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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

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United States

Catalog Number
LBF-LED-X66-FL-9-C

Order Number
11913931
Test Number
11913931.16

Test Date

2017-08-18

Prepared By

Austin Duff, Technician

Approved By

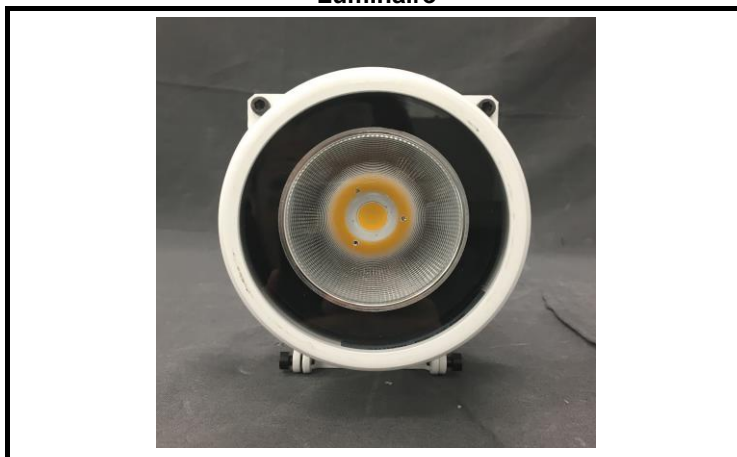
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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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:	2224 Lumens
Luminaire Efficacy:	82.9 lm/w
Maximum Candela:	5167 Candela

Test Conditions

Test Temperature:	25.5 °C
Voltage:	119.9 VAC
Current:	0.2255 A
Power:	26.82 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

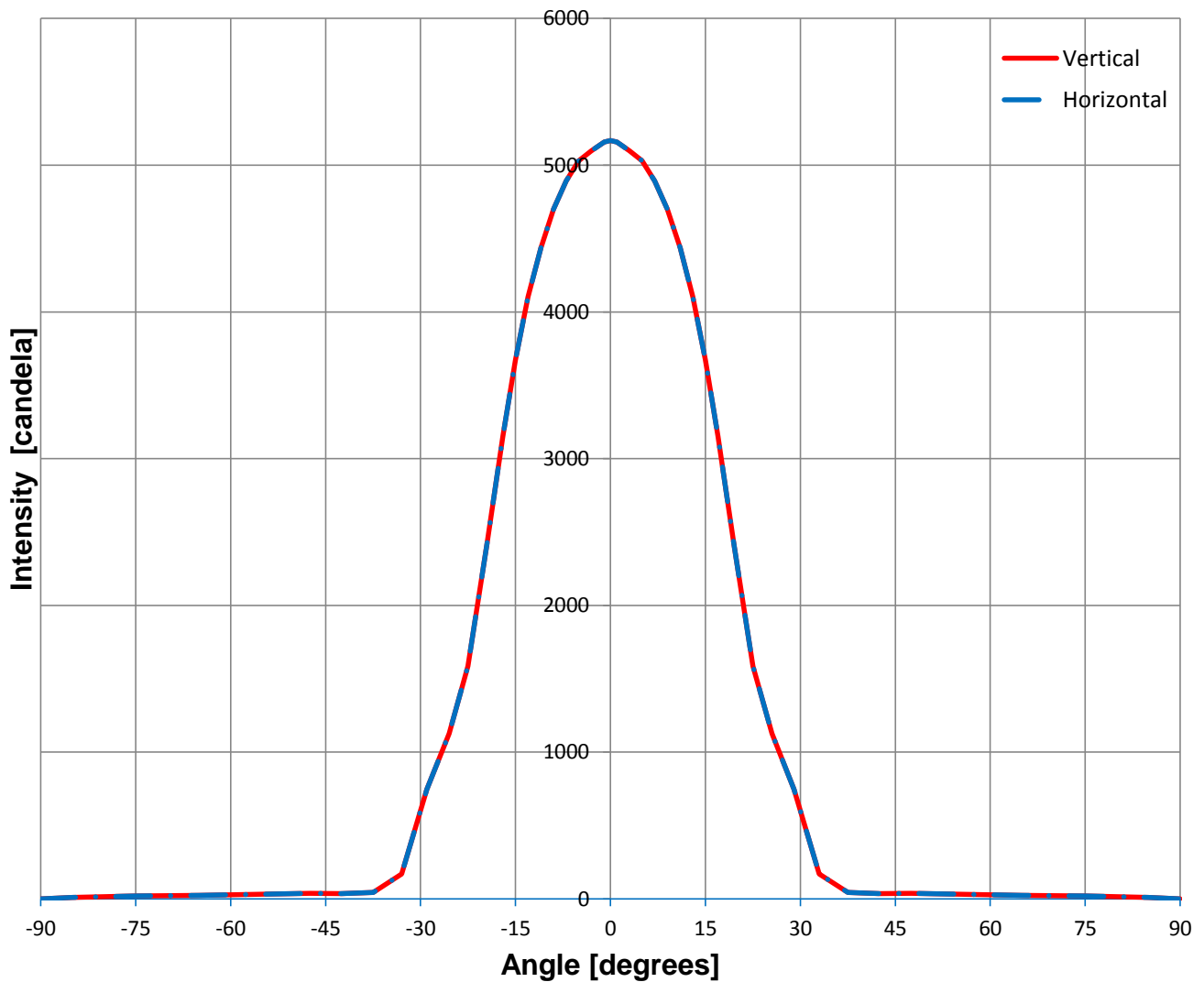
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	119.9 VAC	0.2255 A	26.82 W	0.992	60 Hz	12.8 %

Summary of Results

Total Lumen Output:	2224.0 Lumens	Maximum Candela:	5166.8 Candela
Luminaire Efficacy:	82.9 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	2048.3 Lumens	Field Angle :	61.2 H X 61.2 V
Beam Lumens:	1343.7 Lumens	Beam Angle :	37.9 H X 37.9 V
Spill Light Lumens:	175.7 Lumens	IESNA Type:	4 H X 4 V

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	10	10	10	10	10	10	10	10	10	10	10
75.0	19	19	19	19	19	19	19	19	19	18	18
65.0	24	24	24	24	24	23	23	23	23	23	23
55.0	31	31	31	31	31	31	30	30	30	30	30
47.5	38	38	38	39	39	39	39	39	38	38	37
42.5	36	36	36	36	36	36	36	36	36	36	37
37.5	44	44	44	44	43	42	41	41	40	39	37
33.0	170	169	161	146	123	96	77	60	52	48	44
29.0	747	744	724	684	626	548	453	349	244	153	81
25.5	1127	1126	1113	1089	1051	1003	929	828	694	535	327
22.5	1587	1582	1543	1468	1381	1276	1180	1100	1013	895	677
19.5	2418	2411	2352	2236	2069	1863	1637	1419	1242	1114	964
17.0	3151	3143	3079	2952	2764	2517	2220	1895	1581	1319	1114
15.0	3672	3664	3598	3471	3280	3026	2711	2342	1948	1581	1242
13.0	4102	4095	4035	3919	3733	3478	3160	2776	2342	1895	1419
11.0	4437	4430	4375	4267	4099	3861	3543	3160	2711	2220	1637
9.0	4701	4694	4642	4539	4377	4155	3861	3478	3026	2517	1863
7.0	4892	4885	4837	4742	4593	4377	4099	3733	3280	2764	2069
5.0	5030	5024	4979	4886	4742	4539	4267	3919	3471	2952	2236
3.0	5098	5093	5061	4979	4837	4642	4375	4035	3598	3079	2352
1.0	5157	5144	5093	5024	4885	4694	4430	4095	3664	3143	2411
0.0	5167	5157	5098	5030	4892	4701	4437	4102	3672	3151	2418
-1.0	5157	5144	5093	5024	4885	4694	4430	4095	3664	3143	2411
-3.0	5098	5093	5061	4979	4837	4642	4375	4035	3598	3079	2352
-5.0	5030	5024	4979	4886	4742	4539	4267	3919	3471	2952	2236
-7.0	4892	4885	4837	4742	4593	4377	4099	3733	3280	2764	2069
-9.0	4701	4694	4642	4539	4377	4155	3861	3478	3026	2517	1863
-11.0	4437	4430	4375	4267	4099	3861	3543	3160	2711	2220	1637
-13.0	4102	4095	4035	3919	3733	3478	3160	2776	2342	1895	1419
-15.0	3672	3664	3598	3471	3280	3026	2711	2342	1948	1581	1242
-17.0	3151	3143	3079	2952	2764	2517	2220	1895	1581	1319	1114
-19.5	2418	2411	2352	2236	2069	1863	1637	1419	1242	1114	964
-22.5	1587	1582	1543	1468	1381	1276	1180	1100	1013	895	677
-25.5	1127	1126	1113	1089	1051	1003	929	828	694	535	327
-29.0	747	744	724	684	626	548	453	349	244	153	81
-33.0	170	169	161	146	123	96	77	60	52	48	44
-37.5	44	44	44	44	43	42	41	41	40	39	37
-42.5	36	36	36	36	36	36	36	36	36	36	37
-47.5	38	38	38	39	39	39	39	39	38	38	37
-55.0	31	31	31	31	31	31	30	30	30	30	30
-65.0	24	24	24	24	24	23	23	23	23	23	23
-75.0	19	19	19	19	19	19	19	19	19	18	18
-85.0	10	10	10	10	10	10	10	10	10	10	10

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	10	10	10	9	9	9	8	8	6	3	1
75.0	18	18	18	17	17	16	15	14	12	9	3
65.0	22	22	22	22	21	20	20	18	15	12	6
55.0	30	29	29	27	26	24	22	21	18	14	8
47.5	36	34	32	31	30	28	26	22	20	15	8
42.5	38	39	38	35	32	30	28	24	20	16	9
37.5	36	36	37	39	37	32	30	26	21	17	9
33.0	41	38	36	37	39	35	31	27	22	17	9
29.0	50	43	40	36	37	38	32	29	22	18	10
25.5	134	57	43	38	36	39	34	29	22	18	10
22.5	371	134	50	41	36	38	36	30	22	18	10
19.5	677	327	81	44	37	37	37	30	23	18	10
17.0	895	535	153	48	39	36	38	30	23	18	10
15.0	1013	694	244	52	40	36	38	30	23	19	10
13.0	1100	828	349	60	41	36	39	30	23	19	10
11.0	1180	929	453	77	41	36	39	30	23	19	10
9.0	1276	1003	548	96	42	36	39	31	23	19	10
7.0	1381	1051	626	123	43	36	39	31	24	19	10
5.0	1468	1089	684	146	44	36	39	31	24	19	10
3.0	1543	1113	724	161	44	36	38	31	24	19	10
1.0	1582	1126	744	169	44	36	38	31	24	19	10
0.0	1587	1127	747	170	44	36	38	31	24	19	10
-1.0	1582	1126	744	169	44	36	38	31	24	19	10
-3.0	1543	1113	724	161	44	36	38	31	24	19	10
-5.0	1468	1089	684	146	44	36	39	31	24	19	10
-7.0	1381	1051	626	123	43	36	39	31	24	19	10
-9.0	1276	1003	548	96	42	36	39	31	23	19	10
-11.0	1180	929	453	77	41	36	39	30	23	19	10
-13.0	1100	828	349	60	41	36	39	30	23	19	10
-15.0	1013	694	244	52	40	36	38	30	23	19	10
-17.0	895	535	153	48	39	36	38	30	23	18	10
-19.5	677	327	81	44	37	37	37	30	23	18	10
-22.5	371	134	50	41	36	38	36	30	22	18	10
-25.5	134	57	43	38	36	39	34	29	22	18	10
-29.0	50	43	40	36	37	38	32	29	22	18	10
-33.0	41	38	36	37	39	35	31	27	22	17	9
-37.5	36	36	37	39	37	32	30	26	21	17	9
-42.5	38	39	38	35	32	30	28	24	20	16	9
-47.5	36	34	32	31	30	28	26	22	20	15	8
-55.0	30	29	29	27	26	24	22	21	18	14	8
-65.0	22	22	22	22	21	20	20	18	15	12	6
-75.0	18	18	18	17	17	16	15	14	12	9	3
-85.0	10	10	10	9	9	9	8	8	6	3	1



Isocandela Diagram (Percent of Maximum Intensity)

