

Project Number
15.00548



HUBBELL
Lighting

Date
4/9/2015

LAB 6

Test Sample Description

Catalog Number: P5050-0930K9
Description: Fresnel Lens Pendant

This report is sufficient for all finishes.

Test Method: IES LM-79-08 § 10
Preburn Time: 00:00
Time To Stabilize: 1:26
Total Operating Time: 1:47

Input Voltage (Volts): 120.0
Input Current (Amps): 0.070
Input Wattage (Watts): 7.8
Ambient Temp (°C): 24.6



Hubbell Lighting, Inc.

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

Checked: B. FLAUM
Approved: M. WASHBURN



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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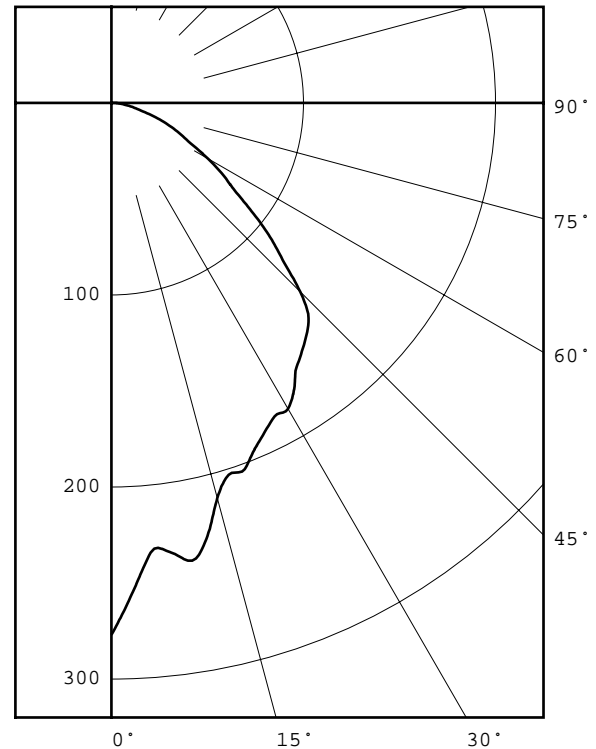
REPORT NUMBER: 15.00548
ISSUE DATE: 04/08/15
PREPARED FOR: PROGRESS
CATALOG NUMBER: P5050-0930K9
LUMINAIRE: Fresnel Lens Pendant
LAMP CAT. NO.: 93049180-3130 Module
LAMP: 20 - Nichia 3000 K LEDs
MOUNTING: Ceiling
Part # 93051902 Clear Fresnel Glass
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.

PAGE: 2 OF 8

DEG	CANDELA	LUMENS
0	277	
5	235	23
15	213	61
25	189	88
35	168	106
45	139	105
55	77	71
65	41	41
75	17	19
85	5	6
90	2	
95	0	1
105	0	0
115	0	0
125	0	0
135	0	0
145	0	0
155	0	0
165	0	0
175	0	0
180	0	0

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	172	33.0
0- 40	278	53.4
0- 60	454	87.2
0- 90	520	99.9
90-120	1	0.1
90-130	1	0.1
90-150	1	0.1
90-180	1	0.1
0-180	521	100.0

TOTAL INPUT WATTS = 7.8
EFFICACY = 66.8 Lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 1.0





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PAGE: 3 OF 8

LUMINOUS DIAMETER: 5.000

LUMINANCE DATA IN CANDELA/SQ METER
ANGLE AVERAGE
IN DEG

45	15512.
55	10594.
65	7656.
75	5183.
85	4527.



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PAGE: 4 OF 8

CANDELA DISTRIBUTION

	0.0
0.0	277
5.0	235
10.0	242
15.0	213
20.0	203
25.0	189
30.0	184
35.0	168
40.0	158
45.0	139
50.0	107
55.0	77
60.0	58
65.0	41
70.0	29
75.0	17
80.0	10
85.0	5
90.0	2
95.0	0
100.0	0
105.0	0
110.0	0
115.0	0
120.0	0
125.0	0
130.0	0
135.0	0
140.0	0
145.0	0
150.0	0
155.0	0
160.0	0
165.0	0
170.0	0
175.0	0
180.0	0



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PAGE: 5 OF 8

ZONAL LUMEN SUMMARY

0- 5	6.
5- 10	17.
10- 15	27.
15- 20	34.
20- 25	41.
25- 30	47.
30- 35	52.
35- 40	54.
40- 45	56.
45- 50	49.
50- 55	40.
55- 60	31.
60- 65	24.
65- 70	18.
70- 75	12.
75- 80	7.
80- 85	4.
85- 90	2.
90- 95	1.
95-100	0.
100-105	0.
105-110	0.
110-115	0.
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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PAGE: 6 OF 8

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	6
5- 10	17
10- 15	27
15- 20	34
20- 25	41
25- 30	47
30- 35	52
35- 40	54
40- 45	56
45- 50	49
50- 55	40
55- 60	31
60- 65	24
65- 70	18
70- 75	12
75- 80	7
80- 85	4
85- 90	2
90- 95	1
95-100	0
100-105	0
105-110	0
110-115	0
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	23
0- 20	84
0- 30	172
0- 40	278
0- 50	383
0- 60	454
0- 70	495
0- 80	514
0- 90	520
0-100	521
0-110	521
0-120	521
0-130	521
0-140	521
0-150	521
0-160	521
0-170	521
0-180	521



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PAGE: 7 OF 8

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	51	46	57	51	46	55	50	45	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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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Date
4/9/2015

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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