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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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-9-C

Order Number
11913931
Test Number
11913931.14

Test Date

2017-08-18

Prepared By

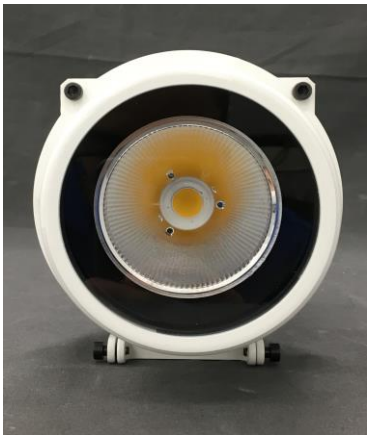
Austin Duff, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

Luminaire Description: Formed white metal housing with patterned reflector and clear 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:	2487 Lumens
Luminaire Efficacy:	92.6 lm/w
Maximum Candela:	18939 Candela

Test Conditions

Test Temperature:	24.6	°C
Voltage:	120.0	VAC
Current:	0.2257	A
Power:	26.85	W
Power Factor:	0.992	
Frequency:	60	Hz
Current THD:	12.8	%

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

Distribution - Goniophotometer

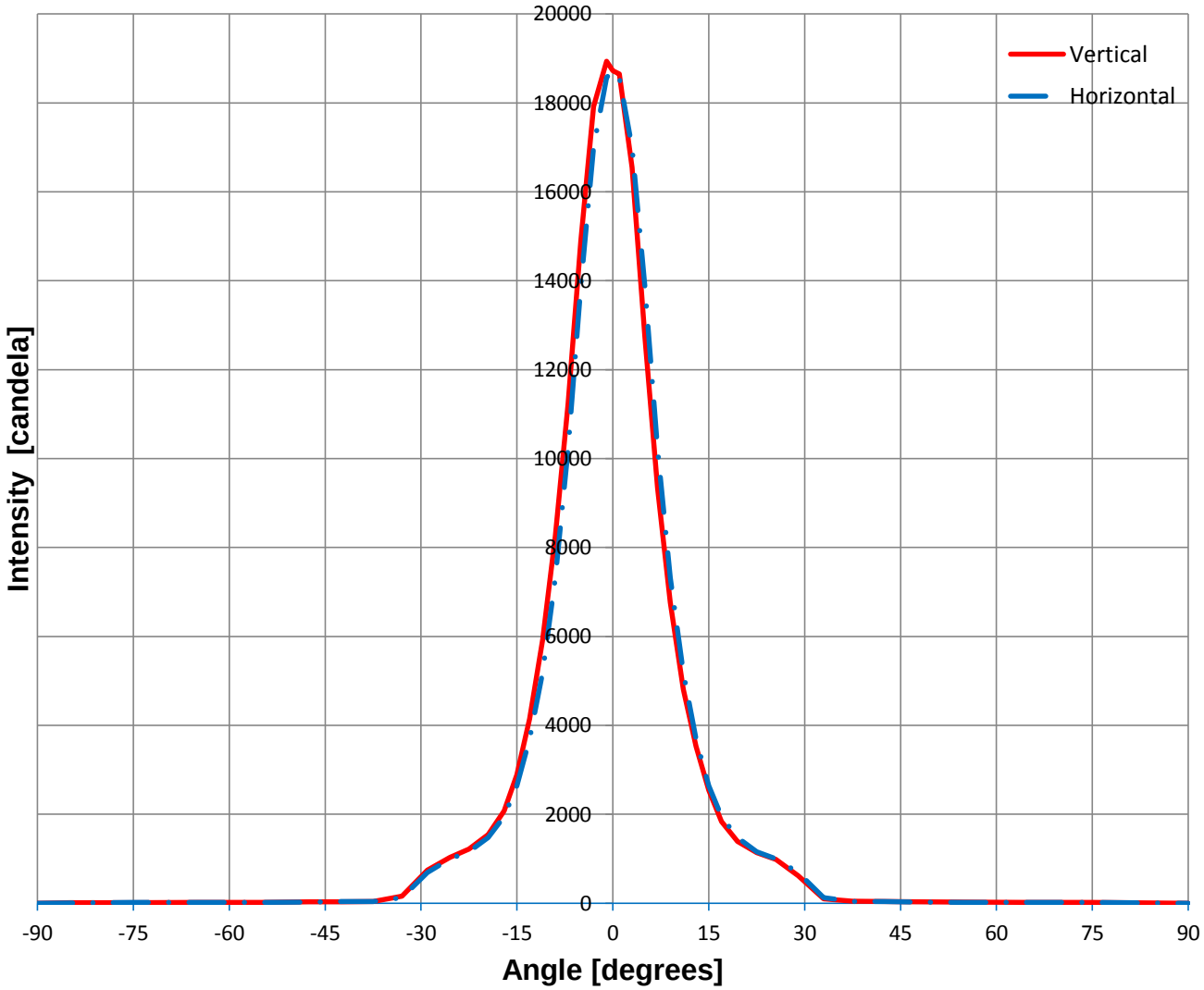
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.2257 A	26.85 W	0.992	60 Hz	12.8 %

Summary of Results

Total Lumen Output:	2487.0 Lumens		**Maximum Candela:**	18938.5 Candela		
Luminaire Efficacy:	92.6 Lumens/Watt		**Maximum Angle:**	0 H		-1 V
Field Lumens:	1702.3 Lumens		**Field Angle :**	34.7 H	X	34.7 V
Beam Lumens:	734.6 Lumens		**Beam Angle :**	15.2 H	X	15.1 V
Spill Light Lumens:	784.7 Lumens		**IESNA Type:**	3 H	X	3 V

Maximum Candlepower Plot



Candela Tabulation

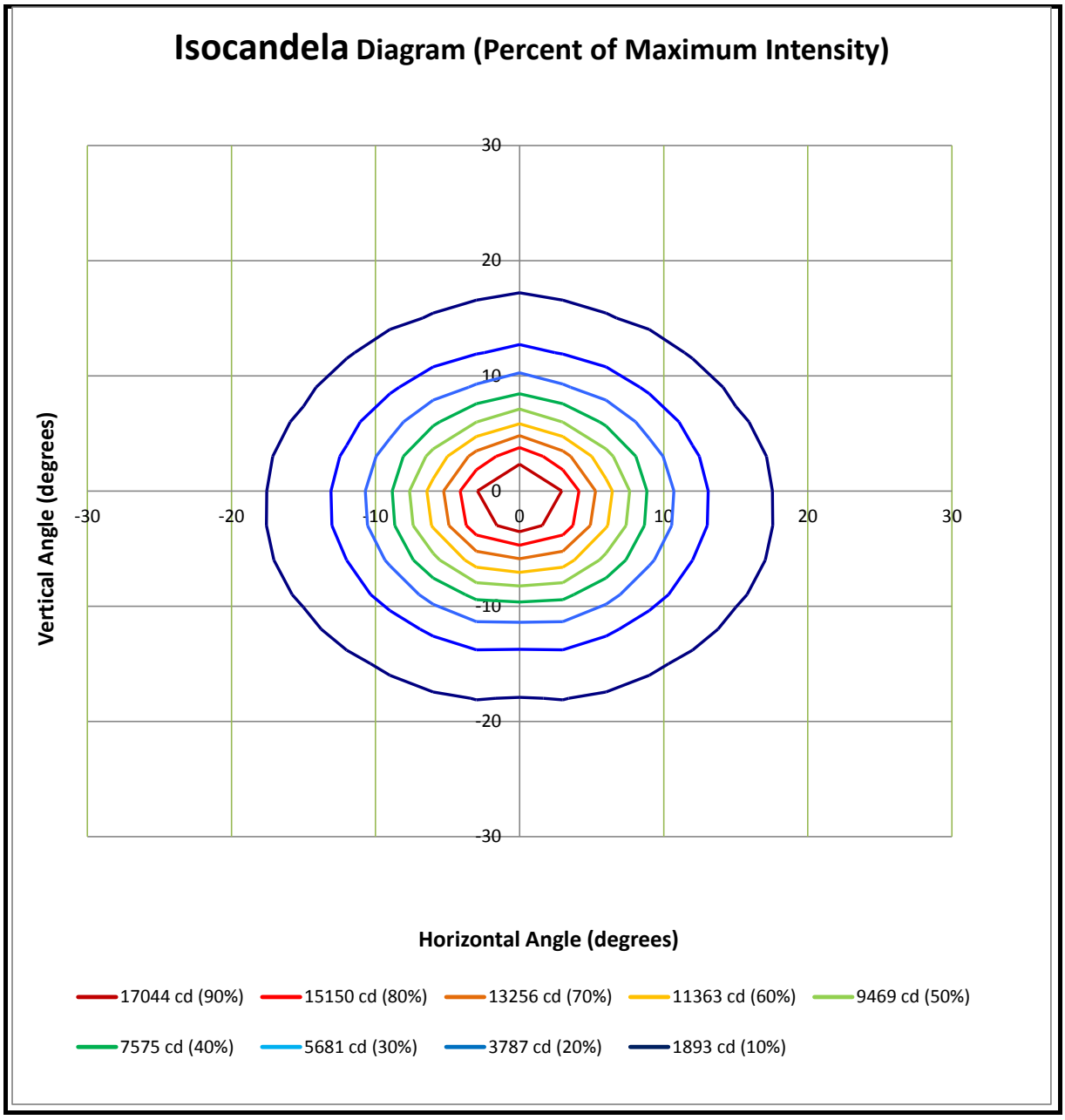
Lateral Angle (Degrees)

Vertical Angle (Degrees)	0	1	3	5	7	9	11	13	15	17	19.5
85.0	9	8	8	8	8	8	8	8	8	8	8
75.0	17	17	17	17	17	17	17	17	17	17	17
65.0	22	22	22	22	22	22	22	22	22	22	21
55.0	24	24	24	24	24	24	24	24	23	23	23
47.5	29	29	29	28	28	27	27	26	26	25	25
42.5	39	38	37	36	35	34	34	33	32	32	31
37.5	46	46	47	47	48	48	48	47	47	44	41
33.0	97	90	76	71	62	52	50	48	47	47	46
29.0	620	604	565	529	477	407	320	228	141	77	51
25.5	985	979	966	954	922	877	792	683	552	405	221
22.5	1136	1121	1098	1078	1052	1020	989	953	888	765	550
19.5	1389	1364	1330	1289	1233	1167	1103	1047	1001	960	844
17.0	1838	1771	1700	1613	1500	1381	1267	1162	1083	1022	961
15.0	2541	2405	2264	2080	1863	1654	1463	1301	1176	1084	1007
13.0	3530	3327	3138	2834	2462	2076	1733	1487	1296	1165	1054
11.0	4811	4509	4266	3846	3310	2698	2169	1742	1461	1257	1107
9.0	6762	6287	5881	5181	4336	3520	2753	2132	1667	1377	1167
7.0	9341	8674	8037	6938	5665	4476	3409	2554	1940	1530	1235
5.0	12758	11795	10827	9087	7260	5448	4061	2980	2214	1697	1313
3.0	16546	15463	13975	11390	8759	6454	4695	3383	2458	1843	1398
1.0	18653	17962	16407	13345	9920	7141	5077	3622	2606	1929	1458
0.0	18725	18572	17002	13892	10223	7321	5191	3697	2643	1950	1478
-1.0	18939	18630	17130	14108	10352	7378	5226	3712	2654	1957	1486
-3.0	17916	17834	16258	13307	9767	7076	5112	3662	2637	1958	1489
-5.0	14902	15302	13798	11204	8565	6403	4651	3393	2496	1893	1457
-7.0	11241	11732	10680	9005	7098	5453	4088	3036	2265	1770	1399
-9.0	8267	8704	8016	6945	5643	4414	3412	2604	2032	1625	1323
-11.0	5927	6295	5877	5163	4292	3467	2748	2178	1762	1481	1245
-13.0	4150	4404	4188	3734	3222	2653	2192	1826	1550	1347	1168
-15.0	2891	3048	2951	2685	2411	2072	1785	1561	1379	1239	1099
-17.0	2079	2169	2138	2011	1853	1670	1500	1365	1249	1146	1038
-19.5	1547	1588	1585	1515	1428	1346	1263	1186	1119	1052	955
-22.5	1217	1237	1237	1199	1156	1115	1079	1042	1000	919	706
-25.5	1034	1046	1051	1031	1010	986	945	862	730	568	355
-29.0	744	766	780	740	682	601	506	399	272	158	67
-33.0	157	173	190	167	135	95	70	50	45	42	39
-37.5	38	39	39	39	38	38	38	38	38	38	38
42.5	35	35	35	35	34	34	33	33	32	32	31
-47.5	30	30	30	30	29	29	29	28	28	27	26
-55.0	21	21	21	21	21	21	21	21	21	21	21
-65.0	19	19	19	19	19	19	19	19	19	19	19
-75.0	16	16	16	16	16	16	16	15	15	15	15
-85.0	9	9	9	9	9	9	9	9	9	9	9

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	8	8	8	7	7	7	7	6	5	3	1
75.0	16	16	16	15	15	14	13	12	10	7	3
65.0	21	21	20	20	19	19	18	16	13	10	5
55.0	23	23	23	23	22	22	20	19	16	12	7
47.5	25	24	24	23	23	22	22	20	17	13	7
42.5	29	28	26	24	23	23	22	21	18	14	8
37.5	37	33	31	28	25	23	22	21	19	14	8
33.0	45	43	37	31	27	24	23	21	19	15	8
29.0	47	46	43	37	30	25	23	22	19	15	8
25.5	74	48	46	41	33	27	23	22	20	16	8
22.5	267	76	47	43	37	29	24	22	20	16	8
19.5	558	237	53	45	40	31	25	22	20	16	9
17.0	786	432	94	46	42	31	26	22	20	16	9
15.0	902	591	174	46	43	32	26	22	20	16	9
13.0	962	733	273	48	43	33	27	22	20	16	9
11.0	995	835	374	53	43	34	27	22	20	16	9
9.0	1024	906	469	59	43	35	28	22	20	16	9
7.0	1051	937	550	79	43	35	28	22	20	16	9
5.0	1081	962	614	99	43	36	28	22	20	16	9
3.0	1115	977	659	114	43	36	28	22	20	16	9
1.0	1147	990	687	124	42	37	29	22	20	16	9
0.0	1160	996	694	127	42	37	29	22	20	16	9
-1.0	1168	999	692	126	42	37	29	22	20	16	9
-3.0	1174	1002	673	119	41	36	29	22	20	16	9
-5.0	1164	997	642	106	41	36	28	22	20	16	9
-7.0	1139	979	590	86	41	35	28	22	20	16	9
-9.0	1101	952	519	62	40	34	28	22	20	16	9
-11.0	1059	895	431	54	40	33	28	22	20	16	9
-13.0	1016	807	332	45	40	33	27	22	20	16	9
-15.0	966	679	229	43	40	32	27	21	20	16	9
-17.0	877	524	133	41	40	31	26	21	20	16	9
-19.5	678	316	61	39	38	31	25	21	20	16	8
-22.5	382	119	43	40	35	29	24	21	19	16	8
-25.5	127	45	39	40	33	28	23	21	19	15	8
-29.0	43	39	39	35	31	26	22	20	19	15	8
-33.0	38	39	35	32	28	24	21	20	18	15	8
-37.5	35	33	31	28	24	22	21	20	18	14	8
42.5	30	28	26	24	22	21	20	20	17	14	8
-47.5	24	23	22	21	21	20	20	19	17	13	7
-55.0	21	20	20	20	20	19	19	17	16	12	7
-65.0	19	18	18	18	17	17	17	15	13	10	5
-75.0	15	15	15	14	14	13	13	12	10	8	3
-85.0	9	9	9	8	8	8	8	7	5	3	1


Isocandela Diagram (Percent of Maximum Intensity)
Vertical Angle (degrees)
30
20
10
0
-10
-20
-30
-30
-20
-10
0
10
20
30
Horizontal Angle (degrees)
17044 cd (90%)
15150 cd (80%)
13256 cd (70%)
11363 cd (60%)
9469 cd (50%)
7575 cd (40%)
5681 cd (30%)
3787 cd (20%)
1893 cd (10%)