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Floodlight Distribution Test Report

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IES LM-79-2008, IES LM-35-2002 (Withdrawn)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

Prepared For
B-K LIGHTING INC

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United States

Catalog Number
DE-LED-x60-FL-9 SN-DE-LED-x60-FL-9 ST-DE-LED-x60-FL-9 SM-DE-LED-x60-FL-9
UL-DE-LED-x60-FL-9

Order Number
11353040
Test Number
11353040.20

Test Date

2016-09-09

Prepared By

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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: Circular black aluminum housing, semi-specular faceted plastic reflector and glass lens
Lamp: One (1) White LED
Mounting: VBU
Ballast/Driver: One (1) PowerSelect PS60U700C14T

Luminaire



Luminaire Characteristics
Luminous Diameter: 2.75 in.

Summary of Results

Total Luminaire Output:	780.1 Lumens
Luminaire Efficacy:	61.0 lm/w
Maximum Candela:	1762 Candela

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.1 VAC
Current:	0.1093 A
Power:	12.78 W
Power Factor:	0.974
Frequency:	60 Hz
Current THD:	14.0 %

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



Distribution - Goniophotometer

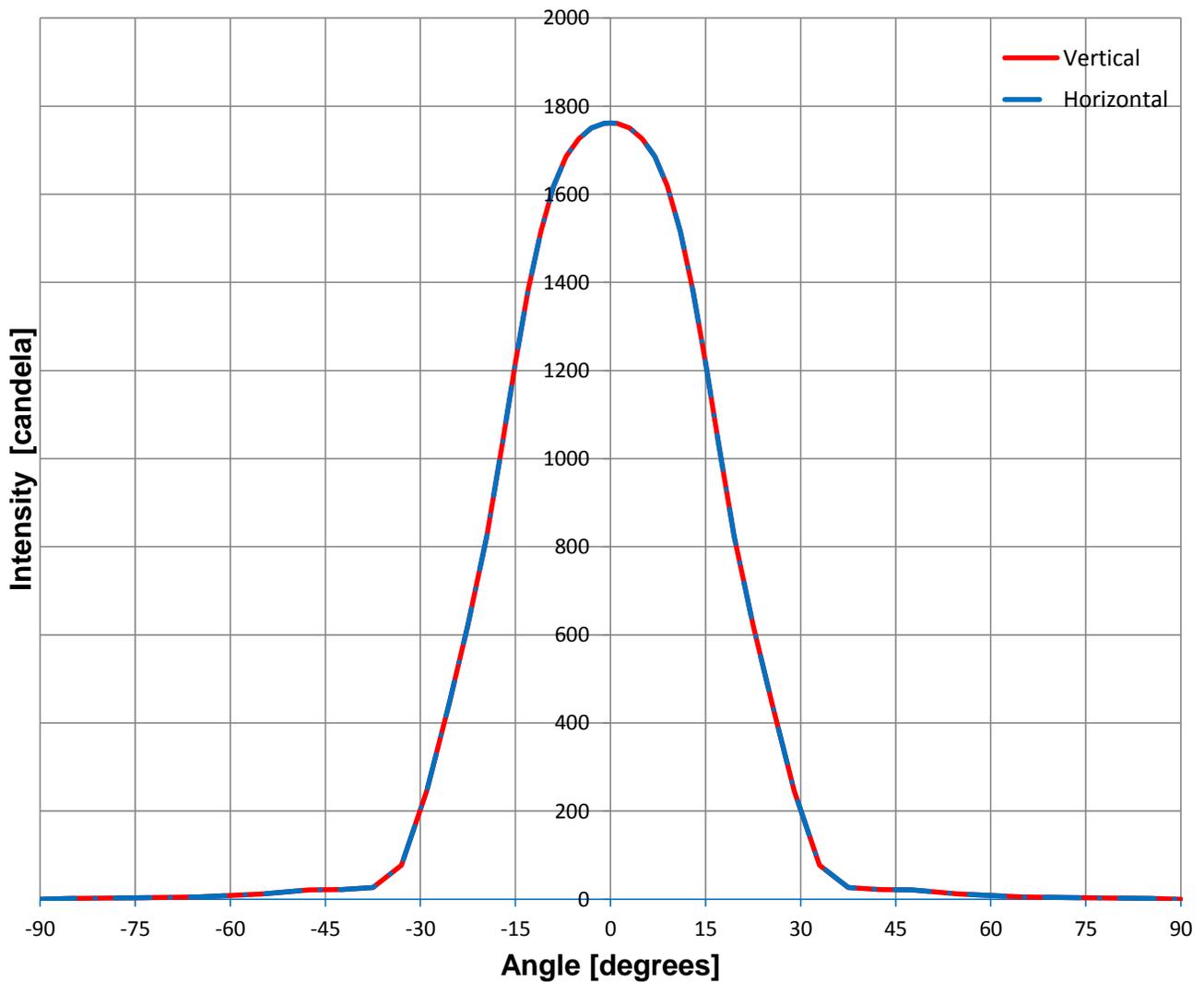
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.1093 A	12.78 W	0.974	60 Hz	14.0 %

Summary of Results

Total Lumen Output:	780.1 Lumens	Maximum Candela:	1762.1 Candela
Luminaire Efficacy:	61.0 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	712.1 Lumens	Field Angle :	61.3 H X 61.3 V
Beam Lumens:	453.9 Lumens	Beam Angle :	37.7 H X 37.7 V
Spill Light Lumens:	68.0 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	2	2	2	2	2	2	2	2	2	2	2
75.0	3	3	3	3	3	3	3	3	3	3	3
65.0	5	5	5	5	5	5	5	5	5	5	5
55.0	12	12	12	11	11	11	11	10	10	10	9
47.5	21	21	21	21	21	21	20	20	20	19	19
42.5	22	22	22	22	22	22	22	22	22	22	22
37.5	26	26	26	26	25	25	24	23	23	22	22
33.0	77	77	74	69	61	52	44	37	32	29	26
29.0	245	244	238	226	207	184	157	128	98	71	46
25.5	443	442	433	416	391	358	320	276	229	180	122
22.5	622	620	610	591	561	523	477	424	365	303	223
19.5	825	823	807	777	738	689	635	574	507	434	338
17.0	1039	1037	1017	977	921	851	774	697	620	540	434
15.0	1217	1214	1191	1147	1082	1000	906	805	709	620	507
13.0	1381	1378	1354	1309	1239	1149	1042	925	805	697	574
11.0	1516	1513	1491	1447	1379	1287	1172	1042	906	774	635
9.0	1618	1615	1595	1555	1491	1402	1287	1149	1000	851	689
7.0	1686	1684	1668	1633	1576	1491	1379	1239	1082	921	738
5.0	1726	1724	1712	1684	1633	1555	1447	1309	1147	977	777
3.0	1750	1749	1737	1712	1668	1595	1491	1354	1191	1017	807
1.0	1761	1760	1749	1724	1684	1615	1513	1378	1214	1037	823
0.0	1762	1761	1750	1726	1686	1618	1516	1381	1217	1039	825
-1.0	1761	1760	1749	1724	1684	1615	1513	1378	1214	1037	823
-3.0	1750	1749	1737	1712	1668	1595	1491	1354	1191	1017	807
-5.0	1726	1724	1712	1684	1633	1555	1447	1309	1147	977	777
-7.0	1686	1684	1668	1633	1576	1491	1379	1239	1082	921	738
-9.0	1618	1615	1595	1555	1491	1402	1287	1149	1000	851	689
-11.0	1516	1513	1491	1447	1379	1287	1172	1042	906	774	635
-13.0	1381	1378	1354	1309	1239	1149	1042	925	805	697	574
-15.0	1217	1214	1191	1147	1082	1000	906	805	709	620	507
-17.0	1039	1037	1017	977	921	851	774	697	620	540	434
-19.5	825	823	807	777	738	689	635	574	507	434	338
-22.5	622	620	610	591	561	523	477	424	365	303	223
-25.5	443	442	433	416	391	358	320	276	229	180	122
-29.0	245	244	238	226	207	184	157	128	98	71	46
-33.0	77	77	74	69	61	52	44	37	32	29	26
-37.5	26	26	26	26	25	25	24	23	23	22	22
-42.5	22	22	22	22	22	22	22	22	22	22	22
-47.5	21	21	21	21	21	21	20	20	20	19	19
-55.0	12	12	12	11	11	11	11	10	10	10	9
-65.0	5	5	5	5	5	5	5	5	5	5	5
-75.0	3	3	3	3	3	3	3	3	3	3	3
-85.0	2	2	2	2	2	2	2	2	2	2	2

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	2	2	1	1	1	1	1	1	0	0	0
75.0	3	3	3	3	3	3	3	2	2	1	0
65.0	5	5	4	4	4	4	4	3	3	2	0
55.0	8	8	7	7	6	5	5	4	3	2	1
47.5	17	16	14	11	9	7	6	5	4	3	1
42.5	21	21	19	17	13	9	7	5	4	3	1
37.5	22	22	22	21	18	13	9	6	4	3	1
33.0	24	22	22	22	21	17	11	7	4	3	1
29.0	31	25	23	22	22	19	14	7	4	3	1
25.5	65	35	25	22	22	21	16	8	5	3	2
22.5	134	65	31	24	22	21	17	8	5	3	2
19.5	223	122	46	26	22	22	19	9	5	3	2
17.0	303	180	71	29	22	22	19	10	5	3	2
15.0	365	229	98	32	23	22	20	10	5	3	2
13.0	424	276	128	37	23	22	20	10	5	3	2
11.0	477	320	157	44	24	22	20	11	5	3	2
9.0	523	358	184	52	25	22	21	11	5	3	2
7.0	561	391	207	61	25	22	21	11	5	3	2
5.0	591	416	226	69	26	22	21	11	5	3	2
3.0	610	433	238	74	26	22	21	12	5	3	2
1.0	620	442	244	77	26	22	21	12	5	3	2
0.0	622	443	245	77	26	22	21	12	5	3	2
-1.0	620	442	244	77	26	22	21	12	5	3	2
-3.0	610	433	238	74	26	22	21	12	5	3	2
-5.0	591	416	226	69	26	22	21	11	5	3	2
-7.0	561	391	207	61	25	22	21	11	5	3	2
-9.0	523	358	184	52	25	22	21	11	5	3	2
-11.0	477	320	157	44	24	22	20	11	5	3	2
-13.0	424	276	128	37	23	22	20	10	5	3	2
-15.0	365	229	98	32	23	22	20	10	5	3	2
-17.0	303	180	71	29	22	22	19	10	5	3	2
-19.5	223	122	46	26	22	22	19	9	5	3	2
-22.5	134	65	31	24	22	21	17	8	5	3	2
-25.5	65	35	25	22	22	21	16	8	5	3	2
-29.0	31	25	23	22	22	19	14	7	4	3	1
-33.0	24	22	22	22	21	17	11	7	4	3	1
-37.5	22	22	22	21	18	13	9	6	4	3	1
42.5	21	21	19	17	13	9	7	5	4	3	1
-47.5	17	16	14	11	9	7	6	5	4	3	1
-55.0	8	8	7	7	6	5	5	4	3	2	1
-65.0	5	5	4	4	4	4	4	3	3	2	0
-75.0	3	3	3	3	3	3	3	2	2	1	0
-85.0	2	2	1	1	1	1	1	1	0	0	0

Vertical Angle (Degrees)



Isocandela Diagram (Percent of Maximum Intensity)

