



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002, CIE 13.3-1995  
CIE 15-2004, ANSI C78.377-2015, IES TM-30-2015

Prepared For  
**B-K Lighting Inc**  
Chris McCarthy  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

Catalog Number  
**PNF-12-LED-e65-WHP-12-SP-C**  
Order Number  
11913931  
Test Number  
11913931.04A  
Revised Date:  
2017-08-29  
Test Date  
  
2017-08-29

Prepared By

Tony Rubio, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed white metal housing with patterned lens  
**Lamp:** Three (3) white LEDs with optics  
**Mounting:** Pole/Arm  
**Ballast/Driver:** TRE20

**Luminaire**



**Summary of Results**

Radiant Flux:	1306 mW
Luminous Flux:	421.1 lm
Luminaire Efficacy:	52.2 lm/W
CCT:	2921 K
CRI (Ra):	83.5
Chromaticity (x):	0.4437
Chromaticity (y):	0.4081
Chromaticity (u):	0.2531
Chromaticity (v):	0.3493
Duv:	0.0004

**Test Conditions**

Test Temperature:	25.2 °C
Voltage:	120.1 VAC
Current:	0.1120 A
Power:	8.073 W
Power Factor:	0.600
Frequency:	60 Hz
Current THD:	129 %

Testing was performed in a 3-meter integrating sphere using the  $4\pi$  geometry method.  
Absorption correction was employed for this measurement.



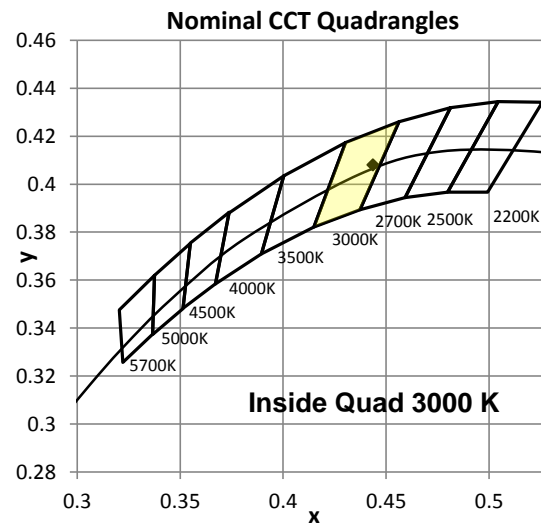
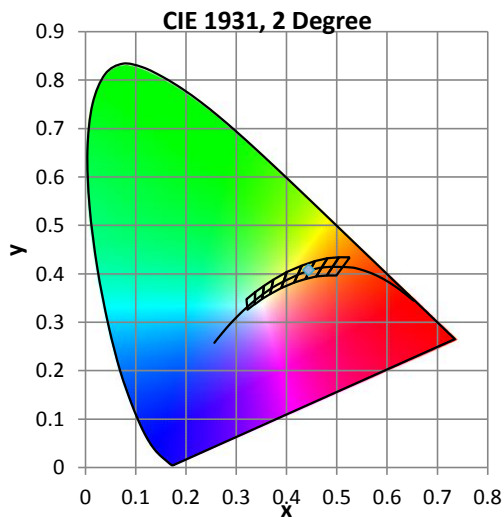
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.1 VAC	0.1120 A	8.073 W	0.600	60 Hz	129 %

### Summary of Results

Total Output:	421 Lumens	Chromaticity (x):	0.4437
Efficacy:	52.2 lm/w	Chromaticity (y):	0.4081
CCT:	2921 K	Chromaticity (u'):	0.2531
CRI (Ra):	83.5	Chromaticity (v'):	0.5240
CRI (R9):	14.7	TM-30 Rf:	83.6
Peak Wavelength:	607 nm	TM-30 Rg:	97.1
Dominant Wavelength:	582.9 nm	Duv:	0.0004
S/P Ratio:	1.289		



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.5	82.1	90.2	96.7	82.3	81.6	87.7	85.0	62.7	14.7	76.8	81.3	69.7	83.8	98.0

