



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

## Floodlight Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

**Prepared For**  
**B-K Lighting INC**

Daniel Carrejo  
40429 Brickyard Dr.  
Madera, CA 93636  
United States

**Catalog Number**

**DI-LED-TR-e153-7°-VNSP-WHP-C-INC-MT #13 40x1 film**

Order Number  
14327079  
Test Number  
14327079.18

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

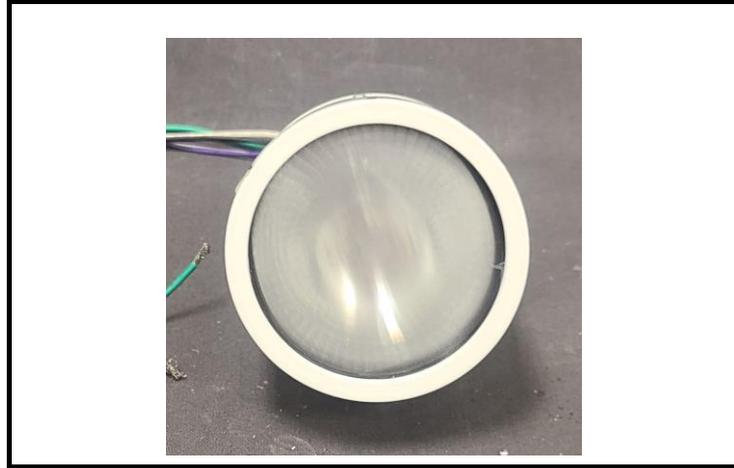
Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Circular white metal housing with glass lens  
**Lamp:** One (1) LED  
**Mounting:** Pendant  
**Ballast/Driver:** Integrated

### Luminaire



**Luminaire Characteristics**  
Luminous Diameter: 2.50 in.

### Summary of Results

Total Luminaire Output:	421.9 Lumens
Luminaire Efficacy:	45.2 lm/w
Maximum Candela:	2695 Candela

### Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.07981 A
Power:	9.324 W
Power Factor:	0.973
Frequency:	60 Hz
Current THD:	19.4 %

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

## Distribution - Goniophotometer

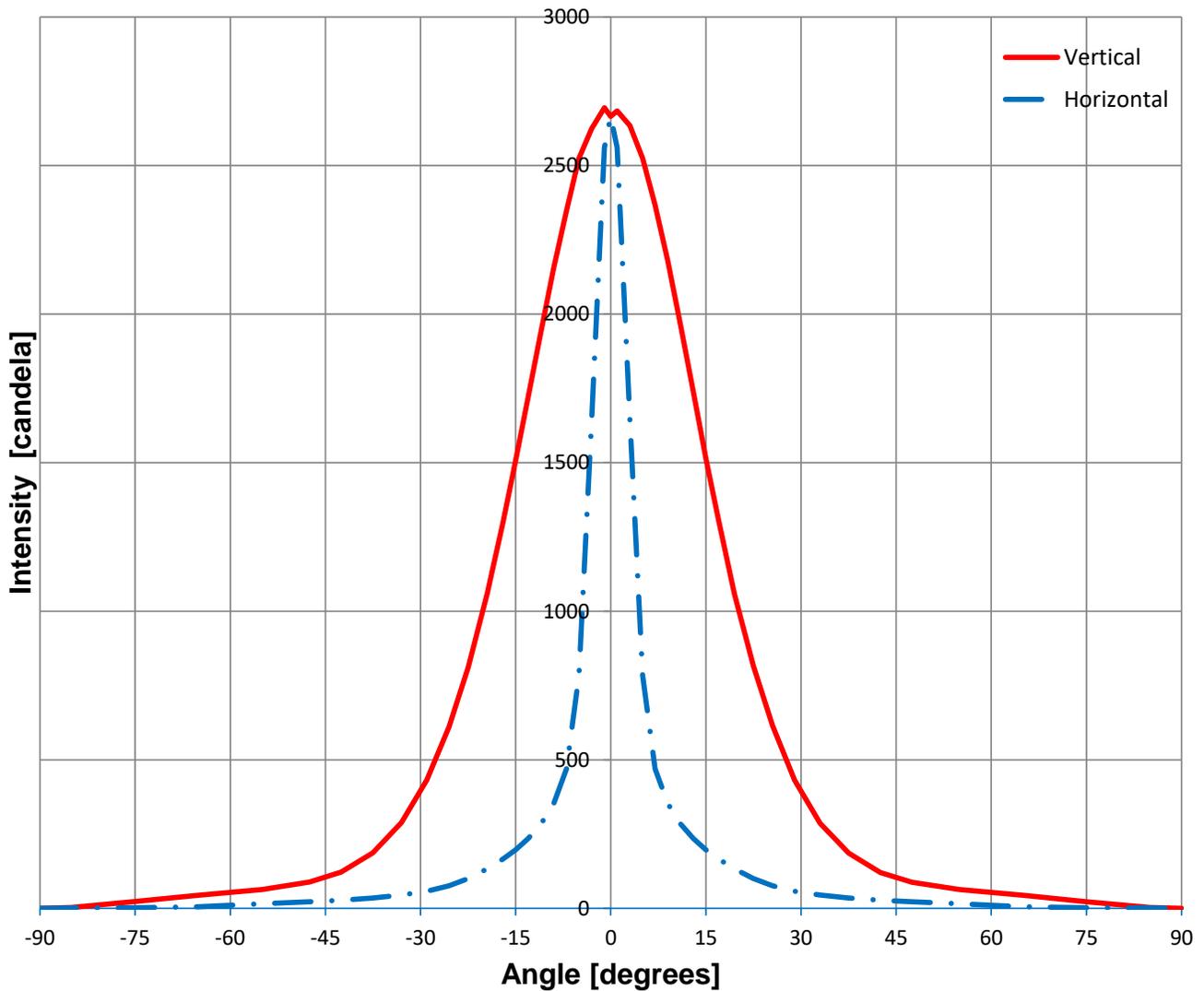
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.07981 A	9.324 W	0.973	60 Hz	19.4 %

### Summary of Results

<b>Total Lumen Output:</b>	421.9 Lumens	<b>Maximum Candela:</b>	2694.7 Candela
<b>Luminaire Efficacy:</b>	45.2 Lumens/Watt	<b>Maximum Angle:</b>	0 H      -1 V
<b>Field Lumens:</b>	244.7 Lumens	<b>Field Angle :</b>	23.1 H   X   67.6 V
<b>Beam Lumens:</b>	111.2 Lumens	<b>Beam Angle :</b>	7.2 H    X   33.1 V
<b>Spill Light Lumens:</b>	177.2 Lumens	<b>IESNA Type:</b>	2 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	3	2	2	2	1	1	1	1	1	1	1
75.0	22	20	17	14	11	9	8	7	6	6	5
65.0	44	41	35	29	23	18	16	14	13	11	10
55.0	64	59	51	42	34	28	24	22	20	18	16
47.5	87	81	69	57	44	38	33	30	27	25	23
42.5	120	111	93	73	55	48	42	39	35	32	29
37.5	186	170	137	101	75	63	56	51	46	42	37
33.0	287	261	206	138	103	84	74	66	59	53	47
29.0	431	392	300	185	133	109	94	83	74	65	57
25.5	614	559	415	256	167	135	116	101	89	78	66
22.5	816	746	544	325	209	164	137	118	103	90	75
19.5	1059	977	706	391	247	194	161	138	119	102	85
17.0	1304	1205	871	480	294	223	184	156	133	113	93
15.0	1513	1406	1005	543	322	246	202	170	143	122	100
13.0	1740	1618	1147	610	359	269	219	183	154	132	107
11.0	1963	1824	1297	665	390	290	235	196	166	140	113
9.0	2179	2018	1446	730	421	311	249	209	175	147	119
7.0	2367	2213	1575	790	440	329	264	219	183	154	124
5.0	2524	2379	1675	800	465	342	274	226	190	159	127
3.0	2635	2513	1717	831	477	351	281	232	194	163	131
1.0	2684	2579	1714	802	473	354	284	235	197	165	133
0.0	2666	2561	1645	784	470	353	284	235	197	166	133
-1.0	2695	2444	1580	779	469	352	283	234	196	165	133
-3.0	2624	2351	1483	742	456	347	281	233	196	165	132
-5.0	2524	2254	1400	698	440	338	273	227	191	161	129
-7.0	2347	2109	1311	663	422	324	264	220	185	156	126
-9.0	2156	1942	1222	627	400	308	252	210	179	151	121
-11.0	1941	1765	1124	578	374	289	238	199	169	144	116
-13.0	1723	1566	1014	538	348	268	222	188	159	135	110
-15.0	1507	1367	905	493	315	248	205	174	149	127	104
-17.0	1297	1174	790	446	289	227	188	160	138	118	97
-19.5	1058	956	656	377	248	199	167	143	124	107	89
-22.5	811	733	521	318	214	169	143	124	107	94	79
-25.5	610	552	406	256	175	140	121	106	93	82	70
-29.0	432	391	298	191	140	115	99	88	78	69	60
-33.0	289	263	207	143	109	89	78	70	63	56	49
-37.5	186	171	140	105	80	67	60	54	49	45	39
-42.5	122	113	95	76	58	51	45	41	37	34	31
-47.5	88	82	70	58	46	39	35	32	29	27	24
-55.0	64	59	51	43	35	29	25	23	21	19	17
-65.0	44	41	35	30	24	19	17	15	13	12	11
-75.0	23	21	18	15	13	10	9	8	7	6	5
-85.0	3	3	2	2	2	2	2	2	1	1	1

Vertical Angle (Degrees)

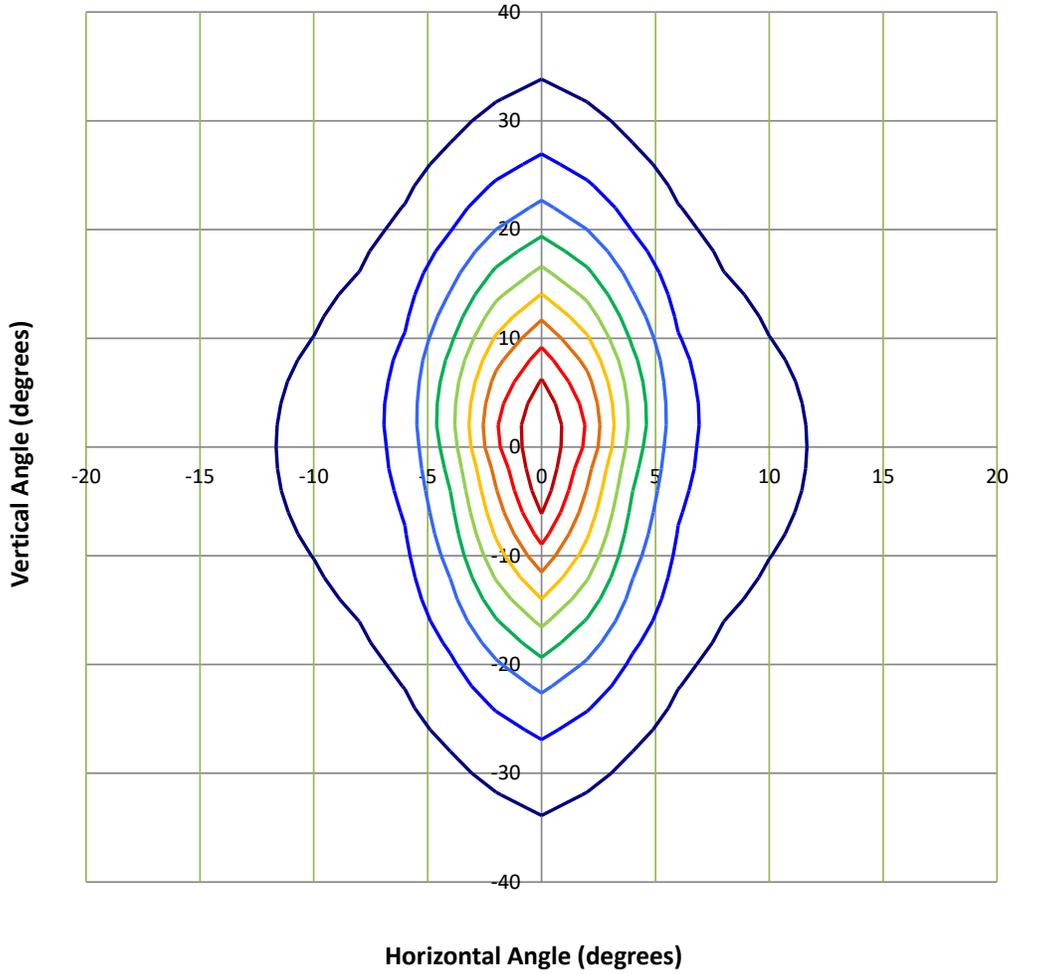


**Candela Tabulation**  
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	1	1	1	1	1	1	1	1	0	0	0
75.0	4	4	3	3	2	2	2	1	1	1	0
65.0	9	8	7	6	5	4	3	2	2	1	1
55.0	14	13	11	9	8	7	5	4	2	1	1
47.5	20	18	15	13	11	9	7	5	3	2	1
42.5	25	22	19	16	14	11	9	6	3	2	1
37.5	32	28	24	20	17	14	11	7	3	2	1
33.0	40	34	29	24	20	16	13	9	4	2	1
29.0	47	40	33	28	23	18	15	10	4	2	1
25.5	55	45	37	31	25	20	16	11	4	2	1
22.5	61	50	41	33	27	21	17	12	4	2	1
19.5	68	55	44	36	29	23	18	12	5	2	1
17.0	74	59	46	37	30	24	19	13	5	2	1
15.0	79	62	48	39	31	25	20	14	5	2	1
13.0	83	65	50	40	32	25	20	14	5	2	1
11.0	87	68	52	41	33	26	21	14	5	2	1
9.0	91	70	54	42	33	26	21	15	5	2	1
7.0	94	72	55	43	34	26	22	15	5	2	1
5.0	97	73	56	44	34	27	22	15	5	2	1
3.0	99	75	57	44	34	27	22	16	5	2	1
1.0	100	76	57	44	35	27	22	16	5	2	1
0.0	100	76	57	45	35	27	22	16	5	2	1
-1.0	100	76	57	45	35	27	22	16	5	2	1
-3.0	99	75	57	44	35	27	22	16	5	2	1
-5.0	98	75	57	44	34	27	22	15	5	2	1
-7.0	96	73	56	44	34	27	22	15	5	2	1
-9.0	93	71	55	43	34	26	22	15	5	2	1
-11.0	89	69	53	42	33	26	21	15	5	2	1
-13.0	85	66	52	41	32	26	21	14	5	2	1
-15.0	81	64	50	40	32	25	20	14	5	2	1
-17.0	76	61	48	39	31	24	20	13	5	2	1
-19.5	71	57	46	37	30	23	19	13	5	2	1
-22.5	64	52	42	35	28	22	18	12	5	2	1
-25.5	57	47	39	32	26	21	17	11	4	2	1
-29.0	50	42	35	29	24	19	15	10	4	2	1
-33.0	42	36	30	25	21	17	13	9	4	2	1
-37.5	34	30	25	21	18	14	12	8	4	2	1
-42.5	27	23	20	17	14	12	10	6	3	2	1
-47.5	21	19	16	14	12	10	8	5	3	1	1
-55.0	15	13	12	10	8	7	6	4	2	1	1
-65.0	9	8	7	6	5	4	4	3	2	1	1
-75.0	5	4	4	3	3	2	2	2	1	1	0
-85.0	1	1	1	1	1	1	1	1	1	0	0

Vertical Angle (Degrees)

### Isocandela Diagram (Percent of Maximum Intensity)



- |                 |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| — 2425 cd (90%) | — 2155 cd (80%) | — 1886 cd (70%) | — 1616 cd (60%) | — 1347 cd (50%) |
| — 1077 cd (40%) | — 808 cd (30%)  | — 538 cd (20%)  | — 269 cd (10%)  |                 |