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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
Daniel Carrejo
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Madera, CA 93636-9515
United States

Catalog Number
DE-LED-TR-X100-FL-9-4000K
Order Number
12439915
Test Number
12439915.04

Test Date

2018-09-11

Prepared By

William Escobar, Technician

Approved By

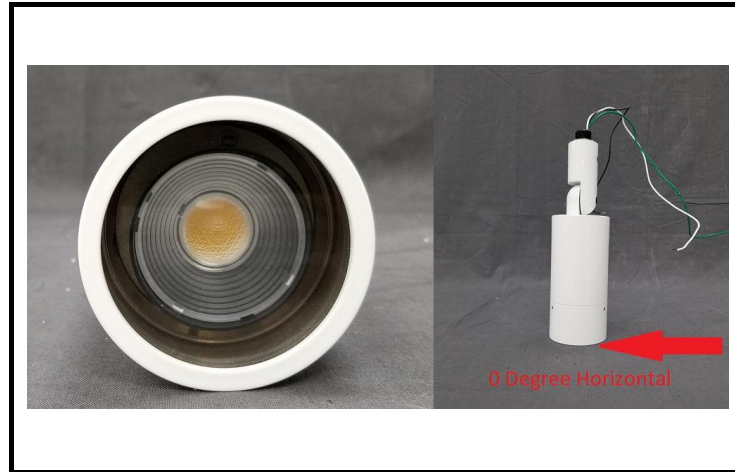
Eric Gaudreau, Engineering Leader

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 and 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:	1134 Lumens
Luminaire Efficacy:	89.0 lm/w
Maximum Candela:	1931 Candela

Test Conditions

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.1079 A
Power:	12.74 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	14.0 %

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



Distribution - Goniophotometer

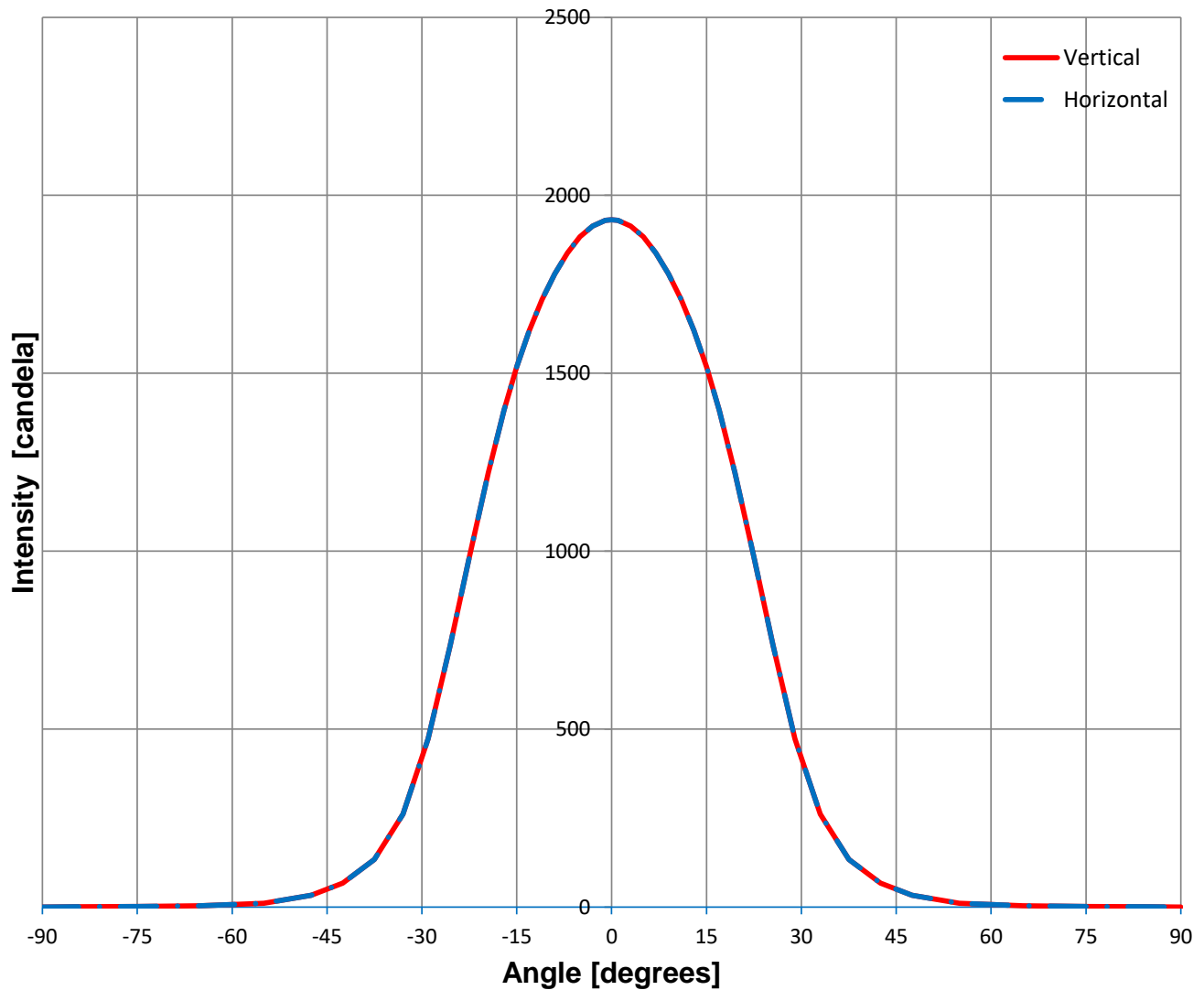
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.1079 A	12.74 W	0.984	60 Hz	14.0 %

Summary of Results

Total Lumen Output:	1133.5 Lumens	Maximum Candela:	1931.3 Candela
Luminaire Efficacy:	89.0 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1033.5 Lumens	Field Angle :	70.8 H X 70.8 V
Beam Lumens:	719.8 Lumens	Beam Angle :	45.4 H X 45.4 V
Spill Light Lumens:	100.0 Lumens	IESNA Type:	5 H X 5 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	4	4	4	4	4	4	4	4	4	4	4
55.0	10	10	10	10	10	10	9	9	9	8	7
47.5	33	33	33	32	31	30	29	27	25	24	21
42.5	67	67	66	65	63	60	57	54	50	46	41
37.5	134	133	132	128	123	118	111	103	95	87	76
33.0	261	261	257	249	237	222	205	187	168	150	129
29.0	473	472	464	448	425	396	362	326	289	252	209
25.5	736	734	722	699	665	621	570	513	452	391	319
22.5	984	982	968	941	900	847	783	710	630	547	445
19.5	1220	1218	1204	1175	1131	1073	1002	918	824	723	594
17.0	1396	1394	1379	1349	1304	1245	1171	1083	982	871	723
15.0	1518	1516	1501	1471	1426	1367	1291	1202	1098	982	824
13.0	1621	1619	1604	1575	1532	1472	1398	1307	1202	1083	918
11.0	1708	1706	1691	1663	1620	1562	1488	1398	1291	1171	1002
9.0	1780	1778	1763	1734	1692	1634	1562	1472	1367	1245	1073
7.0	1838	1836	1821	1792	1749	1692	1620	1532	1426	1304	1131
5.0	1883	1881	1866	1836	1792	1734	1663	1575	1471	1349	1175
3.0	1914	1911	1896	1866	1821	1763	1691	1604	1501	1379	1204
1.0	1929	1927	1911	1881	1836	1778	1706	1619	1516	1394	1218
0.0	1931	1929	1914	1883	1838	1780	1708	1621	1518	1396	1220
-1.0	1929	1927	1911	1881	1836	1778	1706	1619	1516	1394	1218
-3.0	1914	1911	1896	1866	1821	1763	1691	1604	1501	1379	1204
-5.0	1883	1881	1866	1836	1792	1734	1663	1575	1471	1349	1175
-7.0	1838	1836	1821	1792	1749	1692	1620	1532	1426	1304	1131
-9.0	1780	1778	1763	1734	1692	1634	1562	1472	1367	1245	1073
-11.0	1708	1706	1691	1663	1620	1562	1488	1398	1291	1171	1002
-13.0	1621	1619	1604	1575	1532	1472	1398	1307	1202	1083	918
-15.0	1518	1516	1501	1471	1426	1367	1291	1202	1098	982	824
-17.0	1396	1394	1379	1349	1304	1245	1171	1083	982	871	723
-19.5	1220	1218	1204	1175	1131	1073	1002	918	824	723	594
-22.5	984	982	968	941	900	847	783	710	630	547	445
-25.5	736	734	722	699	665	621	570	513	452	391	319
-29.0	473	472	464	448	425	396	362	326	289	252	209
-33.0	261	261	257	249	237	222	205	187	168	150	129
-37.5	134	133	132	128	123	118	111	103	95	87	76
-42.5	67	67	66	65	63	60	57	54	50	46	41
-47.5	33	33	33	32	31	30	29	27	25	24	21
-55.0	10	10	10	10	10	10	9	9	9	8	7
-65.0	4	4	4	4	4	4	4	4	4	4	4
-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	2	2	2	2	1	1	1	0
65.0	3	3	3	3	3	2	2	2	2	1	1
55.0	7	6	5	5	4	4	3	3	2	1	1
47.5	18	15	13	10	7	5	4	3	2	2	1
42.5	35	30	23	17	12	8	5	4	2	2	1
37.5	64	53	41	30	19	12	7	4	3	2	1
33.0	105	85	64	46	30	17	10	5	3	2	1
29.0	163	127	93	64	41	23	13	5	3	2	1
25.5	243	180	127	85	53	30	15	6	3	2	1
22.5	334	243	163	105	64	35	18	7	3	2	1
19.5	445	319	209	129	76	41	21	7	4	2	1
17.0	547	391	252	150	87	46	24	8	4	2	1
15.0	630	452	289	168	95	50	25	9	4	2	1
13.0	710	513	326	187	103	54	27	9	4	2	1
11.0	783	570	362	205	111	57	29	9	4	2	1
9.0	847	621	396	222	118	60	30	10	4	2	1
7.0	900	665	425	237	123	63	31	10	4	2	1
5.0	941	699	448	249	128	65	32	10	4	2	1
3.0	968	722	464	257	132	66	33	10	4	2	1
1.0	982	734	472	261	133	67	33	10	4	2	1
0.0	984	736	473	261	134	67	33	10	4	2	1
-1.0	982	734	472	261	133	67	33	10	4	2	1
-3.0	968	722	464	257	132	66	33	10	4	2	1
-5.0	941	699	448	249	128	65	32	10	4	2	1
-7.0	900	665	425	237	123	63	31	10	4	2	1
-9.0	847	621	396	222	118	60	30	10	4	2	1
-11.0	783	570	362	205	111	57	29	9	4	2	1
-13.0	710	513	326	187	103	54	27	9	4	2	1
-15.0	630	452	289	168	95	50	25	9	4	2	1
-17.0	547	391	252	150	87	46	24	8	4	2	1
-19.5	445	319	209	129	76	41	21	7	4	2	1
-22.5	334	243	163	105	64	35	18	7	3	2	1
-25.5	243	180	127	85	53	30	15	6	3	2	1
-29.0	163	127	93	64	41	23	13	5	3	2	1
-33.0	105	85	64	46	30	17	10	5	3	2	1
-37.5	64	53	41	30	19	12	7	4	3	2	1
-42.5	35	30	23	17	12	8	5	4	2	2	1
-47.5	18	15	13	10	7	5	4	3	2	2	1
-55.0	7	6	5	5	4	4	3	3	2	1	1
-65.0	3	3	3	3	3	2	2	2	2	1	1
-75.0	2	2	2	2	2	2	2	1	1	1	0
-85.0	1	1	1	1	1	1	1	1	1	0	0



Isocandela Diagram (Percent of Maximum Intensity)

