

# POST TOP LED OPTICAL SYSTEM

## 1042/1063 Refractive Baffle Technology



**Photometric Performance**



**Superior Thermal Management**



**Back Light Control**



**Long Useful Life**



**Up Light Control**



**Dimmable**



**Glare Control**



**Sustainable Technology**

The R1 LED optical system was designed to provide roadway performance at a 12 ft+ mounting height. Utilizing precision refractive baffles, the R1 optical system provides an aesthetically pleasing ambient glow and achieves incredible spacing and uniformity. Exceptional photometric performance with precision light control including uplight, back light and glare is achieved utilizing 42 or 63 LED emitters.

The R1 optical system is available with Type III or V IESNA distribution patterns delivering up to 110 lumens per watt to provide enhanced photometric performance with premium light quality while offering energy and maintenance cost savings.

Effective thermal management is achieved with a vertical heat sink which is open at the bottom and vented at the top to provide appropriate dynamic airflow cooling for the LED array.

The R1 optical system is available in a number of historical acorn fixtures, select contemporary fixtures, and globes.

# Features & Benefits

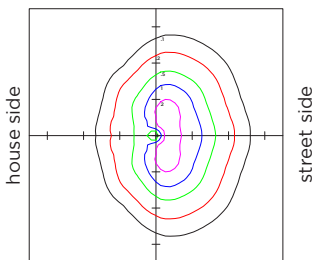
- Precision optics with up to 110 lumens per watt providing full globe luminance with enhanced light quality and control plus high efficacy
- Efficient LED optical system provides energy savings and reduced maintenance costs
- Long operational life due to efficient thermal management
- Includes a dimmable driver and optional wattage selector available
- Offering 3000K and 4000K (+/- 300K) CCT and minimum 70 CRI
- Manufactured to CSA and UL standards and includes a 7 year warranty

# Performance

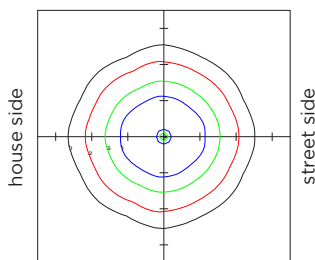
Specific photometric files can be found using an IES File Search tool on our website and additional TM21 reports are available upon request.

Optical System	Nominal Wattage	Input Wattage	IES Distribution	CCT	Lumens	Efficacy (L/W)	BUG	Uplight
R1 1042	40	38.2	III	4000K	4085	107	1-4-3	23.8%
R1 1042	60	61.7	III	4000K	6296	102	2-5-3	23.8%
R1 1042	75	77.0	III	4000K	8121	105	2-5-4	24.3%
R1 1063	100	96.6	III	4000K	9454	98	2-5-4	23.1%
R1 1063	120	114.3	III	4000K	11101	97	3-5-4	23.0%
R1 1042	40	41.4	V	4000K	4566	110	2-4-3	24.6%
R1 1042	60	56.2	V	4000K	6158	110	3-5-3	25.0%
R1 1042	75	73.2	V	4000K	7750	106	3-5-3	24.5%
R1 1063	100	101.8	V	4000K	10975	108	3-5-4	22.7%
R1 1063	120	113.2	V	4000K	11967	106	3-5-4	22.7%

Type III, 100W at 16' Mount  
1" represents 25'



Type V, 100W at 16' Mount  
1" represents 25'



Photometric testing completed with K100 Series, non-decorative, acrylic rippled lens luminaires

Further photometric evaluation is suggested to analyze specific applications and achieve desired objectives

11-25-2019