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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

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United States

Catalog Number

RI-LED-TR-E133-VNSP-WHP-13-C-INC-MT-PROTO(4000K)

Order Number
13843341
Test Number
13843341.02

Test Date

2021-07-02

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: White cylindrical metal housing with clear glass lens
Lamp: One (1) White LEDs with optic below
Mounting: Pendant
Ballast/Driver: PS60U1000C14R

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	732.5 Lumens
Luminaire Efficacy:	50.2 lm/w
Maximum Candela:	5884 Candela

Test Conditions

Test Temperature:	24.1 °C
Voltage:	120.1 VAC
Current:	0.1236 A
Power:	14.58 W
Power Factor:	0.982
Frequency:	60 Hz
Current THD:	14.0 %

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



Distribution - Goniophotometer

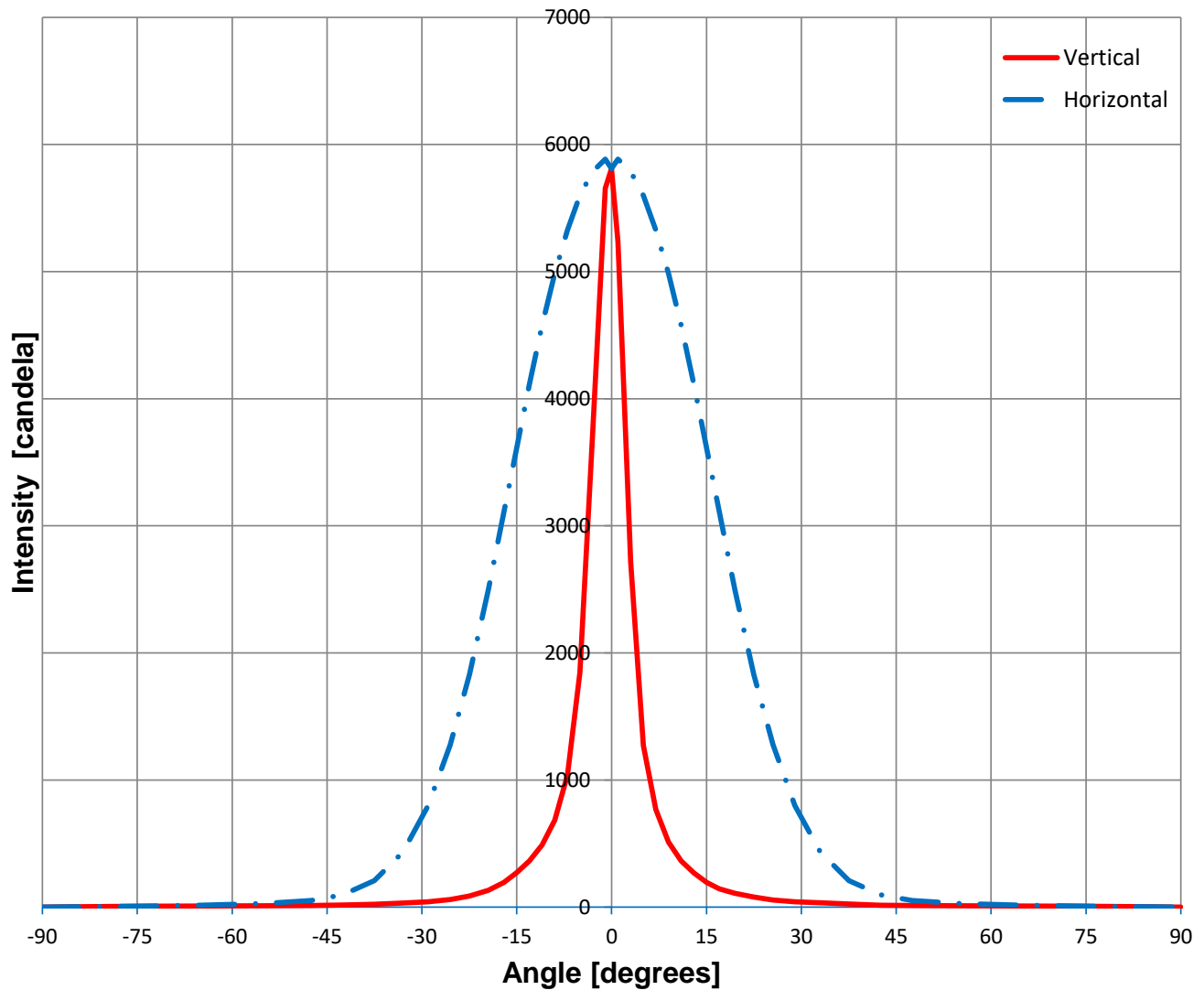
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1 °C	120.1 VAC	0.1236 A	14.58 W	0.982	60 Hz	14.0 %

Summary of Results

Total Lumen Output:	732.5 Lumens	Maximum Candela:	5884.4 Candela
Luminaire Efficacy:	50.2 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	516.7 Lumens	Field Angle :	62.6 H X 18.4 V
Beam Lumens:	236.4 Lumens	Beam Angle :	35.4 H X 6.8 V
Spill Light Lumens:	215.8 Lumens	IESNA Type:	4 H X 2 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	5	5	5	5
65.0	8	8	8	8	8	8	8	8	8	8	8
55.0	11	11	11	11	11	11	10	10	10	10	10
47.5	13	13	13	12	12	12	12	12	12	12	12
42.5	15	15	15	15	15	15	15	15	15	15	14
37.5	24	23	22	22	22	22	22	22	22	21	21
33.0	34	34	33	33	33	32	31	30	30	29	27
29.0	41	41	40	39	39	39	38	37	37	36	35
25.5	56	54	52	52	51	50	50	50	49	47	46
22.5	78	76	73	73	72	71	70	69	66	64	62
19.5	108	106	104	103	101	99	97	94	91	88	83
17.0	144	141	139	139	136	134	131	127	123	118	110
15.0	195	188	188	187	184	183	176	171	164	156	144
13.0	269	257	259	256	255	246	239	231	219	205	190
11.0	364	344	350	345	341	333	322	308	290	275	252
9.0	511	482	487	490	480	468	451	428	406	382	344
7.0	769	720	733	730	726	706	682	651	606	566	511
5.0	1271	1195	1229	1239	1218	1209	1151	1097	1062	976	886
3.0	2715	2533	2739	2738	2669	2581	2437	2299	2111	1880	1596
1.0	5235	5203	5279	5142	4884	4563	4212	3768	3292	2834	2284
0.0	5809	5884	5787	5599	5327	4985	4576	4113	3612	3113	2496
-1.0	5655	5592	5509	5324	5059	4740	4381	3925	3431	2938	2349
-3.0	3719	3991	3682	3512	3387	3193	2960	2714	2443	2145	1778
-5.0	1846	2056	1938	1826	1785	1697	1616	1517	1416	1280	1106
-7.0	1038	1136	1107	1065	1002	982	929	881	821	762	675
-9.0	684	732	718	692	672	638	614	582	536	505	453
-11.0	489	518	507	496	480	460	439	415	392	363	328
-13.0	364	382	378	370	359	347	329	312	294	276	249
-15.0	272	284	283	278	270	260	250	237	223	210	192
-17.0	195	205	205	203	199	192	186	177	168	159	147
-19.5	132	138	139	136	135	131	127	123	119	113	105
-22.5	87	90	92	90	90	88	86	83	81	78	74
-25.5	59	61	63	62	61	61	59	59	57	56	53
-29.0	41	42	43	43	42	42	42	41	40	39	38
-33.0	33	33	33	33	33	32	32	31	30	30	29
-37.5	23	23	24	24	24	23	23	23	22	22	21
-42.5	16	16	16	16	16	16	16	16	16	15	15
-47.5	13	13	13	13	13	13	13	13	13	13	13
-55.0	11	11	11	11	11	11	11	11	11	11	11
-65.0	8	8	8	8	8	8	8	8	8	8	8
-75.0	6	6	6	6	6	6	6	6	6	6	6
-85.0	3	3	3	3	3	3	3	3	3	3	3



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	1	1	1	1	1	1	0	0	0
75.0	5	5	5	5	5	5	4	4	3	2	0
65.0	8	7	7	7	6	6	6	5	5	3	1
55.0	10	9	9	9	8	8	8	7	6	4	1
47.5	12	12	11	11	11	10	9	8	7	5	1
42.5	14	14	14	13	13	12	11	10	7	5	2
37.5	20	19	18	17	15	14	13	11	8	5	2
33.0	26	24	23	21	19	17	15	12	9	6	2
29.0	33	31	29	26	23	20	17	13	10	6	2
25.5	44	41	38	33	28	24	19	15	10	6	2
22.5	58	53	47	41	34	27	22	16	11	7	2
19.5	76	69	61	52	41	31	24	17	12	7	2
17.0	100	91	78	64	49	36	27	19	12	7	2
15.0	129	114	96	76	57	41	30	20	13	7	3
13.0	167	144	120	92	67	46	33	21	13	7	3
11.0	217	187	151	114	81	53	36	23	14	7	3
9.0	295	253	197	150	100	62	40	24	14	7	3
7.0	440	367	296	202	126	73	44	25	14	7	3
5.0	758	600	442	287	163	84	47	26	15	7	3
3.0	1264	953	644	376	190	90	49	27	15	8	3
1.0	1689	1192	753	416	203	95	51	27	15	8	3
0.0	1828	1277	798	434	208	96	52	28	15	8	3
-1.0	1718	1203	754	413	201	94	51	27	15	8	3
-3.0	1362	994	650	368	183	89	49	27	15	8	3
-5.0	901	685	474	293	159	82	48	26	15	7	3
-7.0	566	452	340	221	131	74	45	26	14	7	3
-9.0	382	320	242	172	109	65	41	24	14	7	3
-11.0	281	238	187	136	91	57	38	23	14	7	3
-13.0	216	183	148	110	76	50	35	22	13	7	3
-15.0	168	145	118	90	65	44	32	21	13	7	3
-17.0	131	115	95	75	56	40	29	19	12	7	2
-19.5	96	86	73	60	46	34	26	18	12	7	2
-22.5	68	63	55	46	38	29	23	16	11	7	2
-25.5	50	47	42	37	31	25	20	15	10	6	2
-29.0	36	34	32	29	25	21	18	14	10	6	2
-33.0	27	26	24	22	20	18	16	13	9	6	2
-37.5	21	20	19	17	16	15	13	11	8	6	2
-42.5	15	15	14	14	13	12	11	10	8	5	2
-47.5	13	12	12	12	11	11	10	9	7	5	1
-55.0	10	10	10	9	9	9	8	7	6	4	1
-65.0	8	8	8	7	7	6	6	6	5	3	1
-75.0	5	5	5	5	5	5	5	4	3	2	0
-85.0	3	3	3	2	2	2	2	1	1	0	0



Isocandela Diagram (Percent of Maximum Intensity)

