

Project Number
17.00210



HUBBELL
Lighting

Date
1/17/2017

LAB 6

Test Sample Description

Catalog Number: P87ATXA and P807528
Description: AIR TIGHT RECESSED CAN-CFL

Test Method: IES LM-79-08 § 10
Preburn Time: 2:00
Time To Stabilize: 1:30
Total Operating Time: 4:30

Input Voltage (Volts): 119.9
Input Current (Amps): 0.209
Input Wattage (Watts): 13.4
Ambient Temp (°C): 25.9



Hubbell Lighting, Inc.

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

Checked: M. ELLMANN
Approved: D. BLACK



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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LUMINAIRE: AIR TIGHT RECESSED CAN

LAMP CAT. NO.: EL/A 15W R30 120V 60Hz 225mA 2700K

LAMP: 1- 2700K 82 CRI CFL

MOUNTING: Ceiling

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.



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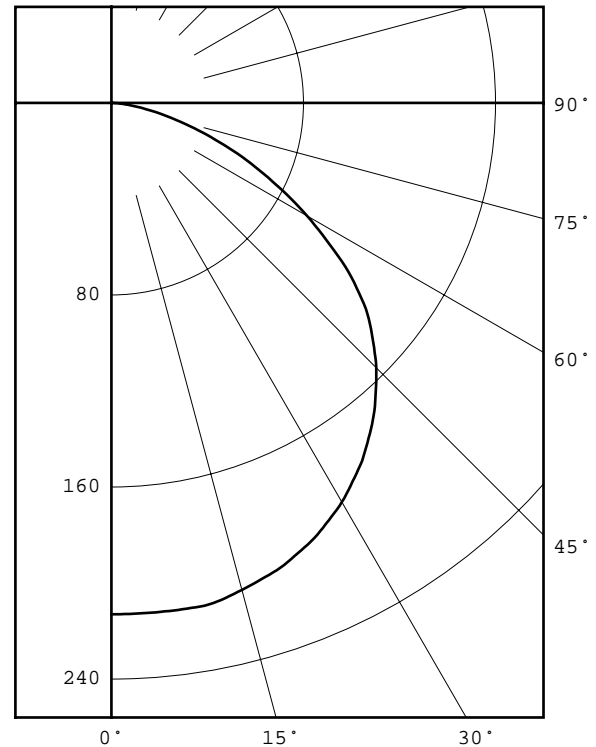
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DEG	CANDELA	LUMENS
0	213	
5	213	20
15	210	59
25	200	92
35	182	114
45	156	120
55	119	105
65	70	70
75	29	31
85	4	6
90	0	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 30	172	27.8
0- 40	286	46.2
0- 60	511	82.7
0- 90	618	100.0
90-180	0	0.0
0-180	618	100.0

EFFICACY = 46.1 lm/W
CIE TYPE - DIRECT
LUMINAIRE SPACING CRITERION = 1.33
LUMINOUS DIAMETER: 6.000

LUMINANCE DATA IN CANDELA/SQ M	
ANGLE	AVERAGE
IN DEG	
45	12094.
55	11374.
65	9080.
75	6142.
85	2516.





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CANDELA DISTRIBUTION

0.0	213
2.5	213
5.0	213
7.5	213
10.0	213
12.5	212
15.0	210
17.5	208
20.0	206
22.5	203
25.0	200
27.5	196
30.0	192
32.5	187
35.0	182
37.5	176
40.0	170
42.5	163
45.0	156
47.5	148
50.0	140
52.5	130
55.0	119
57.5	106
60.0	94
62.5	82
65.0	70
67.5	59
70.0	48
72.5	38
75.0	29
77.5	21
80.0	14
82.5	9
85.0	4
87.5	1
90.0	0



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5-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	5	5
5-	10	15
10-	15	25
15-	20	34
20-	25	43
25-	30	50
30-	35	55
35-	40	59
40-	45	60
45-	50	60
50-	55	56
55-	60	49
60-	65	40
65-	70	30
70-	75	20
75-	80	11
80-	85	5
85-	90	1

10-DEGREE		
ZONAL	LUMEN	SUMMARY
0-	10	20
10-	20	59
20-	30	92
30-	40	114
40-	50	120
50-	60	105
60-	70	70
70-	80	31
80-	90	6



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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	119	116	116	116	116	111	111	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85
2	100	92	85	80	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72	72	72
3	91	81	73	67	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
4	83	72	63	57	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52	52	52
5	77	64	55	49	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45	45	45
6	71	58	49	42	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39	39	39
7	66	52	43	37	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34	34	34
8	61	48	39	33	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31	31	31
9	57	44	35	30	30	56	43	35	30	42	35	30	41	34	29	40	34	29	28	28	28
10	53	40	32	27	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25

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 TEST 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: 25889.0 Lumens

Calibration Date: 09/02/2016

Test Equipment Used

<i>Instrument</i>	<i>Manufacturer / Model</i>	<i>S/N</i>	<i>Calibration Due:</i>
<i>Goniophotometer</i>	ITL / HLI LAB 6 - Test Distance: 31.3'	N/A	N/A
<i>Power Analyzer</i>	Yokogawa / WT 332	C2QA27076V	11/2/2017
<i>Power Source</i>	Voltage-Regulated House Power	N/A	N/A
<i>Thermometer</i>	National Instruments / USB-TC01	1912745	11/2/2017

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