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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IES LM-79-2008, IES LM-35-2002 (Withdrawn)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
AR-LED-x54-FL-12

Order Number
11353040
Test Number
11353040.17

Test Date

2016-09-02

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular formed black aluminum adjustable cylinder housing with an internal specular faceted plastic reflector and a prismatic glass lens
Lamp: One (1) White LED
Mounting: Surface
Ballast/Driver: One (1) Thomas Research Products LED 12W-36-C0350

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	868.8 Lumens
Luminaire Efficacy:	79.8 lm/w
Maximum Candela:	1744 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	0.09130 A
Power:	10.89 W
Power Factor:	0.993
Frequency:	60 Hz
Current THD:	7.81 %

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



Distribution - Goniophotometer

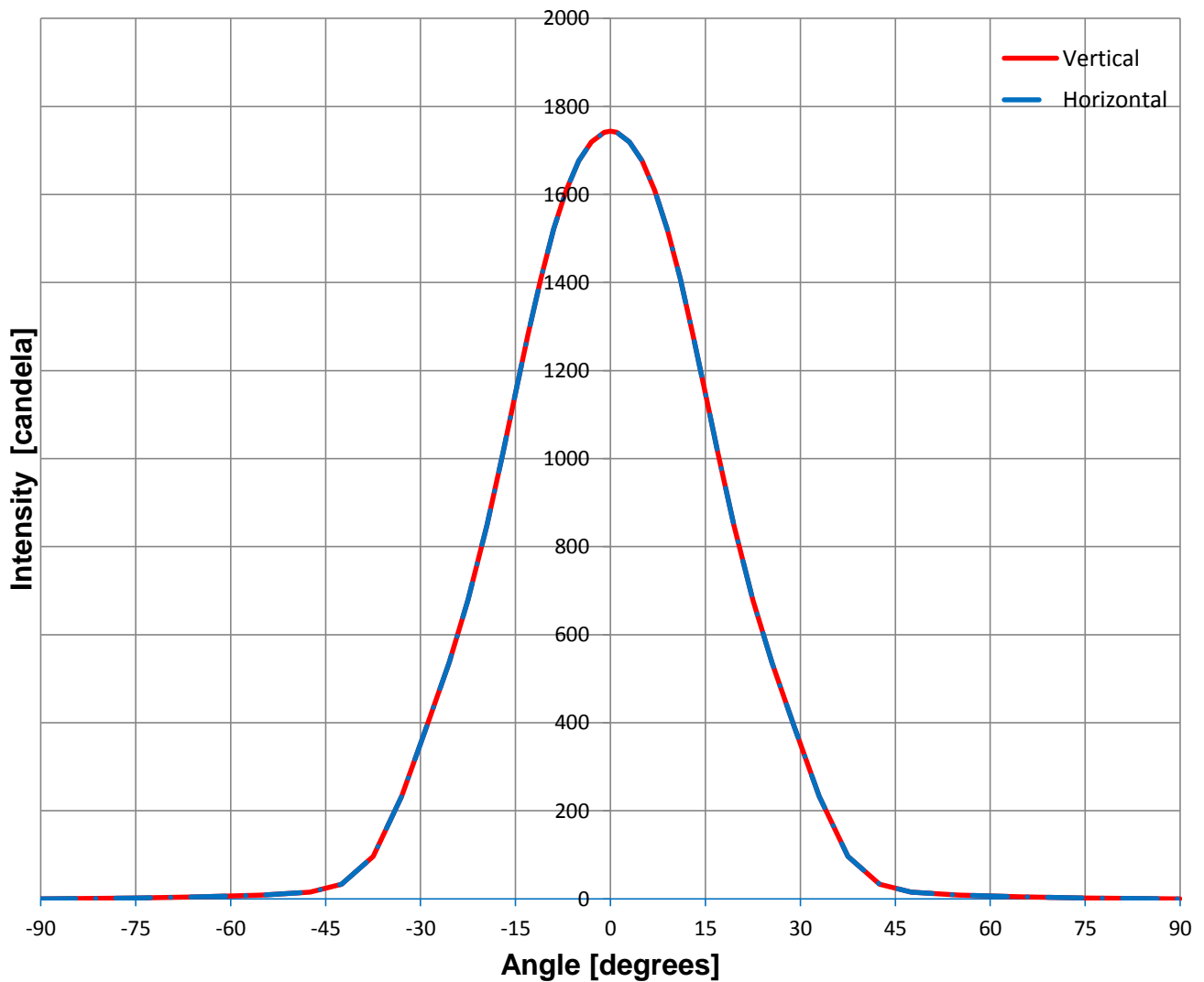
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.09130 A	10.89 W	0.993	60 Hz	7.81 %

Summary of Results

Total Lumen Output:	868.8 Lumens	Maximum Candela:	1743.7 Candela
Luminaire Efficacy:	79.8 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	803.6 Lumens	Field Angle :	69.9 H X 69.9 V
Beam Lumens:	432.3 Lumens	Beam Angle :	38.3 H X 38.3 V
Spill Light Lumens:	65.1 Lumens	IESNA Type:	4 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	0	0	0	0	0	0	0	0	0	0	0
75.0	2	2	2	2	2	2	2	2	2	2	2
65.0	4	4	4	4	4	4	4	4	4	4	4
55.0	8	8	8	8	8	8	8	8	8	7	7
47.5	15	15	15	15	15	14	14	13	13	12	11
42.5	33	33	32	31	30	28	27	25	23	21	18
37.5	97	96	94	91	85	79	71	63	55	48	39
33.0	233	232	228	221	209	194	177	157	136	116	91
29.0	393	392	387	377	362	342	318	290	258	224	181
25.5	537	536	530	517	500	476	448	416	380	339	284
22.5	678	677	669	651	628	597	562	523	481	436	375
19.5	849	847	835	812	779	737	690	638	585	530	461
17.0	1011	1009	994	965	922	869	809	744	677	610	530
15.0	1148	1146	1128	1094	1044	982	911	833	754	677	585
13.0	1282	1280	1260	1222	1166	1096	1013	925	833	744	638
11.0	1409	1407	1385	1343	1281	1204	1113	1013	911	809	690
9.0	1521	1518	1495	1451	1386	1302	1204	1096	982	869	737
7.0	1610	1607	1584	1540	1473	1386	1281	1166	1044	922	779
5.0	1677	1674	1650	1607	1540	1451	1343	1222	1094	965	812
3.0	1719	1717	1696	1650	1584	1495	1385	1260	1128	994	835
1.0	1741	1739	1717	1674	1607	1518	1407	1280	1146	1009	847
0.0	1744	1741	1719	1677	1610	1521	1409	1282	1148	1011	849
-1.0	1741	1739	1717	1674	1607	1518	1407	1280	1146	1009	847
-3.0	1719	1717	1696	1650	1584	1495	1385	1260	1128	994	835
-5.0	1677	1674	1650	1607	1540	1451	1343	1222	1094	965	812
-7.0	1610	1607	1584	1540	1473	1386	1281	1166	1044	922	779
-9.0	1521	1518	1495	1451	1386	1302	1204	1096	982	869	737
-11.0	1409	1407	1385	1343	1281	1204	1113	1013	911	809	690
-13.0	1282	1280	1260	1222	1166	1096	1013	925	833	744	638
-15.0	1148	1146	1128	1094	1044	982	911	833	754	677	585
-17.0	1011	1009	994	965	922	869	809	744	677	610	530
-19.5	849	847	835	812	779	737	690	638	585	530	461
-22.5	678	677	669	651	628	597	562	523	481	436	375
-25.5	537	536	530	517	500	476	448	416	380	339	284
-29.0	393	392	387	377	362	342	318	290	258	224	181
-33.0	233	232	228	221	209	194	177	157	136	116	91
-37.5	97	96	94	91	85	79	71	63	55	48	39
-42.5	33	33	32	31	30	28	27	25	23	21	18
-47.5	15	15	15	15	15	14	14	13	13	12	11
-55.0	8	8	8	8	8	8	8	8	8	7	7
-65.0	4	4	4	4	4	4	4	4	4	4	4
-75.0	2	2	2	2	2	2	2	2	2	2	2
-85.0	0	0	0	0	0	0	0	0	0	0	0



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	0	0	0	0	0	0	0	0	0	0	0
75.0	2	2	2	2	1	1	1	1	1	0	0
65.0	4	4	3	3	3	3	2	2	1	1	0
55.0	7	6	6	6	5	4	4	3	2	1	0
47.5	11	10	9	8	7	6	5	4	2	1	0
42.5	16	14	12	10	9	7	6	4	3	1	0
37.5	31	24	18	14	11	9	7	5	3	1	0
33.0	66	46	31	20	14	10	8	6	3	2	0
29.0	131	89	54	31	18	12	9	6	3	2	0
25.5	215	150	89	46	24	14	10	6	4	2	0
22.5	296	215	131	66	31	16	11	7	4	2	0
19.5	375	284	181	91	39	18	11	7	4	2	0
17.0	436	339	224	116	48	21	12	7	4	2	0
15.0	481	380	258	136	55	23	13	8	4	2	0
13.0	523	416	290	157	63	25	13	8	4	2	0
11.0	562	448	318	177	71	27	14	8	4	2	0
9.0	597	476	342	194	79	28	14	8	4	2	0
7.0	628	500	362	209	85	30	15	8	4	2	0
5.0	651	517	377	221	91	31	15	8	4	2	0
3.0	669	530	387	228	94	32	15	8	4	2	0
1.0	677	536	392	232	96	33	15	8	4	2	0
0.0	678	537	393	233	97	33	15	8	4	2	0
-1.0	677	536	392	232	96	33	15	8	4	2	0
-3.0	669	530	387	228	94	32	15	8	4	2	0
-5.0	651	517	377	221	91	31	15	8	4	2	0
-7.0	628	500	362	209	85	30	15	8	4	2	0
-9.0	597	476	342	194	79	28	14	8	4	2	0
-11.0	562	448	318	177	71	27	14	8	4	2	0
-13.0	523	416	290	157	63	25	13	8	4	2	0
-15.0	481	380	258	136	55	23	13	8	4	2	0
-17.0	436	339	224	116	48	21	12	7	4	2	0
-19.5	375	284	181	91	39	18	11	7	4	2	0
-22.5	296	215	131	66	31	16	11	7	4	2	0
-25.5	215	150	89	46	24	14	10	6	4	2	0
-29.0	131	89	54	31	18	12	9	6	3	2	0
-33.0	66	46	31	20	14	10	8	6	3	2	0
-37.5	31	24	18	14	11	9	7	5	3	1	0
-42.5	16	14	12	10	9	7	6	4	3	1	0
-47.5	11	10	9	8	7	6	5	4	2	1	0
-55.0	7	6	6	6	5	4	4	3	2	1	0
-65.0	4	4	3	3	3	3	2	2	1	1	0
-75.0	2	2	2	2	1	1	1	1	1	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)

