



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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IES LM-79-2008, IES LM-35-2002 (Withdrawn)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
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
AR-LED-x54-MFL-13

Order Number
11353040
Test Number
11353040.19

Test Date

2016-09-01

Prepared By

Khang Nguyen, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: Circular formed black aluminum adjustable cylinder housing with an internal specular faceted plastic reflector and a linear 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:	758.5 Lumens
Luminaire Efficacy:	70.0 lm/w
Maximum Candela:	1236 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.09090 A
Power:	10.84 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	7.50 %

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



Distribution - Goniophotometer

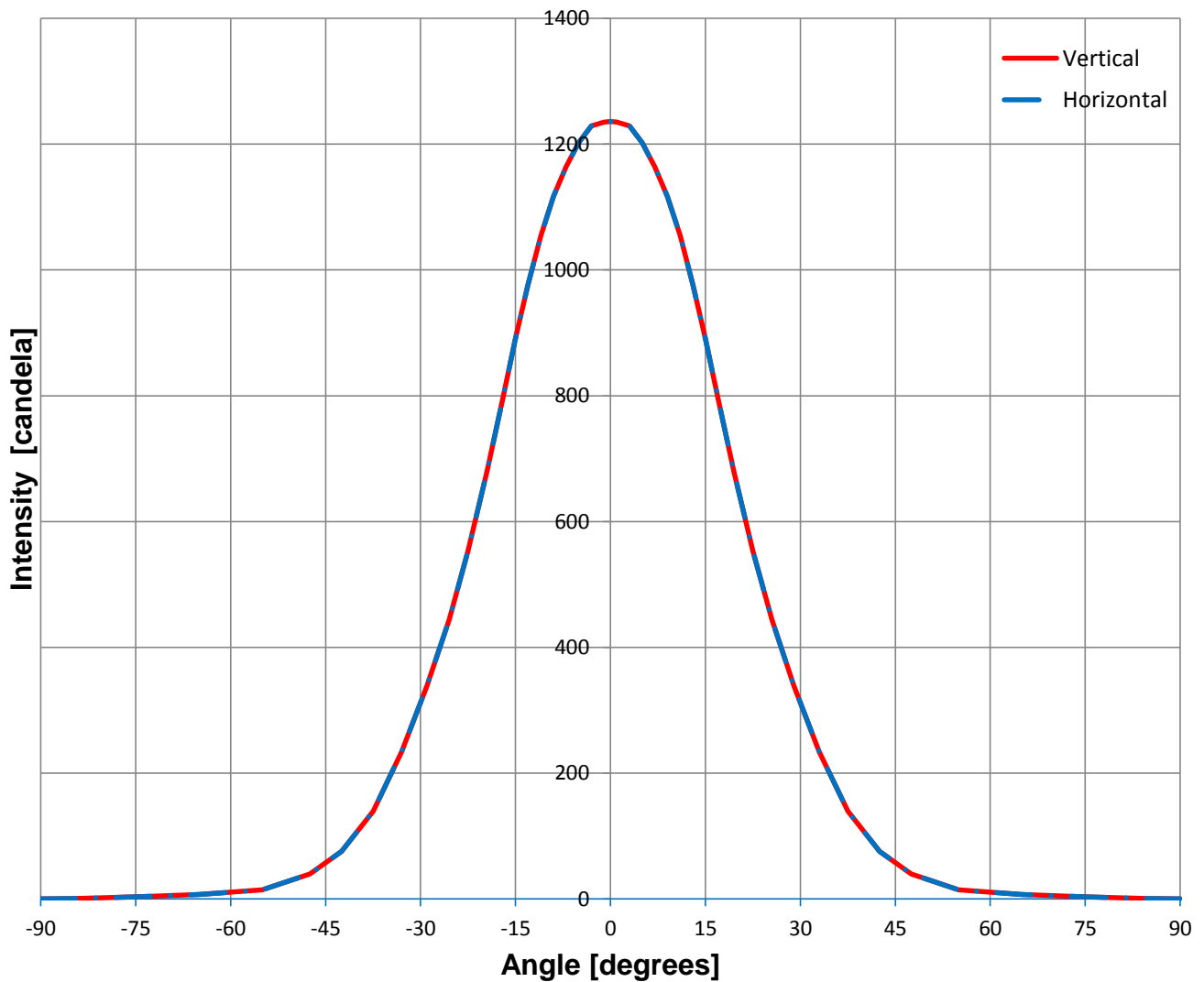
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.09090 A	10.84 W	0.994	60 Hz	7.50 %

Summary of Results

Total Lumen Output:	758.5 Lumens	Maximum Candela:	1236.3 Candela
Luminaire Efficacy:	70.0 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	680.4 Lumens	Field Angle :	77.4 H X 77.4 V
Beam Lumens:	380.9 Lumens	Beam Angle :	41.9 H X 41.9 V
Spill Light Lumens:	78.1 Lumens	IESNA Type:	5 H X 5 V

Maximum Candlepower Plot





Candela Tabulation

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	3	3	3	3	3	3	3	3	3	3	3
65.0	7	7	7	7	7	7	7	6	6	6	6
55.0	14	14	14	14	14	14	14	13	13	12	12
47.5	39	39	39	38	37	36	34	33	30	28	25
42.5	75	75	75	73	71	69	66	62	58	54	49
37.5	139	139	137	134	129	124	117	110	102	94	84
33.0	234	234	231	226	219	209	197	184	169	154	134
29.0	338	338	335	328	318	305	289	270	250	228	200
25.5	443	443	438	428	415	397	377	354	329	302	267
22.5	553	552	545	532	514	490	463	433	401	368	326
19.5	680	678	670	652	628	597	561	522	480	438	387
17.0	796	794	784	763	733	694	650	602	552	500	438
15.0	890	889	877	853	819	775	724	668	610	552	480
13.0	977	975	963	938	902	855	797	735	668	602	522
11.0	1055	1053	1040	1014	976	927	867	797	724	650	561
9.0	1117	1115	1103	1078	1040	989	927	855	775	694	597
7.0	1164	1163	1151	1127	1091	1040	976	902	819	733	628
5.0	1203	1201	1187	1163	1127	1078	1014	938	853	763	652
3.0	1229	1227	1214	1187	1151	1103	1040	963	877	784	670
1.0	1235	1234	1227	1201	1163	1115	1053	975	889	794	678
0.0	1236	1235	1229	1203	1164	1117	1055	977	890	796	680
-1.0	1235	1234	1227	1201	1163	1115	1053	975	889	794	678
-3.0	1229	1227	1214	1187	1151	1103	1040	963	877	784	670
-5.0	1203	1201	1187	1163	1127	1078	1014	938	853	763	652
-7.0	1164	1163	1151	1127	1091	1040	976	902	819	733	628
-9.0	1117	1115	1103	1078	1040	989	927	855	775	694	597
-11.0	1055	1053	1040	1014	976	927	867	797	724	650	561
-13.0	977	975	963	938	902	855	797	735	668	602	522
-15.0	890	889	877	853	819	775	724	668	610	552	480
-17.0	796	794	784	763	733	694	650	602	552	500	438
-19.5	680	678	670	652	628	597	561	522	480	438	387
-22.5	553	552	545	532	514	490	463	433	401	368	326
-25.5	443	443	438	428	415	397	377	354	329	302	267
-29.0	338	338	335	328	318	305	289	270	250	228	200
-33.0	234	234	231	226	219	209	197	184	169	154	134
-37.5	139	139	137	134	129	124	117	110	102	94	84
-42.5	75	75	75	73	71	69	66	62	58	54	49
-47.5	39	39	39	38	37	36	34	33	30	28	25
-55.0	14	14	14	14	14	14	14	13	13	12	12
-65.0	7	7	7	7	7	7	7	6	6	6	6
-75.0	3	3	3	3	3	3	3	3	3	3	3
-85.0	0	0	0	0	0	0	0	0	0	0	0

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	0	0	0	0	0	0	0	0	0	0	0
75.0	3	3	3	3	2	2	2	1	1	0	0
65.0	6	6	5	5	5	4	4	3	2	1	0
55.0	11	11	10	9	8	7	6	5	3	1	0
47.5	22	19	16	14	12	10	8	6	4	2	0
42.5	42	35	28	21	16	12	10	7	4	2	0
37.5	72	61	48	35	23	16	12	8	5	2	0
33.0	112	92	73	53	35	21	14	9	5	3	0
29.0	165	133	100	73	48	28	16	10	5	3	0
25.5	222	179	133	92	61	35	19	11	6	3	0
22.5	274	222	165	112	72	42	22	11	6	3	0
19.5	326	267	200	134	84	49	25	12	6	3	0
17.0	368	302	228	154	94	54	28	12	6	3	0
15.0	401	329	250	169	102	58	30	13	6	3	0
13.0	433	354	270	184	110	62	33	13	6	3	0
11.0	463	377	289	197	117	66	34	14	7	3	0
9.0	490	397	305	209	124	69	36	14	7	3	0
7.0	514	415	318	219	129	71	37	14	7	3	0
5.0	532	428	328	226	134	73	38	14	7	3	0
3.0	545	438	335	231	137	75	39	14	7	3	0
1.0	552	443	338	234	139	75	39	14	7	3	0
0.0	553	443	338	234	139	75	39	14	7	3	0
-1.0	552	443	338	234	139	75	39	14	7	3	0
-3.0	545	438	335	231	137	75	39	14	7	3	0
-5.0	532	428	328	226	134	73	38	14	7	3	0
-7.0	514	415	318	219	129	71	37	14	7	3	0
-9.0	490	397	305	209	124	69	36	14	7	3	0
-11.0	463	377	289	197	117	66	34	14	7	3	0
-13.0	433	354	270	184	110	62	33	13	6	3	0
-15.0	401	329	250	169	102	58	30	13	6	3	0
-17.0	368	302	228	154	94	54	28	12	6	3	0
-19.5	326	267	200	134	84	49	25	12	6	3	0
-22.5	274	222	165	112	72	42	22	11	6	3	0
-25.5	222	179	133	92	61	35	19	11	6	3	0
-29.0	165	133	100	73	48	28	16	10	5	3	0
-33.0	112	92	73	53	35	21	14	9	5	3	0
-37.5	72	61	48	35	23	16	12	8	5	2	0
-42.5	42	35	28	21	16	12	10	7	4	2	0
-47.5	22	19	16	14	12	10	8	6	4	2	0
-55.0	11	11	10	9	8	7	6	5	3	1	0
-65.0	6	6	5	5	5	4	4	3	2	1	0
-75.0	3	3	3	3	2	2	2	1	1	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)

