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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

40429 Brickyard Dr  
Madera CA, 93636

### Catalog Number

**RI-LZR-TR-Z1-40X1-WHP-9-C-INC-MT (6000K)**

### Order Number

14832329

### Test Number

14832329.04

### Test Date

2023-06-05

### Prepared By

Derek Smarr, Senior Technician

### Approved By

Yilmaz Yucelidag, Engineering Project Handler

The results contained in this report pertain only to the tested sample.

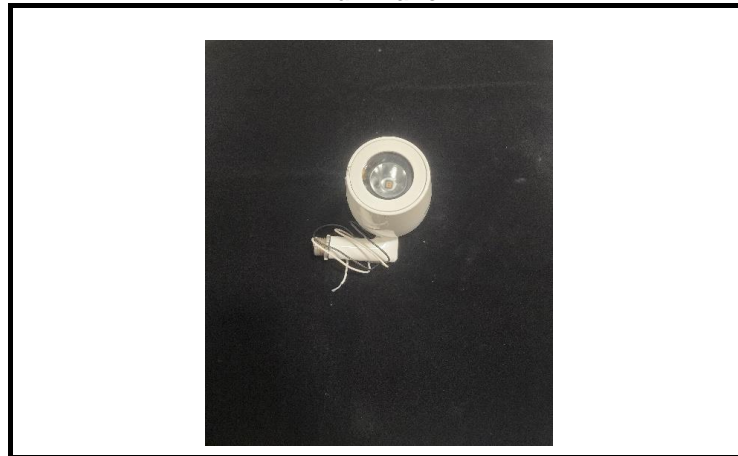
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**Luminaire Description:** White metal housing with clear lens enclosure.  
**Lamp:** One white LED array  
**Mounting:** Pole/Arm  
**Ballast/Driver:** PS60U1500C15R

**Luminaire**



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

**Summary of Results**

Total Luminaire Output:	278.1 Lumens
Luminaire Efficacy:	19.1 lm/w
Maximum Candela:	1960 Candela

**Test Conditions**

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.1238 A
Power:	14.56 W
Power Factor:	0.980
Frequency:	60 Hz
Current THD:	15.8 %

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

## Distribution - Goniophotometer

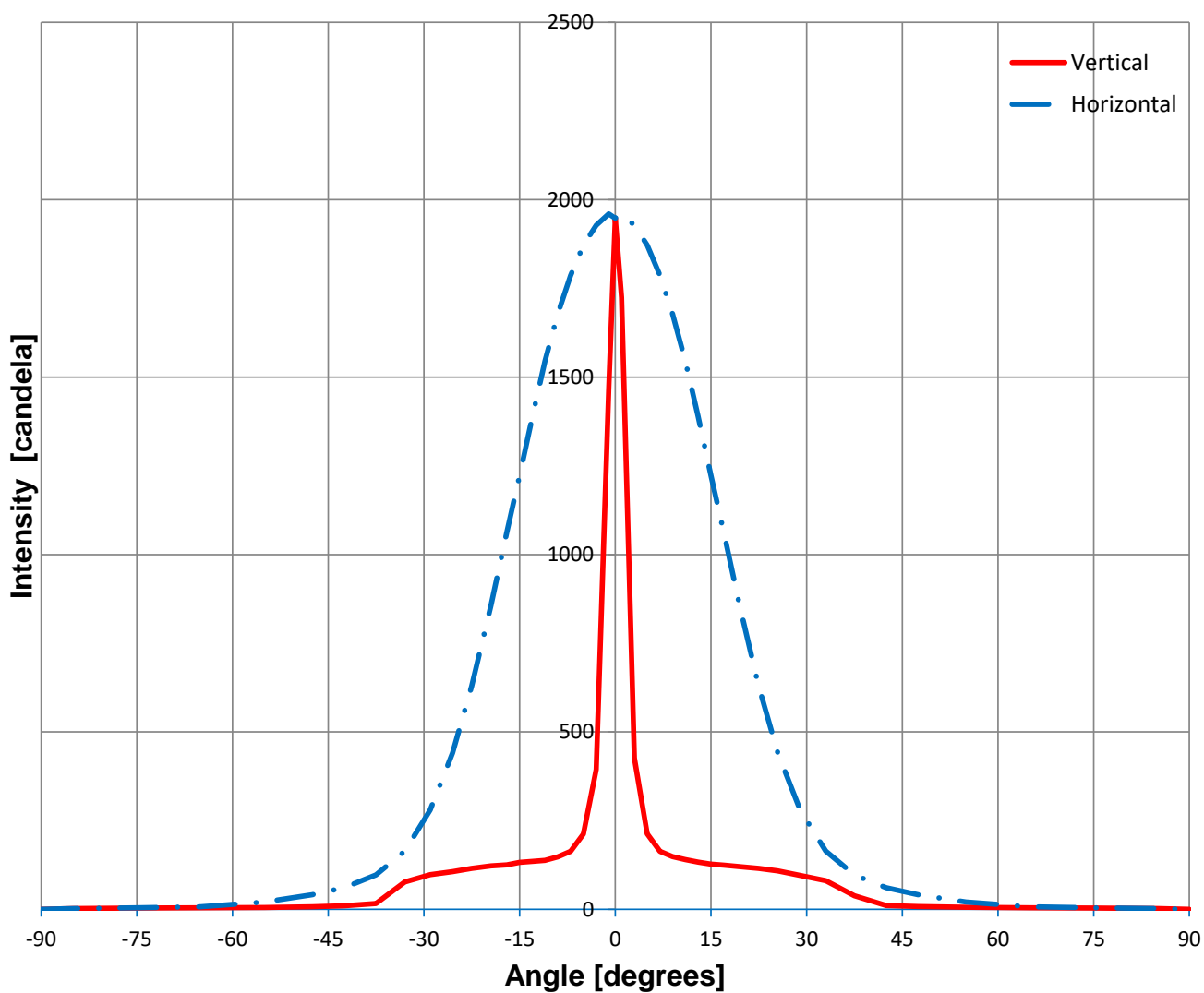
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1238 A	14.56 W	0.980	60 Hz	15.8 %

### Summary of Results

<b>Total Lumen Output:</b>	278.1 Lumens	<b>Maximum Candela:</b>	1960.2 Candela
<b>Luminaire Efficacy:</b>	19.1 Lumens/Watt	<b>Maximum Angle:</b>	-1 H 0 V
<b>Field Lumens:</b>	104.8 Lumens	<b>Field Angle :</b>	63.8 H X 11.4 V
<b>Beam Lumens:</b>	55.3 Lumens	<b>Beam Angle :</b>	36.0 H X 4.1 V
<b>Spill Light Lumens:</b>	173.4 Lumens	<b>IESNA Type:</b>	4 H X 1 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	4	4	4	4	4	4	4	4	4	4	4
65.0	4	4	4	4	4	4	4	4	4	4	4
55.0	5	5	5	5	5	5	5	5	5	5	5
47.5	8	8	8	8	8	8	8	8	8	8	8
42.5	11	11	11	11	11	11	11	11	11	10	11
37.5	38	40	44	44	44	44	44	43	42	41	39
33.0	81	82	83	82	81	80	78	75	71	68	64
29.0	96	97	99	98	96	94	92	89	86	83	79
25.5	108	109	110	109	108	106	104	101	98	95	90
22.5	115	116	117	116	115	113	111	109	106	103	98
19.5	120	122	122	121	120	119	117	115	112	109	105
17.0	125	126	126	126	125	123	121	119	116	113	109
15.0	127	129	130	129	128	127	126	124	121	118	113
13.0	133	135	135	135	133	132	130	128	126	123	118
11.0	140	141	141	140	139	137	136	133	131	127	122
9.0	148	151	150	149	147	145	143	139	137	133	128
7.0	164	168	168	166	163	161	157	154	150	145	139
5.0	213	222	217	210	210	205	200	194	191	180	179
3.0	426	510	434	417	417	420	394	427	408	371	368
1.0	1724	1631	1596	1547	1479	1397	1318	1173	1021	886	724
0.0	1948	1960	1928	1872	1786	1678	1545	1389	1222	1062	857
-1.0	1468	1524	1551	1501	1432	1349	1261	1118	972	843	686
-3.0	394	374	407	415	422	425	398	414	385	349	340
-5.0	212	207	211	211	210	207	202	195	192	181	176
-7.0	164	162	163	163	161	160	157	154	149	145	139
-9.0	148	146	146	146	144	142	139	137	134	130	125
-11.0	138	137	137	137	135	133	131	130	126	123	118
-13.0	135	135	134	133	132	130	128	125	122	119	114
-15.0	132	131	130	129	128	126	124	122	119	116	111
-17.0	125	125	124	124	123	121	120	117	114	111	107
-19.5	122	121	120	120	118	117	115	111	108	106	102
-22.5	115	114	113	112	110	109	107	104	101	98	94
-25.5	106	105	104	103	101	99	97	94	91	88	84
-29.0	98	97	95	93	92	89	86	83	80	76	71
-33.0	77	76	74	73	72	70	68	66	63	60	56
-37.5	16	16	15	16	16	17	19	20	22	23	24
42.5	10	10	10	10	10	10	10	10	9	9	9
-47.5	7	7	7	7	7	7	7	7	7	7	7
-55.0	5	5	5	5	5	5	5	5	5	5	5
-65.0	4	4	4	4	4	4	4	4	4	4	4
-75.0	4	4	4	4	4	4	4	4	4	3	3
-85.0	2	2	2	2	2	2	2	2	2	2	2

### Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	Lateral 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	2	1	1	0	0
75.0	4	4	4	3	3	3	3	3	3	2	0
65.0	4	4	4	4	4	4	4	4	3	3	1
55.0	5	5	5	5	5	5	5	4	4	3	1
47.5	8	8	7	7	7	6	6	5	4	3	1
42.5	12	12	12	12	11	10	8	6	4	3	2
37.5	37	33	30	25	20	16	11	7	5	3	2
33.0	59	53	46	39	31	23	16	9	5	4	2
29.0	73	67	60	51	40	29	20	10	5	4	2
25.5	85	78	70	59	47	34	23	12	5	4	2
22.5	92	85	77	66	52	39	26	13	6	4	2
19.5	99	92	82	71	57	42	29	14	6	4	2
17.0	103	96	87	75	61	45	31	15	6	4	2
15.0	108	100	90	77	63	47	32	16	6	4	2
13.0	111	103	92	79	65	48	34	17	6	4	2
11.0	115	107	95	81	66	50	35	18	7	4	2
9.0	119	111	98	84	68	52	36	19	7	4	2
7.0	130	119	105	88	72	54	38	19	7	4	2
5.0	163	141	132	109	80	56	39	20	7	4	2
3.0	331	275	204	135	88	58	40	20	7	4	2
1.0	543	391	256	155	94	60	41	20	7	4	2
0.0	629	441	280	164	97	61	41	20	7	4	2
-1.0	515	374	247	151	93	60	40	20	7	4	2
-3.0	296	243	181	125	85	58	39	20	7	4	2
-5.0	160	138	127	103	78	55	38	19	7	4	2
-7.0	129	118	105	87	71	53	37	19	7	4	2
-9.0	117	109	97	83	68	51	36	18	7	4	2
-11.0	111	103	93	80	65	49	34	17	6	4	2
-13.0	107	99	89	77	63	47	33	16	6	4	2
-15.0	104	97	86	75	60	45	31	15	6	4	2
-17.0	101	94	84	72	58	43	29	14	6	4	2
-19.5	95	89	80	69	55	41	27	13	6	4	2
-22.5	87	81	73	62	49	36	25	12	5	4	2
-25.5	78	72	63	54	43	31	21	10	5	4	2
-29.0	66	59	52	43	34	24	17	9	5	4	2
-33.0	50	45	38	31	24	18	12	8	5	3	2
-37.5	24	23	21	18	15	12	9	6	4	3	2
-42.5	9	9	9	9	8	7	7	5	4	3	1
-47.5	7	7	7	6	6	6	5	5	4	3	1
-55.0	5	5	5	5	5	5	4	4	4	3	1
-65.0	4	4	4	4	4	4	4	3	3	2	1
-75.0	3	3	3	3	3	3	3	3	2	2	0
-85.0	2	2	2	2	1	1	1	1	1	0	0

### Isocandela Diagram (Percent of Maximum Intensity)

