



UL LLC  
1075 W Lambert Rd Suite B  
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## Photometric Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, UL 1598-2008  
CIE 13.3-1995, CIE 15-2004, ANSI C78.377-2017  
IES TM-30-2018

**Prepared For**  
**B-K Lighting INC**

Daniel Carrejo  
40429 Brickyard Dr.  
Madera, CA 93636  
United States

**Catalog Number**  
**OR-LED-e114-VNSP-WHP-9-0-YM-MT(2700K)**

Order Number  
14151565  
Test Number  
14151565.01A

Revision of Test Number 14151565.01 on:

2022-01-19  
Test Date

2022-01-07 - 2022-01-13

Prepared By

Austin Duff, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.  
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## Table of Contents

<b>Summary of Results</b>	Page 3
<b>Integrating Sphere Results</b>	Page 4
<b>In-Situ Results</b>	Page 5
<b>Full TM-30 Report</b>	Page 6

Laboratory results may not be representative of field performance  
Ballast factors have not been applied

Testing was performed in a 2-meter integrating sphere using the  $4\pi$  geometry method.

Absorption correction was employed for Sphere measurement



**Luminaire Description:** Formed white metal housing with clear glass lens  
**Lamp:** 49 White LED with optic below  
**Mounting:** Pole/Arm  
**Ballast/Driver:** DELTA USCI-200140GA

**Luminaire**



## Summary of Results

### Integrating Sphere

Luminous Flux: 7958 Lumens  
Efficacy: 88.55 lm/w  
CCT: 2742 K  
CRI (Ra): 78.8

### Electrical Data at 120 VAC

Test Temperature: 25.3 °C  
Voltage: 120.1 VAC  
Current: 0.7705 A  
Power: 89.87 W  
Power Factor: 0.971  
Frequency: 60 Hz  
Current THD: 21.9 %

### In-Situ

LED Temperature: 86.7 °C  
Driver Temperature: 78.7 °C  
Measured LED Current: 0.6150 A

Temperature is offset to an ambient temperature of 25°C as described in UL1598-2008.



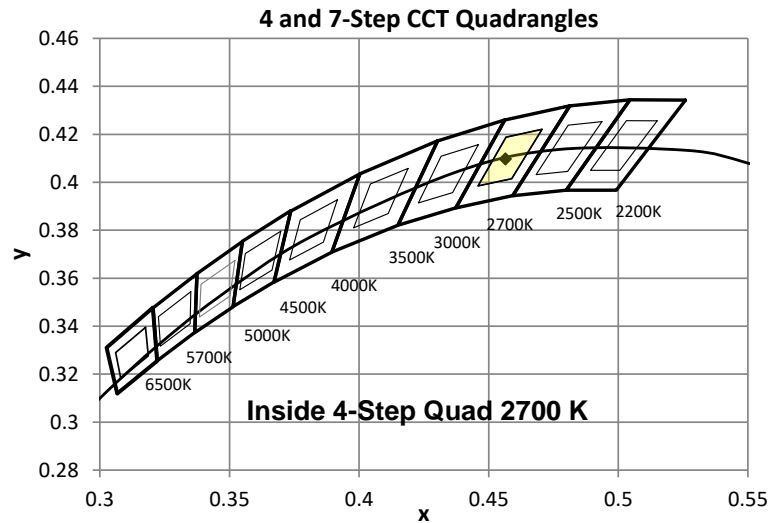
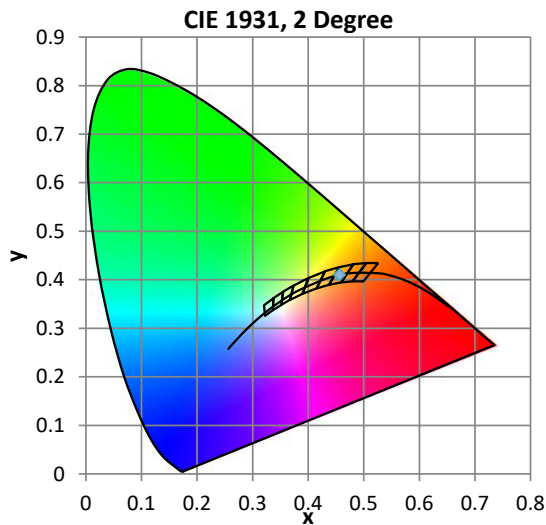
## Color Quality - Integrating Sphere

### Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.7705 A	89.87 W	0.971	60 Hz	21.9 %

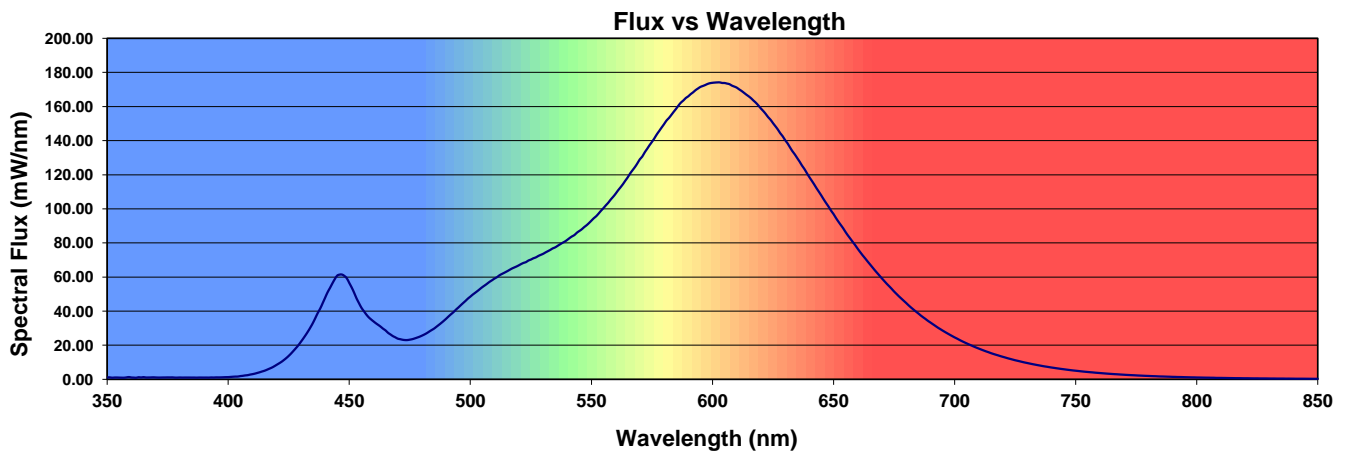
### Summary of Results

Total Output:	7958 Lumens	Chromaticity (x):	0.4564
Efficacy:	88.6 lm/w	Chromaticity (y):	0.4098
CCT:	2742 K	Chromaticity (u'):	0.2606
CRI (Ra):	78.8	Chromaticity (v'):	0.5265
CRI (R9):	-8.8	TM-30 Rf:	82
Peak Wavelength:	602 nm	TM-30 Rg:	96
Dominant Wavelength:	584 nm	TM-30 Rcs,h1:	-13%
S/P Ratio:	1.2	Duv:	0.0000
M/P Ratio:	0.44	WELL Building Standard v2	



### Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
78.8	76.3	89.0	94.9	76.2	77.0	87.6	79.1	50.4	-8.8	76.6	75.4	74.7	79.0	97.6	67.5





## In-Situ Test

### In-Situ Test Conditions

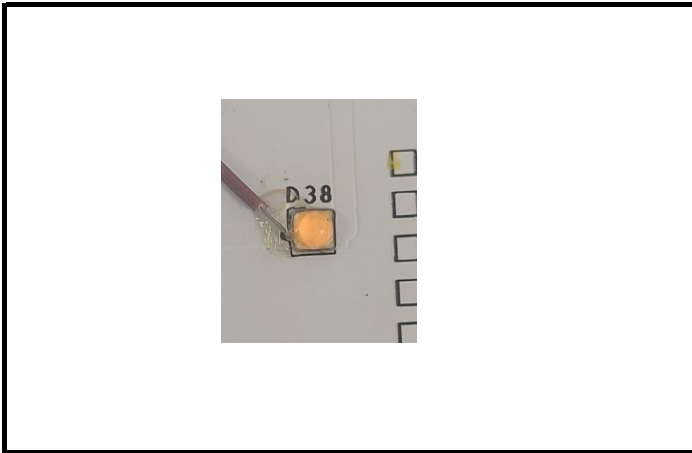
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
21.0 °C	120.0 VAC	N/A	N/A	N/A	60 Hz	N/A

### Summary of Results

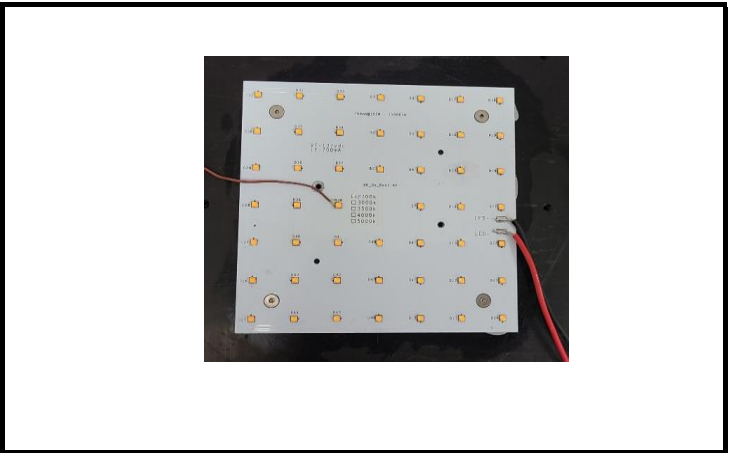
LED Temperature: 86.7 °C  
Driver Temperature: 78.7 °C  
Measured LED Current: 0.6150 A

Temperatures are offset to an ambient temperature of 25°C as described in UL1598-2008

### LED Temperature Location



### Thermocouple Reference



### Driver Temperature Location



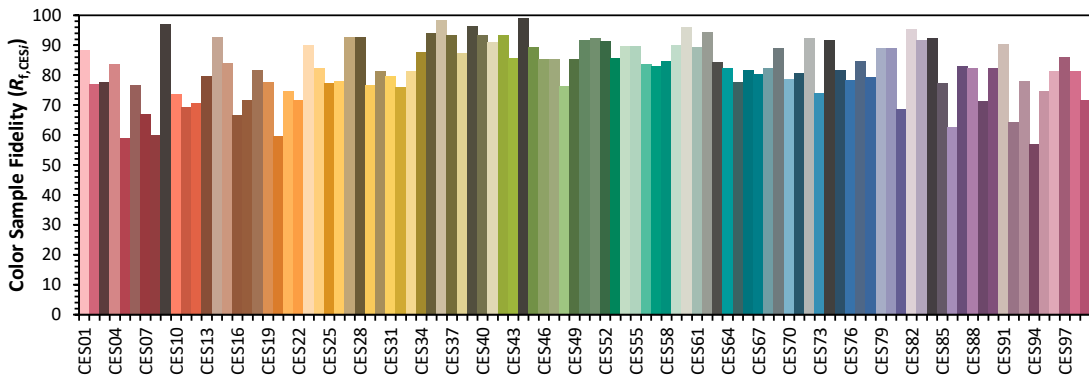
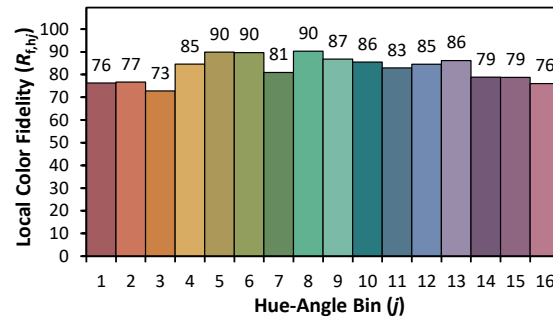
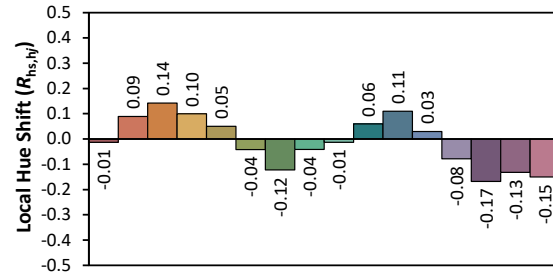
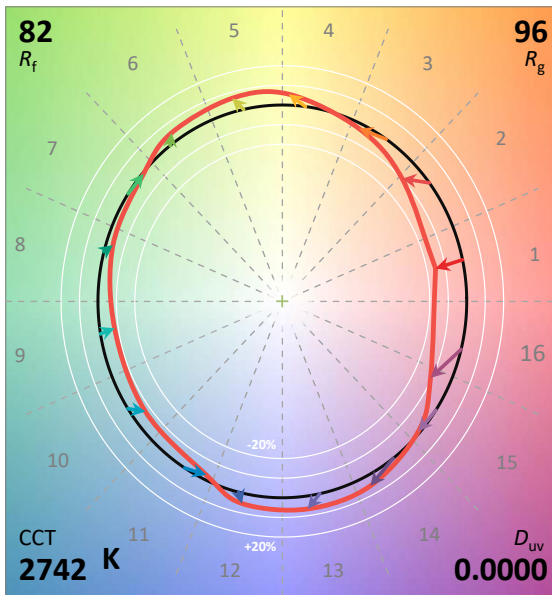
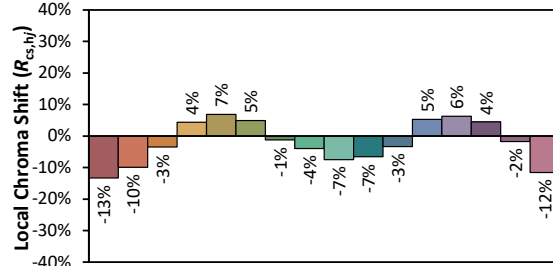
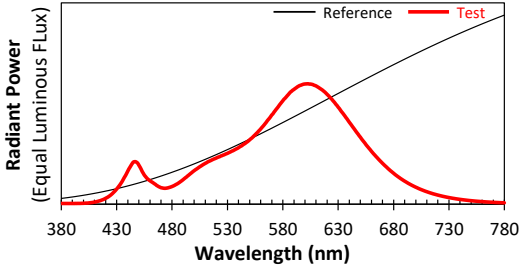
# ANSI/IES TM-30-18 Color Rendition Report

Date: 2022-01-07

Manufacturer: B-K Lighting INC

Model:

OR-LED-e114-VNSP-WHP-9-0-YM-MT(2700K)



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$  0.4564  
 $y$  0.4098  
 $u'$  0.2606  
 $v'$  0.5265

CIE 13.3-1995  
(CRI)  
 $R_a$  79  
 $R_g$  -9

Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.



## Attachment A

## Amended Report Documentation

[illegible]