



UL LLC
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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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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Madera, CA 93636
United States

Catalog Number
HU-LED-TR-X108-NSP-WHP-13-C-1-INC-120-PROTOTYPE(4000K)

Order Number
13318635
Test Number
13318635.08

Test Date

2020-09-01

Prepared By

William Escobar, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal cylindrical housing and clear glass lens
Lamp: One (1) White LED with optic below
Mounting: Pendant
Ballast/Driver: One (1) ERP ESST040W-0900-42

Luminaire



Luminaire Characteristics

Luminous Diameter: 3.50 in.

Summary of Results

Total Luminaire Output:	1386 Lumens
Luminaire Efficacy:	39.3 lm/w
Maximum Candela:	3705 Candela

Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.2978 A
Power:	35.25 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	12.0 %

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



Distribution - Goniophotometer

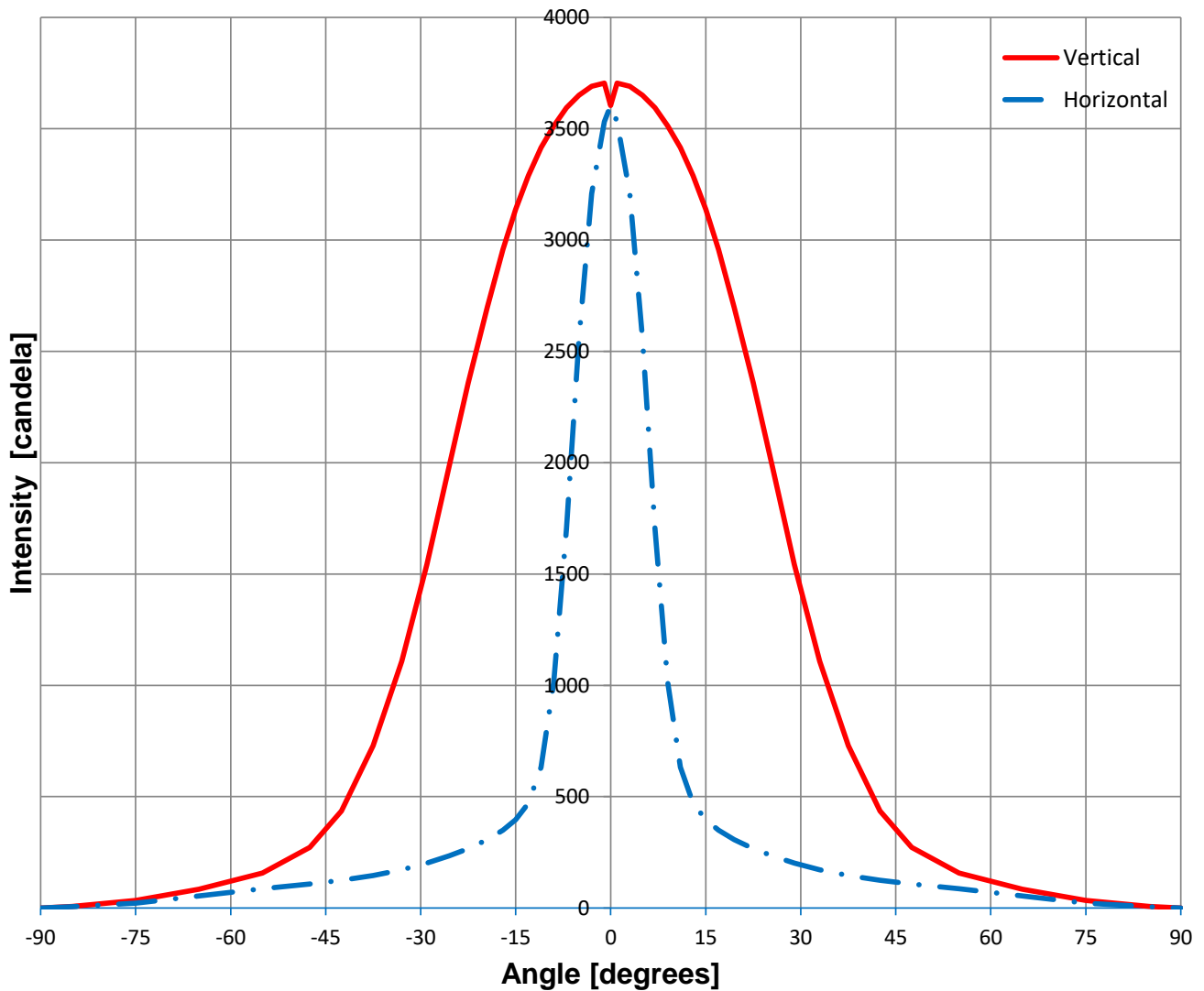
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.2978 A	35.25 W	0.986	60 Hz	12.0 %

Summary of Results

Total Lumen Output:	1385.6 Lumens	Maximum Candela:	3704.8 Candela
Luminaire Efficacy:	39.3 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	881.3 Lumens	Field Angle :	32.3 H X 89.0 V
Beam Lumens:	482.9 Lumens	Beam Angle :	13.3 H X 53.1 V
Spill Light Lumens:	504.2 Lumens	IESNA Type:	3 H X 5 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	7	7	7	7	7	7	7	7	7	7	7
75.0	34	34	33	33	32	30	29	28	27	27	26
65.0	84	83	81	79	76	73	69	66	64	61	59
55.0	157	155	152	146	138	130	122	115	109	104	98
47.5	273	269	260	241	217	196	175	162	150	142	132
42.5	436	426	406	359	308	262	225	200	183	170	157
37.5	728	707	661	557	452	350	287	242	218	200	183
33.0	1108	1078	998	827	634	462	342	287	251	228	206
29.0	1543	1506	1380	1136	827	574	407	320	281	253	226
25.5	1983	1933	1751	1423	1018	656	451	356	305	272	243
22.5	2360	2300	2077	1671	1179	753	495	379	322	289	256
19.5	2697	2637	2390	1916	1322	807	519	400	342	304	268
17.0	2958	2893	2624	2087	1430	869	553	420	355	314	277
15.0	3138	3066	2768	2205	1500	903	571	431	364	322	284
13.0	3288	3211	2900	2308	1561	919	582	440	372	329	290
11.0	3416	3326	3012	2388	1610	952	595	449	379	335	295
9.0	3512	3418	3087	2453	1649	970	610	458	386	340	299
7.0	3594	3486	3148	2491	1670	998	620	465	390	344	302
5.0	3650	3537	3190	2524	1696	1008	625	469	394	348	305
3.0	3691	3563	3206	2542	1705	1026	641	473	397	349	307
1.0	3705	3554	3201	2548	1709	1023	636	472	397	350	307
0.0	3604	3532	3209	2555	1705	1015	632	471	397	350	307
-1.0	3705	3554	3201	2548	1709	1023	636	472	397	350	307
-3.0	3691	3563	3206	2542	1705	1026	641	473	397	349	307
-5.0	3650	3537	3190	2524	1696	1008	625	469	394	348	305
-7.0	3594	3486	3148	2491	1670	998	620	465	390	344	302
-9.0	3512	3418	3087	2453	1649	970	610	458	386	340	299
-11.0	3416	3326	3012	2388	1610	952	595	449	379	335	295
-13.0	3288	3211	2900	2308	1561	919	582	440	372	329	290
-15.0	3138	3066	2768	2205	1500	903	571	431	364	322	284
-17.0	2958	2893	2624	2087	1430	869	553	420	355	314	277
-19.5	2697	2637	2390	1916	1322	807	519	400	342	304	268
-22.5	2360	2300	2077	1671	1179	753	495	379	322	289	256
-25.5	1983	1933	1751	1423	1018	656	451	356	305	272	243
-29.0	1543	1506	1380	1136	827	574	407	320	281	253	226
-33.0	1108	1078	998	827	634	462	342	287	251	228	206
-37.5	728	707	661	557	452	350	287	242	218	200	183
-42.5	436	426	406	359	308	262	225	200	183	170	157
-47.5	273	269	260	241	217	196	175	162	150	142	132
-55.0	157	155	152	146	138	130	122	115	109	104	98
-65.0	84	83	81	79	76	73	69	66	64	61	59
-75.0	34	34	33	33	32	30	29	28	27	27	26
-85.0	7	7	7	7	7	7	7	7	7	7	7



Candela Tabulation

Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	7	7	6	6	6	5	5	4	3	2	1
75.0	25	24	22	21	19	17	15	12	8	5	2
65.0	56	53	50	46	42	37	32	24	14	7	3
55.0	93	88	82	75	68	60	52	40	23	10	4
47.5	123	114	105	96	86	76	66	51	30	12	4
42.5	144	132	120	109	97	86	74	58	34	14	5
37.5	166	151	136	121	108	94	82	64	38	15	5
33.0	185	167	149	132	116	101	88	69	42	16	5
29.0	201	180	160	141	123	106	93	73	45	17	6
25.5	215	191	168	147	128	111	96	76	47	18	6
22.5	226	200	175	153	132	114	99	78	49	19	6
19.5	235	208	182	157	135	116	101	80	50	19	6
17.0	242	214	186	161	138	118	103	82	51	20	6
15.0	248	218	190	163	140	120	104	83	52	20	6
13.0	252	222	193	165	141	121	105	84	53	20	6
11.0	256	225	195	167	143	122	106	84	53	21	6
9.0	260	228	197	169	144	123	107	85	54	21	6
7.0	263	230	199	170	144	124	108	85	54	21	6
5.0	265	232	200	171	145	124	108	86	54	21	6
3.0	266	234	201	171	146	124	108	86	54	21	6
1.0	267	234	202	172	146	125	108	86	54	21	6
0.0	267	234	201	172	146	124	108	86	54	21	6
-1.0	267	234	202	172	146	125	108	86	54	21	6
-3.0	266	234	201	171	146	124	108	86	54	21	6
-5.0	265	232	200	171	145	124	108	86	54	21	6
-7.0	263	230	199	170	144	124	108	85	54	21	6
-9.0	260	228	197	169	144	123	107	85	54	21	6
-11.0	256	225	195	167	143	122	106	84	53	21	6
-13.0	252	222	193	165	141	121	105	84	53	20	6
-15.0	248	218	190	163	140	120	104	83	52	20	6
-17.0	242	214	186	161	138	118	103	82	51	20	6
-19.5	235	208	182	157	135	116	101	80	50	19	6
-22.5	226	200	175	153	132	114	99	78	49	19	6
-25.5	215	191	168	147	128	111	96	76	47	18	6
-29.0	201	180	160	141	123	106	93	73	45	17	6
-33.0	185	167	149	132	116	101	88	69	42	16	5
-37.5	166	151	136	121	108	94	82	64	38	15	5
-42.5	144	132	120	109	97	86	74	58	34	14	5
-47.5	123	114	105	96	86	76	66	51	30	12	4
-55.0	93	88	82	75	68	60	52	40	23	10	4
-65.0	56	53	50	46	42	37	32	24	14	7	3
-75.0	25	24	22	21	19	17	15	12	8	5	2
-85.0	7	7	6	6	6	5	5	4	3	2	1

Vertical Angle (Degrees)



Isocandela Diagram (Percent of Maximum Intensity)

