

Project Number  
16.00186



**HUBBELL**  
Lighting

Date  
1/21/2016

LAB 6

### Test Sample Description

**Catalog Number:** 7117-1530K9  
**Description:** 1-Lt. LED Wall Sconce with 8" X 4" Cylinder Translucent Glass and Decorative Pulley set-up

**Test Method:** IES LM-79-08 § 10  
**Preburn Time:** 0:00  
**Time To Stabilize:** 2:52  
**Total Operating Time:** 3:15  
  
**Input Voltage (Volts):** 120.2  
**Input Current (Amps):** 0.064  
**Input Wattage (Watts):** 7.3  
**Ambient Temp (°C):** 24.4



### Hubbell Lighting, Inc.

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

Checked: D. BLACK / D. ROBBINS  
Approved: M. WASHBURN





**HUBBELL**  
Lighting

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



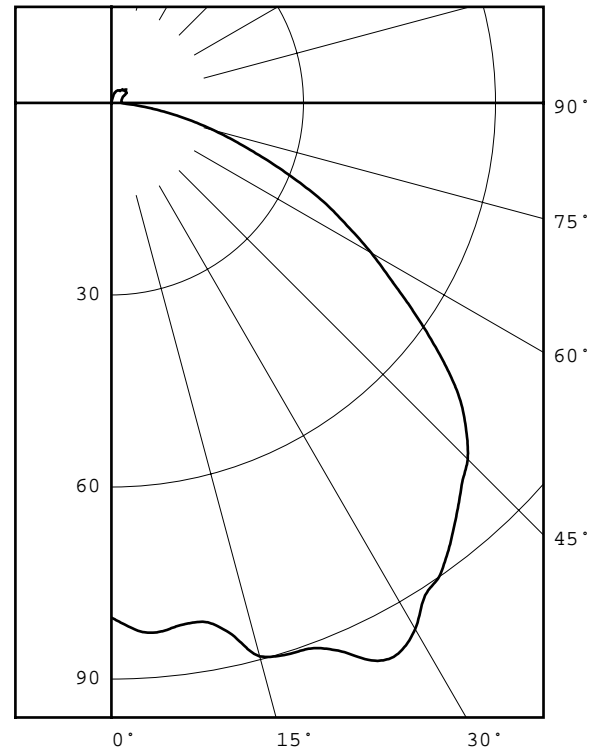
REPORT NUMBER: 16.00186  
ISSUE DATE: 01/21/16  
PREPARED FOR: PROGRESS  
CATALOG NUMBER: 7117-1530K9  
LUMINAIRE: 1-Lt. LED Wall Sconce with 8" X 4" Cylinder Translucent Glass  
and Decorative Pulley set-up  
LAMP CAT. NO.: 93049180-3130  
LAMP: 20- Nichia 3000K LEDs- AC Module  
MOUNTING: Wall  
NOTE: DATA SHOWN IS ABSOLUTE FOR THE  
SAMPLE PROVIDED.

PAGE: 2 OF 8

DEG	CANDELA	LUMENS
0	80.4	
5	83.0	7.9
15	89.5	25.0
25	96.1	43.9
35	89.7	56.0
45	78.7	60.3
55	58.3	52.3
65	36.6	35.9
75	16.6	17.7
85	3.5	4.5
90	1.5	
95	1.5	1.7
105	1.6	1.7
115	1.9	1.9
125	2.9	2.5
135	2.8	2.2
145	2.3	1.5
155	2.1	1.0
165	1.2	0.3
175	0.1	0.0
180	0.1	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	76.8	24.3
0- 40	132.7	42.0
0- 60	245.3	77.6
0- 90	303.4	95.9
90-120	5.3	1.7
90-130	7.8	2.5
90-150	11.5	3.6
90-180	12.8	4.1
0-180	316.3	100.0

TOTAL INPUT WATTS = 7.3  
EFFICACY = 43.3 Lm/W  
CIE TYPE - DIRECT  
LUMINAIRE SPACING CRITERION = 1.6





®

**HUBBELL**  
Lighting

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



REPORT NUMBER: 16.00186  
ISSUE DATE: 01/21/16  
PREPARED FOR: PROGRESS

PAGE: 3 OF 8

LUMINOUS DIAMETER: 8.000  
HEIGHT OF SIDE : 4.000

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE

IN DEG

45	2096.
55	1641.
65	1129.
75	586.
85	150.



**HUBBELL**  
Lighting

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



REPORT NUMBER: 16.00186  
ISSUE DATE: 01/21/16  
PREPARED FOR: PROGRESS

PAGE: 4 OF 8

CANDELA DISTRIBUTION

	0.0
0.0	80.4
5.0	83.0
10.0	82.3
15.0	89.5
20.0	90.7
25.0	96.1
30.0	94.9
35.0	89.7
40.0	83.9
45.0	78.7
50.0	70.7
55.0	58.3
60.0	46.9
65.0	36.6
70.0	25.5
75.0	16.6
80.0	9.1
85.0	3.5
90.0	1.5
95.0	1.5
100.0	1.6
105.0	1.6
110.0	1.7
115.0	1.9
120.0	2.3
125.0	2.9
130.0	2.8
135.0	2.8
140.0	2.7
145.0	2.3
150.0	2.3
155.0	2.1
160.0	1.8
165.0	1.2
170.0	0.3
175.0	0.1
180.0	0.1



**HUBBELL**  
Lighting

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



REPORT NUMBER: 16.00186  
ISSUE DATE: 01/21/16  
PREPARED FOR: PROGRESS

PAGE: 5 OF 8

ZONAL LUMEN SUMMARY

0- 5	2.0
5- 10	5.9
10- 15	10.1
15- 20	14.9
20- 25	19.5
25- 30	24.4
30- 35	27.0
35- 40	29.0
40- 45	30.0
45- 50	30.3
50- 55	28.1
55- 60	24.2
60- 65	20.2
65- 70	15.7
70- 75	10.9
75- 80	6.8
80- 85	3.3
85- 90	1.2
90- 95	0.8
95-100	0.9
100-105	0.9
105-110	0.9
110-115	0.9
115-120	1.0
120-125	1.2
125-130	1.2
130-135	1.2
135-140	1.0
140-145	0.8
145-150	0.7
150-155	0.6
155-160	0.4
160-165	0.3
165-170	0.1
170-175	0.0
175-180	0.0



**HUBBELL**  
Lighting

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



REPORT NUMBER: 16.00186  
ISSUE DATE: 01/21/16  
PREPARED FOR: PROGRESS

PAGE: 6 OF 8

5-DEGREE  
ZONAL LUMEN SUMMARY

0- 5	2
5- 10	6
10- 15	10
15- 20	15
20- 25	20
25- 30	24
30- 35	27
35- 40	29
40- 45	30
45- 50	30
50- 55	28
55- 60	24
60- 65	20
65- 70	16
70- 75	11
75- 80	7
80- 85	3
85- 90	1
90- 95	1
95-100	1
100-105	1
105-110	1
110-115	1
115-120	1
120-125	1
125-130	1
130-135	1
135-140	1
140-145	1
145-150	1
150-155	1
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

10-DEGREE  
ZONAL LUMEN SUMMARY

0- 10	8
0- 20	33
0- 30	77
0- 40	133
0- 50	193
0- 60	245
0- 70	281
0- 80	299
0- 90	303
0-100	305
0-110	307
0-120	309
0-130	311
0-140	313
0-150	315
0-160	316
0-170	316
0-180	316



**HUBBELL**  
Lighting

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



REPORT NUMBER: 16.00186  
ISSUE DATE: 01/21/16

PAGE: 7 OF 8

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	108	103	99	95	105	101	97	93	96	93	90	91	89	86	87	85	83	81
2	98	90	83	78	95	88	82	76	84	79	74	80	76	72	76	73	70	67
3	89	79	71	64	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31
8	59	46	37	31	57	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	33	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

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  
16.00186



**HUBBELL**  
Lighting

Date  
1/21/2016

### *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.*