

Project Number
15.02367



HUBBELL
Lighting

Date
12/29/2015

LAB 6

Test Sample Description

Catalog Number: 5662-31/8709-31

Description: 5.5" Utilitarian/Commodity 1-Lamp Outdoor Motion Sensor Lantern w / Dark Sky
Nightsaver Metal Shield Cup

Test Method: IES LM-79-08 § 10

Preburn Time: 0:00

Time To Stabilize: 2:00

Total Operating Time: 2:30

Input Voltage (Volts): 120.0

Input Current (Amps): 0.822

Input Wattage (Watts): 98.6

Ambient Temp (°C): 24.5



Hubbell Lighting, Inc.

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

Checked: D. ROBBINS
Approved: P. McCARTHY

NVLAP
NVLAP LAB CODE: 201003-0

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



HUBBELL
Lighting

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



REPORT NUMBER: 15.02367

PAGE: 2 OF 7

ISSUE DATE: 12/29/15

PREPARED FOR: PROGRESS

CATALOG NUMBER: 5662-31/8709-31

LUMINAIRE: 5.5" Utilitarian/Commodity 1-Lamp Outdoor Motion Sensor
Lantern w / Dark Sky Nightsaver Metal Shield Cup

LAMP CAT. NO.: A-19/STD

LAMP: 1- GE 100W Medium Base Incandescent

REFLECTOR: Black Paint MED Shield #8709-31

MOUNTING: wall

REPORT IS BASED ON 1710 LUMENS PER LAMP.

DEG	CANDELA	LUMENS
0	89.4	
5	90.5	8.7
15	94.7	26.9
25	98.2	45.4
35	98.0	61.2
45	84.9	64.5
55	48.0	42.8
65	15.5	16.0
75	1.9	2.8
85	1.1	1.0
90	0.0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	81.0	4.7	30.1
0- 40	142.2	8.3	52.8
0- 60	249.5	14.6	92.6
0- 90	269.3	15.7	100.0
90-180	0.0	0.0	0.0
0-180	269.3	15.7	100.0

TOTAL LUMINAIRE EFFICIENCY = 15.7 %

TOTAL INPUT WATTS = 98.6

EFFICACY = 2.7 Lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 1.6

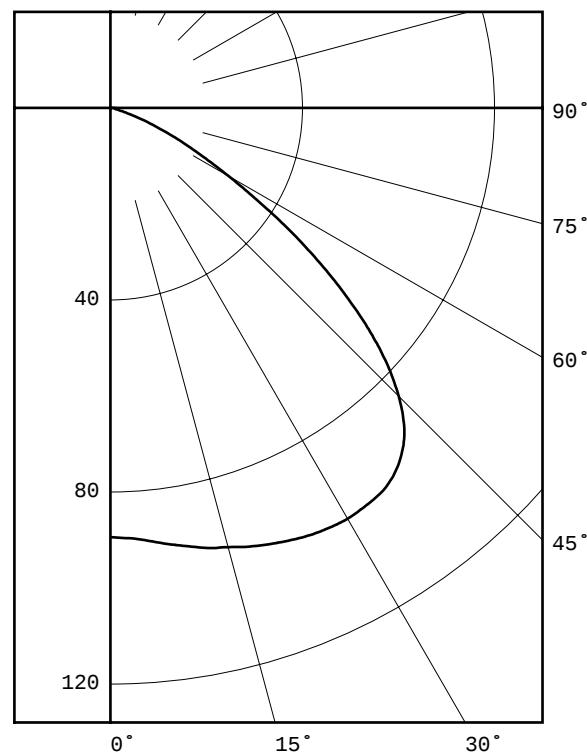
LUMINOUS DIAMETER: 3.000

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE

IN DEG

45	26319.
55	18344.
65	8039.
75	1609.
85	2767.





HUBBELL
Lighting

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



REPORT NUMBER: 15.02367
ISSUE DATE: 12/29/15
PREPARED FOR: PROGRESS

PAGE: 3 OF 7

CANDELA DISTRIBUTION

	0.0
0.0	89.4
2.5	89.7
5.0	90.5
7.5	91.6
10.0	92.7
12.5	93.9
15.0	94.7
17.5	95.8
20.0	96.7
22.5	97.5
25.0	98.2
27.5	98.6
30.0	98.8
32.5	98.5
35.0	98.0
37.5	96.7
40.0	94.3
42.5	90.6
45.0	84.9
47.5	77.6
50.0	68.5
52.5	58.4
55.0	48.0
57.5	37.5
60.0	28.5
62.5	21.2
65.0	15.5
67.5	10.7
70.0	6.8
72.5	3.8
75.0	1.9
77.5	1.1
80.0	1.2
82.5	1.1
85.0	1.1
87.5	0.8
90.0	0.0



HUBBELL
Lighting

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



REPORT NUMBER: 15.02367
ISSUE DATE: 12/29/15
PREPARED FOR: PROGRESS

PAGE: 4 OF 7

ZONAL LUMEN SUMMARY

0- 5	2.2
5- 10	6.6
10- 15	11.1
15- 20	15.8
20- 25	20.5
25- 30	24.9
30- 35	29.0
35- 40	32.2
40- 45	33.3
45- 50	31.1
50- 55	25.3
55- 60	17.5
60- 65	10.5
65- 70	5.5
70- 75	2.1
75- 80	0.7
80- 85	0.6
85- 90	0.4



HUBBELL
Lighting

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



REPORT NUMBER: 15.02367
ISSUE DATE: 12/29/15
PREPARED FOR: PROGRESS

PAGE: 5 OF 7

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	2
5- 10	7
10- 15	11
15- 20	16
20- 25	20
25- 30	25
30- 35	29
35- 40	32
40- 45	33
45- 50	31
50- 55	25
55- 60	17
60- 65	10
65- 70	6
70- 75	2
75- 80	1
80- 85	1
85- 90	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	9
0- 20	36
0- 30	81
0- 40	142
0- 50	207
0- 60	249
0- 70	265
0- 80	268
0- 90	269



HUBBELL
Lighting

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



REPORT NUMBER: 15.02367
ISSUE DATE: 12/29/15

PAGE: 6 OF 7

PREPARED FOR: PROGRESS

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	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	19	19	19	19	18	18	18	18	17	17	17	17	17	17	16	16	16	16
1	17	17	16	16	17	16	16	16	16	15	15	15	15	15	15	14	14	14
2	16	15	14	13	16	15	14	13	14	13	13	14	13	13	13	13	12	12
3	15	13	12	11	14	13	12	11	13	12	11	12	11	11	12	11	11	10
4	14	12	11	10	13	12	11	10	11	10	10	11	10	9	11	10	9	9
5	13	11	9	8	12	11	9	8	10	9	8	10	9	8	10	9	8	8
6	12	10	8	7	11	10	8	7	9	8	7	9	8	7	9	8	7	7
7	11	9	7	7	10	9	7	7	8	7	6	8	7	6	8	7	6	6
8	10	8	7	6	10	8	7	6	8	7	6	7	6	6	7	6	6	5
9	9	7	6	5	9	7	6	5	7	6	5	7	6	5	7	6	5	5
10	9	7	5	5	9	7	5	5	6	5	5	6	5	5	6	5	5	4

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.

Project Number
15.02367



HUBBELL
Lighting

Date
12/29/2015

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

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