



UL LLC
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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IES LM-79-2008, IES LM-35-2002 (Withdrawn)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

Chris McCarthy
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United States

Catalog Number
AR-LED-x54-WFL-12

Order Number
11353040
Test Number
11353040.18

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 white faceted plastic reflector and a internal clear plastic lens with a external 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:	734.1 Lumens
Luminaire Efficacy:	67.4 lm/w
Maximum Candela:	641 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.09130 A
Power:	10.89 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	7.68 %

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



Distribution - Goniophotometer

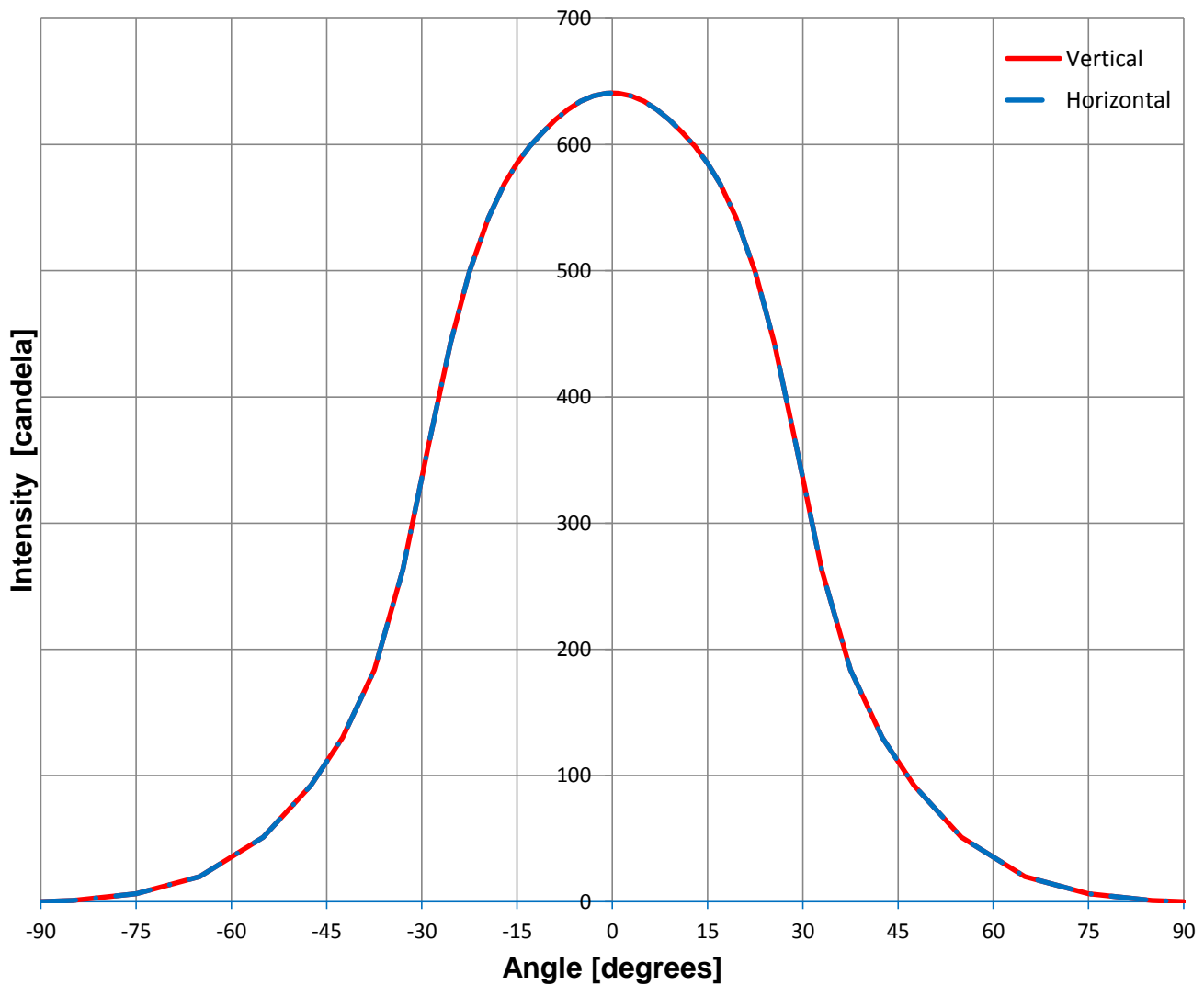
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.09130 A	10.89 W	0.994	60 Hz	7.68 %

Summary of Results

Total Lumen Output:	734.1 Lumens	Maximum Candela:	640.8 Candela
Luminaire Efficacy:	67.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	673.2 Lumens	Field Angle :	105.2 H X 105.2 V
Beam Lumens:	445.2 Lumens	Beam Angle :	61.3 H X 61.3 V
Spill Light Lumens:	61.0 Lumens	IESNA Type:	6 H X 6 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	1	1	1	1	1	1	1	1	1	1	1
75.0	6	6	6	6	6	6	6	6	6	6	6
65.0	20	20	20	20	19	19	19	18	18	17	17
55.0	51	51	51	50	50	49	48	47	45	44	42
47.5	92	92	92	91	89	88	86	84	81	78	74
42.5	130	130	129	128	126	124	121	117	113	108	103
37.5	184	183	182	180	176	172	167	161	154	147	138
33.0	263	263	260	256	249	240	230	219	207	195	180
29.0	361	360	357	351	341	329	314	297	278	258	233
25.5	443	442	439	433	423	411	394	375	352	327	293
22.5	499	499	496	491	482	470	455	436	413	387	350
19.5	542	542	539	535	527	517	503	486	465	440	402
17.0	569	569	566	562	555	546	534	518	499	475	440
15.0	585	585	583	579	573	565	553	539	521	499	465
13.0	599	598	596	593	587	579	569	556	539	518	486
11.0	610	609	608	604	598	591	581	569	553	534	503
9.0	620	619	617	613	608	600	591	579	565	546	517
7.0	628	628	625	621	615	608	598	587	573	555	527
5.0	634	634	632	628	621	613	604	593	579	562	535
3.0	638	638	636	632	625	617	608	596	583	566	539
1.0	641	640	638	634	628	619	609	598	585	569	542
0.0	641	641	638	634	628	620	610	599	585	569	542
-1.0	641	640	638	634	628	619	609	598	585	569	542
-3.0	638	638	636	632	625	617	608	596	583	566	539
-5.0	634	634	632	628	621	613	604	593	579	562	535
-7.0	628	628	625	621	615	608	598	587	573	555	527
-9.0	620	619	617	613	608	600	591	579	565	546	517
-11.0	610	609	608	604	598	591	581	569	553	534	503
-13.0	599	598	596	593	587	579	569	556	539	518	486
-15.0	585	585	583	579	573	565	553	539	521	499	465
-17.0	569	569	566	562	555	546	534	518	499	475	440
-19.5	542	542	539	535	527	517	503	486	465	440	402
-22.5	499	499	496	491	482	470	455	436	413	387	350
-25.5	443	442	439	433	423	411	394	375	352	327	293
-29.0	361	360	357	351	341	329	314	297	278	258	233
-33.0	263	263	260	256	249	240	230	219	207	195	180
-37.5	184	183	182	180	176	172	167	161	154	147	138
-42.5	130	130	129	128	126	124	121	117	113	108	103
-47.5	92	92	92	91	89	88	86	84	81	78	74
-55.0	51	51	51	50	50	49	48	47	45	44	42
-65.0	20	20	20	20	19	19	19	18	18	17	17
-75.0	6	6	6	6	6	6	6	6	6	6	6
-85.0	1	1	1	1	1	1	1	1	1	1	1



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	1	1	1	1	1	1	0	0	0	0	0
75.0	5	5	5	5	4	4	3	2	1	1	0
65.0	16	15	14	12	11	9	8	6	3	1	0
55.0	39	36	33	29	24	20	16	10	6	2	0
47.5	69	63	57	49	41	32	25	16	8	3	0
42.5	95	87	78	66	55	43	32	20	9	4	1
37.5	127	115	102	87	71	55	41	24	11	4	1
33.0	163	146	127	107	87	66	49	29	12	5	1
29.0	204	179	153	127	102	78	57	33	14	5	1
25.5	252	215	179	146	115	87	63	36	15	5	1
22.5	301	252	204	163	127	95	69	39	16	5	1
19.5	350	293	233	180	138	103	74	42	17	6	1
17.0	387	327	258	195	147	108	78	44	17	6	1
15.0	413	352	278	207	154	113	81	45	18	6	1
13.0	436	375	297	219	161	117	84	47	18	6	1
11.0	455	394	314	230	167	121	86	48	19	6	1
9.0	470	411	329	240	172	124	88	49	19	6	1
7.0	482	423	341	249	176	126	89	50	19	6	1
5.0	491	433	351	256	180	128	91	50	20	6	1
3.0	496	439	357	260	182	129	92	51	20	6	1
1.0	499	442	360	263	183	130	92	51	20	6	1
0.0	499	443	361	263	184	130	92	51	20	6	1
-1.0	499	442	360	263	183	130	92	51	20	6	1
-3.0	496	439	357	260	182	129	92	51	20	6	1
-5.0	491	433	351	256	180	128	91	50	20	6	1
-7.0	482	423	341	249	176	126	89	50	19	6	1
-9.0	470	411	329	240	172	124	88	49	19	6	1
-11.0	455	394	314	230	167	121	86	48	19	6	1
-13.0	436	375	297	219	161	117	84	47	18	6	1
-15.0	413	352	278	207	154	113	81	45	18	6	1
-17.0	387	327	258	195	147	108	78	44	17	6	1
-19.5	350	293	233	180	138	103	74	42	17	6	1
-22.5	301	252	204	163	127	95	69	39	16	5	1
-25.5	252	215	179	146	115	87	63	36	15	5	1
-29.0	204	179	153	127	102	78	57	33	14	5	1
-33.0	163	146	127	107	87	66	49	29	12	5	1
-37.5	127	115	102	87	71	55	41	24	11	4	1
-42.5	95	87	78	66	55	43	32	20	9	4	1
-47.5	69	63	57	49	41	32	25	16	8	3	0
-55.0	39	36	33	29	24	20	16	10	6	2	0
-65.0	16	15	14	12	11	9	8	6	3	1	0
-75.0	5	5	5	5	4	4	3	2	1	1	0
-85.0	1	1	1	1	1	1	0	0	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)

