



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
Chris McCarthy
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
LBF-LED-X66-SP-13-C
Order Number
11913931
Test Number
11913931.18

Test Date

2017-08-21

Prepared By

Tony Rubio, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Formed white metal housing with patterned reflector and linear prismatic lens
Lamp: One (1) white LED
Mounting: Pole/Arm
Ballast/Driver: Thomas Research Products LED25W-36-C0700-LE

Luminaire



Luminaire Characteristics

Luminous Diameter: 3.25 in.

Summary of Results

Total Luminaire Output:	2064 Lumens
Luminaire Efficacy:	77.9 lm/w
Maximum Candela:	6029 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.2224 A
Power:	26.50 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	12.4 %

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



Distribution - Goniophotometer

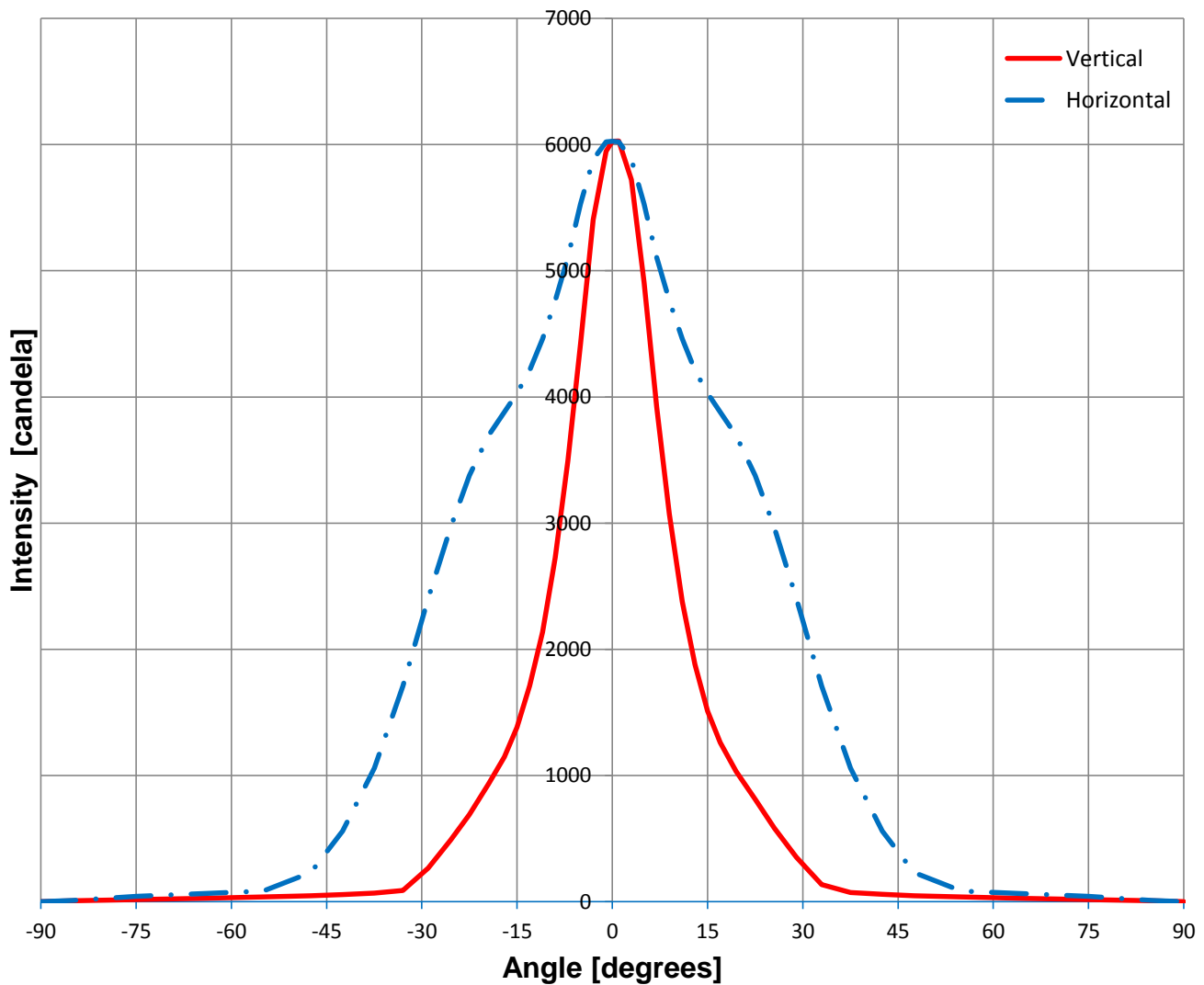
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.2224 A	26.50 W	0.992	60 Hz	12.4 %

Summary of Results

Total Lumen Output:	2063.6 Lumens	Maximum Candela:	6029.3 Candela
Luminaire Efficacy:	77.9 Lumens/Watt	Maximum Angle:	0 H 1 V
Field Lumens:	1679.3 Lumens	Field Angle :	83.9 H X 49.0 V
Beam Lumens:	728.8 Lumens	Beam Angle :	49.8 H X 17.4 V
Spill Light Lumens:	384.3 Lumens	IESNA Type:	5 H X 4 V

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	Lateral Angle (Degrees)										
	0	1	3	5	7	9	11	13	15	17	19.5
85.0	7	7	6	6	6	6	6	6	6	6	6
75.0	17	16	16	16	15	15	15	15	14	14	14
65.0	26	26	25	25	24	23	23	22	22	22	22
55.0	36	36	35	35	35	34	33	32	31	31	31
47.5	47	46	46	46	46	46	45	45	44	43	42
42.5	59	58	57	57	56	56	55	54	53	53	51
37.5	71	71	69	69	68	67	66	65	64	63	61
33.0	135	131	123	122	123	123	124	130	134	141	148
29.0	352	346	335	339	345	348	345	337	323	305	283
25.5	582	568	554	561	561	553	535	507	475	437	386
22.5	810	782	751	735	709	679	649	617	581	543	490
19.5	1033	1004	962	922	873	827	783	747	707	668	614
17.0	1261	1223	1176	1123	1064	1007	952	901	856	811	755
15.0	1510	1456	1407	1350	1283	1222	1152	1086	1034	984	931
13.0	1879	1796	1752	1681	1611	1525	1434	1359	1294	1247	1183
11.0	2376	2257	2216	2143	2055	1932	1827	1730	1663	1595	1514
9.0	3072	2907	2844	2746	2618	2474	2342	2222	2116	2032	1929
7.0	3919	3712	3630	3485	3293	3128	2948	2782	2662	2551	2424
5.0	4909	4660	4547	4310	4067	3819	3604	3399	3250	3124	2971
3.0	5721	5544	5410	5084	4738	4438	4175	3931	3761	3621	3442
1.0	6029	5964	5843	5499	5081	4742	4447	4194	4005	3849	3661
0.0	6027	6021	5883	5531	5107	4763	4460	4211	4029	3879	3694
-1.0	5947	5926	5793	5457	5043	4698	4403	4148	3956	3798	3612
-3.0	5404	5486	5269	4958	4597	4294	4037	3798	3626	3482	3297
-5.0	4420	4600	4415	4145	3892	3645	3409	3213	3066	2937	2789
-7.0	3494	3673	3545	3373	3153	2980	2793	2619	2486	2384	2259
-9.0	2725	2880	2790	2679	2524	2361	2226	2088	1977	1890	1786
-11.0	2136	2246	2188	2109	1996	1868	1752	1652	1567	1493	1407
-13.0	1709	1780	1745	1672	1593	1480	1395	1312	1244	1187	1115
-15.0	1381	1427	1402	1340	1271	1193	1117	1054	996	947	888
-17.0	1147	1176	1155	1103	1043	983	922	871	827	781	725
-19.5	931	951	939	902	855	810	765	721	684	645	590
-22.5	689	709	719	707	688	665	636	603	564	525	471
-25.5	486	501	517	521	525	522	509	483	451	416	368
-29.0	266	277	289	287	290	292	290	286	277	266	252
-33.0	89	94	101	100	101	99	99	102	105	110	118
-37.5	67	67	68	67	67	66	65	64	63	61	59
42.5	56	57	57	57	57	56	55	54	54	53	51
-47.5	45	46	46	47	46	46	46	46	45	43	42
-55.0	36	36	36	36	35	35	34	33	32	31	31
-65.0	25	25	25	25	24	23	23	22	22	22	22
-75.0	15	15	15	15	15	15	15	14	14	14	14
-85.0	6	6	6	6	6	6	6	6	6	6	6



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	6	6	6	6	6	5	5	5	3	2	1
75.0	13	13	13	12	12	12	11	10	8	6	2
65.0	22	22	21	20	20	19	18	16	14	9	4
55.0	31	31	31	28	26	25	24	23	21	14	5
47.5	40	40	40	37	32	28	29	28	24	17	6
42.5	49	47	46	45	41	33	32	31	27	19	6
37.5	64	71	74	74	63	47	36	35	31	22	6
33.0	150	147	140	123	94	65	42	39	34	25	7
29.0	253	221	190	160	125	85	51	44	37	28	7
25.5	329	281	237	196	154	108	61	47	41	30	7
22.5	421	354	291	238	188	133	71	50	44	32	8
19.5	541	459	377	306	237	162	86	55	47	34	8
17.0	682	601	497	390	295	199	100	58	50	35	8
15.0	859	763	627	490	360	234	116	62	53	36	8
13.0	1094	973	810	615	441	276	132	66	55	37	8
11.0	1395	1255	1034	779	538	326	151	69	57	38	8
9.0	1778	1597	1316	974	654	380	171	73	58	38	8
7.0	2241	2000	1646	1197	776	436	190	76	59	39	8
5.0	2753	2457	1979	1418	902	493	208	78	60	40	8
3.0	3155	2784	2269	1615	996	527	219	80	61	40	8
1.0	3343	2932	2370	1681	1039	550	228	82	63	41	8
0.0	3377	2965	2402	1708	1057	559	231	82	63	41	8
-1.0	3301	2901	2345	1663	1030	546	227	81	63	41	8
-3.0	3025	2684	2195	1560	968	517	218	79	61	40	8
-5.0	2571	2283	1858	1345	864	479	207	77	60	39	8
-7.0	2078	1844	1522	1115	735	421	189	75	59	39	8
-9.0	1644	1469	1209	900	614	364	168	71	58	38	8
-11.0	1286	1155	954	719	502	312	148	67	56	37	8
-13.0	1022	899	751	571	412	262	129	63	54	36	8
-15.0	811	714	584	458	338	224	114	59	52	35	8
-17.0	646	566	466	367	279	192	98	56	50	34	8
-19.5	517	432	356	290	225	159	85	53	47	33	8
-22.5	402	337	277	227	178	130	70	48	43	31	8
-25.5	315	269	228	189	148	105	59	46	39	29	7
-29.0	233	210	181	152	120	82	49	43	36	27	7
-33.0	123	125	122	111	89	63	41	39	33	25	7
-37.5	58	62	65	65	58	44	34	34	30	22	6
-42.5	49	47	45	43	40	32	31	30	27	19	6
-47.5	40	39	39	37	32	28	28	27	24	16	6
-55.0	31	31	31	29	25	25	24	22	20	13	5
-65.0	22	22	21	20	19	19	18	16	14	9	4
-75.0	13	13	13	12	12	12	11	10	8	6	2
-85.0	6	6	6	6	6	5	5	5	4	2	1



Isocandela Diagram (Percent of Maximum Intensity)

