



## PAR16 VERSION 7



### DESCRIPTION

• Delivering 550 lumens with only 7 watts, this highly energy efficient lamp is fully dimmable, and is Version 7 of Arani's PAR16 lamp, the current best in a long history of continuous research and development.

### APPLICATION

• Designed with a universal PAR16 E26 base, this lamp is versatile in its applications, and can be used for ambient lighting, work lighting, or any colour sensitive setting (CRI = 94.6).

### SPECIFICATIONS

#### Certifications

- Energy Star
- cULs
- CE
- RoHS

#### Finish

- Aluminum
- White

#### Dimensions

Ø50 x 60mm

#### Color consistency

- Excellent color consistency
- No flickering
- Noise free

#### Operating Temperatures

-10°C to 40°C

Date:

Project:

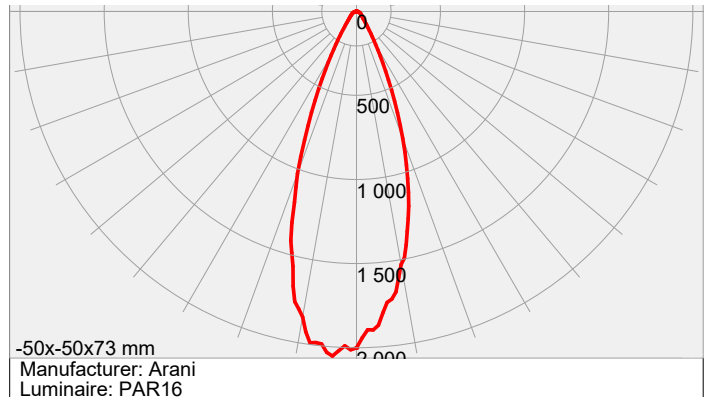
Prepared by:

Type:

Comments:



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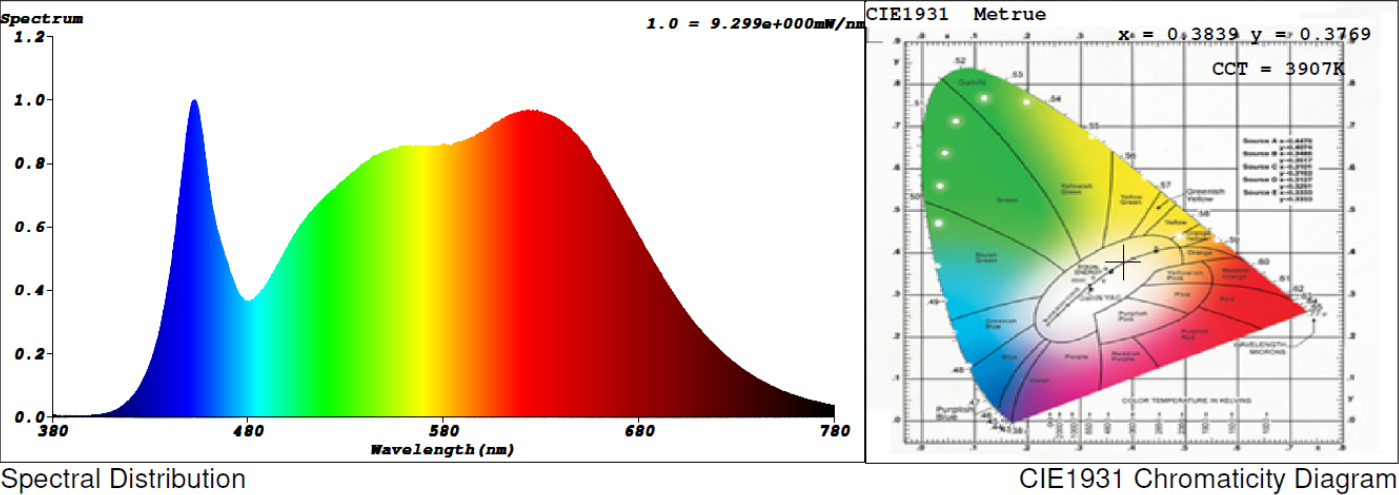


## PERFORMANCE

| Model Number  | Power (Watts) | Lumens | Dimensions | Color Temp. | Input Voltage | Beam Angle | CRI  |
|---------------|---------------|--------|------------|-------------|---------------|------------|------|
| BPAR16-30K-V7 | 7             | 550    | Ø50 x 60mm | 3000K       | 90-130VAC     | 40°        | 94.6 |
| BPAR16-40K-V7 | 7             | 550    | Ø50 x 60mm | 4000K       | 90-130VAC     | 40°        | 94.6 |

WAVELENGTH SPECTRUM

Spectrum

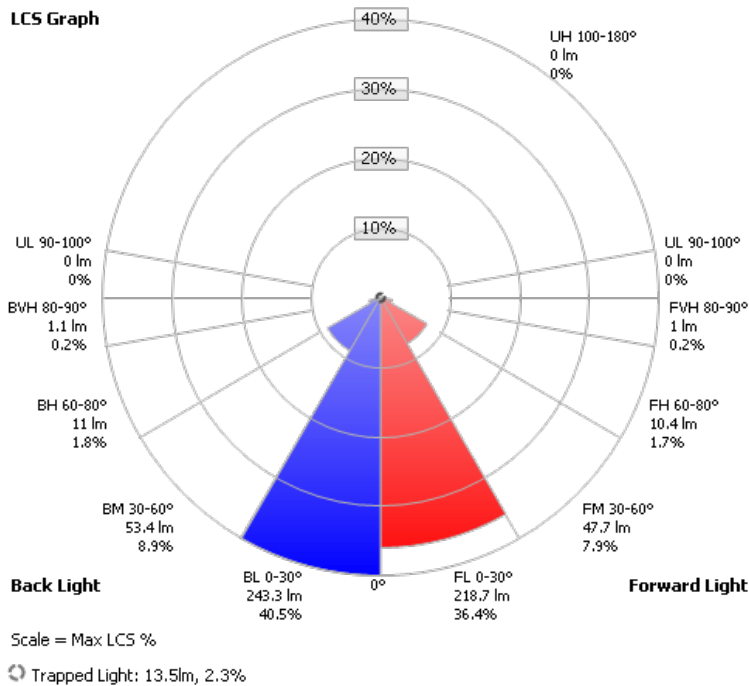
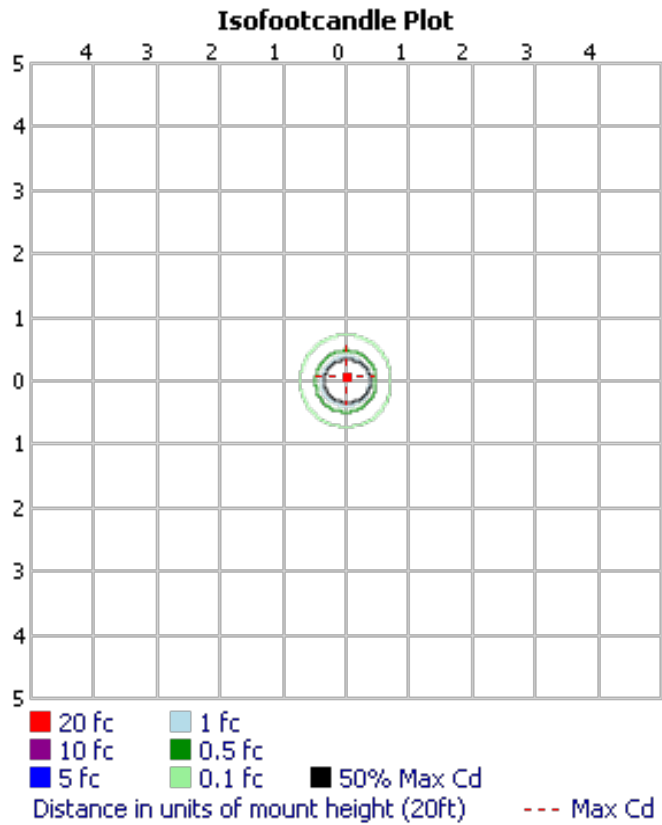
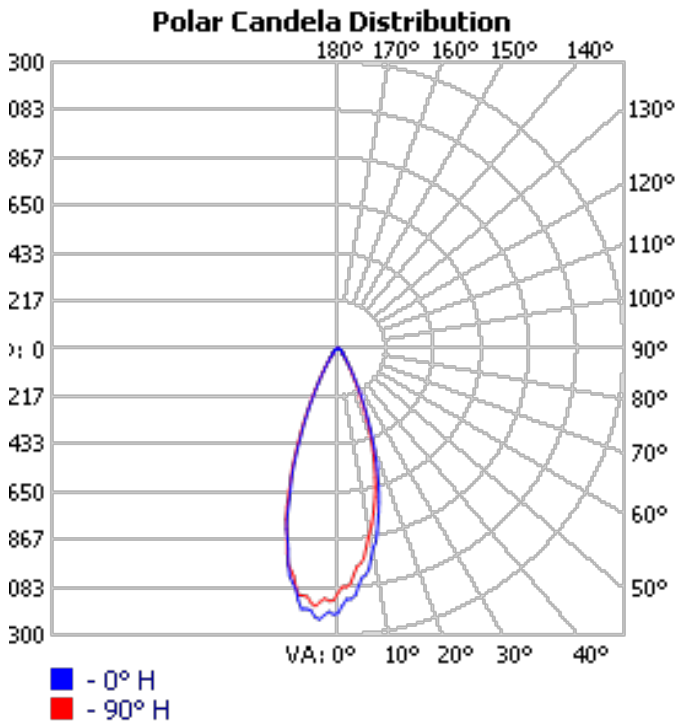


RENDERING INDEX

| Rating type | BPAR16-30K-V7 |
|-------------|---------------|
| CRI         | 94.6          |
| R1          | 96            |
| R2          | 96            |
| R3          | 94            |
| R4          | 95            |
| R5          | 94            |
| R6          | 92            |
| R7          | 97            |
| R8          | 93            |
| R9          | 82            |
| R10         | 88            |
| R11         | 94            |
| R12         | 74            |
| R13         | 96            |
| R14         | 96            |
| R15         | 95            |

BPAR16-30K-V7

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| ZONAL LUMEN SUMMARY |        |        |             |
|---------------------|--------|--------|-------------|
| ZONE                | LUMENS | % LAMP | % LUMINAIRE |
| 0-30                | 461.7  | 77%    | 78.8%       |
| 0-40                | 516.8  | 86.1%  | 88.2%       |
| 0-60                | 562.7  | 93.8%  | 96%         |
| 60-90               | 23.5   | 3.9%   | 4%          |
| 0-90                | 586.2  | 97.7%  | 100%        |

| LUMENS PER ZONE |        |         |
|-----------------|--------|---------|
| ZONE            | LUMENS | % TOTAL |
| 0-10            | 102.8  | 17.5%   |
| 10-20           | 215.1  | 36.7%   |
| 20-30           | 143.9  | 24.5%   |
| 30-40           | 55.1   | 9.4%    |
| 40-50           | 26.8   | 4.6%    |
| 50-60           | 19.1   | 3.3%    |
| 60-70           | 13.7   | 2.3%    |
| 70-80           | 7.6    | 1.3%    |
| 80-90           | 2.1    | 0.4%    |

| ROADWAY SUMMARY        |         |        |
|------------------------|---------|--------|
| CUTOFF CLASSIFICATION: | CUTOFF  |        |
| DISTRIBUTION:          | TYPE VS |        |
| MAX CD, 90 DEG VERT:   | 0.8     |        |
| MAX CD, 80 TO <90 DEG: | 5.4     |        |
|                        | LUMENS  | % LAMP |
| DOWNWARD STREET SIDE:  | 277.7   | 46.3%  |
| DOWNWARD HOUSE SIDE:   | 308.7   | 51.5%  |
| DOWNWARD TOTAL:        | 586.5   | 97.7%  |
| TOTAL LUMENS:          | 586.5   | 97.7%  |

| LCS TABLE         |              |          |
|-------------------|--------------|----------|
| BUG RATING        | B1 - UX - G0 |          |
| FORWARD LIGHT     | LUMENS       | LUMENS % |
| LOW(0-30):        | 218.7        | 36.4%    |
| MEDIUM(30-60):    | 47.7         | 7.9%     |
| HIGH(60-80):      | 10.4         | 1.7%     |
| VERY HIGH(80-90): | 1.0          | 0.2%     |
| BACK LIGHT        |              |          |
| LOW(0-30):        | 243.3        | 40.5%    |
| MEDIUM(30-60):    | 53.4         | 8.9%     |
| HIGH(60-80):      | 11.0         | 1.8%     |
| VERY HIGH(80-90): | 1.1          | 0.2%     |
| TRAPPED LIGHT:    | 13.5         | 2.3%     |

| CANDELA TABLE - TYPE C |      |      |      |      |      |
|------------------------|------|------|------|------|------|
|                        | 0    | 90   | 180  | 270  | 360  |
| 0                      | 1200 | 1109 | 1200 | 1109 | 1200 |
| 5                      | 1080 | 992  | 1221 | 1172 | 1080 |
| 10                     | 917  | 840  | 1107 | 1103 | 917  |
| 15                     | 719  | 653  | 892  | 892  | 719  |
| 20                     | 482  | 441  | 616  | 627  | 482  |
| 25                     | 270  | 247  | 349  | 367  | 270  |
| 30                     | 137  | 124  | 180  | 188  | 137  |
| 35                     | 73   | 66   | 95   | 98   | 73   |
| 40                     | 44   | 40   | 56   | 56   | 44   |
| 45                     | 31   | 28   | 38   | 38   | 31   |
| 50                     | 24   | 23   | 29   | 28   | 24   |
| 55                     | 20   | 19   | 23   | 22   | 20   |
| 60                     | 17   | 15   | 20   | 18   | 17   |
| 65                     | 14   | 12   | 16   | 14   | 14   |
| 70                     | 11   | 9    | 12   | 10   | 11   |
| 75                     | 8    | 6    | 8    | 7    | 8    |
| 80                     | 5    | 3    | 5    | 4    | 5    |
| 85                     | 2    | 1    | 3    | 1    | 2    |
| 90                     | 1    | 0    | 1    | 0    | 1    |

PRODUCT IMAGES



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