



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

Integrating Sphere Test Report

Relevant Standards
IES LM-79-2008
ANSI C78.377-2011, ANSI C82.77-2002
CIE 13.3-1995, CIE 15-2004, IES TM-30-15

Prepared For
B-K LIGHTING INC

Chris McCarthy
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
HP2-LED-x44-NFL-9 CO2-LED-x44-NFL-9

Order Number
11353040
Test Number
11353040.05

Test Date

2016-09-02

Prepared By

Khang Nguyen, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Circular formed black aluminum cylinder housing with an internal gray plastic reflector and a clear glass lens
Lamp: One (1) White LED
Mounting: Surface
Ballast/Driver: One (1) POWERSELECT PS60U700C21T

Luminaire



Summary of Results

Radiant Flux:	4993 mW
Luminous Flux:	1634 lm
Luminaire Efficacy:	57.7 lm/W
CCT:	3151 K
CRI (Ra):	83.3
Chromaticity (x):	0.4263
Chromaticity (y):	0.3999
Chromaticity (u):	0.2455
Chromaticity (v):	0.3454
Duv:	0.0005

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.2392 A
Power:	28.32 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	12.9 %

Testing was performed in a 2-meter integrating sphere using the 4 π geometry method.
Absorption correction was employed for this measurement.



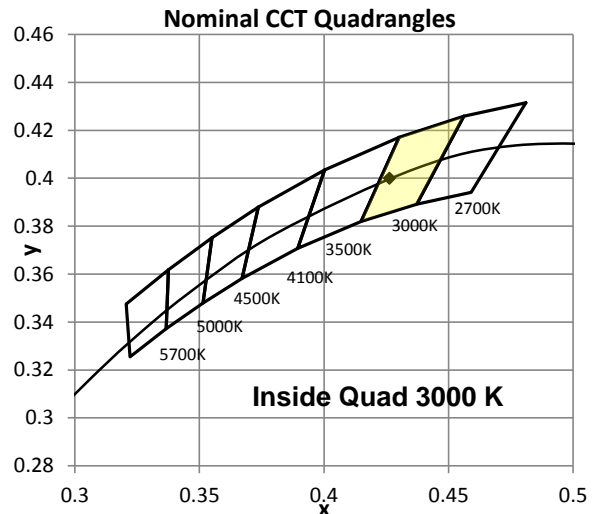
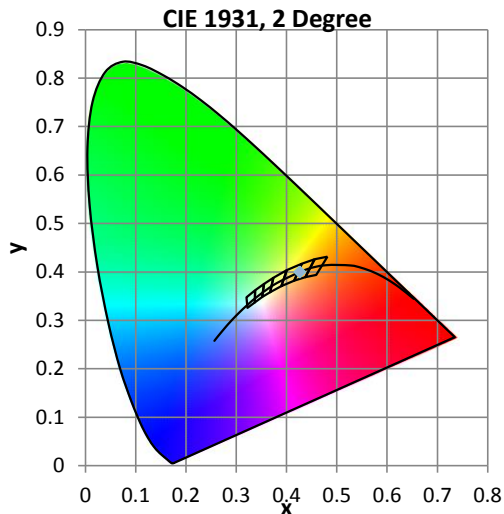
Color Quality - Integrating Sphere

Integrating Sphere Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.2392 A	28.32 W	0.986	60 Hz	12.9 %

Summary of Results

Total Output:	1634 Lumens	Chromaticity (x):	0.4263
Efficacy:	57.7 lm/w	Chromaticity (y):	0.3999
CCT:	3151 K	Chromaticity (u'):	0.2455
CRI (Ra):	83.3	Chromaticity (v'):	0.5181
CRI (R9):	9.3	TM-30 R _f :	84.0
Peak Wavelength:	602.6 nm	TM-30 R _g :	95.3
Dominant Wavelength:	582.2 nm	Duv:	0.0005
S/P Ratio:	1.425		



Color Rendering Index Detail

Ra (CRI)	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
83.3	81.7	91.9	95.8	80.9	82.2	90.2	83.1	60.2	9.3	81.7	80.2	74.0	84.2	98.3

