

Project Number
15.00492



HUBBELL
Lighting

Date
3/27/2015
REVISED
4/01/2015
LAB 6

Test Sample Description

Catalog Number: P5188-10830K9
Description: Fresnel Lens Pendant

NOTE: The product catalog number throughout the report wasn't P5188-10830K9

Test Method: IES LM-79-08 § 10
Preburn Time: 00:00
Time To Stabilize: 0:45
Total Operating Time: 2:51

Input Voltage (Volts): 120.0
Input Current (Amps): 0.145
Input Wattage (Watts): 17.3
Ambient Temp (°C): 24.8



Hubbell Lighting, Inc.

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

Checked: B. FLAUM
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: P5188-10830K9

LUMINAIRE: Fresnel Lens Pendant

LAMP CAT. NO.: 93047261-4130

LAMP: 40 - NICHIA 3000K LEDs

HAL 17W 120V Module. This report is sufficient for all finishes.

MOUNTING: Ceiling

NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.

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DEG	CANDELA	LUMENS
0	432	
5	448	43
15	457	130
25	424	193
35	347	213
45	242	184
55	138	124
65	64	65
75	25	28
85	7	8
90	0	

ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0- 30	365
0- 40	579
0- 60	887
0- 90	987
90-180	0
0-180	987

	%FIXT
0- 30	37.0
0- 40	58.6
0- 60	89.8
0- 90	100.0
90-180	0.0
0-180	100.0

TOTAL INPUT WATTS = 17.3

EFFICACY = 57.1 Lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 1.3

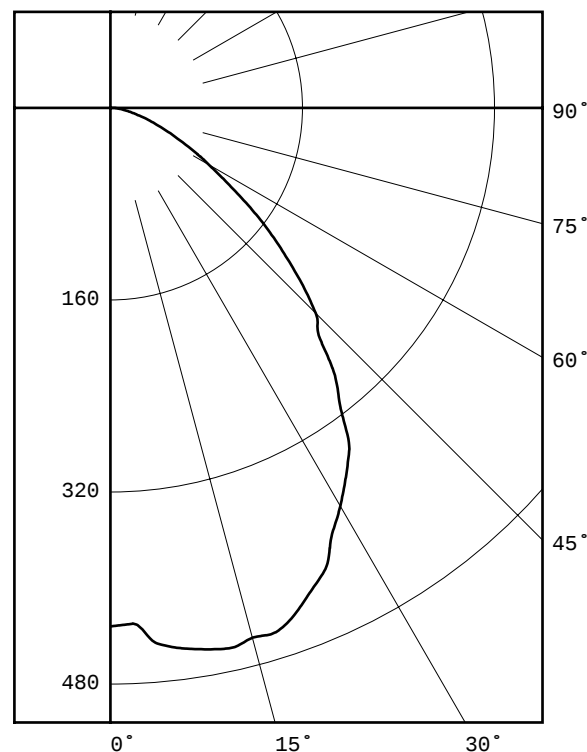
LUMINOUS DIAMETER: 10.000

HEIGHT OF SIDE : 0.500

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE AVERAGE
IN DEG

45	6348.
55	4351.
65	2629.
75	1540.
85	917.





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CANDELA DISTRIBUTION

	0.0
0.0	432
2.5	430
5.0	448
7.5	454
10.0	458
12.5	461
15.0	457
17.5	458
20.0	449
22.5	436
25.0	424
27.5	400
30.0	383
32.5	365
35.0	347
37.5	315
40.0	291
42.5	257
45.0	242
47.5	216
50.0	189
52.5	164
55.0	138
57.5	114
60.0	95
62.5	79
65.0	64
67.5	52
70.0	41
72.5	33
75.0	25
77.5	19
80.0	14
82.5	10
85.0	7
87.5	5
90.0	0



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ZONAL LUMEN SUMMARY

0- 5	10.
5- 10	32.
10- 15	54.
15- 20	75.
20- 25	91.
25- 30	102.
30- 35	107.
35- 40	106.
40- 45	97.
45- 50	87.
50- 55	71.
55- 60	53.
60- 65	38.
65- 70	26.
70- 75	17.
75- 80	10.
80- 85	6.
85- 90	2.



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**5-DEGREE
ZONAL LUMEN SUMMARY**

0- 5	10
5- 10	32
10- 15	54
15- 20	75
20- 25	91
25- 30	102
30- 35	107
35- 40	106
40- 45	97
45- 50	87
50- 55	71
55- 60	53
60- 65	38
65- 70	26
70- 75	17
75- 80	10
80- 85	6
85- 90	2

**10-DEGREE
ZONAL LUMEN SUMMARY**

0- 10	43
0- 20	172
0- 30	365
0- 40	579
0- 50	762
0- 60	887
0- 70	952
0- 80	979
0- 90	987



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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	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	81	70	61	56	79	68	61	55	66	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	69	57	49	44	56	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31

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>
Goniophotometer	ITL / HLI LAB 6 - Test Distance: 31.3'	N/A	N/A
Power Analyzer	Yokogawa / WT 332	C2QA27076V	11/12/2015
Power Source	Voltage-Regulated House Power	N/A	N/A
Thermometer	National Instruments / USB-TC01	1912745	11/11/2015

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