



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Floodlight Distribution Test Report

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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For  
**B-K Lighting Inc**  
Daniel Carrejo  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

Catalog Number  
**SA-LED-X54-WW-9-4000K**  
Order Number  
12498626  
Test Number  
12498626.02

Test Date

2018-09-11

Prepared By

William Escobar, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White metal cylindrical housing with clear outer glass lens and inner plastic diffuse lens.

**Lamp:** One (1) white LED with optic attached

**Mounting:** Surface - Ground

**Ballast/Driver:** ERP ESS015W-0350-42

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 1.50 in.  
Luminous Width: 3.000 in.

**Summary of Results**

Total Luminaire Output: 538.7 Lumens  
Luminaire Efficacy: 51.6 lm/w  
Maximum Candela: 245 Candela

**Test Conditions**

Test Temperature: 26.0 °C  
Voltage: 120.0 VAC  
Current: 0.08896 A  
Power: 10.45 W  
Power Factor: 0.979  
Frequency: 60 Hz  
Current THD: 18.1 %

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



## Distribution - Goniophotometer

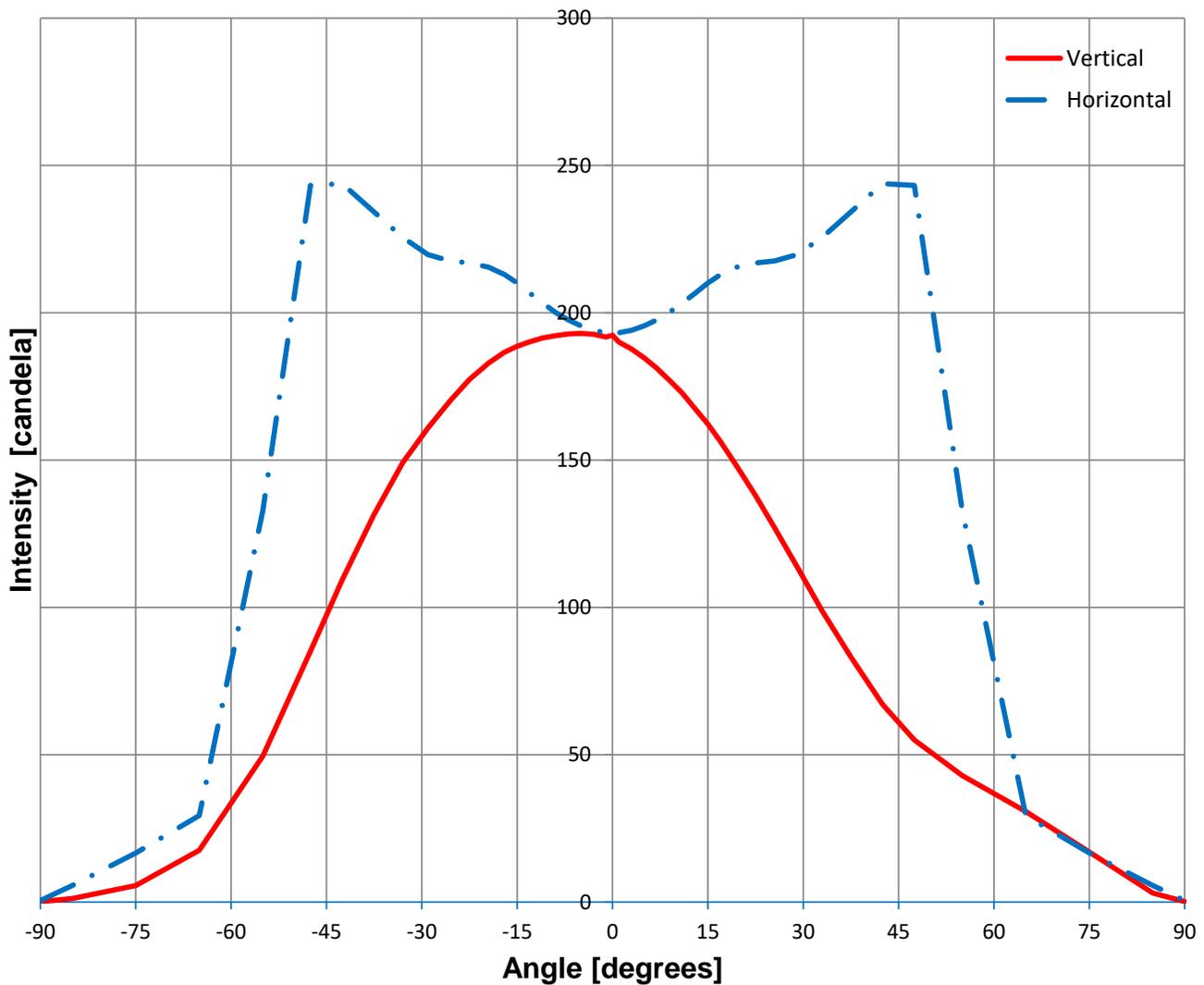
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
26.0 °C	120.0 VAC	0.08896 A	10.45 W	0.979	60 Hz	18.1 %

### Summary of Results

<b>Total Lumen Output:</b>	538.7 Lumens	<b>Maximum Candela:</b>	245.2 Candela
<b>Luminaire Efficacy:</b>	51.6 Lumens/Watt	<b>Maximum Angle:</b>	42.5 H      -5 V
<b>Field Lumens:</b>	517.2 Lumens	<b>Field Angle :</b>	137.0 H    X 136.7 V
<b>Beam Lumens:</b>	385.3 Lumens	<b>Beam Angle :</b>	111.8 H    X 83.8 V
<b>Spill Light Lumens:</b>	21.5 Lumens	<b>IESNA Type:</b>	7 H        X        7 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	3	3	3	3	3	3	3	4	4
75.0	17	17	17	16	16	16	16	16	16	16	16
65.0	31	31	30	30	30	30	30	30	30	29	29
55.0	43	43	43	42	43	43	43	42	43	42	43
47.5	55	55	55	55	55	55	55	56	56	57	57
42.5	67	67	66	66	67	67	68	68	69	70	72
37.5	83	83	81	82	82	83	83	84	86	87	89
33.0	99	98	98	98	99	99	100	102	103	105	107
29.0	114	114	113	114	114	115	117	118	120	122	124
25.5	127	126	126	126	127	128	130	132	134	136	139
22.5	138	137	137	137	138	140	142	144	146	149	151
19.5	148	148	148	148	150	152	154	156	158	161	163
17.0	156	156	156	157	159	161	163	166	168	170	173
15.0	162	162	162	163	165	168	170	173	175	178	180
13.0	167	167	167	169	171	174	176	179	182	184	186
11.0	173	172	172	175	177	179	182	185	188	190	193
9.0	177	177	177	180	182	184	187	190	193	196	198
7.0	181	181	182	185	187	189	191	195	198	201	203
5.0	185	184	187	188	190	193	196	199	202	205	207
3.0	188	188	190	191	193	196	199	202	206	208	211
1.0	190	192	193	194	196	199	202	205	209	212	214
0.0	192	193	194	196	198	200	203	207	210	213	215
-1.0	192	194	195	196	199	201	204	208	211	214	216
-3.0	193	193	196	197	200	202	206	209	213	215	218
-5.0	193	193	196	198	200	203	207	210	213	216	218
-7.0	193	194	196	198	201	203	206	210	214	216	218
-9.0	192	194	194	198	201	203	207	210	213	216	218
-11.0	191	193	193	197	200	203	206	209	212	214	216
-13.0	190	192	192	195	198	202	205	208	210	212	214
-15.0	189	190	191	193	196	200	203	205	208	209	211
-17.0	187	188	188	190	193	197	200	202	204	206	207
-19.5	183	184	185	186	189	192	195	197	199	201	202
-22.5	177	179	180	181	182	185	188	190	192	193	194
-25.5	170	171	173	173	175	177	179	181	183	185	185
-29.0	161	162	164	164	165	167	169	170	172	173	174
-33.0	149	150	152	152	153	153	155	156	157	158	158
-37.5	132	132	134	134	135	135	136	137	138	138	139
-42.5	109	110	112	112	112	113	113	114	114	115	115
-47.5	85	86	88	88	88	88	88	89	89	90	90
-55.0	50	50	52	52	53	53	53	53	54	55	56
-65.0	18	18	18	19	19	19	20	20	21	21	22
-75.0	6	6	6	6	6	6	7	7	7	7	8
-85.0	1	1	1	1	2	2	2	2	2	3	3

Vertical Angle (Degrees)



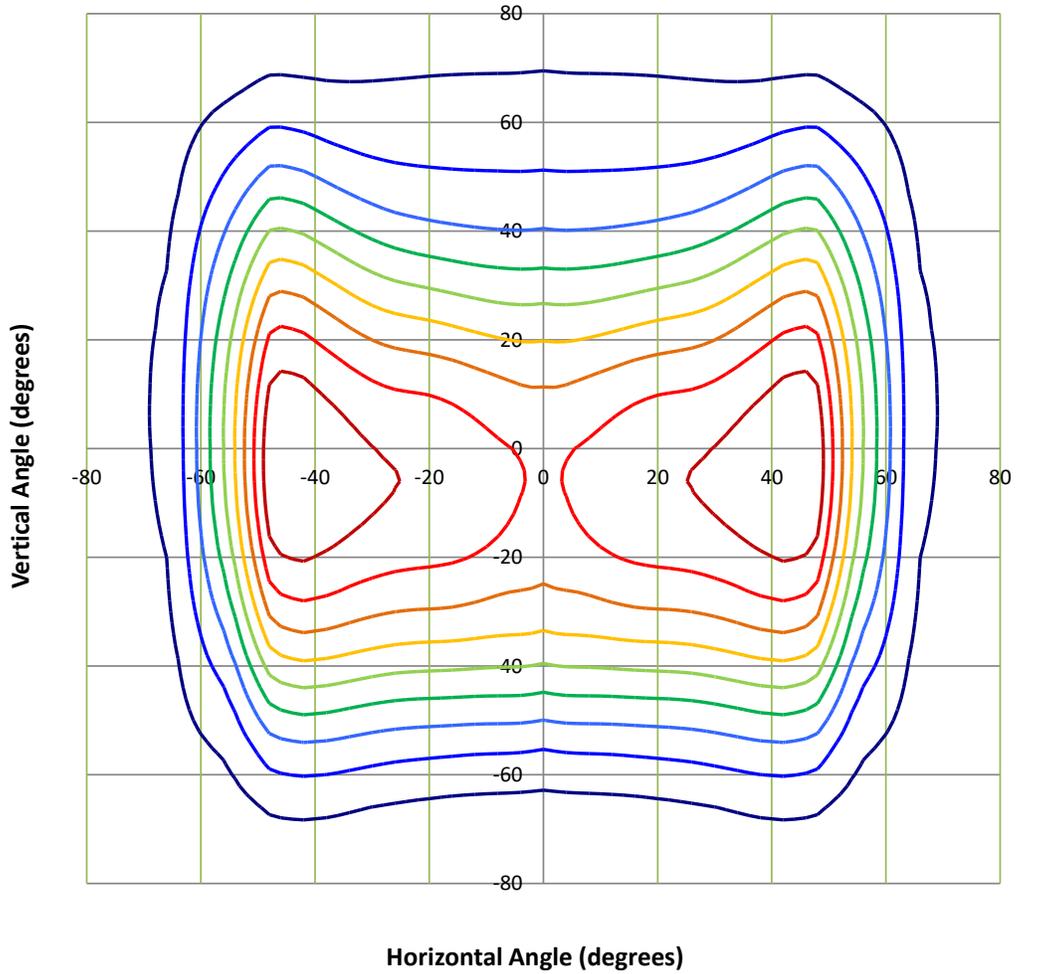
**Candela Tabulation**  
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	4	4	5	5	5	5	5	6	6	4	1
75.0	16	16	15	15	14	14	13	11	9	6	2
65.0	29	28	28	28	28	30	32	23	13	8	3
55.0	43	43	45	48	52	59	63	43	17	10	3
47.5	58	60	64	69	78	89	94	59	20	12	4
42.5	73	76	80	87	98	111	116	72	22	13	4
37.5	91	95	100	108	120	132	137	83	24	14	4
33.0	110	113	118	127	139	152	156	94	26	14	5
29.0	127	129	134	143	155	168	173	103	27	15	5
25.5	141	144	148	157	169	182	186	110	28	15	5
22.5	154	156	160	168	180	193	198	115	28	16	5
19.5	165	167	171	179	191	204	207	120	29	16	5
17.0	175	177	180	188	199	211	215	124	29	16	5
15.0	182	183	187	194	205	217	220	126	30	16	5
13.0	188	190	193	200	210	222	224	128	30	16	5
11.0	194	195	199	205	215	227	229	130	30	16	5
9.0	200	201	204	210	220	231	233	132	30	16	6
7.0	205	206	208	215	224	235	236	132	30	17	6
5.0	209	210	212	218	228	238	239	134	30	17	6
3.0	213	213	216	222	231	241	241	134	30	17	6
1.0	216	216	218	224	233	243	242	134	29	17	6
0.0	217	218	220	226	234	244	243	133	29	17	6
-1.0	218	219	221	226	235	244	243	133	29	17	6
-3.0	219	220	222	228	236	245	243	133	29	17	6
-5.0	220	221	223	228	236	245	243	132	29	16	6
-7.0	220	221	223	228	236	244	242	130	29	16	6
-9.0	219	220	222	227	235	243	240	129	28	16	6
-11.0	217	218	221	226	233	241	238	127	28	16	6
-13.0	215	216	219	224	231	238	234	124	27	16	6
-15.0	212	213	216	221	228	235	230	121	27	16	6
-17.0	208	210	212	217	224	231	226	118	26	16	6
-19.5	203	204	207	211	218	225	219	114	26	16	5
-22.5	195	196	199	204	211	216	210	107	25	15	5
-25.5	186	187	190	194	201	206	199	100	24	15	5
-29.0	174	175	178	182	189	193	185	91	23	15	5
-33.0	159	160	162	167	173	176	168	81	22	14	5
-37.5	139	141	143	147	152	155	147	69	20	13	5
42.5	116	116	119	123	128	130	123	55	19	13	5
-47.5	91	92	94	98	103	105	99	44	17	12	4
-55.0	57	58	60	63	67	69	65	29	14	10	4
-65.0	23	24	25	28	30	31	30	16	11	8	3
-75.0	8	9	9	10	10	11	11	9	8	6	2
-85.0	3	3	4	4	4	5	5	5	6	4	2

Vertical Angle (Degrees)



### Isocandela Diagram (Percent of Maximum Intensity)



- 220 cd (90%)
- 196 cd (80%)
- 171 cd (70%)
- 147 cd (60%)
- 122 cd (50%)
- 98 cd (40%)
- 73 cd (30%)
- 49 cd (20%)
- 24 cd (10%)