

Project Number
15.00532



HUBBELL
Lighting

Date
4/7/2015

LAB 5

Test Sample Description

Catalog Number: P7083-0930K9
Description: Progress Signature 1 Light Wall Sconce in Brushed Nickel

Test Method: IES LM-79-08 § 10
Preburn Time: 00:00
Time To Stabilize: 1:11
Total Operating Time: 4:07

Input Voltage (Volts): 120.1
Input Current (Amps): 0.150
Input Wattage (Watts): 16.7
Ambient Temp (°C): 24.7



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Checked: R. WILLIAMS
Approved: M. WASHBURN





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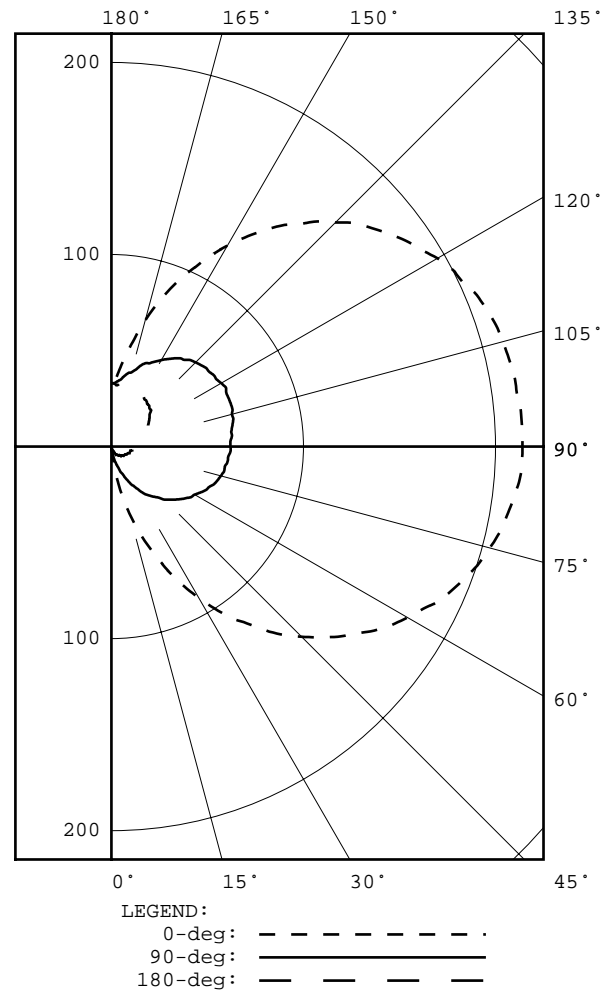
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 CATALOG NUMBER: P7083-0930K9
 LUMINAIRE: Wall Sconce
 LAMP CAT. NO.: 93047261-4130 Module
 LAMP: 40-3000K Nichia LEDs
 MOUNTING: Wall
 White Acrylic Swirl/Tranlucent Acrylic Top and Bottom
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE
 SAMPLE PROVIDED.

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CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	0	0	0	0	0	
5	0	2	1	0	0	0
15	36	26	9	2	2	4
25	73	52	19	4	3	13
35	109	78	30	6	5	27
45	140	101	39	9	7	43
55	167	121	47	11	8	60
65	189	138	54	12	9	75
75	204	149	59	13	10	87
85	213	156	61	14	11	93
90	214	157	62	14	11	
95	214	157	63	14	11	94
105	211	156	65	19	15	93
115	202	151	66	23	20	87
125	187	141	65	27	24	76
135	165	126	62	30	28	61
145	137	106	56	32	30	44
155	103	82	48	33	32	27
165	68	57	40	33	33	13
175	38	36	34	33	32	3
180	33	33	33	33	33	



ZONAL LUMEN	SUMMARY	
ZONE	LUMENS	%FIXT
0- 30	18	2.0
0- 40	45	5.0
0- 60	147	16.4
0- 90	401	44.6
90-120	275	30.5
90-130	350	39.0
90-150	455	50.6
90-180	498	55.4
0-180	899	100.0

TOTAL INPUT WATTS = 16.7
 EFFICACY = 53.8 Lm/W
 CIE TYPE - DIRECT-INDIRECT



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 3.250 8.500
HEIGHT OF SIDE : 9.000 9.000

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	2946.	1503.	147.
55	3296.	1830.	158.
65	3615.	2191.	172.
75	3900.	2582.	191.
85	4198.	2996.	217.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	0	0	0	0	0	0	0	0	0
5.0	0	0	2	2	1	1	0	0	0
10.0	17	16	12	9	5	2	1	1	1
15.0	36	33	26	17	9	4	2	2	2
20.0	54	50	39	25	14	7	3	2	2
25.0	73	66	52	34	19	9	4	3	3
30.0	91	83	65	43	24	12	6	4	5
35.0	109	99	78	52	30	14	6	5	5
40.0	125	114	90	61	34	16	8	5	6
45.0	140	129	101	69	39	19	9	6	7
50.0	154	142	112	75	43	21	10	6	7
55.0	167	153	121	82	47	23	11	7	8
60.0	178	163	129	88	50	24	11	7	8
65.0	189	174	138	94	54	26	12	8	9
70.0	197	182	144	98	57	28	13	8	10
75.0	204	188	149	102	59	29	13	9	10
80.0	209	193	153	104	60	29	13	9	11
85.0	213	196	156	106	61	30	14	9	11
90.0	214	197	157	107	62	30	14	9	11
95.0	214	197	157	107	63	30	14	10	11
100.0	213	196	157	108	64	32	16	11	13
105.0	211	195	156	108	65	34	19	14	15
110.0	208	192	154	108	66	36	21	17	18
115.0	202	187	151	107	66	37	23	19	20
120.0	196	181	147	105	66	39	25	22	22
125.0	187	173	141	101	65	40	27	24	24
130.0	177	164	134	97	64	40	28	26	26
135.0	165	154	126	92	62	40	30	28	28
140.0	151	141	116	86	59	40	31	29	29
145.0	137	128	106	79	56	40	32	30	30
150.0	121	113	94	72	52	39	32	31	31
155.0	103	97	82	64	48	38	33	32	32
160.0	86	81	70	56	45	37	33	32	32
165.0	68	64	57	48	40	35	33	32	33
170.0	51	49	45	41	37	34	33	33	33
175.0	38	37	36	35	34	33	33	32	32
180.0	33	33	33	33	33	33	33	33	33



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ZONAL LUMEN SUMMARY

0- 5	0.
5- 10	0.
10- 15	1.
15- 20	3.
20- 25	5.
25- 30	8.
30- 35	12.
35- 40	15.
40- 45	19.
45- 50	24.
50- 55	28.
55- 60	32.
60- 65	36.
65- 70	39.
70- 75	42.
75- 80	44.
80- 85	46.
85- 90	47.
90- 95	47.
95-100	47.
100-105	47.
105-110	46.
110-115	45.
115-120	42.
120-125	40.
125-130	36.
130-135	32.
135-140	28.
140-145	24.
145-150	20.
150-155	15.
155-160	11.
160-165	8.
165-170	5.
170-175	3.
175-180	1.



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	0
5- 10	0
10- 15	1
15- 20	3
20- 25	5
25- 30	8
30- 35	12
35- 40	15
40- 45	19
45- 50	24
50- 55	28
55- 60	32
60- 65	36
65- 70	39
70- 75	42
75- 80	44
80- 85	46
85- 90	47
90- 95	47
95-100	47
100-105	47
105-110	46
110-115	45
115-120	42
120-125	40
125-130	36
130-135	32
135-140	28
140-145	24
145-150	20
150-155	15
155-160	11
160-165	8
165-170	5
170-175	3
175-180	1

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	0
0- 20	4
0- 30	18
0- 40	45
0- 50	88
0- 60	147
0- 70	222
0- 80	308
0- 90	401
0-100	496
0-110	589
0-120	676
0-130	752
0-140	813
0-150	856
0-160	883
0-170	896
0-180	899



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	91	85	79	73	83	77	72	67	62	58	55	49	46	43	37	35	33	27
2	81	71	63	56	73	64	57	51	52	46	41	40	36	32	29	26	23	18
3	73	61	51	44	65	55	47	40	44	38	32	34	29	25	24	21	18	13
4	66	53	43	36	59	47	39	32	38	31	26	29	24	20	21	17	14	10
5	60	46	37	29	54	42	33	27	33	27	21	25	20	16	18	14	11	8
6	55	41	31	25	49	37	29	22	29	23	18	23	17	14	16	12	9	6
7	50	36	27	21	45	33	25	19	26	20	15	20	15	11	14	11	8	5
8	46	33	24	18	42	30	22	16	24	18	13	18	13	10	13	9	7	4
9	43	30	21	16	39	27	19	14	22	16	11	17	12	8	12	8	6	3
10	40	27	19	14	36	24	17	12	20	14	10	15	11	7	11	7	5	3

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: 11/20/2014

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 5 - Test Distance: 56.0'	N/A	
<i>Power Analyzer</i>	Yokogawa / WT 330	C2QA27072V	11/12/2015
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912722	11/11/2015

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