



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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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
RI-LED-TR-E137-MFL-WHP-9-C-INC-MT-PROTO-(4000K)

Order Number
13742921
Test Number
13742921.07

Test Date

2021-04-02

Prepared By

Khang Nguyen, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



Luminaire Description: White formed metal housing and clear glass lens
Lamp: One (1) White LED with optic attached
Mounting: Pole/Arm
Ballast/Driver: One (1) PowerSelect PS60U100C14R

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	667.3 Lumens
Luminaire Efficacy:	50.7 lm/w
Maximum Candela:	1545 Candela

Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.1 VAC
Current:	0.1116 A
Power:	13.17 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.3 %

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



Distribution - Goniophotometer

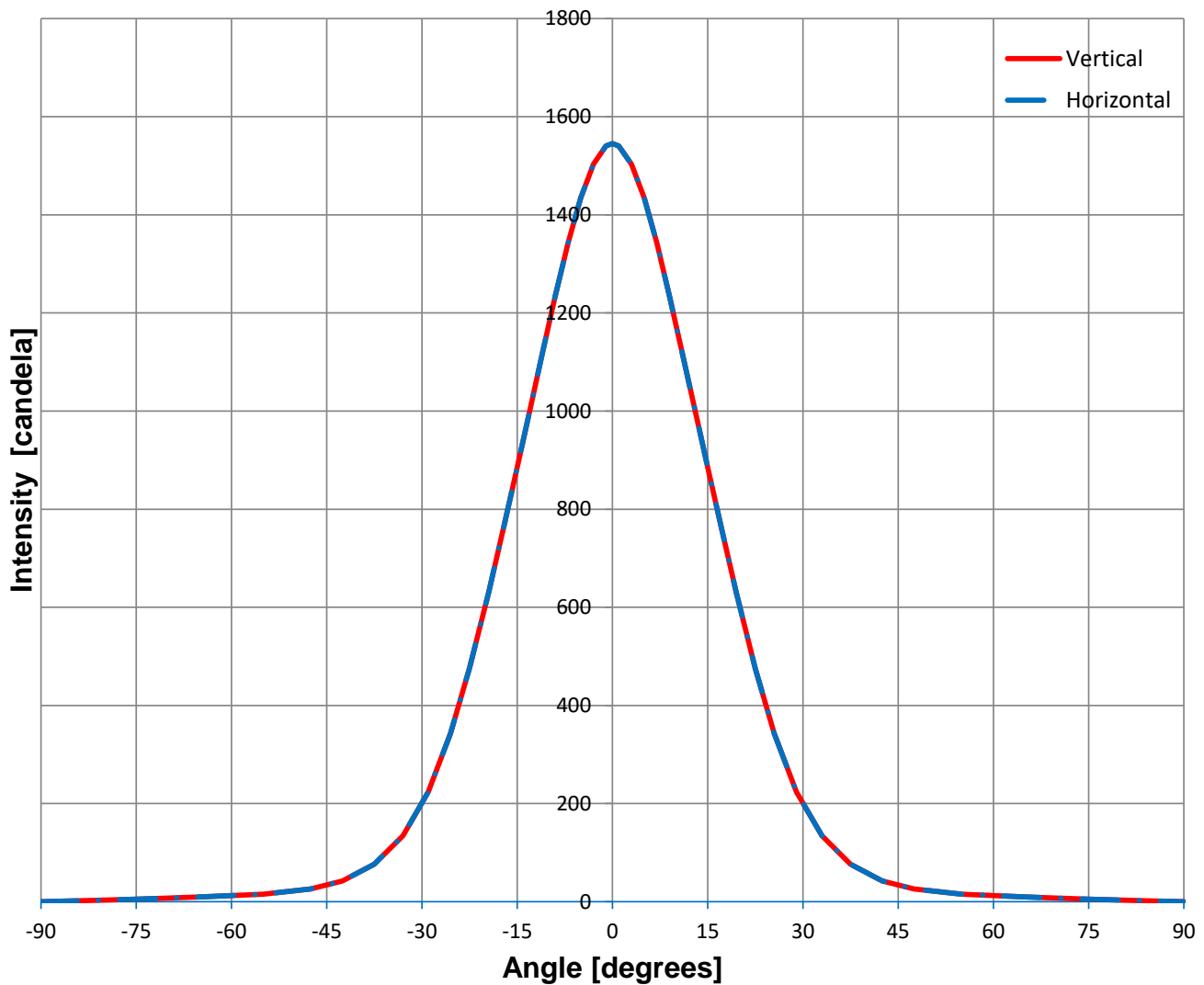
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.1 VAC	0.1116 A	13.17 W	0.983	60 Hz	12.3 %

Summary of Results

Total Lumen Output:	667.3 Lumens	Maximum Candela:	1545.2 Candela
Luminaire Efficacy:	50.7 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	560.8 Lumens	Field Angle :	64.2 H X 64.2 V
Beam Lumens:	288.7 Lumens	Beam Angle :	33.9 H X 33.9 V
Spill Light Lumens:	106.5 Lumens	IESNA Type:	4 H X 4 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	1	1	1	1	1	1	1	1	1	1	1
75.0	5	5	5	5	5	5	5	5	5	5	5
65.0	10	10	10	10	10	10	10	9	9	9	9
55.0	15	15	15	15	15	15	15	14	14	14	14
47.5	26	26	26	26	25	25	24	23	23	22	21
42.5	42	42	42	41	40	39	37	36	34	32	30
37.5	77	76	76	74	71	68	65	61	57	52	47
33.0	135	134	133	129	124	118	110	102	93	85	74
29.0	224	223	220	213	203	191	177	162	147	131	112
25.5	343	342	336	325	309	289	266	241	215	189	159
22.5	476	475	467	451	428	399	366	330	293	256	212
19.5	630	629	619	598	568	530	486	438	387	337	276
17.0	770	769	756	730	694	648	595	536	475	412	337
15.0	885	884	869	840	798	745	684	617	546	475	387
13.0	1002	1000	982	948	901	841	772	696	617	536	438
11.0	1119	1116	1096	1057	1001	933	856	772	684	595	486
9.0	1234	1231	1207	1160	1096	1020	933	841	745	648	530
7.0	1342	1338	1310	1257	1183	1096	1001	901	798	694	568
5.0	1435	1430	1398	1338	1257	1160	1057	948	840	730	598
3.0	1503	1498	1463	1398	1310	1207	1096	982	869	756	619
1.0	1540	1534	1498	1430	1338	1231	1116	1000	884	769	629
0.0	1545	1540	1503	1435	1342	1234	1119	1002	885	770	630
-1.0	1540	1534	1498	1430	1338	1231	1116	1000	884	769	629
-3.0	1503	1498	1463	1398	1310	1207	1096	982	869	756	619
-5.0	1435	1430	1398	1338	1257	1160	1057	948	840	730	598
-7.0	1342	1338	1310	1257	1183	1096	1001	901	798	694	568
-9.0	1234	1231	1207	1160	1096	1020	933	841	745	648	530
-11.0	1119	1116	1096	1057	1001	933	856	772	684	595	486
-13.0	1002	1000	982	948	901	841	772	696	617	536	438
-15.0	885	884	869	840	798	745	684	617	546	475	387
-17.0	770	769	756	730	694	648	595	536	475	412	337
-19.5	630	629	619	598	568	530	486	438	387	337	276
-22.5	476	475	467	451	428	399	366	330	293	256	212
-25.5	343	342	336	325	309	289	266	241	215	189	159
-29.0	224	223	220	213	203	191	177	162	147	131	112
-33.0	135	134	133	129	124	118	110	102	93	85	74
-37.5	77	76	76	74	71	68	65	61	57	52	47
-42.5	42	42	42	41	40	39	37	36	34	32	30
-47.5	26	26	26	26	25	25	24	23	23	22	21
-55.0	15	15	15	15	15	15	15	14	14	14	14
-65.0	10	10	10	10	10	10	10	9	9	9	9
-75.0	5	5	5	5	5	5	5	5	5	5	5
-85.0	1	1	1	1	1	1	1	1	1	1	1



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	0	0	0
75.0	5	5	4	4	4	3	3	2	2	1	0
65.0	9	9	8	8	7	7	6	5	3	2	0
55.0	13	13	12	11	11	10	9	7	5	2	1
47.5	19	18	16	15	13	12	11	9	6	3	1
42.5	27	25	22	19	16	14	12	10	7	3	1
37.5	41	35	30	24	20	16	13	11	7	4	1
33.0	62	51	41	32	24	19	15	11	8	4	1
29.0	91	73	56	41	30	22	16	12	8	4	1
25.5	127	99	73	51	35	25	18	13	9	5	1
22.5	165	127	91	62	41	27	19	13	9	5	1
19.5	212	159	112	74	47	30	21	14	9	5	1
17.0	256	189	131	85	52	32	22	14	9	5	1
15.0	293	215	147	93	57	34	23	14	9	5	1
13.0	330	241	162	102	61	36	23	14	9	5	1
11.0	366	266	177	110	65	37	24	15	10	5	1
9.0	399	289	191	118	68	39	25	15	10	5	1
7.0	428	309	203	124	71	40	25	15	10	5	1
5.0	451	325	213	129	74	41	26	15	10	5	1
3.0	467	336	220	133	76	42	26	15	10	5	1
1.0	475	342	223	134	76	42	26	15	10	5	1
0.0	476	343	224	135	77	42	26	15	10	5	1
-1.0	475	342	223	134	76	42	26	15	10	5	1
-3.0	467	336	220	133	76	42	26	15	10	5	1
-5.0	451	325	213	129	74	41	26	15	10	5	1
-7.0	428	309	203	124	71	40	25	15	10	5	1
-9.0	399	289	191	118	68	39	25	15	10	5	1
-11.0	366	266	177	110	65	37	24	15	10	5	1
-13.0	330	241	162	102	61	36	23	14	9	5	1
-15.0	293	215	147	93	57	34	23	14	9	5	1
-17.0	256	189	131	85	52	32	22	14	9	5	1
-19.5	212	159	112	74	47	30	21	14	9	5	1
-22.5	165	127	91	62	41	27	19	13	9	5	1
-25.5	127	99	73	51	35	25	18	13	9	5	1
-29.0	91	73	56	41	30	22	16	12	8	4	1
-33.0	62	51	41	32	24	19	15	11	8	4	1
-37.5	41	35	30	24	20	16	13	11	7	4	1
-42.5	27	25	22	19	16	14	12	10	7	3	1
-47.5	19	18	16	15	13	12	11	9	6	3	1
-55.0	13	13	12	11	11	10	9	7	5	2	1
-65.0	9	9	8	8	7	7	6	5	3	2	0
-75.0	5	5	4	4	4	3	3	2	2	1	0
-85.0	1	1	1	1	1	1	1	1	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)

