

Project Number
17.00652



Date
3/15/2017

LAB 1

Test Sample Description

Catalog Number: 945622-2030K9

Description: 1-Lt. Med. LED Wall Lantern w/HAL AC LED Module

Test Method: IES LM-79-08 § 10

Preburn Time: 0:05

Time To Stabilize: 3:20

Total Operating Time: 3:46

Input Voltage (Volts): 120.1

Input Current (Amps): 0.069

Input Wattage (Watts): 7.8

Ambient Temp (°C): 24.1

PF @ 120V: 0.977

THD @ 120V (%): 8.35



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

Checked: M. HALL
Approved: D. BLACK



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PREPARED FOR: PROGRESS

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LUMINAIRE: 1-Lt. Med. LED Wall Lantern w/HAL AC LED Module

LAMP CAT. NO.: 93049180-3130

LAMP: 20 - NICHIA 3000K LEDs

INPUT ELECTRICAL: 120.1 VOLTS, 7.83 WATTS, 0.0695 AMPS

MOUNTING: wall

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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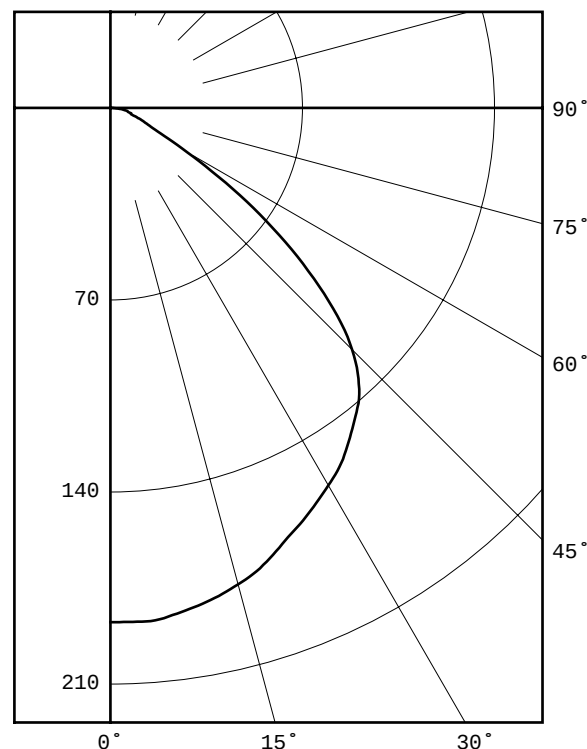
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DEG	CANDELA	LUMENS
0	187	
5	188	18
15	180	51
25	166	77
35	151	94
45	125	94
55	64	57
65	16	18
75	8	8
85	3	3
90	0	

ZONAL LUMEN ZONE	SUMMARY LUMENS	%FIXT
0- 30	145	34.6
0- 40	239	57.0
0- 60	390	93.0
0- 90	420	100.0
90-180	0	0.0
0-180	420	100.0

EFFICACY = 53.6 lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 1.27
LUMINOUS DIAMETER: 8.000

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE IN DEG	AVERAGE
45	5434.
55	3419.
65	1189.
75	917.
85	1026.





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CANDELA DISTRIBUTION

0.0	187
2.5	188
5.0	188
7.5	186
10.0	184
12.5	182
15.0	180
17.5	177
20.0	173
22.5	169
25.0	166
27.5	162
30.0	159
32.5	155
35.0	151
37.5	146
40.0	141
42.5	134
45.0	125
47.5	112
50.0	97
52.5	80
55.0	64
57.5	47
60.0	33
62.5	22
65.0	16
67.5	13
70.0	11
72.5	8
75.0	8
77.5	7
80.0	6
82.5	5
85.0	3
87.5	1
90.0	0



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	4
5-	10	13
10-	15	22
15-	20	29
20-	25	36
25-	30	41
30-	35	46
35-	40	49
40-	45	49
45-	50	45
50-	55	35
55-	60	22
60-	65	11
65-	70	7
70-	75	5
75-	80	4
80-	85	2
85-	90	1

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	18
10-	20	51
20-	30	77
30-	40	94
40-	50	94
50-	60	57
60-	70	18
70-	80	8
80-	90	3



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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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30

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: 09/09/2016

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 1 - Test Distance: 31.75'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27071V	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	176F47B	11/7/2017

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