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Floodlight Distribution Test Report

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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For
B-K Lighting Inc
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Madera, CA 93636-9515
United States

Catalog Number
DE-LED-TR-X100-SP-9-4000K
Order Number
12439915
Test Number
12439915.03

Test Date

2018-09-11

Prepared By

William Escobar, Technician

Approved By

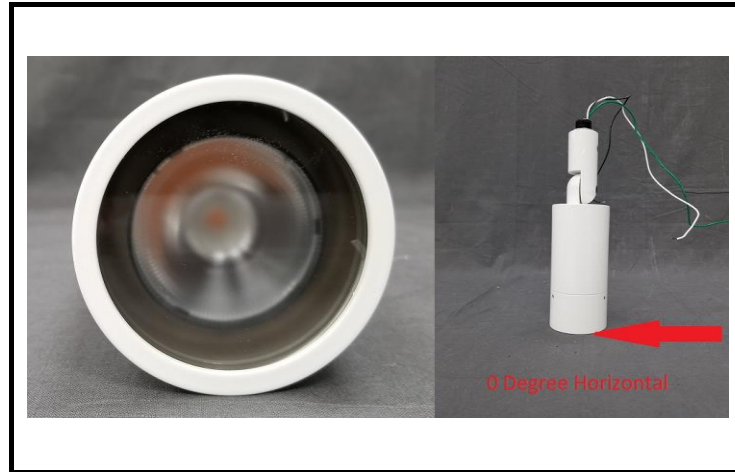
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with plastic prismatic reflector, inner frosted lens, and outer clear glass lens
Lamp: One (1) LED with optics below
Mounting: Pendant
Ballast/Driver: ERP EBR015U-0440-36

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.50 in.

Summary of Results

Total Luminaire Output:	903.0 Lumens
Luminaire Efficacy:	70.4 lm/w
Maximum Candela:	7059 Candela

Test Conditions

Test Temperature:	24.3 °C
Voltage:	120.0 VAC
Current:	0.1085 A
Power:	12.82 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	13.6 %

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



Distribution - Goniophotometer

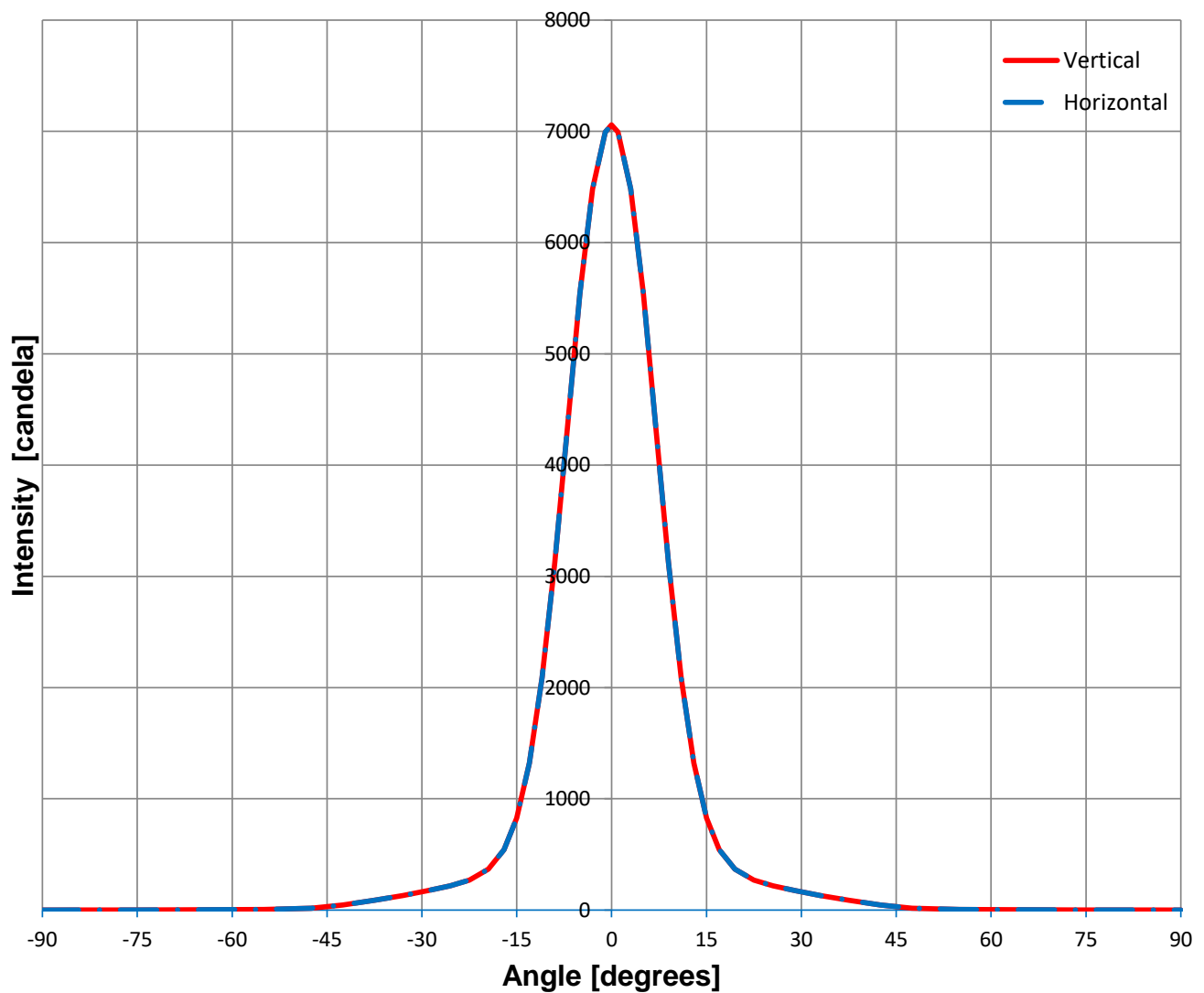
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.0 VAC	0.1085 A	12.82 W	0.985	60 Hz	13.6 %

Summary of Results

Total Lumen Output:	903.0 Lumens	Maximum Candela:	7058.6 Candela
Luminaire Efficacy:	70.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	620.2 Lumens	Field Angle :	31.7 H X 31.7 V
Beam Lumens:	329.2 Lumens	Beam Angle :	16.7 H X 16.7 V
Spill Light Lumens:	282.8 Lumens	IESNA Type:	3 H X 3 V

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	1	1	1	1	1	1	1	1	1	1	1
75.0	2	2	2	2	2	2	2	2	2	2	2
65.0	3	3	3	3	3	3	3	3	3	3	3
55.0	5	5	5	5	5	5	5	5	5	5	5
47.5	16	16	16	15	15	14	13	12	11	10	9
42.5	45	44	44	43	41	39	36	33	30	26	22
37.5	87	87	86	85	82	79	75	71	65	60	52
33.0	131	131	130	127	124	120	114	108	102	95	85
29.0	176	175	174	171	167	161	155	147	138	128	116
25.5	218	218	216	212	207	200	192	182	172	160	145
22.5	270	270	266	259	250	239	227	214	201	188	171
19.5	367	366	357	340	320	298	275	254	234	216	195
17.0	542	539	519	481	432	382	338	301	270	244	216
15.0	826	821	779	696	600	503	421	355	306	270	234
13.0	1321	1311	1228	1067	883	701	546	435	355	301	254
11.0	2089	2070	1923	1647	1317	1004	743	546	421	338	275
9.0	3124	3093	2859	2437	1929	1426	1004	701	503	382	298
7.0	4340	4296	3959	3364	2637	1929	1317	883	600	432	320
5.0	5544	5487	5060	4299	3364	2437	1647	1067	696	481	340
3.0	6484	6416	5936	5060	3959	2859	1923	1228	779	519	357
1.0	6993	6913	6416	5487	4296	3093	2070	1311	821	539	366
0.0	7059	6993	6484	5544	4340	3124	2089	1321	826	542	367
-1.0	6993	6913	6416	5487	4296	3093	2070	1311	821	539	366
-3.0	6484	6416	5936	5060	3959	2859	1923	1228	779	519	357
-5.0	5544	5487	5060	4299	3364	2437	1647	1067	696	481	340
-7.0	4340	4296	3959	3364	2637	1929	1317	883	600	432	320
-9.0	3124	3093	2859	2437	1929	1426	1004	701	503	382	298
-11.0	2089	2070	1923	1647	1317	1004	743	546	421	338	275
-13.0	1321	1311	1228	1067	883	701	546	435	355	301	254
-15.0	826	821	779	696	600	503	421	355	306	270	234
-17.0	542	539	519	481	432	382	338	301	270	244	216
-19.5	367	366	357	340	320	298	275	254	234	216	195
-22.5	270	270	266	259	250	239	227	214	201	188	171
-25.5	218	218	216	212	207	200	192	182	172	160	145
-29.0	176	175	174	171	167	161	155	147	138	128	116
-33.0	131	131	130	127	124	120	114	108	102	95	85
-37.5	87	87	86	85	82	79	75	71	65	60	52
-42.5	45	44	44	43	41	39	36	33	30	26	22
-47.5	16	16	16	15	15	14	13	12	11	10	9
-55.0	5	5	5	5	5	5	5	5	5	5	5
-65.0	3	3	3	3	3	3	3	3	3	3	3
-75.0	2	2	2	2	2	2	2	2	2	2	2
-85.0	1	1	1	1	1	1	1	1	1	1	1

Vertical Angle (Degrees)



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	1	1	1	1	1	1	1	1	1	0	0
75.0	2	2	2	1	1	1	1	1	1	1	0
65.0	3	3	2	2	2	2	2	2	1	1	1
55.0	4	4	4	4	3	3	3	2	2	1	1
47.5	8	7	6	5	5	4	3	3	2	1	1
42.5	17	14	10	8	6	5	4	3	2	1	1
37.5	42	32	22	14	9	6	5	3	2	1	1
33.0	72	58	42	26	14	8	5	4	2	1	1
29.0	100	84	64	42	22	10	6	4	2	2	1
25.5	126	106	84	58	32	14	7	4	3	2	1
22.5	148	126	100	72	42	17	8	4	3	2	1
19.5	171	145	116	85	52	22	9	5	3	2	1
17.0	188	160	128	95	60	26	10	5	3	2	1
15.0	201	172	138	102	65	30	11	5	3	2	1
13.0	214	182	147	108	71	33	12	5	3	2	1
11.0	227	192	155	114	75	36	13	5	3	2	1
9.0	239	200	161	120	79	39	14	5	3	2	1
7.0	250	207	167	124	82	41	15	5	3	2	1
5.0	259	212	171	127	85	43	15	5	3	2	1
3.0	266	216	174	130	86	44	16	5	3	2	1
1.0	270	218	175	131	87	44	16	5	3	2	1
0.0	270	218	176	131	87	45	16	5	3	2	1
-1.0	270	218	175	131	87	44	16	5	3	2	1
-3.0	266	216	174	130	86	44	16	5	3	2	1
-5.0	259	212	171	127	85	43	15	5	3	2	1
-7.0	250	207	167	124	82	41	15	5	3	2	1
-9.0	239	200	161	120	79	39	14	5	3	2	1
-11.0	227	192	155	114	75	36	13	5	3	2	1
-13.0	214	182	147	108	71	33	12	5	3	2	1
-15.0	201	172	138	102	65	30	11	5	3	2	1
-17.0	188	160	128	95	60	26	10	5	3	2	1
-19.5	171	145	116	85	52	22	9	5	3	2	1
-22.5	148	126	100	72	42	17	8	4	3	2	1
-25.5	126	106	84	58	32	14	7	4	3	2	1
-29.0	100	84	64	42	22	10	6	4	2	2	1
-33.0	72	58	42	26	14	8	5	4	2	1	1
-37.5	42	32	22	14	9	6	5	3	2	1	1
42.5	17	14	10	8	6	5	4	3	2	1	1
-47.5	8	7	6	5	5	4	3	3	2	1	1
-55.0	4	4	4	4	3	3	3	2	2	1	1
-65.0	3	3	2	2	2	2	2	2	1	1	1
-75.0	2	2	2	1	1	1	1	1	1	1	0
-85.0	1	1	1	1	1	1	1	1	1	0	0



Isocandela Diagram (Percent of Maximum Intensity)

