

Project Number
15.00605



HUBBELL
Lighting

Date
4/16/2015

LAB 1

Test Sample Description

Catalog Number: P6526-3130K9

Description: HANGING LANTERN with CLEAR GLASS REFRACTOR and 9W
HAL MODULE

Test Method: IES LM-79-08 § 10

Preburn Time: 00:00

Time To Stabilize: 1:12

Total Operating Time: 2:12

Input Voltage (Volts): 120.0

Input Current (Amps): 0.069

Input Wattage (Watts): 7.7

Ambient Temp (°C): 25.6



Hubbell Lighting, Inc.

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

Checked: D. BLACK
Approved: M. WASHBURN

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: P6526-3130K9

LUMINAIRE: HANGING LANTERN with CLEAR GLASS REFRACTOR and 9W HAL MODULE

LAMP CAT. NO.: 93049180-3130

LAMP: 20 - NICHIA 3000K LEDS

MOUNTING: CEILING

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

CANDELA DISTRIBUTION

FLUX

	0.0	22.5	45.0	67.5	90.0	
0	250	250	250	250	250	
5	238	237	228	235	236	21
15	127	140	114	138	130	45
25	224	221	145	218	211	93
35	144	170	115	166	146	87
45	40	30	15	34	40	32
55	76	60	29	60	77	47
65	30	31	18	29	25	26
75	4	3	1	3	4	3
85	1	1	0	1	1	1
90	1	1	0	1	1	
95	1	1	1	1	1	1
105	1	1	1	1	1	1
115	1	1	1	1	1	1
125	1	1	1	1	1	1
135	1	1	1	1	1	1
145	1	1	1	1	1	1
155	1	1	1	1	1	0
165	1	0	0	0	1	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0 - 30	159	44.1
0 - 40	246	68.2
0 - 60	325	90.1
0 - 90	355	98.3
90-120	3	0.9
90-130	4	1.1
90-150	5	1.5
90-180	6	1.7
0-180	361	100.0

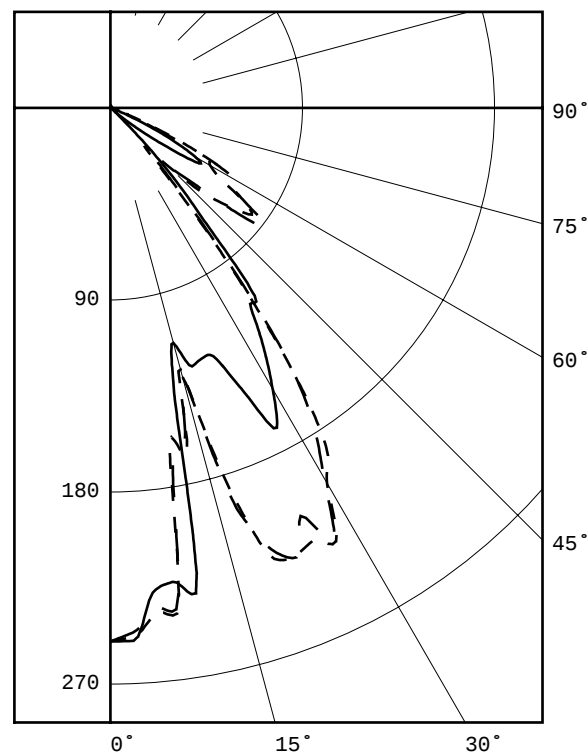
TOTAL INPUT WATTS = 7.7

EFFICACY = 46.9 Lm/W

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 0.5 0.5



LEGEND:
0-deg: - - - - -
45-deg: - - - - -
90-deg: - - - - -



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 6.250 6.250
HEIGHT OF SIDE :11.500 11.500

LUMINANCE DATA IN CANDELA/SQ METER
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 790. 296. 790.
55 1449. 553. 1468.
65 569. 342. 474.
75 78. 19. 78.
85 21. 0. 21.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	250	250	250	250	250
5.0	238	237	228	235	236
10.0	159	172	231	169	168
15.0	127	140	114	138	130
20.0	225	212	125	199	220
25.0	224	221	145	218	211
30.0	203	217	152	217	200
35.0	144	170	115	166	146
40.0	36	79	65	91	45
45.0	40	30	15	34	40
50.0	71	64	4	48	74
55.0	76	60	29	60	77
60.0	54	42	46	41	67
65.0	30	31	18	29	25
70.0	6	8	2	7	9
75.0	4	3	1	3	4
80.0	1	1	1	1	1
85.0	1	1	0	1	1
90.0	1	1	0	1	1
95.0	1	1	1	1	1
100.0	1	1	1	1	1
105.0	1	1	1	1	1
110.0	1	1	1	1	1
115.0	1	1	1	1	1
120.0	1	1	1	1	1
125.0	1	1	1	1	1
130.0	1	1	1	1	1
135.0	1	1	1	1	1
140.0	1	1	1	1	1
145.0	1	1	1	1	1
150.0	1	1	1	1	1
155.0	1	1	1	1	1
160.0	1	1	1	1	1
165.0	1	0	0	0	1
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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ZONAL LUMEN SUMMARY

0- 5	6.
5- 10	16.
10- 15	18.
15- 20	26.
20- 25	42.
25- 30	51.
30- 35	51.
35- 40	36.
40- 45	17.
45- 50	15.
50- 55	23.
55- 60	24.
60- 65	19.
65- 70	7.
70- 75	2.
75- 80	1.
80- 85	1.
85- 90	0.
90- 95	1.
95-100	1.
100-105	1.
105-110	1.
110-115	1.
115-120	0.
120-125	0.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.



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**5-DEGREE
ZONAL LUMEN SUMMARY**

0- 5	6
5- 10	16
10- 15	18
15- 20	26
20- 25	42
25- 30	51
30- 35	51
35- 40	36
40- 45	17
45- 50	15
50- 55	23
55- 60	24
60- 65	19
65- 70	7
70- 75	2
75- 80	1
80- 85	1
85- 90	0
90- 95	1
95-100	1
100-105	1
105-110	1
110-115	1
115-120	0
120-125	0
125-130	0
130-135	0
135-140	0
140-145	0
145-150	0
150-155	0
155-160	0
160-165	0
165-170	0
170-175	0
175-180	0

**10-DEGREE
ZONAL LUMEN SUMMARY**

0- 10	21
0- 20	66
0- 30	159
0- 40	246
0- 50	278
0- 60	325
0- 70	351
0- 80	354
0- 90	355
0-100	356
0-110	357
0-120	358
0-130	359
0-140	359
0-150	360
0-160	360
0-170	361
0-180	361



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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	98
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	97	91	87	101	95	90	86	91	87	84	88	84	81	85	82	79	77
3	96	87	81	75	93	86	80	75	83	77	73	80	75	72	77	74	70	68
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	62	58	67	61	57	65	60	56	54
6	77	66	58	53	75	65	58	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	51	46	42	41
9	64	52	45	40	62	51	44	40	50	44	39	49	43	39	48	43	39	37
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34

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: 12/02/2014

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
Goniophotometer	ITL / HLI LAB 1- Test Distance: 31.75'	N/A	
Power Analyzer	Yokogawa / WT 332	C2QA27071V	11/12/2015
Power Source	Voltage-Regulated House Power	N/A	N/A
Thermometer	National Instruments / USB-TC01	176F4E3	11/11/2015

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