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

## Wide Flood $6 \times 6$

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.

FL-1						
Beam Pattern	NEMA type	Beam Angle (50% of max candela)	<b>Field Angle</b> (10% of max candela)	Max Candela	Lumens	LPW
2x2 narrow spot	2 H x 2 V	16.4 H x 15.9 V	33.1 H x 32.7 V	18311	2287	91
4x4 narrow flood	4 H x 4 V	28.6 H x 29.4 V	53.3 H x 53.3 V	6885	2292	92
5x5 medium flood	5 H x 5 V	66.8 H x 67.3 V	97.0 H x 96.3 V	1715	2063	83
6x6 wide flood	6 H x 6 V	72.0 H x 74.9 V	102.2 H x 101.6 V	1630	2232	89
5x3 horizontal flood	5 H x 3 V	56.2 H x 22.7 V	82.3 H x 46.4 V	3270	1865	75
3x5 vertical flood	3 H x 5 V	22.7 V x 56.2 H	46.7 H x 83.8 V	3270	1866	75

CADET						
Beam Pattern	NEMA type	Beam Angle (50% of max candela)	Field Angle (10% of max candela)	Max Candela	Lumens	LPW
2x2 narrow spot	2 H x 2 V	16.4 H x 15.9 V	33.1 H x 32.7 V	39,015	5,046	87.0
4x4 narrow flood	4 H x 4 V	28.6 H x 29.4 V	53.3 H x 53.3 V	16,332	5,225	90.2
5x5 medium flood	5 H x 5 V	63.9 H x 64.6 V	96.1 H x 96.5 V	4,370	4,966	85.7
6x6 wide flood	6 H x 6 V	88.5 H x 89.6 V	107.9 H x 107.9 V	3,311	5,061	89.3
6x6 wide flood Half Visor	6 H x 6 V	66.2 H x 71.0 V	100.8 H x 99.1 V	3,645	4,375	63.0
6x6 wide flood Full VIsor	6 H x 6 V	61.5 H x 58.2 V	97.4 H x 96.0 V	3,647	3,643	63.0
5x3 horizontal flood	5 H x 3 V	57.4 H x 24.0 V	93.5 H x 57.4 V	7,191	4,307	74.4
3x5 vertical flood	3 H x 5 V	24.0 H x 57.4 V	57.4 H x 93.5 V	7,191	4,307	74.4

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

ALPHA (con't)									
Beam Pattern	NEMA type	Beam Angle (50% of max candela)	<b>Field Angle</b> (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	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

## FL-1 / Cadet / Alpha

All test data based on 5000K. For 3000K and 4000K data, go to beaconproducts.com

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## 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.

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## LIFESHIELD™

#### 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
- Low Power Consumption

Assures Maximum Life of the LED

floodlight solutions

- Prevents premature failure of LED caused by "Day-Burners"
- 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.

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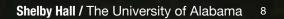


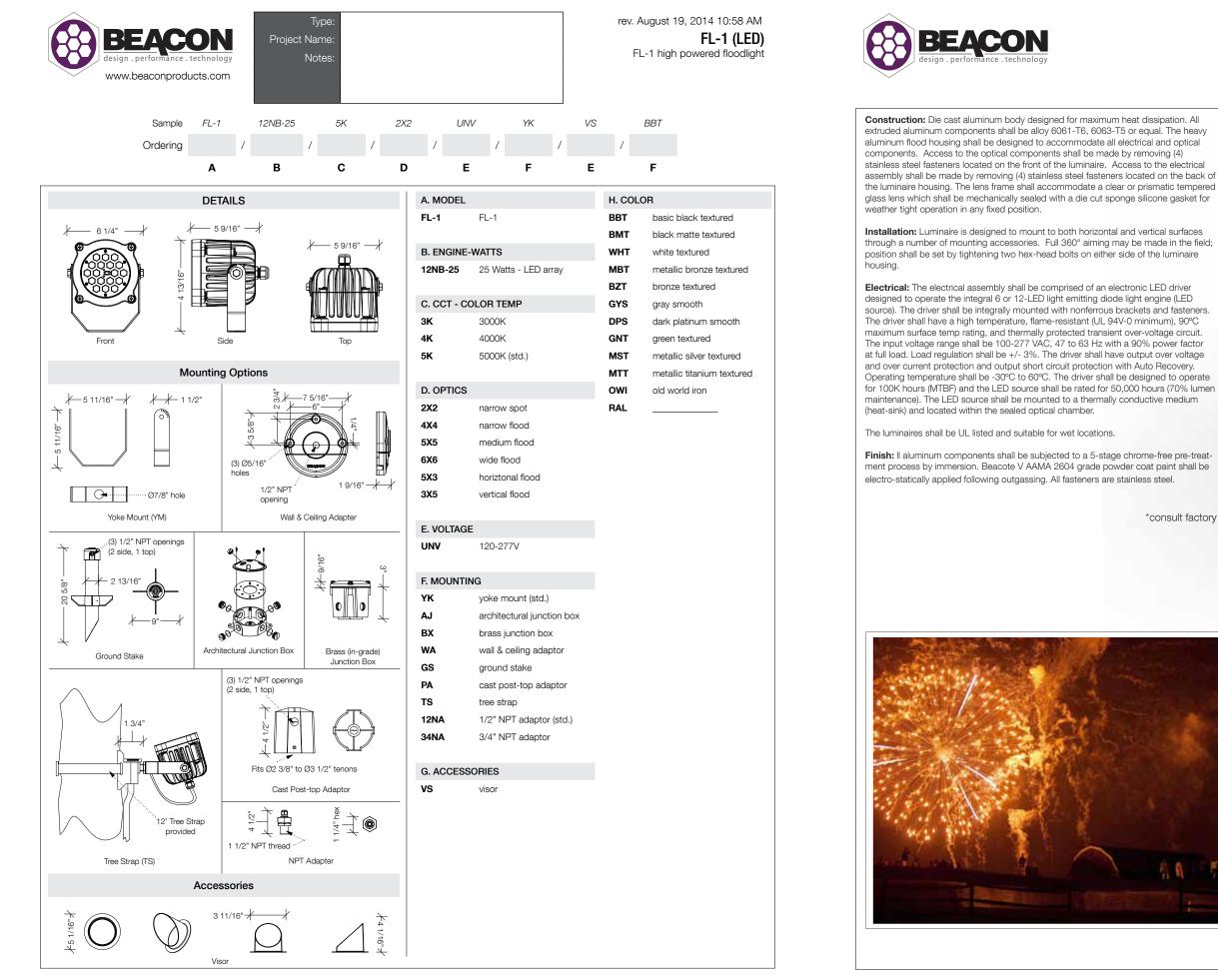
Shelby Hall / The University of Alabama 6





## floodlight solutions





\*consult factory



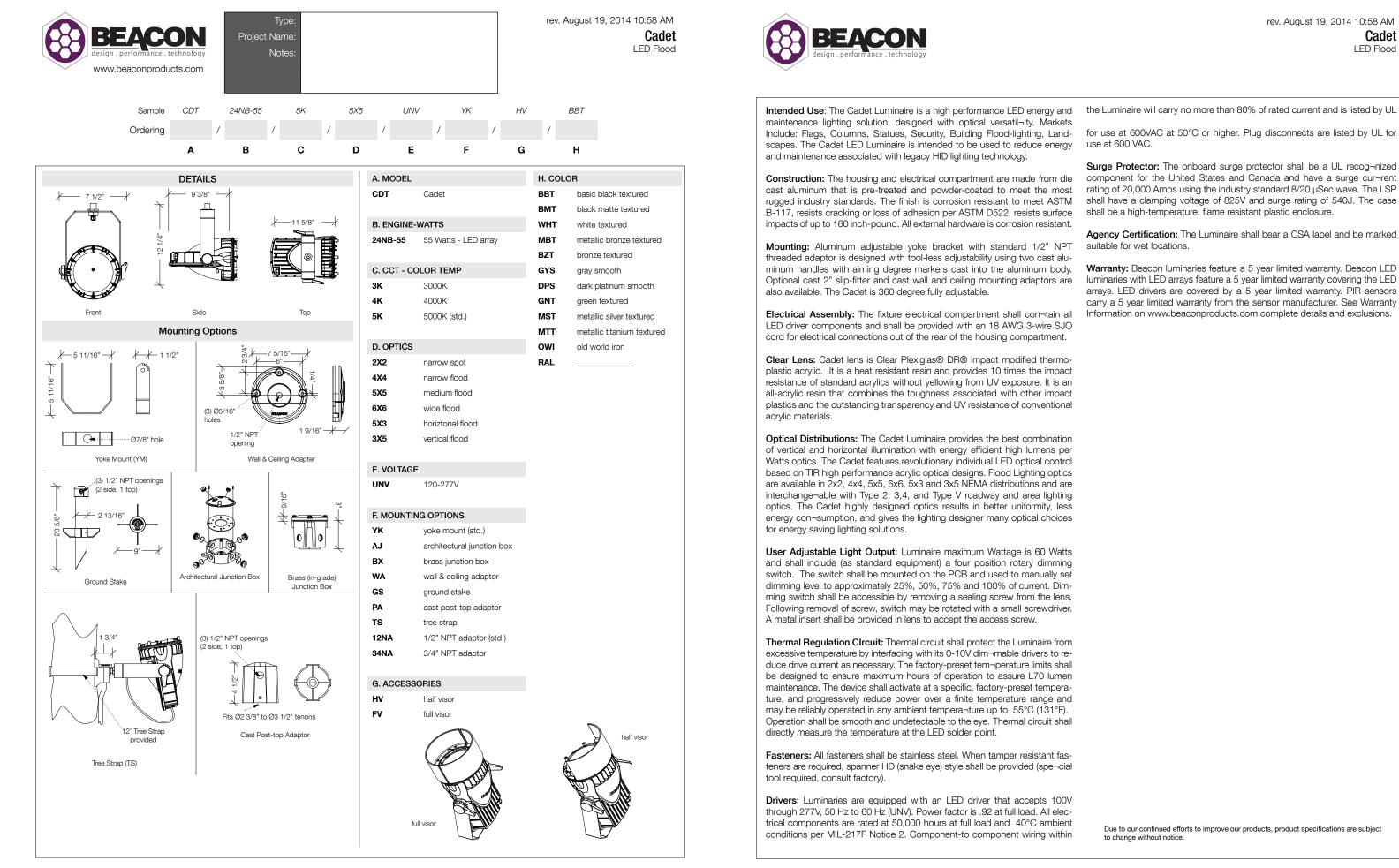
#### **Applications:**

- · Marine Terminals
- Airports
- Distribution Centers

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- Industrial Task Lighting
- Service Stations Mobile Rigs
- Mining
- Institutional Security
- · Ports and Harbors
- Airports
- Security
- Military
- · Flag Poles
- Statues
- · Outdoor Art Exhibits
- Uplighting
- · Wall Washing
- · Water Features
- · Architectural Features
- Apparel
- Grocery
- · Automotive
- Signage

Due to our continued efforts to improve our products, product specifications are subject to change without notice.



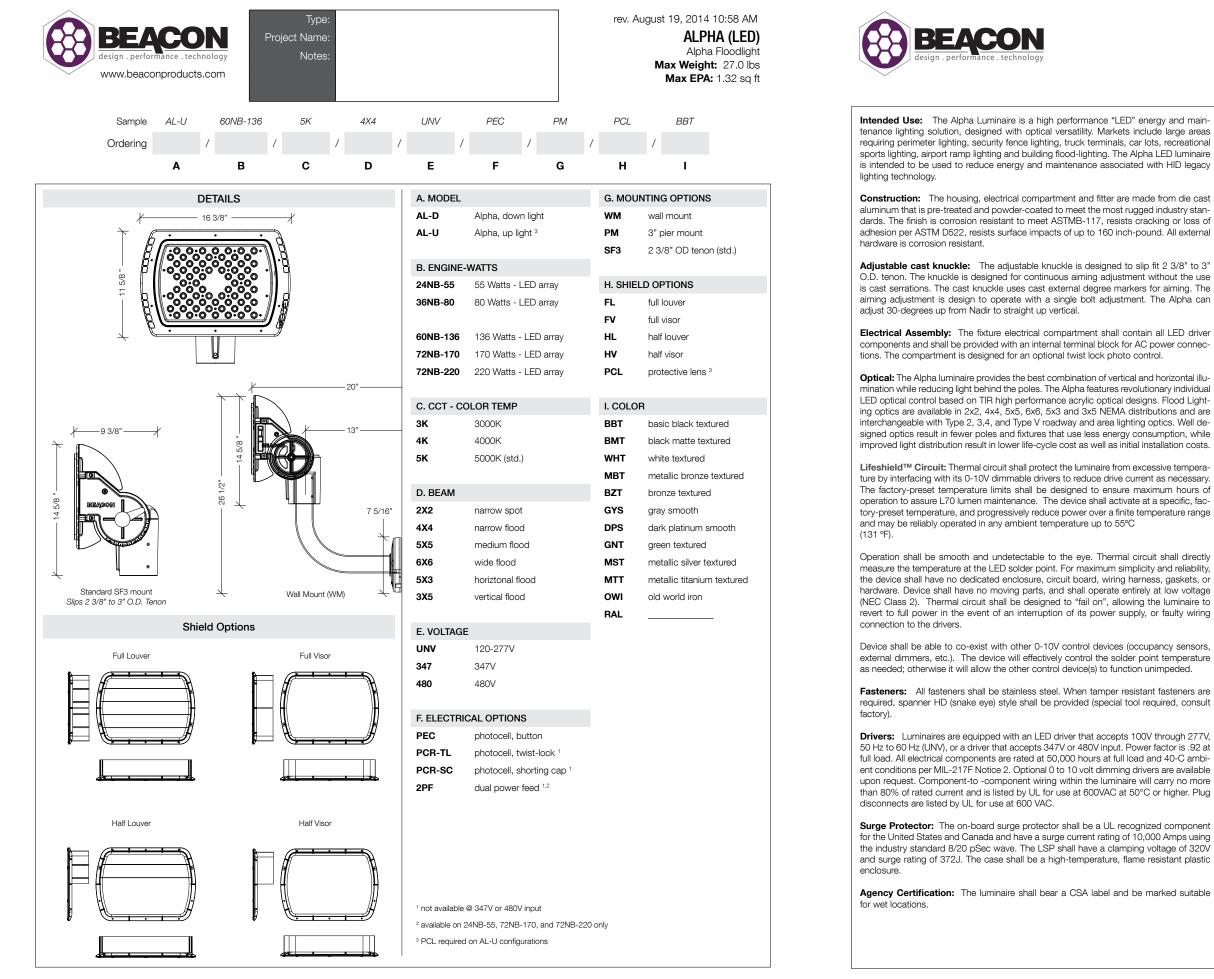
for use at 600VAC at 50°C or higher. Plug disconnects are listed by UL for use at 600 VAC.

Surge Protector: The onboard surge protector shall be a UL recog-nized component for the United States and Canada and have a surge cur-rent rating of 20.000 Amps using the industry standard 8/20 uSec wave. The LSP shall have a clamping voltage of 825V and surge rating of 540J. The case shall be a high-temperature, flame resistant plastic enclosure.

Agency Certification: The Luminaire shall bear a CSA label and be marked suitable for wet locations.

Warranty: Beacon luminaries feature a 5 year limited warranty. Beacon LED luminaries with LED arrays feature a 5 year limited warranty covering the LED arrays. LED drivers are covered by a 5 year limited warranty. PIR sensors carry a 5 year limited warranty from the sensor manufacturer. See Warranty Information on www.beaconproducts.com complete details and exclusions.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.



#### rev. August 19, 2014 10:58 AM ALPHA (LED) Alpha Floodlight Max Weight: 27.0 lbs Max EPA: 1.32 sq ft

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die cast ry stan- loss of external					
8" to 3" the use ng. The bha can					
D driver connec-					
ntal illu- dividual d Light- and are Well de- n, while n costs.					
empera- cessary. hours of ific, fac- re range	Power/Lum	ens & D	Distributions		
directly	Engine	Wattage	Delivered Lumens (varies by optic)	Delivered LPW	TM21 Calculated % Lumen Maint. at 100,000 hrs
eliability, kets, or	24NB	55	5000-5660	91-103	96.19%
voltage	36NB	90	8190-9270	91-103	94.41%
naire to	60NB	136	12600-14000	93-103	92.73%
y wiring	72NB	170	16150-17000	99-104	85.79%
	72NB	220	19400-20400	91-95	83.97%
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is .92 at C ambi-	5000° K =	1.0	min 67 CRI		
vailable	4000° K =		min 70 CRI		
no more Ier. Plug	3000° K =		min 80 CRI		
nponent os using of 320V t plastic					

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ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS

DEVINE LIGHTING

DUAL-LITE

HUBBELL BUILDING AUTOMATION

HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

PRESCOLITE

PROGRESS LIGHTING

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WHITEWAY



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