



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IES LM-79-2008, IES LM-35-2002 (Withdrawn)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
DE-LED-x66-FL-9 SN-DE-LED-x66-FL-9 ST-DE-LED-x66-FL-9 SM-DE-LED-x66-FL-9
UL-DE-LED-x66-FL-9

Order Number
11353040
Test Number
11353040.29

Test Date

2016-09-12

Prepared By

Khang Nguyen, Technician

Approved By

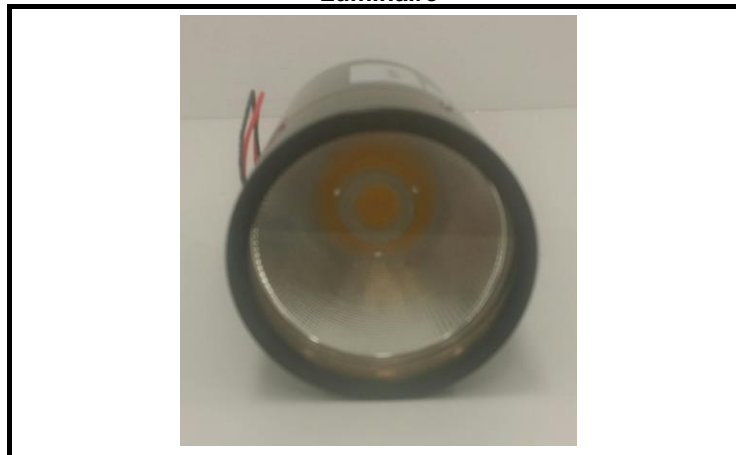
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular black aluminum housing, specular faceted reflector, and glass lens
Lamp: One (1) White LED
Mounting: VBU
Ballast/Driver: Thomas Research Products LED25W-36-C0700-LE

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.75 in.

Summary of Results

Total Luminaire Output:	1726 Lumens
Luminaire Efficacy:	60.8 lm/w
Maximum Candela:	5061 Candela

Test Conditions

Test Temperature:	25.6 °C
Voltage:	120.1 VAC
Current:	0.2408 A
Power:	28.38 W
Power Factor:	0.982
Frequency:	60 Hz
Current THD:	16.3 %

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



Distribution - Goniophotometer

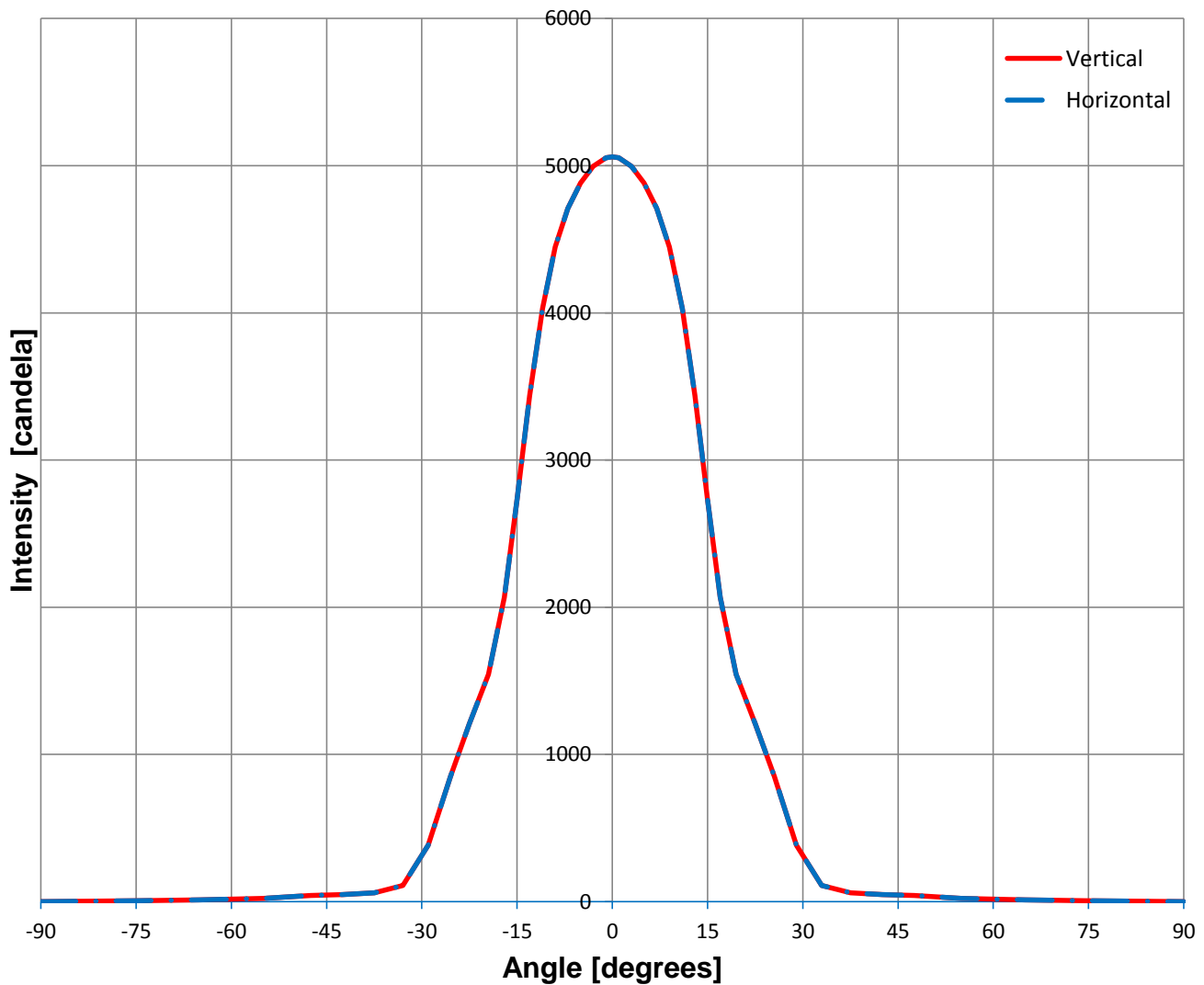
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	120.1 VAC	0.2408 A	28.38 W	0.982	60 Hz	16.3 %

Summary of Results

Total Lumen Output:	1726.2 Lumens	Maximum Candela:	5060.7 Candela
Luminaire Efficacy:	60.8 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1550.8 Lumens	Field Angle :	56.2 H X 56.2 V
Beam Lumens:	910.1 Lumens	Beam Angle :	31.2 H X 31.2 V
Spill Light Lumens:	175.4 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	2	2	2	2	2	2	2	2	2	2	2
75.0	6	6	6	6	6	6	6	6	6	6	6
65.0	11	11	11	11	11	11	11	10	10	10	10
55.0	21	21	21	21	21	21	20	20	19	19	18
47.5	42	42	41	41	41	41	40	39	38	37	35
42.5	47	47	47	47	46	46	46	45	45	44	43
37.5	59	59	58	57	56	55	54	52	51	50	48
33.0	109	109	107	103	97	90	83	76	69	63	58
29.0	384	382	369	342	302	256	207	165	130	105	85
25.5	851	848	828	789	729	651	559	455	349	250	157
22.5	1208	1206	1190	1156	1102	1029	930	808	668	517	337
19.5	1545	1541	1513	1459	1394	1317	1230	1126	993	830	602
17.0	2066	2059	2002	1888	1745	1593	1453	1329	1206	1063	830
15.0	2728	2716	2626	2450	2216	1955	1710	1508	1348	1206	993
13.0	3439	3425	3321	3119	2823	2459	2076	1753	1508	1329	1126
11.0	4030	4018	3921	3734	3433	3024	2550	2076	1710	1453	1230
9.0	4449	4439	4359	4195	3925	3533	3024	2459	1955	1593	1317
7.0	4711	4703	4641	4509	4283	3925	3433	2823	2216	1745	1394
5.0	4881	4874	4816	4703	4509	4195	3734	3119	2450	1888	1459
3.0	4995	4987	4930	4816	4641	4359	3921	3321	2626	2002	1513
1.0	5053	5044	4987	4874	4703	4439	4018	3425	2716	2059	1541
0.0	5061	5053	4995	4881	4711	4449	4030	3439	2728	2066	1545
-1.0	5053	5044	4987	4874	4703	4439	4018	3425	2716	2059	1541
-3.0	4995	4987	4930	4816	4641	4359	3921	3321	2626	2002	1513
-5.0	4881	4874	4816	4703	4509	4195	3734	3119	2450	1888	1459
-7.0	4711	4703	4641	4509	4283	3925	3433	2823	2216	1745	1394
-9.0	4449	4439	4359	4195	3925	3533	3024	2459	1955	1593	1317
-11.0	4030	4018	3921	3734	3433	3024	2550	2076	1710	1453	1230
-13.0	3439	3425	3321	3119	2823	2459	2076	1753	1508	1329	1126
-15.0	2728	2716	2626	2450	2216	1955	1710	1508	1348	1206	993
-17.0	2066	2059	2002	1888	1745	1593	1453	1329	1206	1063	830
-19.5	1545	1541	1513	1459	1394	1317	1230	1126	993	830	602
-22.5	1208	1206	1190	1156	1102	1029	930	808	668	517	337
-25.5	851	848	828	789	729	651	559	455	349	250	157
-29.0	384	382	369	342	302	256	207	165	130	105	85
-33.0	109	109	107	103	97	90	83	76	69	63	58
-37.5	59	59	58	57	56	55	54	52	51	50	48
-42.5	47	47	47	47	46	46	46	45	45	44	43
-47.5	42	42	41	41	41	41	40	39	38	37	35
-55.0	21	21	21	21	21	21	20	20	19	19	18
-65.0	11	11	11	11	11	11	11	10	10	10	10
-75.0	6	6	6	6	6	6	6	6	6	6	6
-85.0	2	2	2	2	2	2	2	2	2	2	2



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	2	2	2	2	2	2	1	1	1	0	0
75.0	6	6	5	5	5	4	4	3	3	2	0
65.0	10	9	9	9	8	8	7	6	4	3	1
55.0	17	17	16	14	13	11	10	8	6	3	1
47.5	32	28	24	21	18	15	13	10	7	4	1
42.5	42	40	37	31	23	18	15	11	8	4	2
37.5	47	45	43	40	33	23	18	13	8	5	2
33.0	53	50	47	44	40	31	21	14	9	5	2
29.0	67	57	51	47	43	37	24	16	9	5	2
25.5	100	73	57	50	45	40	28	17	9	6	2
22.5	173	100	67	53	47	42	32	17	10	6	2
19.5	337	157	85	58	48	43	35	18	10	6	2
17.0	517	250	105	63	50	44	37	19	10	6	2
15.0	668	349	130	69	51	45	38	19	10	6	2
13.0	808	455	165	76	52	45	39	20	10	6	2
11.0	930	559	207	83	54	46	40	20	11	6	2
9.0	1029	651	256	90	55	46	41	21	11	6	2
7.0	1102	729	302	97	56	46	41	21	11	6	2
5.0	1156	789	342	103	57	47	41	21	11	6	2
3.0	1190	828	369	107	58	47	41	21	11	6	2
1.0	1206	848	382	109	59	47	42	21	11	6	2
0.0	1208	851	384	109	59	47	42	21	11	6	2
-1.0	1206	848	382	109	59	47	42	21	11	6	2
-3.0	1190	828	369	107	58	47	41	21	11	6	2
-5.0	1156	789	342	103	57	47	41	21	11	6	2
-7.0	1102	729	302	97	56	46	41	21	11	6	2
-9.0	1029	651	256	90	55	46	41	21	11	6	2
-11.0	930	559	207	83	54	46	40	20	11	6	2
-13.0	808	455	165	76	52	45	39	20	10	6	2
-15.0	668	349	130	69	51	45	38	19	10	6	2
-17.0	517	250	105	63	50	44	37	19	10	6	2
-19.5	337	157	85	58	48	43	35	18	10	6	2
-22.5	173	100	67	53	47	42	32	17	10	6	2
-25.5	100	73	57	50	45	40	28	17	9	6	2
-29.0	67	57	51	47	43	37	24	16	9	5	2
-33.0	53	50	47	44	40	31	21	14	9	5	2
-37.5	47	45	43	40	33	23	18	13	8	5	2
-42.5	42	40	37	31	23	18	15	11	8	4	2
-47.5	32	28	24	21	18	15	13	10	7	4	1
-55.0	17	17	16	14	13	11	10	8	6	3	1
-65.0	10	9	9	9	8	8	7	6	4	3	1
-75.0	6	6	5	5	5	4	4	3	3	2	0
-85.0	2	2	2	2	2	2	1	1	1	0	0



Isocandela Diagram (Percent of Maximum Intensity)

