



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

Chris McCarthy
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
LBF-LED-X66-WFL-9-C

Order Number
11913931
Test Number
11913931.17

Test Date

2017-08-18

Prepared By

Austin Duff, Technician

Approved By

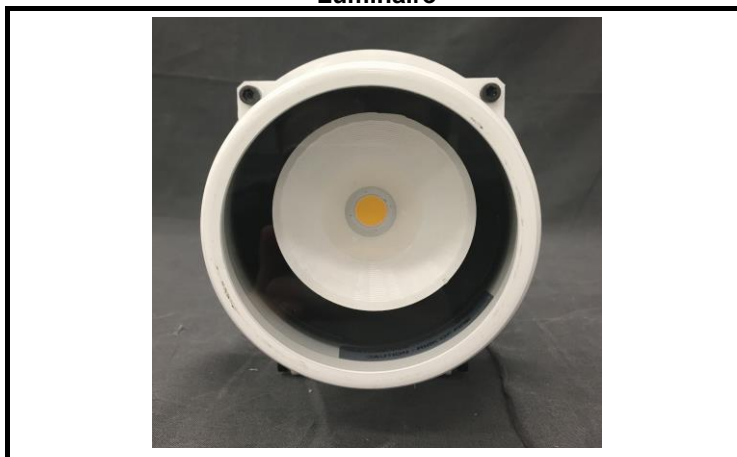
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white metal housing with white patterned reflector and clear lens
Lamp: One (1) white LED
Mounting: Pole/Arm
Ballast/Driver: Thomas Research Products LED25W-36-C0700-LE

Luminaire



Luminaire Characteristics

Luminous Diameter: 3.25 in.

Summary of Results

Total Luminaire Output:	2133 Lumens
Luminaire Efficacy:	79.5 lm/w
Maximum Candela:	1871 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.2256 A
Power:	26.83 W
Power Factor:	0.992
Frequency:	60 Hz
Current THD:	12.8 %

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



Distribution - Goniophotometer

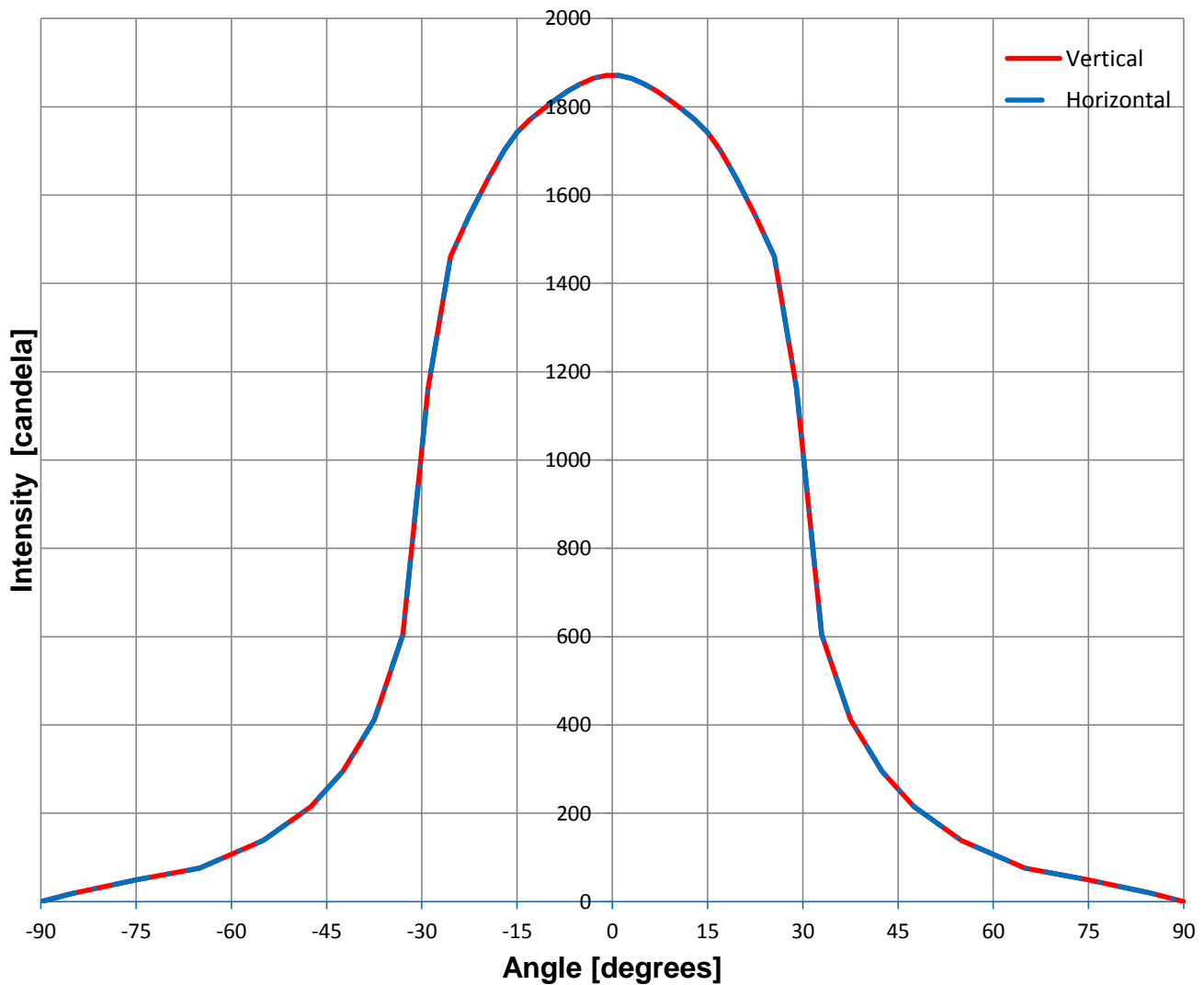
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.2256 A	26.83 W	0.992	60 Hz	12.8 %

Summary of Results

Total Lumen Output:	2133.2 Lumens	Maximum Candela:	1871.4 Candela
Luminaire Efficacy:	79.5 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1866.9 Lumens	Field Angle :	100.5 H X 100.5 V
Beam Lumens:	1369.6 Lumens	Beam Angle :	61.3 H X 61.3 V
Spill Light Lumens:	266.3 Lumens	IESNA Type:	6 H X 6 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	19	19	19	19	19	19	19	19	18	18	18
75.0	49	49	49	49	49	49	48	48	48	47	47
65.0	76	76	76	76	75	75	74	73	72	71	70
55.0	138	138	138	137	136	135	133	130	128	125	121
47.5	215	215	214	213	210	207	203	199	194	188	181
42.5	294	294	292	289	285	279	272	264	256	247	235
37.5	412	412	409	404	397	388	376	363	349	334	313
33.0	605	604	595	579	554	523	498	473	454	434	405
29.0	1164	1162	1143	1106	1051	978	886	784	680	586	504
25.5	1461	1460	1455	1444	1419	1385	1325	1237	1115	965	762
22.5	1554	1554	1549	1539	1523	1504	1481	1449	1392	1297	1099
19.5	1639	1638	1633	1622	1606	1586	1560	1530	1496	1455	1354
17.0	1702	1701	1696	1685	1669	1648	1621	1589	1553	1512	1455
15.0	1742	1741	1737	1727	1712	1692	1665	1632	1594	1553	1496
13.0	1771	1770	1766	1759	1746	1728	1703	1670	1632	1589	1530
11.0	1794	1793	1789	1782	1770	1755	1732	1703	1665	1621	1560
9.0	1816	1815	1810	1802	1789	1774	1755	1728	1692	1648	1586
7.0	1835	1835	1830	1820	1806	1789	1770	1746	1712	1669	1606
5.0	1852	1851	1845	1835	1820	1802	1782	1759	1727	1685	1622
3.0	1864	1863	1857	1845	1830	1810	1789	1766	1737	1696	1633
1.0	1871	1870	1863	1851	1835	1815	1793	1770	1741	1701	1638
0.0	1871	1871	1864	1852	1835	1816	1794	1771	1742	1702	1639
-1.0	1871	1870	1863	1851	1835	1815	1793	1770	1741	1701	1638
-3.0	1864	1863	1857	1845	1830	1810	1789	1766	1737	1696	1633
-5.0	1852	1851	1845	1835	1820	1802	1782	1759	1727	1685	1622
-7.0	1835	1835	1830	1820	1806	1789	1770	1746	1712	1669	1606
-9.0	1816	1815	1810	1802	1789	1774	1755	1728	1692	1648	1586
-11.0	1794	1793	1789	1782	1770	1755	1732	1703	1665	1621	1560
-13.0	1771	1770	1766	1759	1746	1728	1703	1670	1632	1589	1530
-15.0	1742	1741	1737	1727	1712	1692	1665	1632	1594	1553	1496
-17.0	1702	1701	1696	1685	1669	1648	1621	1589	1553	1512	1455
-19.5	1639	1638	1633	1622	1606	1586	1560	1530	1496	1455	1354
-22.5	1554	1554	1549	1539	1523	1504	1481	1449	1392	1297	1099
-25.5	1461	1460	1455	1444	1419	1385	1325	1237	1115	965	762
-29.0	1164	1162	1143	1106	1051	978	886	784	680	586	504
-33.0	605	604	595	579	554	523	498	473	454	434	405
-37.5	412	412	409	404	397	388	376	363	349	334	313
-42.5	294	294	292	289	285	279	272	264	256	247	235
-47.5	215	215	214	213	210	207	203	199	194	188	181
-55.0	138	138	138	137	136	135	133	130	128	125	121
-65.0	76	76	76	76	75	75	74	73	72	71	70
-75.0	49	49	49	49	49	49	48	48	48	47	47
-85.0	19	19	19	19	19	19	19	19	18	18	18



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	18	18	17	17	16	16	15	13	10	6	2
75.0	46	45	44	42	40	37	34	29	22	16	6
65.0	68	66	64	61	59	56	53	46	34	22	10
55.0	116	110	103	95	86	76	67	58	46	29	13
47.5	171	161	149	135	119	102	87	67	53	34	15
42.5	221	205	187	167	145	122	102	76	56	37	16
37.5	287	261	234	205	175	145	119	86	59	40	16
33.0	367	331	288	245	205	167	135	95	61	42	17
29.0	448	402	346	288	234	187	149	103	64	44	17
25.5	566	466	402	331	261	205	161	110	66	45	18
22.5	805	566	448	367	287	221	171	116	68	46	18
19.5	1099	762	504	405	313	235	181	121	70	47	18
17.0	1297	965	586	434	334	247	188	125	71	47	18
15.0	1392	1115	680	454	349	256	194	128	72	48	18
13.0	1449	1237	784	473	363	264	199	130	73	48	19
11.0	1481	1325	886	498	376	272	203	133	74	48	19
9.0	1504	1385	978	523	388	279	207	135	75	49	19
7.0	1523	1419	1051	554	397	285	210	136	75	49	19
5.0	1539	1444	1106	579	404	289	213	137	76	49	19
3.0	1549	1455	1143	595	409	292	214	138	76	49	19
1.0	1554	1460	1162	604	412	294	215	138	76	49	19
0.0	1554	1461	1164	605	412	294	215	138	76	49	19
-1.0	1554	1460	1162	604	412	294	215	138	76	49	19
-3.0	1549	1455	1143	595	409	292	214	138	76	49	19
-5.0	1539	1444	1106	579	404	289	213	137	76	49	19
-7.0	1523	1419	1051	554	397	285	210	136	75	49	19
-9.0	1504	1385	978	523	388	279	207	135	75	49	19
-11.0	1481	1325	886	498	376	272	203	133	74	48	19
-13.0	1449	1237	784	473	363	264	199	130	73	48	19
-15.0	1392	1115	680	454	349	256	194	128	72	48	18
-17.0	1297	965	586	434	334	247	188	125	71	47	18
-19.5	1099	762	504	405	313	235	181	121	70	47	18
-22.5	805	566	448	367	287	221	171	116	68	46	18
-25.5	566	466	402	331	261	205	161	110	66	45	18
-29.0	448	402	346	288	234	187	149	103	64	44	17
-33.0	367	331	288	245	205	167	135	95	61	42	17
-37.5	287	261	234	205	175	145	119	86	59	40	16
42.5	221	205	187	167	145	122	102	76	56	37	16
-47.5	171	161	149	135	119	102	87	67	53	34	15
-55.0	116	110	103	95	86	76	67	58	46	29	13
-65.0	68	66	64	61	59	56	53	46	34	22	10
-75.0	46	45	44	42	40	37	34	29	22	16	6
-85.0	18	18	17	17	16	16	15	13	10	6	2



Isocandela Diagram (Percent of Maximum Intensity)

