

Project Number
16.00013



Date
1/8/2016

LAB 6

Test Sample Description

Catalog Number: P5800-12930K9
Description: 1-Lt. LED Linear Lantern w/ 1- 9W LED Module

Test Method: IES LM-79-08 § 10
Preburn Time: 0:20
Time To Stabilize: 2:32
Total Operating Time: 3:25

Input Voltage (Volts): 120.2
Input Current (Amps): 0.069
Input Wattage (Watts): 7.8
Ambient Temp (°C): 24.4



Hubbell Lighting, Inc.

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

Checked: D. ROBBINS
Approved: D. BLACK



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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PREPARED FOR: PROGRESS
CATALOG NUMBER: P5800-12930K9
LUMINAIRE: 1-Lt. LED Linear Lantern w/ 1 9W LED Module
LAMP CAT. NO.: 93049180-3130
LAMP: 20- Nichia 3000K LEDs
MOUNTING: Wall
NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

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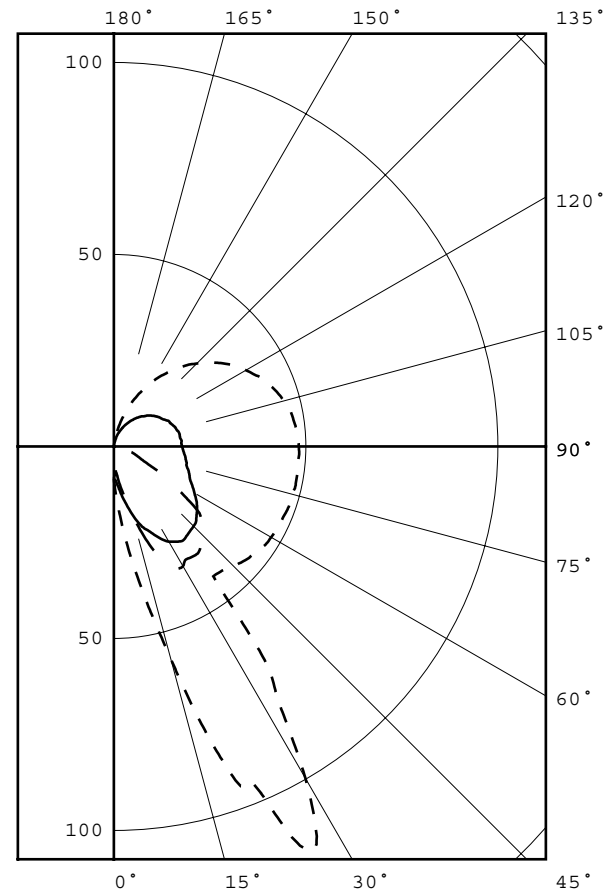
CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	8	8	8	8	8	1
5	18	15	10	7	7	8
15	57	40	18	17	18	23
25	115	73	26	28	35	29
35	70	75	30	33	35	27
45	44	39	29	29	33	28
55	47	41	26	22	22	27
65	48	42	22	15	8	26
75	48	42	20	11	3	26
85	48	42	18	8	1	25
90	48	42	18	7	0	23
95	48	41	18	7	0	20
105	46	39	17	7	0	16
115	42	36	16	6	0	11
125	37	32	14	6	0	7
135	31	26	11	4	0	3
145	23	19	8	3	0	1
155	15	12	5	2	0	0
165	6	5	3	1	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	32	10.8
0- 40	61	20.4
0- 60	116	38.7
0- 90	195	64.9
90-120	68	22.6
90-130	83	27.8
90-150	101	33.7
90-180	105	35.1
0-180	300	100.0

TOTAL INPUT WATTS = 7.8
EFFICACY = 38.5 Lm/W
CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 4.0 3.1 2.9



LEGEND:
0-deg: - - - - -
90-deg: _____
180-deg: — — — — —



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 3.000 5.500
HEIGHT OF SIDE : 6.500 6.500

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	1845.	1790.	1376.
55	1859.	1608.	892.
65	1877.	1396.	315.
75	1917.	1314.	136.
85	2011.	1359.	29.



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ZONAL LUMEN SUMMARY

0- 5	0.
5- 10	1.
10- 15	3.
15- 20	6.
20- 25	9.
25- 30	13.
30- 35	14.
35- 40	14.
40- 45	13.
45- 50	14.
50- 55	14.
55- 60	14.
60- 65	14.
65- 70	13.
70- 75	13.
75- 80	13.
80- 85	13.
85- 90	13.
90- 95	13.
95-100	12.
100-105	12.
105-110	11.
110-115	10.
115-120	9.
120-125	8.
125-130	7.
130-135	6.
135-140	5.
140-145	4.
145-150	3.
150-155	2.
155-160	1.
160-165	1.
165-170	0.
170-175	0.
175-180	0.



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	1
10- 15	3
15- 20	6
20- 25	9
25- 30	13
30- 35	14
35- 40	14
40- 45	13
45- 50	14
50- 55	14
55- 60	14
60- 65	14
65- 70	13
70- 75	13
75- 80	13
80- 85	13
85- 90	13
90- 95	13
95-100	12
100-105	12
105-110	11
110-115	10
115-120	9
120-125	8
125-130	7
130-135	6
135-140	5
140-145	4
145-150	3
150-155	2
155-160	1
160-165	1
165-170	0
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	1
0- 20	10
0- 30	32
0- 40	61
0- 50	88
0- 60	116
0- 70	143
0- 80	169
0- 90	195
0-100	219
0-110	242
0-120	262
0-130	278
0-140	289
0-150	296
0-160	299
0-170	300
0-180	300



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	11111111111111	104104104104	92	92	92	80	80	80	70	70	70	65						
1	97	91	86	81	91	85	80	76	75	71	67	65	62	59	56	53	51	47
2	87	78	70	63	81	73	66	60	63	58	53	55	50	46	47	43	40	36
3	79	67	58	51	73	63	55	48	55	48	43	47	42	38	40	36	33	29
4	71	59	49	42	66	55	46	40	48	41	36	41	36	31	35	31	27	24
5	65	52	42	35	61	49	40	34	42	35	30	37	31	27	31	27	23	20
6	60	46	37	30	56	43	35	29	38	31	26	33	27	23	28	24	20	17
7	55	41	32	26	51	39	31	25	34	27	22	30	24	20	26	21	17	15
8	51	37	29	23	48	35	27	22	31	24	19	27	21	17	23	19	15	13
9	47	34	26	20	44	32	24	19	28	22	17	25	19	15	21	17	13	11
10	44	31	23	18	41	29	22	17	26	20	15	23	17	14	20	15	12	10

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.

