



UL LLC  
1075 W Lambert Rd Suite B  
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## Floodlight Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

**Prepared For**  
**B-K Lighting INC**

Daniel Carrejo  
40429 Brickyard Dr.  
Madera, CA 93636  
United States

**Catalog Number**

**AT-LED-e162-SP-WHP-9-0-YM-MT(5000K)**

Order Number  
14201776  
Test Number  
14201776.01

Test Date

2022-02-10

Prepared By

William Escobar, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Square white metal housing and glass lens  
**Lamp:** White LED array  
**Mounting:** Pendant  
**Ballast/Driver:** DELTA USCI-200140GA

#### Luminaire



#### Luminaire Characteristics

Luminous Length: 7.50 in.  
Luminous Width: 7.500 in.

#### Summary of Results

Total Luminaire Output: 14390 Lumens  
Luminaire Efficacy: 98.7 lm/w  
Maximum Candela: 120511 Candela

#### Test Conditions

Test Temperature: 24.7 °C  
Voltage: 120.0 VAC  
Current: 1.236 A  
Power: 145.8 W  
Power Factor: 0.982  
Frequency: 60 Hz  
Current THD: 17.7 %

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

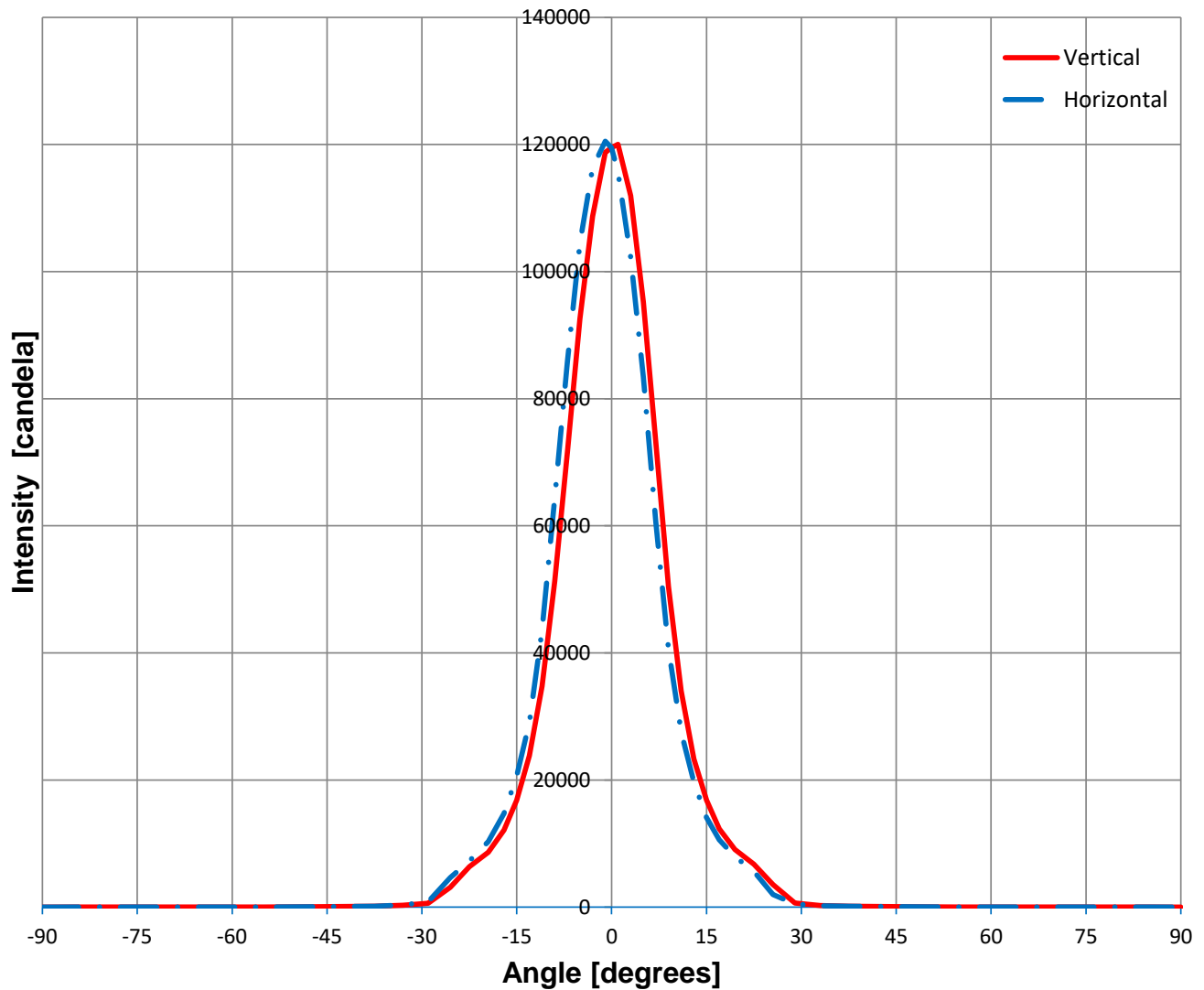
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	1.236 A	145.8 W	0.982	60 Hz	17.7 %

### Summary of Results

Total Lumen Output:	14385.7 Lumens	Maximum Candela:	120511.0 Candela
Luminaire Efficacy:	98.7 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	11402.3 Lumens	Field Angle :	34.7 H X 35.3 V
Beam Lumens:	5773.6 Lumens	Beam Angle :	16.4 H X 17.6 V
Spill Light Lumens:	2983.4 Lumens	IESNA Type:	3 H X 3 V

### Maximum Candlepower Plot





# Candela Tabulation

Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	3	3	4	4	3	2	2	2	3	2	1
75.0	10	10	10	10	9	8	8	8	9	9	10
65.0	21	20	18	17	17	17	18	21	20	19	18
55.0	33	32	30	30	31	31	30	30	30	30	31
47.5	58	57	55	53	51	49	47	48	47	44	42
42.5	94	91	86	85	84	79	75	71	67	62	56
37.5	137	131	117	115	114	114	112	109	105	101	95
33.0	268	251	219	215	207	189	166	152	146	136	122
29.0	622	556	448	416	379	331	294	270	254	226	173
25.5	3538	2835	1900	1591	1248	830	664	547	446	354	285
22.5	6732	6158	5529	5239	4509	3545	2570	1689	988	612	413
19.5	9062	8325	7665	7407	7015	6488	5926	4745	3141	1691	754
17.0	12310	10933	10000	9523	8770	8048	7258	6554	5515	3888	1798
15.0	16826	14280	12953	12031	10803	9759	8567	7525	6673	5619	3232
13.0	23334	19154	17750	15970	14060	11988	10212	8794	7572	6540	4729
11.0	33987	26342	24873	21601	18648	15209	12534	10378	8609	7220	5812
9.0	50428	38091	35263	30304	24596	19760	15517	12179	9746	8041	6510
7.0	73178	56530	50760	41324	32259	24860	18812	14234	11091	8894	7015
5.0	95224	79179	71047	56678	41818	30430	22189	16248	12278	9618	7392
3.0	111941	99128	88297	72283	52102	35661	25250	18473	13431	10270	7760
1.0	120024	112251	99487	81672	59716	40085	27356	19701	14137	10593	7913
0.0	119488	115670	102264	83404	60590	40636	27554	19677	14056	10589	7918
-1.0	118752	114470	101438	83367	61708	41711	28231	20082	14297	10675	7942
-3.0	108697	105795	93937	77904	57659	38754	26618	19213	13821	10451	7792
-5.0	92554	89591	81241	66240	49353	34202	24321	17554	12899	9907	7468
-7.0	71685	69310	62707	51410	38423	28416	20912	15666	11900	9311	7189
-9.0	51298	49421	44952	37432	29399	22821	17641	13338	10486	8511	6741
-11.0	34769	33726	30973	26260	22377	17915	14108	11281	9175	7585	6123
-13.0	23805	23271	21870	19592	16704	13856	11367	9457	7978	6800	5261
-15.0	16825	16476	15500	14262	12463	10939	9311	7981	6931	6019	3963
-17.0	12107	11872	11448	10720	9718	8712	7691	6831	5991	4647	2397
-19.5	8624	8526	8275	7875	7409	6797	6296	5490	4012	2350	976
-22.5	6355	6307	6148	5915	5363	4543	3543	2477	1426	733	504
-25.5	3126	3103	2916	2523	1998	1337	892	658	535	437	319
-29.0	590	576	546	517	488	448	387	339	317	290	228
-33.0	274	277	278	272	258	236	208	191	170	150	133
-37.5	135	135	135	130	126	123	125	126	121	114	108
-42.5	94	94	95	97	97	91	88	83	78	74	63
-47.5	58	59	61	59	55	53	51	50	49	49	47
-55.0	34	34	34	34	33	33	33	33	32	31	32
-65.0	21	22	23	24	23	22	22	20	19	19	18
-75.0	13	13	12	11	11	11	11	10	10	10	10
-85.0	6	6	5	4	5	5	5	5	4	4	4

Vertical Angle (Degrees)



# Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	2	3	2	1	2	2	4	3	3	4	1
75.0	8	7	7	8	8	4	5	5	3	4	3
65.0	15	17	15	13	11	11	8	9	5	2	3
55.0	29	26	25	21	20	18	15	11	8	6	2
47.5	41	39	33	30	26	19	19	14	9	6	2
42.5	54	49	45	37	31	24	19	17	10	5	2
37.5	86	71	58	47	39	31	24	16	11	5	1
33.0	127	118	95	63	46	37	28	19	12	5	2
29.0	145	154	133	88	51	41	32	21	13	6	2
25.5	212	162	139	109	69	44	34	22	14	7	2
22.5	285	219	138	117	82	48	36	23	15	7	2
19.5	433	302	172	131	91	52	37	24	13	7	2
17.0	621	348	220	145	97	59	38	25	13	6	2
15.0	942	438	248	145	103	65	41	25	13	6	2
13.0	1603	538	269	151	108	69	43	26	14	6	2
11.0	2555	649	295	166	110	75	43	26	14	6	2
9.0	3520	794	321	184	112	79	46	27	14	6	2
7.0	4409	1176	372	205	113	82	48	28	14	6	2
5.0	5193	1594	426	220	113	84	49	28	14	7	2
3.0	5538	1885	464	227	114	83	50	28	14	7	2
1.0	5626	1978	486	217	115	82	50	28	14	7	2
0.0	5613	1959	492	210	115	82	51	28	14	7	2
-1.0	5646	2027	496	214	115	83	51	28	14	7	2
-3.0	5560	1989	489	219	113	84	51	28	14	7	2
-5.0	5291	1673	448	217	112	85	51	27	14	7	2
-7.0	4753	1358	409	211	111	84	50	26	14	7	2
-9.0	3965	912	369	199	111	81	48	26	13	7	2
-11.0	3039	716	316	179	109	77	46	25	13	6	2
-13.0	2025	591	286	160	107	71	44	25	13	6	2
-15.0	1199	496	257	146	104	66	42	24	13	5	2
-17.0	712	398	238	139	100	61	40	24	13	5	2
-19.5	506	318	200	131	94	55	39	24	13	4	3
-22.5	324	259	147	118	85	48	38	21	12	4	3
-25.5	245	178	132	109	75	48	35	24	12	5	3
-29.0	167	154	134	97	57	46	33	21	12	6	3
-33.0	140	138	108	69	50	39	30	20	12	6	3
-37.5	98	85	64	49	42	32	26	19	13	5	3
-42.5	55	53	46	41	32	27	22	15	10	3	3
-47.5	44	41	36	32	27	24	18	13	10	6	3
-55.0	28	27	24	22	19	17	15	12	7	3	3
-65.0	19	18	16	13	13	11	10	5	5	4	1
-75.0	9	8	7	6	5	8	5	6	5	3	0
-85.0	5	5	4	3	3	5	5	3	4	1	0



### Isocandela Diagram (Percent of Maximum Intensity)

