

Project Number
15.00950



HUBBELL
Lighting

Date
6/15/2015

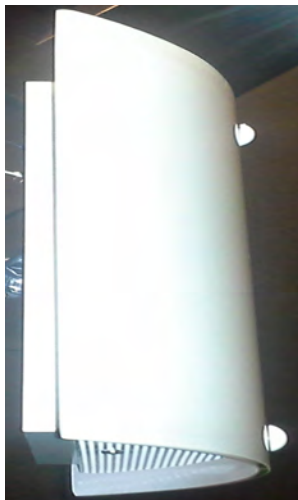
LAB 1

Test Sample Description

Catalog Number: P7093-3030K9
Description: 1-Lt. LED Wall Sconce w/ HAL LED 17W Module

Test Method: IES LM-79-08 § 10
Preburn Time: 00:15
Time To Stabilize: 1:33
Total Operating Time: 2:13

Input Voltage (Volts): 120.1
Input Current (Amps): 0.146
Input Wattage (Watts): 16.3
Ambient Temp (°C): 25.1



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Checked: D. ROBBINS
Approved: M. WASHBURN





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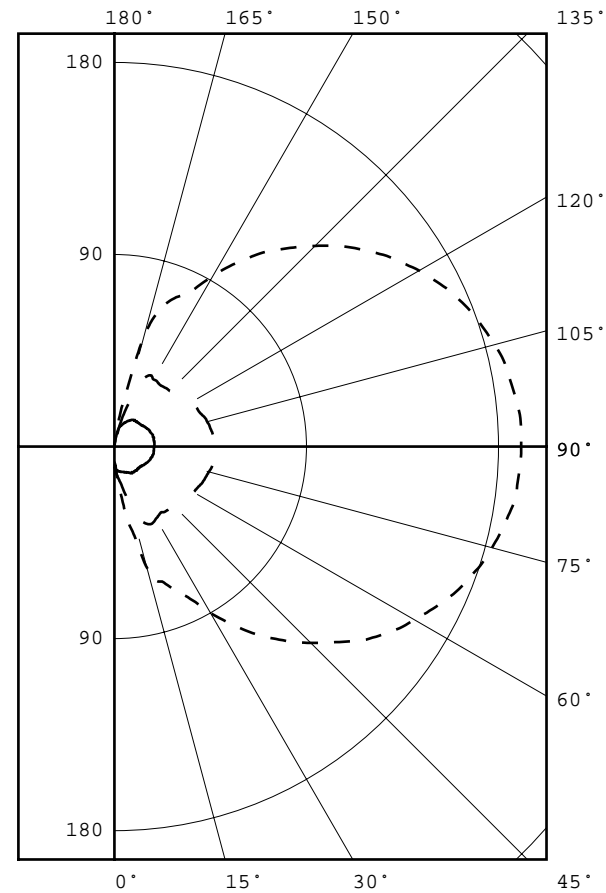
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CATALOG NUMBER: P7093-3030K9
LUMINAIRE: 1-Lt. LED Wall Sconce w/ HAL LED 17W Module
LAMP CAT. NO.: 93047261-4130
LAMP: 40 - Nichia 3000K LEDs
REFRACTOR: Curved White Glass Part # 051609
MOUNTING: Wall
NOTE: DATA SHOWN IS ABSOLUTE FOR THE
SAMPLE PROVIDED.

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CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	9	9	9	9	9	
5	15	12	11	13	13	1
15	59	35	12	19	28	8
25	77	56	13	27	40	18
35	104	70	15	34	38	31
45	130	89	15	41	40	45
55	154	105	16	46	41	60
65	171	117	17	50	44	74
75	183	127	18	53	46	84
85	190	131	19	54	47	89
90	191	132	19	54	47	
95	190	132	19	54	47	89
105	185	128	19	52	45	84
115	173	120	18	50	43	74
125	156	108	17	46	40	61
135	133	93	16	40	37	45
145	107	74	15	33	36	31
155	79	59	13	23	36	18
165	54	36	10	11	13	6
175	0	1	2	1	1	0
180	0	0	0	0	0	



ZONAL LUMEN	SUMMARY	
ZONE	LUMENS	%FIXT
0- 30	28	3.4
0- 40	58	7.1
0- 60	163	19.9
0- 90	409	50.0
90-120	247	30.2
90-130	308	37.7
90-150	384	47.0
90-180	409	50.0
0-180	818	100.0

TOTAL INPUT WATTS = 16.3
EFFICACY = 50.2 Lm/W
CIE TYPE - DIRECT-INDIRECT

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



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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH :11.000 2.000
HEIGHT OF SIDE :11.000 11.000

LUMINANCE DATA IN CANDELA/SQ METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	6479.	233.	1977.
55	7762.	216.	2089.
65	9052.	224.	2321.
75	10535.	231.	2634.
85	12332.	235.	3062.



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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	9	9	9	9	9	9	9	9	9
5.0	15	14	12	11	11	12	13	14	13
10.0	34	28	23	15	12	14	16	18	18
15.0	59	50	35	20	12	16	19	25	28
20.0	68	65	50	25	13	17	23	32	37
25.0	77	72	56	33	13	19	27	34	40
30.0	90	82	64	37	14	21	31	37	39
35.0	104	95	70	40	15	22	34	38	38
40.0	118	108	80	43	15	25	38	39	39
45.0	130	119	89	46	15	27	41	40	40
50.0	142	130	98	50	15	30	44	41	40
55.0	154	140	105	54	16	32	46	44	41
60.0	162	149	112	59	17	35	49	46	43
65.0	171	157	117	62	17	36	50	46	44
70.0	178	163	123	64	18	38	52	47	45
75.0	183	168	127	67	18	38	53	48	46
80.0	187	172	129	69	19	39	54	48	47
85.0	190	174	131	69	19	39	54	49	47
90.0	191	175	132	70	19	39	54	49	47
95.0	190	175	132	70	19	39	54	48	47
100.0	188	173	130	69	19	38	53	48	46
105.0	185	170	128	68	19	38	52	48	45
110.0	180	165	124	66	18	37	51	47	44
115.0	173	159	120	64	18	36	50	46	43
120.0	165	151	114	61	17	34	48	45	41
125.0	156	143	108	57	17	32	46	42	40
130.0	145	134	101	53	16	29	43	39	38
135.0	133	123	93	49	16	26	40	37	37
140.0	121	112	83	45	16	23	37	36	36
145.0	107	99	74	44	15	21	33	35	36
150.0	92	86	68	39	14	19	28	32	36
155.0	79	73	59	37	13	16	23	28	36
160.0	72	64	51	28	11	12	17	21	28
165.0	54	47	36	19	10	10	11	12	13
170.0	16	15	11	8	6	5	4	3	3
175.0	0	0	1	2	2	1	1	1	1
180.0	0	0	0	0	0	0	0	0	0



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ZONAL LUMEN SUMMARY

0- 5	0.
5- 10	1.
10- 15	3.
15- 20	5.
20- 25	8.
25- 30	11.
30- 35	14.
35- 40	17.
40- 45	21.
45- 50	24.
50- 55	28.
55- 60	32.
60- 65	35.
65- 70	38.
70- 75	41.
75- 80	43.
80- 85	44.
85- 90	45.
90- 95	45.
95-100	44.
100-105	43.
105-110	41.
110-115	39.
115-120	36.
120-125	32.
125-130	28.
130-135	25.
135-140	21.
140-145	17.
145-150	14.
150-155	10.
155-160	7.
160-165	5.
165-170	2.
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	5
20- 25	8
25- 30	11
30- 35	14
35- 40	17
40- 45	21
45- 50	24
50- 55	28
55- 60	32
60- 65	35
65- 70	38
70- 75	41
75- 80	43
80- 85	44
85- 90	45
90- 95	45
95-100	44
100-105	43
105-110	41
110-115	39
115-120	36
120-125	32
125-130	28
130-135	25
135-140	21
140-145	17
145-150	14
150-155	10
155-160	7
160-165	5
165-170	2
170-175	0
175-180	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	1
0- 20	9
0- 30	28
0- 40	58
0- 50	103
0- 60	163
0- 70	237
0- 80	320
0- 90	409
0-100	498
0-110	582
0-120	657
0-130	717
0-140	763
0-150	794
0-160	811
0-170	818
0-180	818



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	92	86	80	74	84	78	73	68	65	61	57	52	49	46	41	39	36	31
2	82	72	63	56	74	65	58	52	54	48	43	43	38	35	33	30	27	21
3	73	61	52	44	66	56	47	41	46	39	34	36	31	27	27	24	20	16
4	66	53	43	36	60	48	40	33	39	33	27	31	26	22	24	19	16	12
5	60	47	37	30	55	42	34	27	35	28	22	27	22	18	21	16	13	10
6	55	41	32	25	50	38	29	23	31	24	19	24	19	15	18	14	11	8
7	51	37	28	21	46	34	25	20	28	21	16	22	17	13	16	12	9	6
8	47	33	24	18	43	30	22	17	25	18	14	20	15	11	15	11	8	5
9	44	30	22	16	40	27	20	15	23	16	12	18	13	9	14	10	7	5
10	41	27	19	14	37	25	18	13	21	15	11	17	12	8	13	9	6	4

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

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