



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
Daniel Carrejo
40429 Brickyard Dr
Madera, CA 93636-9515
United States

Catalog Number
K2-LED-C26-FL-12-4000K
Order Number
12496739
Test Number
12496739.07A
Revised:
2018-11-19
Test Date
2018-11-08

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 specular prismatic reflector and glass prismatic lens
Lamp: One (1) Lumenetix CTM1C19 16-80K 2000L 35W 24V Module with diffuse lens and specular reflector
Mounting: Pendant
Ballast/Driver: One (1) EFORE RSLP070-24

Luminaire



Luminaire Characteristics

Luminous Diameter: 4.50 in.

Summary of Results

Total Luminaire Output:	1440 Lumens
Luminaire Efficacy:	35.1 lm/w
Maximum Candela:	2606 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.3495 A
Power:	41.06 W
Power Factor:	0.979
Frequency:	60 Hz
Current THD:	15.0 %

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



Distribution - Goniophotometer

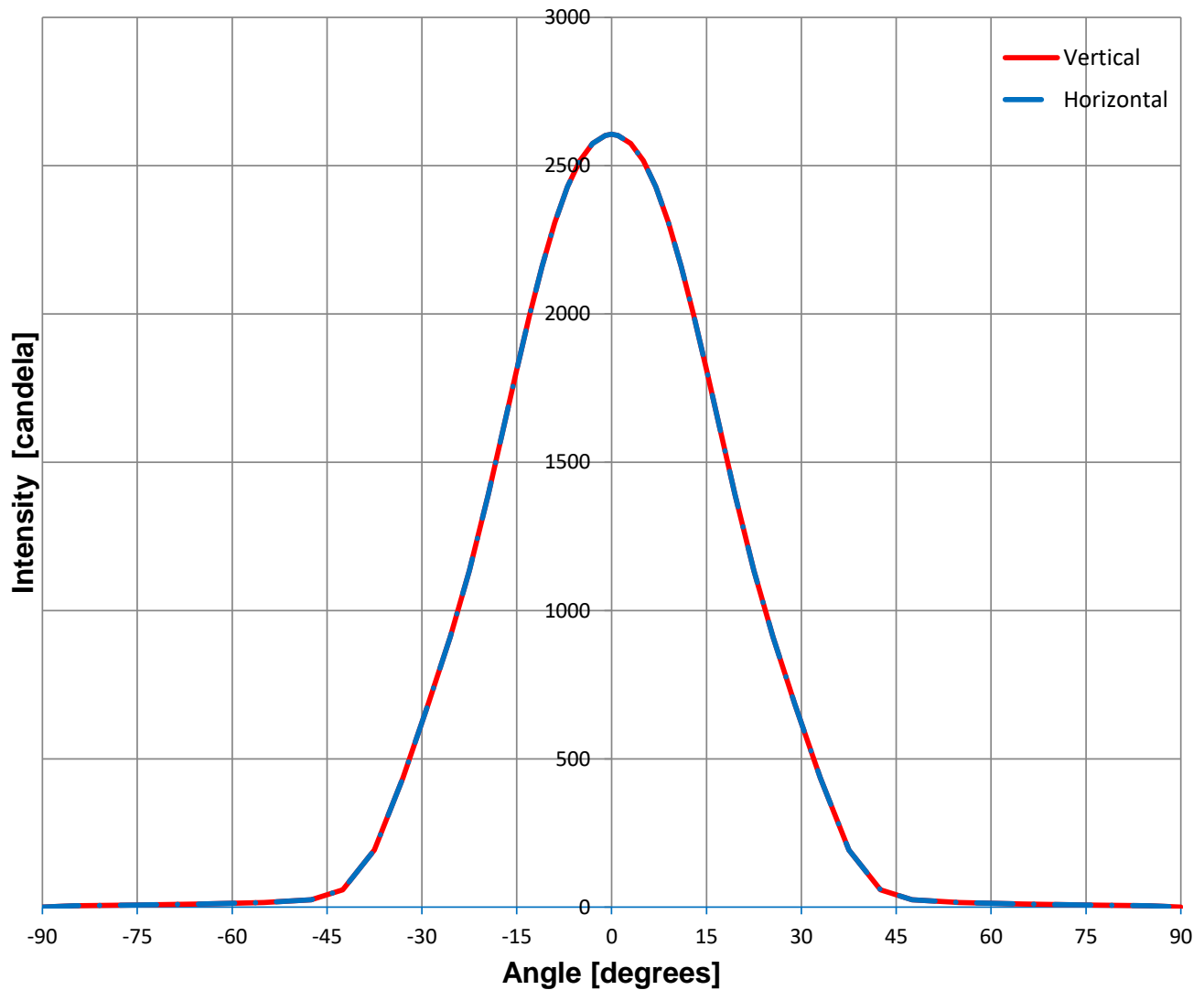
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.3495 A	41.06 W	0.979	60 Hz	15.0 %

Summary of Results

Total Lumen Output:	1439.6 Lumens	Maximum Candela:	2606.0 Candela
Luminaire Efficacy:	35.1 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1322.5 Lumens	Field Angle :	72.5 H X 72.5 V
Beam Lumens:	765.9 Lumens	Beam Angle :	41.1 H X 41.1 V
Spill Light Lumens:	117.2 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	5	5	5	5	5	5	5	5	5	5	5
75.0	7	7	7	7	7	7	7	7	7	7	7
65.0	10	10	10	10	10	10	10	10	10	10	10
55.0	15	15	15	15	15	15	15	15	14	14	14
47.5	25	25	24	24	24	23	23	22	21	20	19
42.5	59	58	57	55	52	49	45	41	38	34	30
37.5	192	192	188	180	169	156	141	124	107	91	72
33.0	436	435	429	416	396	371	340	306	268	229	181
29.0	684	683	675	659	637	607	570	526	476	421	347
25.5	911	910	899	879	851	814	770	720	663	602	517
22.5	1135	1133	1120	1093	1056	1008	952	889	822	751	657
19.5	1392	1389	1371	1336	1286	1224	1152	1072	988	900	791
17.0	1623	1621	1600	1558	1498	1422	1332	1234	1133	1029	900
15.0	1812	1809	1784	1737	1669	1582	1481	1369	1250	1133	988
13.0	1993	1990	1962	1910	1835	1740	1626	1502	1369	1234	1072
11.0	2160	2156	2128	2072	1992	1886	1764	1626	1481	1332	1152
9.0	2308	2304	2274	2216	2129	2018	1886	1740	1582	1422	1224
7.0	2429	2425	2394	2334	2246	2129	1992	1835	1669	1498	1286
5.0	2517	2513	2484	2425	2334	2216	2072	1910	1737	1558	1336
3.0	2575	2571	2542	2484	2394	2274	2128	1962	1784	1600	1371
1.0	2602	2598	2571	2513	2425	2304	2156	1990	1809	1621	1389
0.0	2606	2602	2575	2517	2429	2308	2160	1993	1812	1623	1392
-1.0	2602	2598	2571	2513	2425	2304	2156	1990	1809	1621	1389
-3.0	2575	2571	2542	2484	2394	2274	2128	1962	1784	1600	1371
-5.0	2517	2513	2484	2425	2334	2216	2072	1910	1737	1558	1336
-7.0	2429	2425	2394	2334	2246	2129	1992	1835	1669	1498	1286
-9.0	2308	2304	2274	2216	2129	2018	1886	1740	1582	1422	1224
-11.0	2160	2156	2128	2072	1992	1886	1764	1626	1481	1332	1152
-13.0	1993	1990	1962	1910	1835	1740	1626	1502	1369	1234	1072
-15.0	1812	1809	1784	1737	1669	1582	1481	1369	1250	1133	988
-17.0	1623	1621	1600	1558	1498	1422	1332	1234	1133	1029	900
-19.5	1392	1389	1371	1336	1286	1224	1152	1072	988	900	791
-22.5	1135	1133	1120	1093	1056	1008	952	889	822	751	657
-25.5	911	910	899	879	851	814	770	720	663	602	517
-29.0	684	683	675	659	637	607	570	526	476	421	347
-33.0	436	435	429	416	396	371	340	306	268	229	181
-37.5	192	192	188	180	169	156	141	124	107	91	72
-42.5	59	58	57	55	52	49	45	41	38	34	30
-47.5	25	25	24	24	24	23	23	22	21	20	19
-55.0	15	15	15	15	15	15	15	15	14	14	14
-65.0	10	10	10	10	10	10	10	10	10	10	10
-75.0	7	7	7	7	7	7	7	7	7	7	7
-85.0	5	5	5	5	5	5	5	5	5	5	5

Vertical Angle (Degrees)



Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	Lateral Angle (Degrees)										
	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	5	5	5	5	5	4	4	4	3	2	1
75.0	7	7	6	6	6	6	6	5	5	5	2
65.0	9	9	9	9	8	8	7	7	6	5	3
55.0	13	13	12	12	11	10	9	8	7	5	4
47.5	18	17	16	15	14	12	11	9	7	6	4
42.5	26	23	20	18	16	14	12	10	8	6	4
37.5	54	40	29	23	19	16	14	11	8	6	5
33.0	129	88	54	33	23	18	15	12	9	6	5
29.0	257	177	104	54	29	20	16	12	9	6	5
25.5	405	292	177	88	40	23	17	13	9	7	5
22.5	535	405	257	129	54	26	18	13	9	7	5
19.5	657	517	347	181	72	30	19	14	10	7	5
17.0	751	602	421	229	91	34	20	14	10	7	5
15.0	822	663	476	268	107	38	21	14	10	7	5
13.0	889	720	526	306	124	41	22	15	10	7	5
11.0	952	770	570	340	141	45	23	15	10	7	5
9.0	1008	814	607	371	156	49	23	15	10	7	5
7.0	1056	851	637	396	169	52	24	15	10	7	5
5.0	1093	879	659	416	180	55	24	15	10	7	5
3.0	1120	899	675	429	188	57	24	15	10	7	5
1.0	1133	910	683	435	192	58	25	15	10	7	5
0.0	1135	911	684	436	192	59	25	15	10	7	5
-1.0	1133	910	683	435	192	58	25	15	10	7	5
-3.0	1120	899	675	429	188	57	24	15	10	7	5
-5.0	1093	879	659	416	180	55	24	15	10	7	5
-7.0	1056	851	637	396	169	52	24	15	10	7	5
-9.0	1008	814	607	371	156	49	23	15	10	7	5
-11.0	952	770	570	340	141	45	23	15	10	7	5
-13.0	889	720	526	306	124	41	22	15	10	7	5
-15.0	822	663	476	268	107	38	21	14	10	7	5
-17.0	751	602	421	229	91	34	20	14	10	7	5
-19.5	657	517	347	181	72	30	19	14	10	7	5
-22.5	535	405	257	129	54	26	18	13	9	7	5
-25.5	405	292	177	88	40	23	17	13	9	7	5
-29.0	257	177	104	54	29	20	16	12	9	6	5
-33.0	129	88	54	33	23	18	15	12	9	6	5
-37.5	54	40	29	23	19	16	14	11	8	6	5
-42.5	26	23	20	18	16	14	12	10	8	6	4
-47.5	18	17	16	15	14	12	11	9	7	6	4
-55.0	13	13	12	12	11	10	9	8	7	5	4
-65.0	9	9	9	9	8	8	7	7	6	5	3
-75.0	7	7	6	6	6	6	6	5	5	5	2
-85.0	5	5	5	5	5	4	4	4	3	2	1



Isocandela Diagram (Percent of Maximum Intensity)

