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

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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

OR-LED-e117-SP-WHP-9-0-YM-MT(5000K)

Order Number
14151565
Test Number
14151565.06

Test Date

2022-01-12

Prepared By

Austin Duff, Technician

Approved By

Yilmaz Yucelidag, Project Handler

Luminaire Description: Formed white metal housing with glass lens
Lamp: 49 White LED with optic below
Mounting: Pole/Arm
Ballast/Driver: DELTA USCI-200140GA

Luminaire

Luminaire Characteristics

Luminous Diameter: 9.00 in.

Summary of Results

Total Luminaire Output:	10090 Lumens
Luminaire Efficacy:	112 lm/w
Maximum Candela:	86909 Candela

Test Conditions

Test Temperature:	24.7	°C
Voltage:	120.1	VAC
Current:	0.7691	A
Power:	89.75	W
Power Factor:	0.972	
Frequency:	60	Hz
Current THD:	21.7	%

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

Distribution - Goniophotometer

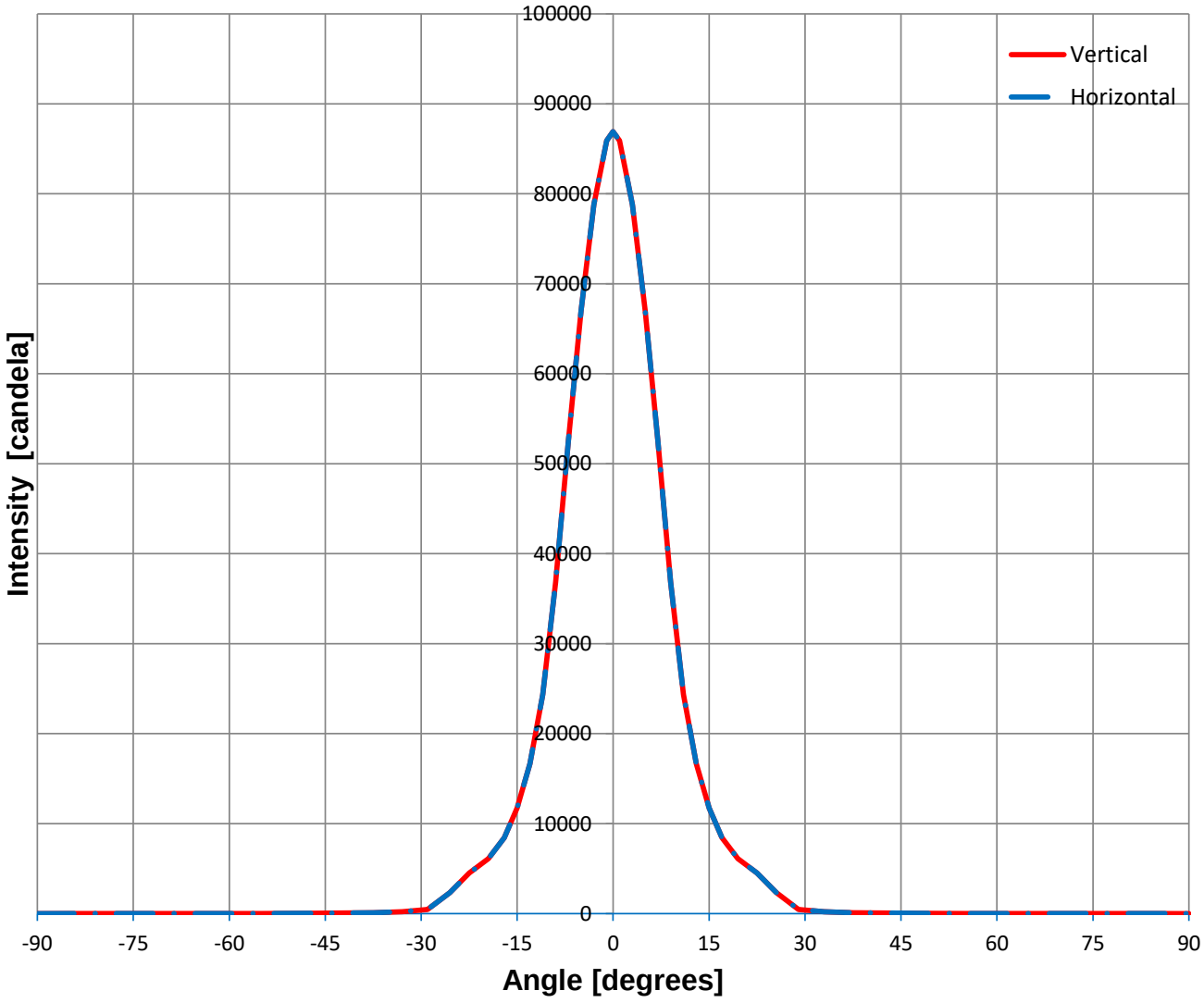
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.7691 A	89.75 W	0.972	60 Hz	21.7 %

Summary of Results

Total Lumen Output:	10092.7 Lumens	**Maximum Candela:**	86909.4 Candela
Luminaire Efficacy:	112.5 Lumens/Watt	**Maximum Angle:**	0 H 0 V
Field Lumens:	7835.0 Lumens	**Field Angle :**	33.7 H X 33.7 V
Beam Lumens:	3991.3 Lumens	**Beam Angle :**	16.3 H X 16.3 V
Spill Light Lumens:	2257.7 Lumens	**IESNA Type:**	3 H X 3 V

Maximum Candlepower Plot



Candela Tabulation

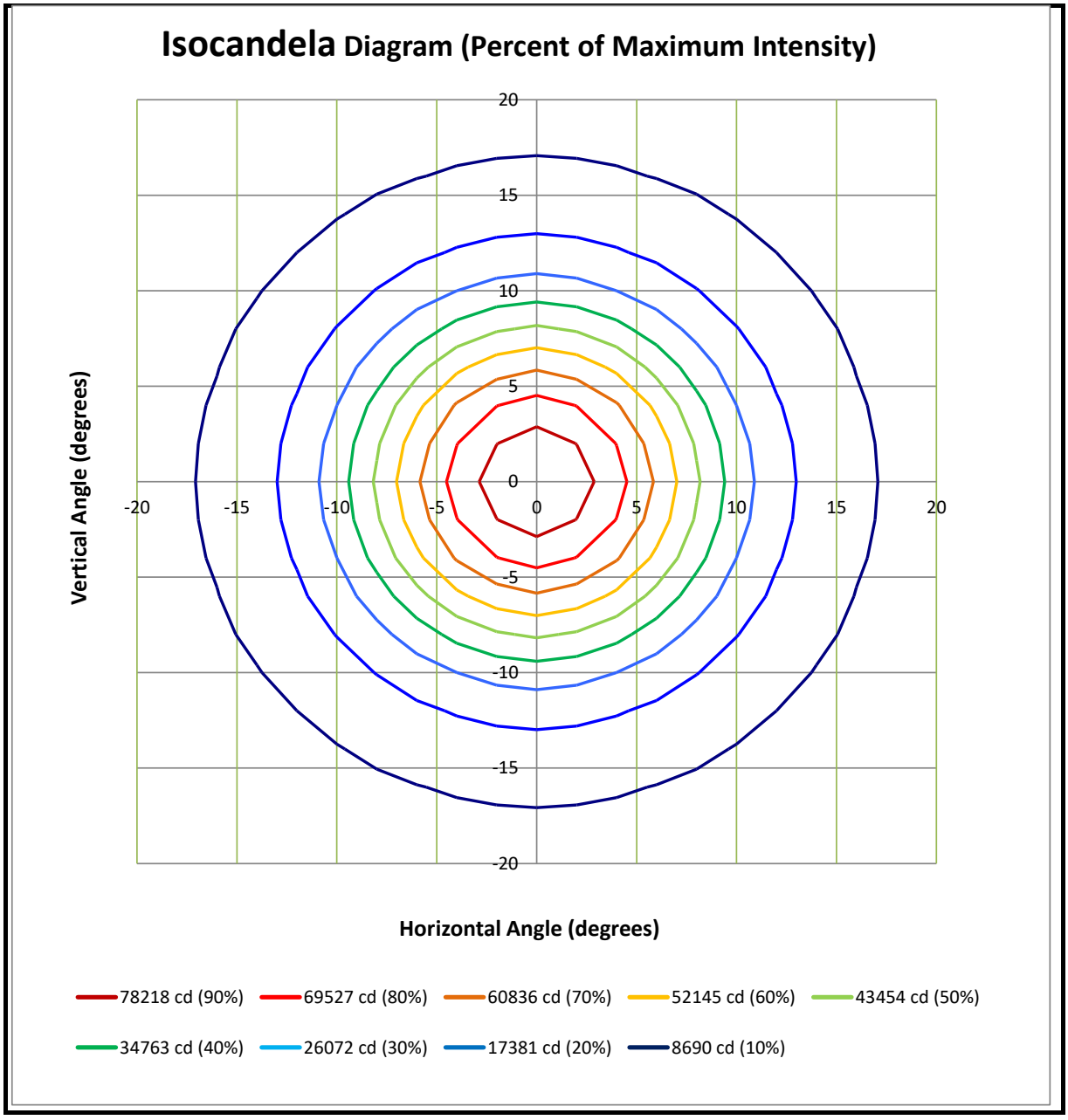
Lateral Angle (Degrees)

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	6	6	6	6	6	6	6	6	6	6	6
65.0	14	14	14	13	13	13	13	13	13	13	12
55.0	24	24	24	24	24	24	23	23	22	22	21
47.5	41	41	40	40	39	38	37	37	36	34	33
42.5	74	73	73	72	70	68	66	63	59	56	49
37.5	104	104	103	101	99	97	94	91	88	85	79
33.0	207	206	203	197	189	177	162	145	127	114	101
29.0	449	448	440	422	397	359	307	261	224	200	165
25.5	2344	2327	2196	1936	1598	1165	813	553	427	352	252
22.5	4504	4495	4425	4281	3970	3532	2864	2060	1255	663	419
19.5	6118	6100	5960	5697	5357	4980	4595	4107	3293	2209	969
17.0	8417	8386	8140	7658	7035	6351	5665	5033	4494	3746	2209
15.0	11722	11661	11173	10220	9096	7940	6880	5939	5119	4494	3293
13.0	16657	16557	15766	14234	12324	10269	8463	7070	5939	5033	4107
11.0	24341	24146	22615	19758	16617	13598	10760	8463	6880	5665	4595
9.0	36815	36437	33492	28337	22671	17652	13598	10269	7940	6351	4980
7.0	52613	52049	47727	39984	30711	22671	16617	12324	9096	7035	5357
5.0	66983	66301	61260	52082	39984	28337	19758	14234	10220	7658	5697
3.0	78810	77921	71794	61260	47727	33492	22615	15766	11173	8140	5960
1.0	85919	84745	77921	66301	52049	36437	24146	16557	11661	8386	6100
0.0	86909	85919	78810	66983	52613	36815	24341	16657	11722	8417	6118
-1.0	85919	84745	77921	66301	52049	36437	24146	16557	11661	8386	6100
-3.0	78810	77921	71794	61260	47727	33492	22615	15766	11173	8140	5960
-5.0	66983	66301	61260	52082	39984	28337	19758	14234	10220	7658	5697
-7.0	52613	52049	47727	39984	30711	22671	16617	12324	9096	7035	5357
-9.0	36815	36437	33492	28337	22671	17652	13598	10269	7940	6351	4980
-11.0	24341	24146	22615	19758	16617	13598	10760	8463	6880	5665	4595
-13.0	16657	16557	15766	14234	12324	10269	8463	7070	5939	5033	4107
-15.0	11722	11661	11173	10220	9096	7940	6880	5939	5119	4494	3293
-17.0	8417	8386	8140	7658	7035	6351	5665	5033	4494	3746	2209
-19.5	6118	6100	5960	5697	5357	4980	4595	4107	3293	2209	969
-22.5	4504	4495	4425	4281	3970	3532	2864	2060	1255	663	419
-25.5	2344	2327	2196	1936	1598	1165	813	553	427	352	252
-29.0	449	448	440	422	397	359	307	261	224	200	165
-33.0	207	206	203	197	189	177	162	145	127	114	101
-37.5	104	104	103	101	99	97	94	91	88	85	79
42.5	74	73	73	72	70	68	66	63	59	56	49
-47.5	41	41	40	40	39	38	37	37	36	34	33
-55.0	24	24	24	24	24	24	23	23	22	22	21
-65.0	14	14	14	13	13	13	13	13	13	13	12
-75.0	6	6	6	6	6	6	6	6	6	6	6
-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	1	1	1	1	1	1	1	1	1	0
75.0	6	5	5	5	4	4	4	3	2	1	1
65.0	12	12	11	10	10	9	7	6	4	2	1
55.0	20	20	18	17	15	14	12	9	6	3	1
47.5	31	29	26	24	21	18	15	12	7	4	1
42.5	42	38	34	30	26	21	18	14	9	4	1
37.5	71	62	49	38	32	26	21	15	10	4	1
33.0	92	84	71	54	38	30	24	17	10	5	1
29.0	123	100	88	71	49	34	26	18	11	5	1
25.5	193	139	100	84	62	38	29	20	12	5	1
22.5	270	193	123	92	71	42	31	20	12	6	2
19.5	419	252	165	101	79	49	33	21	12	6	2
17.0	663	352	200	114	85	56	34	22	13	6	2
15.0	1255	427	224	127	88	59	36	22	13	6	2
13.0	2060	553	261	145	91	63	37	23	13	6	2
11.0	2864	813	307	162	94	66	37	23	13	6	2
9.0	3532	1165	359	177	97	68	38	24	13	6	2
7.0	3970	1598	397	189	99	70	39	24	13	6	2
5.0	4281	1936	422	197	101	72	40	24	13	6	2
3.0	4425	2196	440	203	103	73	40	24	14	6	2
1.0	4495	2327	448	206	104	73	41	24	14	6	2
0.0	4504	2344	449	207	104	74	41	24	14	6	2
-1.0	4495	2327	448	206	104	73	41	24	14	6	2
-3.0	4425	2196	440	203	103	73	40	24	14	6	2
-5.0	4281	1936	422	197	101	72	40	24	13	6	2
-7.0	3970	1598	397	189	99	70	39	24	13	6	2
-9.0	3532	1165	359	177	97	68	38	24	13	6	2
-11.0	2864	813	307	162	94	66	37	23	13	6	2
-13.0	2060	553	261	145	91	63	37	23	13	6	2
-15.0	1255	427	224	127	88	59	36	22	13	6	2
-17.0	663	352	200	114	85	56	34	22	13	6	2
-19.5	419	252	165	101	79	49	33	21	12	6	2
-22.5	270	193	123	92	71	42	31	20	12	6	2
-25.5	193	139	100	84	62	38	29	20	12	5	1
-29.0	123	100	88	71	49	34	26	18	11	5	1
-33.0	92	84	71	54	38	30	24	17	10	5	1
-37.5	71	62	49	38	32	26	21	15	10	4	1
42.5	42	38	34	30	26	21	18	14	9	4	1
-47.5	31	29	26	24	21	18	15	12	7	4	1
-55.0	20	20	18	17	15	14	12	9	6	3	1
-65.0	12	12	11	10	10	9	7	6	4	2	1
-75.0	6	5	5	5	4	4	4	3	2	1	1
-85.0	2	1	1	1	1	1	1	1	1	1	0


Isocandela Diagram (Percent of Maximum Intensity)
Vertical Angle (degrees)
20
15
10
5
0
-5
-10
-15
-20
-20
-15
-10
-5
0
5
10
15
20
Horizontal Angle (degrees)
78218 cd (90%)
69527 cd (80%)
60836 cd (70%)
52145 cd (60%)
43454 cd (50%)
34763 cd (40%)
26072 cd (30%)
17381 cd (20%)
8690 cd (10%)