

Project Number
15.00771



HUBBELL
Lighting

Date
5/15/2015

LAB 6

Test Sample Description

Catalog Number: P5143-0930K9
Description: "Island" Pendant w/ AC HAL 9W LED Module

Test Method: IES LM-79-08 § 10
Preburn Time: 00:00
Time To Stabilize: 4:38
Total Operating Time: 5:00

Input Voltage (Volts): 120.0
Input Current (Amps): 0.068
Input Wattage (Watts): 7.6
Ambient Temp (°C): 24.1



Hubbell Lighting, Inc.

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

Checked: R. WILLIAMS
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.



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CATALOG NUMBER: P5143-0930K9

LUMINAIRE: "Island" Pendant w/AC HAL 9W LED Module

REFLECTOR: Clear Prismatic Glass - Part# 93061972

BOTTOM ENCLOSURE: Etched Flat Glass

LAMP CAT. NO.: 93049180-3130

LAMP: 20- Nichia 3000K LEDs

MOUNTING: PENDANT

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

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DEG	CANDELA	LUMENS
0	172	
5	168	16
15	137	38
25	92	42
35	54	36
45	84	59
55	70	63
65	51	50
75	29	32
85	11	12
90	5	
95	7	7
105	9	10
115	13	13
125	16	14
135	20	16
145	27	17
155	30	14
165	29	8
175	17	2
180	13	

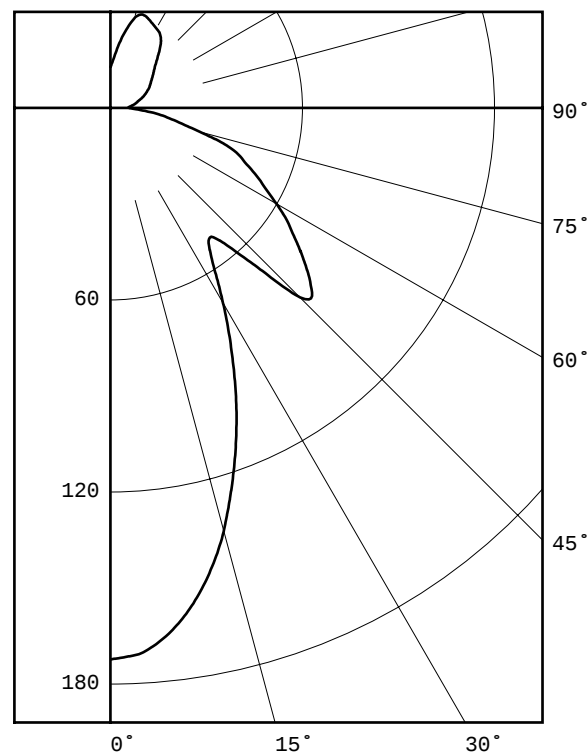
ZONAL ZONE	LUMEN	SUMMARY LUMENS	%FIXT
0- 30		95	21.3
0- 40		131	29.3
0- 60		253	56.6
0- 90		347	77.6
90-120		30	6.7
90-130		44	9.8
90-150		77	17.1
90-180		100	22.4
0-180		448	100.0

TOTAL INPUT WATTS = 7.6

EFFICACY = 58.9 Lm/W

CIE TYPE - SEMI-DIRECT

LUMINAIRE SPACING CRITERION = 0.8





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LUMINOUS DIAMETER: 6.500
HEIGHT OF SIDE : 7.000

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE

IN DEG

45	2331.
55	1929.
65	1416.
75	855.
85	350.



®

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CANDELA DISTRIBUTION

	0.0
0.0	172
5.0	168
10.0	155
15.0	137
20.0	114
25.0	92
30.0	70
35.0	54
40.0	55
45.0	84
50.0	81
55.0	70
60.0	60
65.0	51
70.0	43
75.0	29
80.0	19
85.0	11
90.0	5
95.0	7
100.0	8
105.0	9
110.0	11
115.0	13
120.0	14
125.0	16
130.0	18
135.0	20
140.0	24
145.0	27
150.0	29
155.0	30
160.0	31
165.0	29
170.0	23
175.0	17
180.0	13



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ZONAL LUMEN SUMMARY

0- 5	4.
5- 10	12.
10- 15	17.
15- 20	21.
20- 25	22.
25- 30	20.
30- 35	18.
35- 40	18.
40- 45	25.
45- 50	34.
50- 55	33.
55- 60	30.
60- 65	27.
65- 70	23.
70- 75	19.
75- 80	13.
80- 85	8.
85- 90	4.
90- 95	3.
95-100	4.
100-105	5.
105-110	5.
110-115	6.
115-120	7.
120-125	7.
125-130	7.
130-135	8.
135-140	8.
140-145	9.
145-150	8.
150-155	7.
155-160	6.
160-165	5.
165-170	3.
170-175	1.
175-180	0.



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**5-DEGREE
ZONAL LUMEN SUMMARY**

0- 5	4
5- 10	12
10- 15	17
15- 20	21
20- 25	22
25- 30	20
30- 35	18
35- 40	18
40- 45	25
45- 50	34
50- 55	33
55- 60	30
60- 65	27
65- 70	23
70- 75	19
75- 80	13
80- 85	8
85- 90	4
90- 95	3
95-100	4
100-105	5
105-110	5
110-115	6
115-120	7
120-125	7
125-130	7
130-135	8
135-140	8
140-145	9
145-150	8
150-155	7
155-160	6
160-165	5
165-170	3
170-175	1
175-180	0

**10-DEGREE
ZONAL LUMEN SUMMARY**

0- 10	16
0- 20	54
0- 30	95
0- 40	131
0- 50	190
0- 60	253
0- 70	303
0- 80	335
0- 90	347
0-100	354
0-110	364
0-120	377
0-130	391
0-140	407
0-150	424
0-160	438
0-170	446
0-180	448



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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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81	78
1	103	98	93	89	98	93	89	86	85	82	79	77	75	73	70	68	67	63
2	93	85	78	72	88	81	74	69	74	68	64	67	63	59	61	58	55	51
3	84	74	66	59	80	70	63	57	64	58	53	59	54	49	53	49	46	43
4	77	65	56	50	73	62	54	48	57	50	45	52	46	42	47	43	39	36
5	71	58	49	42	67	56	47	41	51	44	39	47	41	36	43	38	34	31
6	65	52	43	37	62	50	42	36	46	39	34	42	36	32	39	34	30	27
7	61	47	39	33	57	45	37	32	42	35	30	38	33	28	35	30	27	24
8	56	43	35	29	54	41	34	28	38	32	27	35	30	25	33	28	24	22
9	53	40	32	26	50	38	31	25	35	29	24	33	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

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.

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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: 25753.0 Lumens

Calibration Date: 11/24/2014

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	11/12/2015
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/11/2015

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