



**POST TOP LED ENGINE**  
*with ADVANCED LED TECHNOLOGY*

- |   |                        |   |                             |
|---|------------------------|---|-----------------------------|
|    | Back Light Control     |    | Superior Thermal Management |
|    | Uplight Control        |    | Long Useful Life            |
|    | Glare Control          |    | Dimmable                    |
|  | Sustainable Technology |  | Photometric Performance     |

***Performance Outdoor Lighting Solution!***

## Description

King Luminaire's R1 LED Engine was designed to provide roadway performance at a 12ft+ mounting height. Utilizing precision refractive baffles, the R1 provides an aesthetically pleasing ambient glow and achieves incredible spacing and uniformity. The R1 is available in Type III and Type V IESNA distribution patterns and is available in any of King Luminaire's K100, K130, K600 and KG Series luminaires, as well as the K329, K551 and K56. With so many decorative lighting options there is a world of possibilities!

## FEATURES

- Available in Type III & V distribution
- Minimum 70 CRI
- CCT: 4000K (+/- 300K)
- Certified to UL standards
- UL wet listed
- King Luminaire's signature Refractive Baffle Technology
- 7 year warranty

## BENEFITS

- Full globe luminance
- Improved light control
- High efficacy
- Energy savings
- Reduced maintenance
- Long operational life due to King's Dynamic Thermal Management

## Roadway Application\*

The below roadway application table provides a simple guide of the R1 performance based on 8 typical situations (defined in legend below). Further photometric evaluation for specific applications is suggested.

| Optic | Watts | IES | CCT   | BUG    | Efficacy | Power | Lumens | Uplight | Fixture Spacing |     |     |     |     |     |      |      |
|-------|-------|-----|-------|--------|----------|-------|--------|---------|-----------------|-----|-----|-----|-----|-----|------|------|
|       |       |     |       |        |          |       |        |         | NSL             | NSH | WSL | WSH | WDL | WDH | WSTL | WSTH |
| R1    | 40    | III | 4000K | B1U4G2 | 91.2     | 40.3  | 3676   | 18.6%   | 67              | 60  | 45  | 43  | 96  | 87  | 96   | 87   |
| R1    | 60    | III | 4000K | B1U4G3 | 85       | 65    | 5526   | 18.6%   | 96              | 91  | 69  | 65  | 137 | 120 | 137  | 120  |
| R1    | 75    | III | 4000K | B2U4G3 | 80.2     | 80.2  | 6435   | 18.7%   | 118             | 105 | 80  | 75  | 137 | 153 | 159  | 153  |
| R1    | 100   | III | 4000K | B2U5G3 | 78.6     | 102.5 | 8060   | 19%     | 124             | 120 | 84  | 96  | 120 | 161 | 200  | 192  |
| R1    | 40    | V   | 4000K | B2U4G2 | 87       | 39.4  | 3428   | 18.8%   | 40              | 34  | 27  | 26  | 55  | 51  | 55   | 53   |
| R1    | 60    | V   | 4000K | B2U4G2 | 81.1     | 64.2  | 5208   | 18.8%   | 60              | 53  | 41  | 39  | 82  | 79  | 82   | 79   |
| R1    | 75    | V   | 4000K | B3U4G3 | 77.2     | 79.4  | 6127   | 18.8%   | 71              | 62  | 48  | 46  | 96  | 93  | 96   | 93   |
| R1    | 100   | V   | 4000K | B3U5G3 | 76.8     | 102.4 | 7861   | 18.7%   | 96              | 77  | 60  | 58  | 122 | 120 | 122  | 120  |

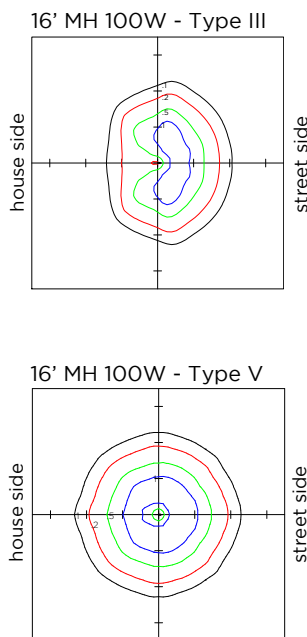
## Application

- NSL** Narrow-Single-Low      **WDL** Wide-Double-Low
- NSH** Narrow-Single-High      **WDH** Wide-Double-High
- WSL** Wide-Single-Low      **WSTL** Wide-Staggered-Low
- WSH** Wide-Single-High      **WSTH** Wide-Staggered-High

## Legend

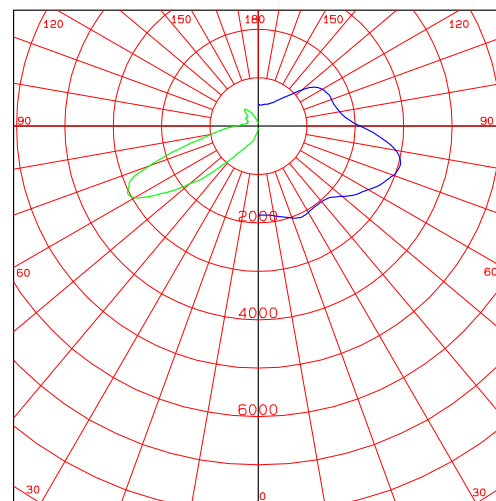
- Narrow:** 30' Wide
- Wide:** 56' Wide
- Low:** Post Top = 16'
- High:** Post Top = 20'
- Single:** Fixtures on one side
- Double:** Fixtures on both sides, opposite
- Staggered:** Fixtures mounted both sides, staggered
- Footcandle Average:** 0.7 fc
- Uniformity:** 6:1

## ISO Plot\*\*



25' Scale

## Candlepower Table\*\*



Maximum Candlepower: 3038  
 Plane of Maximum: 75.0  
 Vertical Angle of Maximum: 62.5

\*Based on testing completed in a K118 Luminaire

\*\*Footprint & Candela Table from photometric file #CG399P