

Project Number  
16.00442



**HUBBELL**  
Lighting

Date  
2/24/2016

LAB 6

### Test Sample Description

Catalog Number: P5342-2030K9  
Description: 22" 1-Lt. LED Pendant w/ Aluminum Shade Reflector Antique Bronze/Gold inside

Test Method: IES LM-79-08 § 10  
Preburn Time: 0:75  
Time To Stabilize: 2:28  
Total Operating Time: 4:12  
  
Input Voltage (Volts): 120.1  
Input Current (Amps): 0.261  
Input Wattage (Watts): 29.2  
Ambient Temp (°C): 24.2



### Hubbell Lighting, Inc.

701 Millennium Boulevard  
Greenville, SC 29607  
www.hubbellighting.com

Checked: D. ROBBINS  
Approved: M. WASHBURN





**HUBBELL**  
Lighting

701 Millennium Blvd  
Greenville, SC 29607  
www.hubbellighting.com



REPORT NUMBER: 16.00442  
ISSUE DATE: 02/24/16  
PREPARED FOR: PROGRESS  
CATALOG NUMBER: P5342-2030K9  
LUMINAIRE: 22" 1-Lt. LED Pendant w/ Aluminum Shade Reflector Antique  
Bronze/Gold inside  
LAMP CAT. NO.: 93058664-3131  
LAMP: 40 - Nichia 3000K LEDs- 1- 29W HAL AC LED Module  
MOUNTING: Pendant  
NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
SAMPLE PROVIDED.

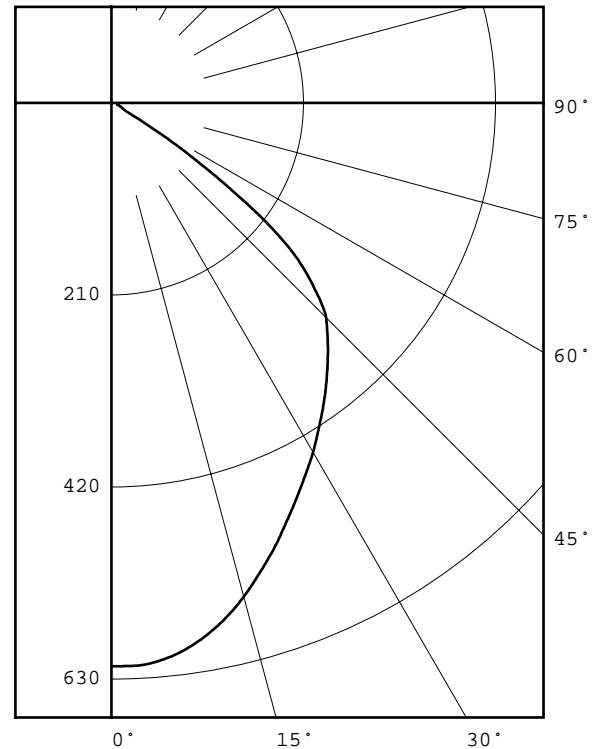
PAGE: 2 OF 7

DEG	CANDELA	LUMENS
0	616	
5	612	58
15	559	157
25	478	221
35	404	253
45	332	251
55	135	124
65	13	14
75	7	7
85	2	2
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	435	40.1
0- 40	688	63.4
0- 60	1063	97.9
0- 90	1086	100.0
90-180	0	0.0
0-180	1086	100.0

TOTAL INPUT WATTS = 29.2  
EFFICACY = 37.2 Lm/W  
CIE TYPE - DIRECT  
LUMINAIRE SPACING CRITERION = 1.1  
LUMINOUS DIAMETER: 22.000

LUMINANCE DATA IN CANDELA/SQ METER	
ANGLE	AVERAGE
IN DEG	
45	1914.
55	959.
65	125.
75	110.
85	94.





®

**HUBBELL**  
Lighting

701 Millennium Blvd  
Greenville, SC 29607  
www.hubbellighting.com



REPORT NUMBER: 16.00442  
ISSUE DATE: 02/24/16  
PREPARED FOR: PROGRESS

PAGE: 3 OF 7

CANDELA DISTRIBUTION

	0.0
0.0	616
2.5	616
5.0	612
7.5	604
10.0	592
12.5	577
15.0	559
17.5	539
20.0	519
22.5	498
25.0	478
27.5	459
30.0	441
32.5	422
35.0	404
37.5	386
40.0	368
42.5	350
45.0	332
47.5	302
50.0	266
52.5	210
55.0	135
57.5	73
60.0	23
62.5	15
65.0	13
67.5	11
70.0	9
72.5	8
75.0	7
77.5	5
80.0	4
82.5	3
85.0	2
87.5	1
90.0	0



**HUBBELL**  
Lighting

701 Millennium Blvd  
Greenville, SC 29607  
www.hubbellighting.com



REPORT NUMBER: 16.00442  
ISSUE DATE: 02/24/16  
PREPARED FOR: PROGRESS

PAGE: 4 OF 7

ZONAL LUMEN SUMMARY

0- 5	15.
5- 10	43.
10- 15	68.
15- 20	89.
20- 25	104.
25- 30	116.
30- 35	124.
35- 40	129.
40- 45	130.
45- 50	121.
50- 55	89.
55- 60	35.
60- 65	8.
65- 70	6.
70- 75	4.
75- 80	3.
80- 85	2.
85- 90	1.



**HUBBELL**  
Lighting

701 Millennium Blvd  
Greenville, SC 29607  
www.hubbellighting.com



REPORT NUMBER: 16.00442  
ISSUE DATE: 02/24/16  
PREPARED FOR: PROGRESS

PAGE: 5 OF 7

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	15
5- 10	43
10- 15	68
15- 20	89
20- 25	104
25- 30	116
30- 35	124
35- 40	129
40- 45	130
45- 50	121
50- 55	89
55- 60	35
60- 65	8
65- 70	6
70- 75	4
75- 80	3
80- 85	2
85- 90	1

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	58
0- 20	215
0- 30	435
0- 40	688
0- 50	939
0- 60	1063
0- 70	1077
0- 80	1084
0- 90	1086



**HUBBELL**  
Lighting

701 Millennium Blvd  
Greenville, SC 29607  
www.hubbellighting.com



REPORT NUMBER: 16.00442  
ISSUE DATE: 02/24/16

PAGE: 6 OF 7

PREPARED FOR: PROGRESS

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
0	119	119	119	119	116	116	116	116	111	111	111	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	90	87	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	82	78	74	79	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	75	70	66	73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	68	63	59	67	62	58	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	63	57	53	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	58	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	46	40	36	45	40	36	34

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

Project Number  
16.00442



**HUBBELL**  
Lighting

Date  
2/24/2016

### *Goniophotometer Calibration*

*Calibration Lamp:* GE 1000W, 120V, T6, CL (FEL)

*Lamp Number:* ITL78966-1000-14

*Calibration Current:* 8.300 Amps DC

*Total Luminous Flux:* 23413.0 Lumens

*Calibration Date:* 07/18/2015

### *Test Equipment Used*

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 6 - Test Distance: 31.3'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27076V	11/10/2016
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/10/2016

### **Hubbell Lighting, Inc.**

701 Millennium Boulevard  
Greenville, SC 29607  
[www.hubbellighting.com](http://www.hubbellighting.com)

*This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.*