UL LLC
1075 W Lambert Rd Suite B
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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Daniel Carrejo
40429 Brickyard Dr.
Madera, CA 93636
United States

Catalog Number

DE-LED-TR-X125-FL-9-C-PROTOTYPE(4000K)

Order Number
13583921
Test Number
13583921.06

Test Date

2021-02-05

Prepared By

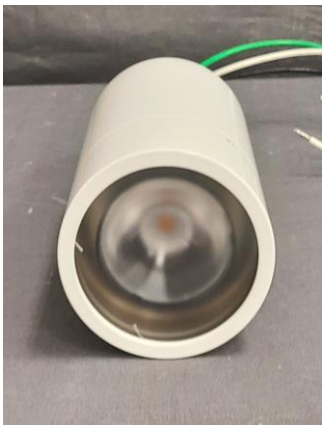
Austin Duff, Technician

Approved By

Eric Gaudreau, Engineering Leader

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:	1568 Lumens
Luminaire Efficacy:	72.1 lm/w
Maximum Candela:	2812 Candela

Test Conditions

Test Temperature:	24.9	°C
Voltage:	120.0	VAC
Current:	0.1838	A
Power:	21.74	W
Power Factor:	0.986	
Frequency:	60	Hz
Current THD:	15.7	%

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

Distribution - Goniophotometer

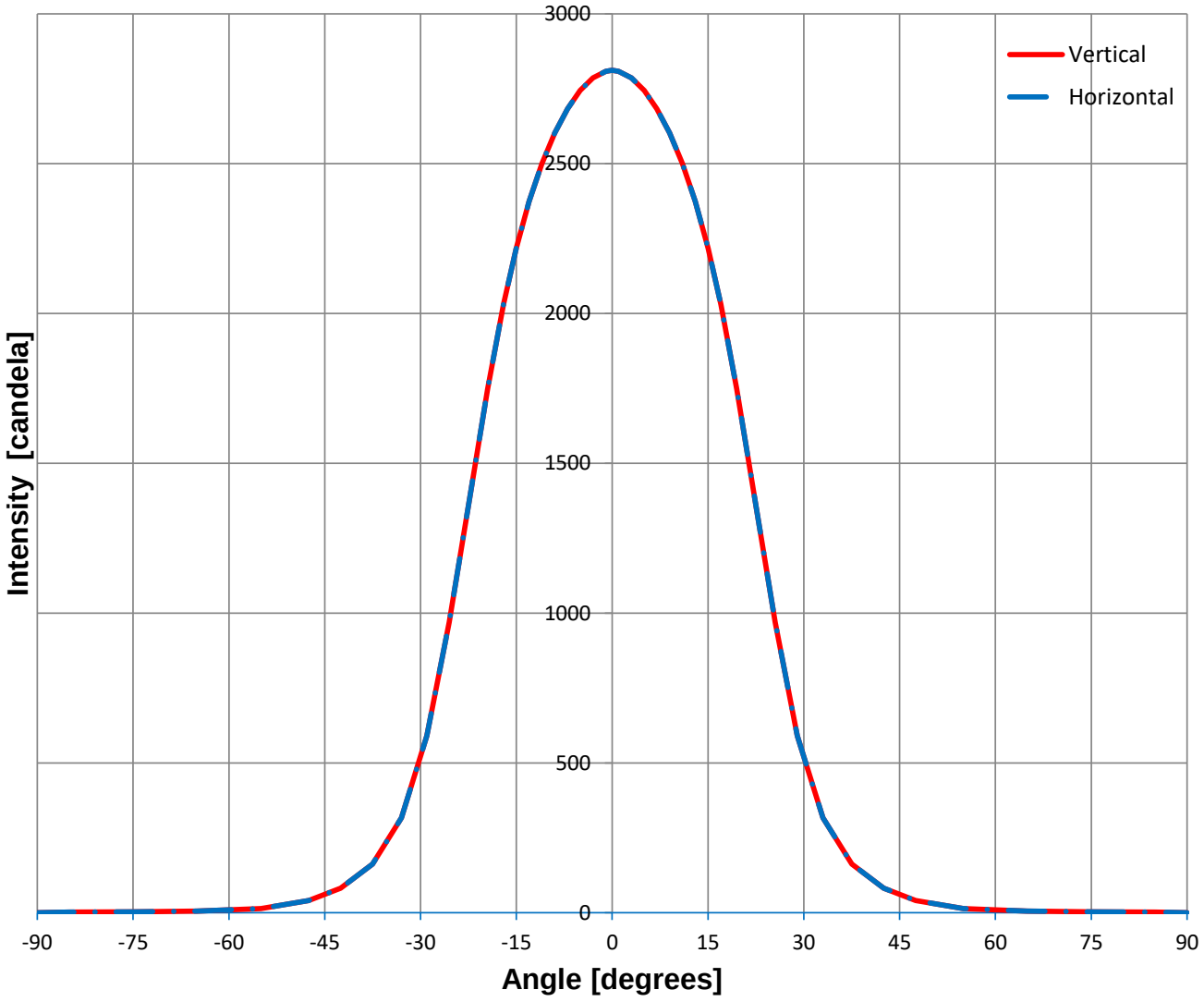
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1838 A	21.74 W	0.986	60 Hz	15.7 %

Summary of Results

Total Lumen Output:	1568.3 Lumens		**Maximum Candela:**	2811.7 Candela		
Luminaire Efficacy:	72.1 Lumens/Watt		**Maximum Angle:**	0 H		0 V
Field Lumens:	1428.6 Lumens		**Field Angle :**	68.1 H	X	68.1 V
Beam Lumens:	971.6 Lumens		**Beam Angle :**	44.3 H	X	44.3 V
Spill Light Lumens:	139.7 Lumens		**IESNA Type:**	4 H	X	4 V

Maximum Candlepower Plot



Candela Tabulation

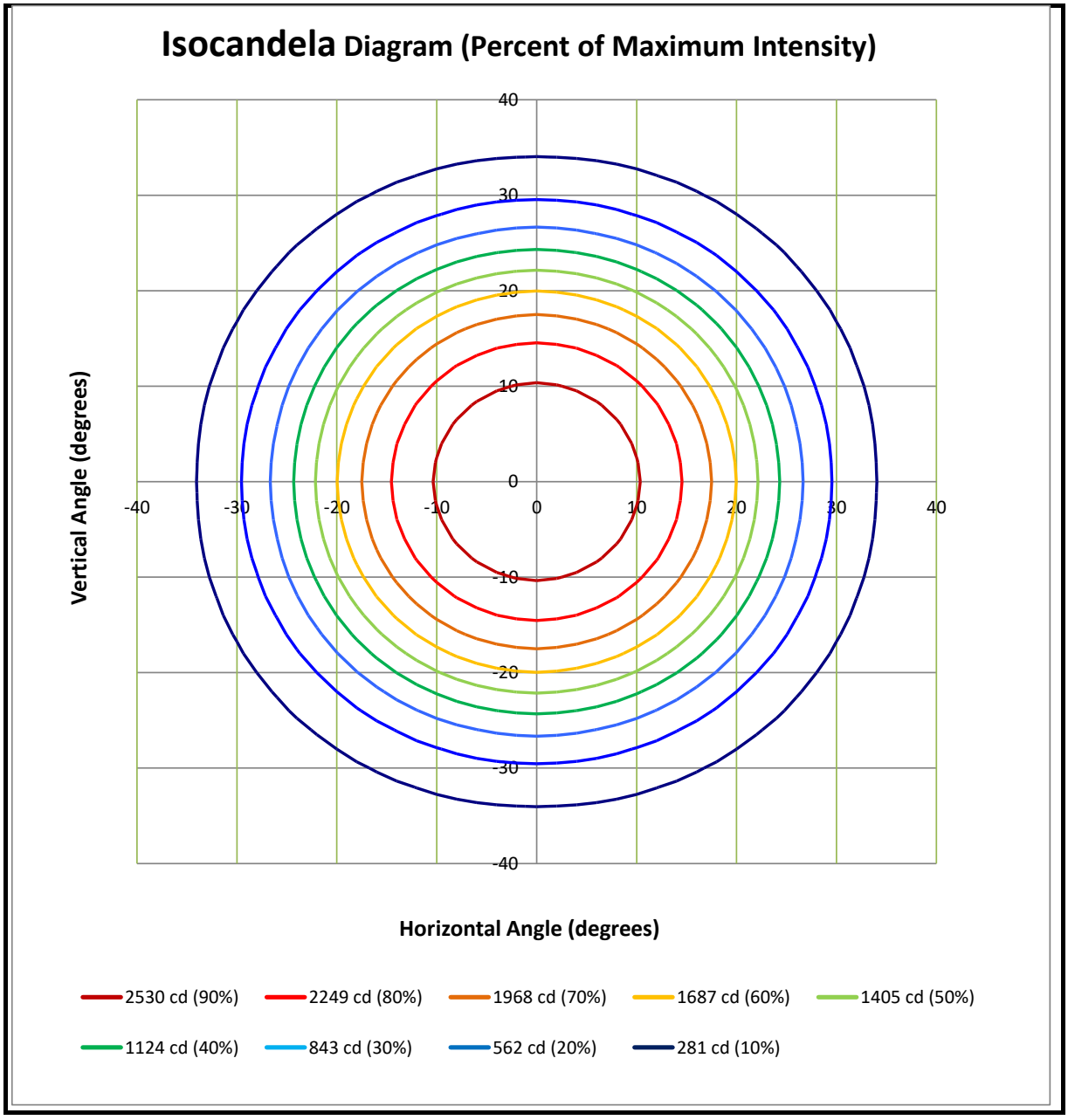
Lateral Angle (Degrees)

Vertical Angle (Degrees)	0	1	3	5	7	9	11	13	15	17	19.5
85.0	2	2	2	2	2	2	2	2	2	2	2
75.0	3	3	3	3	3	3	3	3	3	3	3
65.0	5	5	5	5	5	5	5	5	5	5	5
55.0	13	13	13	13	13	13	12	12	11	11	10
47.5	41	41	41	40	39	37	36	34	32	30	27
42.5	82	82	81	79	77	74	70	66	62	57	51
37.5	162	162	160	156	150	143	134	125	115	105	92
33.0	317	316	312	302	288	269	249	227	205	183	156
29.0	591	589	579	558	527	489	445	399	352	306	254
25.5	969	967	949	914	864	799	726	646	563	483	390
22.5	1360	1358	1335	1291	1226	1141	1041	931	812	694	554
19.5	1749	1746	1722	1674	1603	1507	1389	1254	1105	951	760
17.0	2030	2027	2003	1956	1884	1788	1667	1523	1357	1178	951
15.0	2218	2215	2191	2146	2077	1983	1864	1718	1549	1357	1105
13.0	2375	2372	2349	2306	2239	2148	2033	1889	1718	1523	1254
11.0	2500	2498	2477	2437	2373	2285	2172	2033	1864	1667	1389
9.0	2603	2600	2579	2539	2478	2395	2285	2148	1983	1788	1507
7.0	2683	2680	2659	2620	2560	2478	2373	2239	2077	1884	1603
5.0	2745	2742	2721	2681	2620	2539	2437	2306	2146	1956	1674
3.0	2786	2783	2762	2721	2659	2579	2477	2349	2191	2003	1722
1.0	2809	2805	2783	2742	2680	2600	2498	2372	2215	2027	1746
0.0	2812	2809	2786	2745	2683	2603	2500	2375	2218	2030	1749
-1.0	2809	2805	2783	2742	2680	2600	2498	2372	2215	2027	1746
-3.0	2786	2783	2762	2721	2659	2579	2477	2349	2191	2003	1722
-5.0	2745	2742	2721	2681	2620	2539	2437	2306	2146	1956	1674
-7.0	2683	2680	2659	2620	2560	2478	2373	2239	2077	1884	1603
-9.0	2603	2600	2579	2539	2478	2395	2285	2148	1983	1788	1507
-11.0	2500	2498	2477	2437	2373	2285	2172	2033	1864	1667	1389
-13.0	2375	2372	2349	2306	2239	2148	2033	1889	1718	1523	1254
-15.0	2218	2215	2191	2146	2077	1983	1864	1718	1549	1357	1105
-17.0	2030	2027	2003	1956	1884	1788	1667	1523	1357	1178	951
-19.5	1749	1746	1722	1674	1603	1507	1389	1254	1105	951	760
-22.5	1360	1358	1335	1291	1226	1141	1041	931	812	694	554
-25.5	969	967	949	914	864	799	726	646	563	483	390
-29.0	591	589	579	558	527	489	445	399	352	306	254
-33.0	317	316	312	302	288	269	249	227	205	183	156
-37.5	162	162	160	156	150	143	134	125	115	105	92
42.5	82	82	81	79	77	74	70	66	62	57	51
-47.5	41	41	41	40	39	37	36	34	32	30	27
-55.0	13	13	13	13	13	13	12	12	11	11	10
-65.0	5	5	5	5	5	5	5	5	5	5	5
-75.0	3	3	3	3	3	3	3	3	3	3	3
-85.0	2	2	2	2	2	2	2	2	2	2	2

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	2	2	2	2	2	2	1	1	1	1	0
75.0	3	3	3	3	3	3	2	2	2	2	1
65.0	4	4	4	4	4	3	3	3	2	2	1
55.0	9	8	7	7	6	5	4	4	3	2	1
47.5	23	20	16	13	10	7	6	4	3	2	1
42.5	44	37	29	22	15	10	7	5	3	3	2
37.5	78	64	50	37	24	15	10	6	4	3	2
33.0	128	103	78	56	37	22	13	7	4	3	2
29.0	199	154	113	78	50	29	16	7	4	3	2
25.5	294	219	154	103	64	37	20	8	4	3	2
22.5	409	294	199	128	78	44	23	9	4	3	2
19.5	554	390	254	156	92	51	27	10	5	3	2
17.0	694	483	306	183	105	57	30	11	5	3	2
15.0	812	563	352	205	115	62	32	11	5	3	2
13.0	931	646	399	227	125	66	34	12	5	3	2
11.0	1041	726	445	249	134	70	36	12	5	3	2
9.0	1141	799	489	269	143	74	37	13	5	3	2
7.0	1226	864	527	288	150	77	39	13	5	3	2
5.0	1291	914	558	302	156	79	40	13	5	3	2
3.0	1335	949	579	312	160	81	41	13	5	3	2
1.0	1358	967	589	316	162	82	41	13	5	3	2
0.0	1360	969	591	317	162	82	41	13	5	3	2
-1.0	1358	967	589	316	162	82	41	13	5	3	2
-3.0	1335	949	579	312	160	81	41	13	5	3	2
-5.0	1291	914	558	302	156	79	40	13	5	3	2
-7.0	1226	864	527	288	150	77	39	13	5	3	2
-9.0	1141	799	489	269	143	74	37	13	5	3	2
-11.0	1041	726	445	249	134	70	36	12	5	3	2
-13.0	931	646	399	227	125	66	34	12	5	3	2
-15.0	812	563	352	205	115	62	32	11	5	3	2
-17.0	694	483	306	183	105	57	30	11	5	3	2
-19.5	554	390	254	156	92	51	27	10	5	3	2
-22.5	409	294	199	128	78	44	23	9	4	3	2
-25.5	294	219	154	103	64	37	20	8	4	3	2
-29.0	199	154	113	78	50	29	16	7	4	3	2
-33.0	128	103	78	56	37	22	13	7	4	3	2
-37.5	78	64	50	37	24	15	10	6	4	3	2
42.5	44	37	29	22	15	10	7	5	3	3	2
-47.5	23	20	16	13	10	7	6	4	3	2	1
-55.0	9	8	7	7	6	5	4	4	3	2	1
-65.0	4	4	4	4	4	3	3	3	2	2	1
-75.0	3	3	3	3	3	3	2	2	2	2	1
-85.0	2	2	2	2	2	2	1	1	1	1	0


Isocandela Diagram (Percent of Maximum Intensity)
Vertical Angle (degrees)
40
30
20
10
0
-10
-20
-30
-40
-40
-30
-20
-10
0
10
20
30
40
Horizontal Angle (degrees)
2530 cd (90%)
2249 cd (80%)
1968 cd (70%)
1687 cd (60%)
1405 cd (50%)
1124 cd (40%)
843 cd (30%)
562 cd (20%)
281 cd (10%)