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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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
DE-LED-TR-X125-SP-13(40°x1°)-C-PROTOTYPE(4000K)

Order Number
13583921
Test Number
13583921.05

Test Date

2021-02-05

Prepared By

Austin Duff, 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
Mounting: Pendant
Ballast/Driver: One (1) ERP EBR020U-0700-30

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.50 in.

Summary of Results

Total Luminaire Output:	1368 Lumens
Luminaire Efficacy:	63.2 lm/w
Maximum Candela:	3773 Candela

Test Conditions

Test Temperature:	#NUM! °C
Voltage:	120.0 VAC
Current:	0.1831 A
Power:	21.66 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	15.6 %

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



Distribution - Goniophotometer

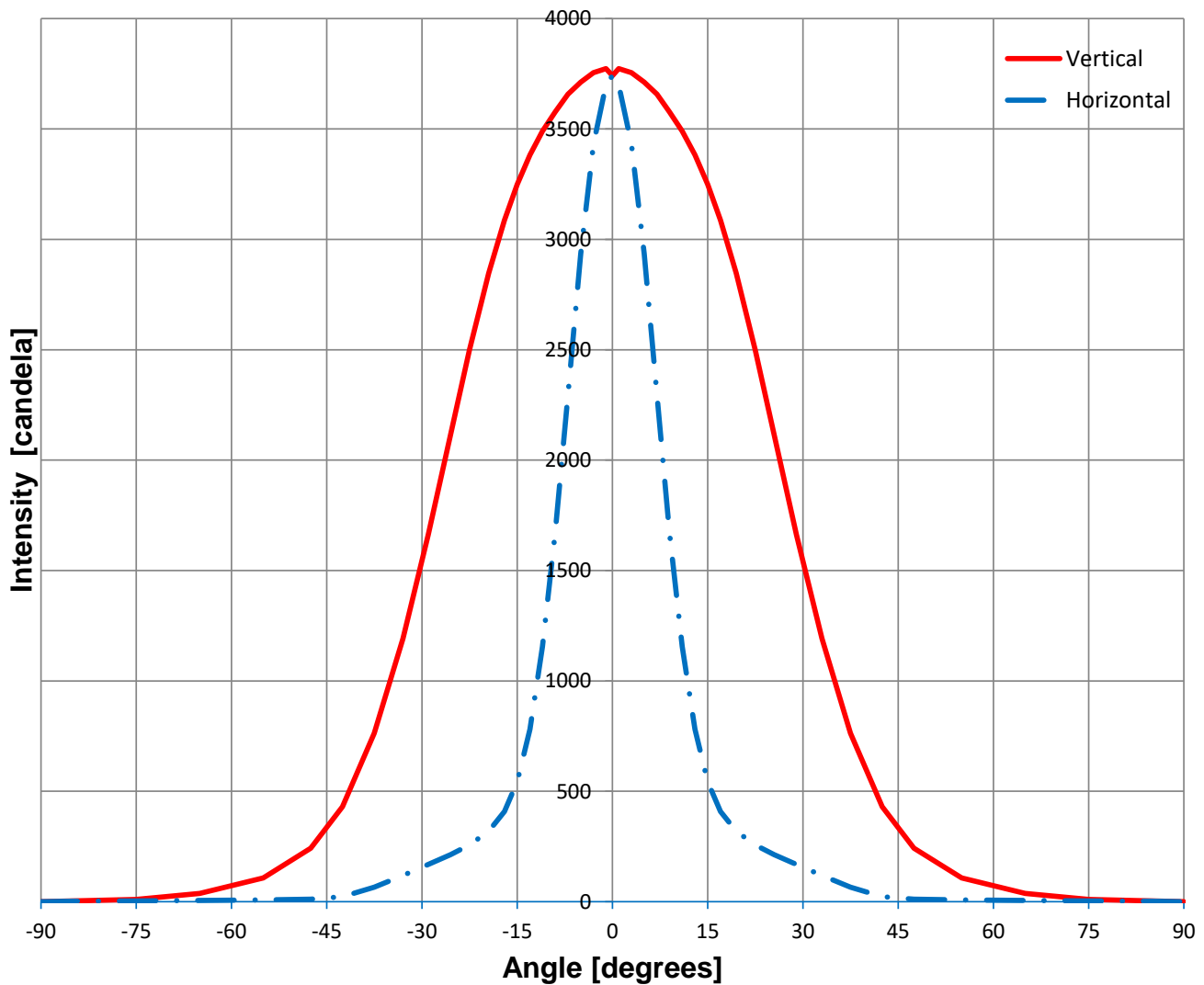
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
#NUM!	120.0 VAC	0.1831 A	21.66 W	0.986	60 Hz	15.6 %

Summary of Results

Total Lumen Output:	1368.4 Lumens	Maximum Candela:	3773.3 Candela
Luminaire Efficacy:	63.2 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	1095.9 Lumens	Field Angle :	35.8 H X 87.8 V
Beam Lumens:	643.8 Lumens	Beam Angle :	16.6 H X 54.5 V
Spill Light Lumens:	272.5 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	3	3	3	3	3	3	3	3	3	3	3
75.0	10	10	10	9	9	8	7	7	6	6	5
65.0	37	37	35	34	31	28	26	23	21	19	16
55.0	107	106	102	97	90	82	74	66	60	54	47
47.5	243	238	228	210	188	165	142	124	109	98	85
42.5	430	421	400	358	311	260	215	179	153	133	116
37.5	762	742	697	610	512	407	321	252	206	175	148
33.0	1192	1161	1083	943	769	596	444	338	261	216	180
29.0	1661	1621	1503	1308	1045	794	580	415	316	255	208
25.5	2114	2063	1909	1651	1315	975	695	496	365	284	231
22.5	2500	2445	2263	1947	1543	1140	803	557	396	312	250
19.5	2847	2789	2587	2226	1755	1281	895	612	439	337	266
17.0	3087	3030	2818	2412	1899	1390	968	663	468	354	278
15.0	3249	3189	2956	2539	1997	1461	1017	692	483	367	288
13.0	3383	3326	3079	2644	2079	1514	1050	713	498	379	296
11.0	3490	3436	3184	2731	2145	1560	1082	732	513	389	303
9.0	3578	3517	3262	2796	2195	1597	1111	750	524	396	309
7.0	3658	3587	3326	2851	2232	1633	1128	766	533	402	313
5.0	3712	3648	3376	2888	2266	1652	1140	771	539	406	316
3.0	3755	3684	3410	2914	2283	1670	1155	782	544	408	319
1.0	3773	3698	3419	2931	2298	1675	1158	783	544	410	320
0.0	3742	3699	3431	2935	2296	1671	1156	781	544	409	320
-1.0	3773	3698	3419	2931	2298	1675	1158	783	544	410	320
-3.0	3755	3684	3410	2914	2283	1670	1155	782	544	408	319
-5.0	3712	3648	3376	2888	2266	1652	1140	771	539	406	316
-7.0	3658	3587	3326	2851	2232	1633	1128	766	533	402	313
-9.0	3578	3517	3262	2796	2195	1597	1111	750	524	396	309
-11.0	3490	3436	3184	2731	2145	1560	1082	732	513	389	303
-13.0	3383	3326	3079	2644	2079	1514	1050	713	498	379	296
-15.0	3249	3189	2956	2539	1997	1461	1017	692	483	367	288
-17.0	3087	3030	2818	2412	1899	1390	968	663	468	354	278
-19.5	2847	2789	2587	2226	1755	1281	895	612	439	337	266
-22.5	2500	2445	2263	1947	1543	1140	803	557	396	312	250
-25.5	2114	2063	1909	1651	1315	975	695	496	365	284	231
-29.0	1661	1621	1503	1308	1045	794	580	415	316	255	208
-33.0	1192	1161	1083	943	769	596	444	338	261	216	180
-37.5	762	742	697	610	512	407	321	252	206	175	148
-42.5	430	421	400	358	311	260	215	179	153	133	116
-47.5	243	238	228	210	188	165	142	124	109	98	85
-55.0	107	106	102	97	90	82	74	66	60	54	47
-65.0	37	37	35	34	31	28	26	23	21	19	16
-75.0	10	10	10	9	9	8	7	7	6	6	5
-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	3	3	2	2	2	2	2	2	1	1	0
75.0	5	5	4	4	4	3	3	3	3	2	1
65.0	14	12	9	7	6	5	4	4	3	3	1
55.0	39	32	24	16	10	7	6	4	4	3	1
47.5	72	59	45	30	16	9	7	5	4	3	2
42.5	98	81	63	41	22	11	8	6	4	3	2
37.5	125	105	81	55	30	12	8	6	4	3	2
33.0	150	126	99	67	37	14	9	6	5	3	2
29.0	172	144	113	78	43	16	10	7	5	3	2
25.5	191	159	126	86	48	17	10	7	5	3	2
22.5	205	171	135	93	52	18	11	7	5	4	2
19.5	217	181	144	100	55	19	11	7	5	4	2
17.0	225	189	150	104	58	20	11	7	5	4	2
15.0	233	194	154	108	59	21	11	7	5	4	2
13.0	238	198	158	110	61	21	11	8	5	4	2
11.0	243	202	161	113	62	22	12	8	5	4	2
9.0	248	206	163	115	63	22	12	8	5	4	2
7.0	252	209	166	116	64	22	12	8	5	4	2
5.0	254	211	167	118	65	23	12	8	5	4	2
3.0	256	213	168	119	66	23	12	8	5	4	2
1.0	258	213	169	119	66	23	12	8	5	4	2
0.0	257	213	169	119	65	23	12	8	5	4	2
-1.0	258	213	169	119	66	23	12	8	5	4	2
-3.0	256	213	168	119	66	23	12	8	5	4	2
-5.0	254	211	167	118	65	23	12	8	5	4	2
-7.0	252	209	166	116	64	22	12	8	5	4	2
-9.0	248	206	163	115	63	22	12	8	5	4	2
-11.0	243	202	161	113	62	22	12	8	5	4	2
-13.0	238	198	158	110	61	21	11	8	5	4	2
-15.0	233	194	154	108	59	21	11	7	5	4	2
-17.0	225	189	150	104	58	20	11	7	5	4	2
-19.5	217	181	144	100	55	19	11	7	5	4	2
-22.5	205	171	135	93	52	18	11	7	5	4	2
-25.5	191	159	126	86	48	17	10	7	5	3	2
-29.0	172	144	113	78	43	16	10	7	5	3	2
-33.0	150	126	99	67	37	14	9	6	5	3	2
-37.5	125	105	81	55	30	12	8	6	4	3	2
-42.5	98	81	63	41	22	11	8	6	4	3	2
-47.5	72	59	45	30	16	9	7	5	4	3	2
-55.0	39	32	24	16	10	7	6	4	4	3	1
-65.0	14	12	9	7	6	5	4	4	3	3	1
-75.0	5	5	4	4	4	3	3	3	3	2	1
-85.0	3	3	2	2	2	2	2	2	1	1	0



Isocandela Diagram (Percent of Maximum Intensity)

