

Project Number
17.00700



HUBBELL
Lighting

Date
3/16/2017

LAB 6

Test Sample Description

Catalog Number: P5623-2030K9

Description: 1-Lt. Lrg. LED Wall Lantern w/HAL 9W AC LED MODULE WITH WHITE LENS COVER

Test Method: IES LM-79-08 § 10

Preburn Time: 0:20

Time To Stabilize: 3:25

Total Operating Time: 4:25

Input Voltage (Volts): 120.0

Input Current (Amps): 0.070

Input Wattage (Watts): 7.8

Ambient Temp (°C): 24.5



Hubbell Lighting, Inc.

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

Checked: M. ELLMANN
Approved: D. BLACK

NVLAP[®]
TESTING
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.



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LUMINAIRE: 1-Lt. Lrg. LED Wall Lantern w/HAL 9W AC LED Module

LAMP CAT. NO.: 93049180-3130

LAMP: 20-3000K Nichia LEDs

REFRACTOR: WHITE LENS COVER

MOUNTING: wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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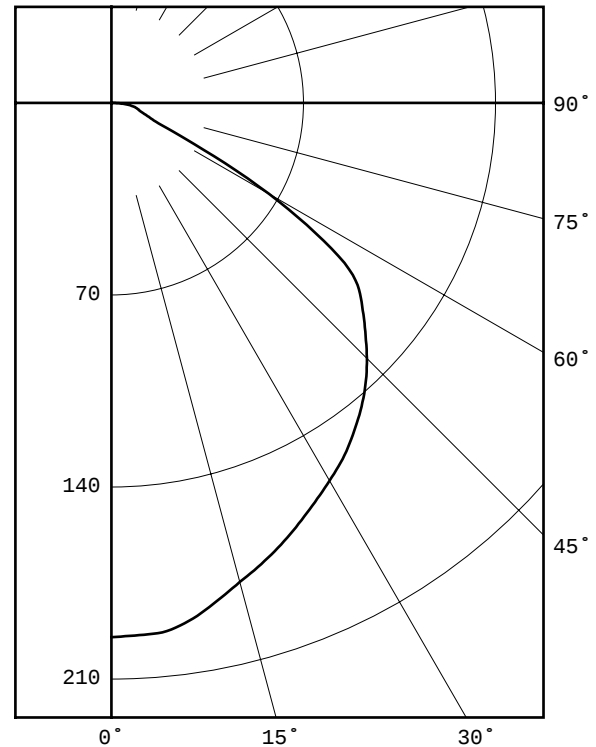
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DEG	CANDELA	LUMENS
0	195	
5	194	18
15	181	51
25	166	77
35	151	95
45	132	102
55	106	90
65	25	30
75	11	11
85	5	5
90	0	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	146	30.5
0- 40	241	50.3
0- 60	432	90.2
0- 90	479	100.0
90-180	0	0.0
0-180	479	100.0

EFFICACY = 61.1 lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 1.22
LUMINOUS DIAMETER: 11.750
HEIGHT OF SIDE : 0.750

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	2462.
55	2362.
65	717.
75	445.
85	400.





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CANDELA DISTRIBUTION

0.0	195
2.5	194
5.0	194
7.5	192
10.0	189
12.5	185
15.0	181
17.5	177
20.0	174
22.5	170
25.0	166
27.5	163
30.0	159
32.5	156
35.0	151
37.5	147
40.0	142
42.5	137
45.0	132
47.5	126
50.0	120
52.5	114
55.0	106
57.5	88
60.0	66
62.5	42
65.0	25
67.5	17
70.0	14
72.5	12
75.0	11
77.5	10
80.0	9
82.5	7
85.0	5
87.5	2
90.0	0



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	5
5-	10	14
10-	15	22
15-	20	29
20-	25	36
25-	30	41
30-	35	46
35-	40	49
40-	45	51
45-	50	51
50-	55	49
55-	60	40
60-	65	21
65-	70	9
70-	75	6
75-	80	5
80-	85	4
85-	90	1

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	18
10-	20	51
20-	30	77
30-	40	95
40-	50	102
50-	60	90
60-	70	30
70-	80	11
80-	90	5



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

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 TEST SAMPLE.

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Goniophotometer Calibration

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

Lamp Number: ITL78966-1000-38

Calibration Current: 8.300 Amps DC

Total Luminous Flux: 25889.0 Lumens

Calibration Date: 09/02/2016

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	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/2/2017

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