



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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-NSP-WHP-13-C-INC-MT-PROTO-(4000K w/ 40x1 Film)

Order Number

13742921

Test Number

13742921.05A

Revision of Test Number 13742921.05 on:

2021-04-06

Test Date

2021-04-02

Prepared By

Khang Nguyen, Technician

Approved By

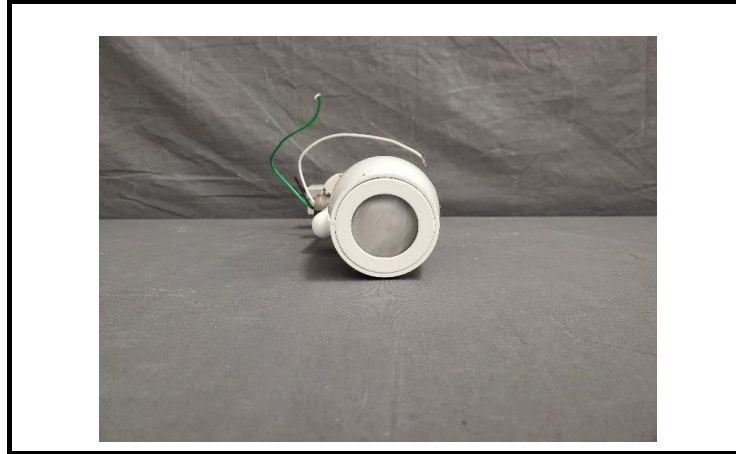
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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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:	699.9 Lumens
Luminaire Efficacy:	53.2 lm/w
Maximum Candela:	2444 Candela

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.1 VAC
Current:	0.1114 A
Power:	13.14 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.2 %

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



Distribution - Goniophotometer

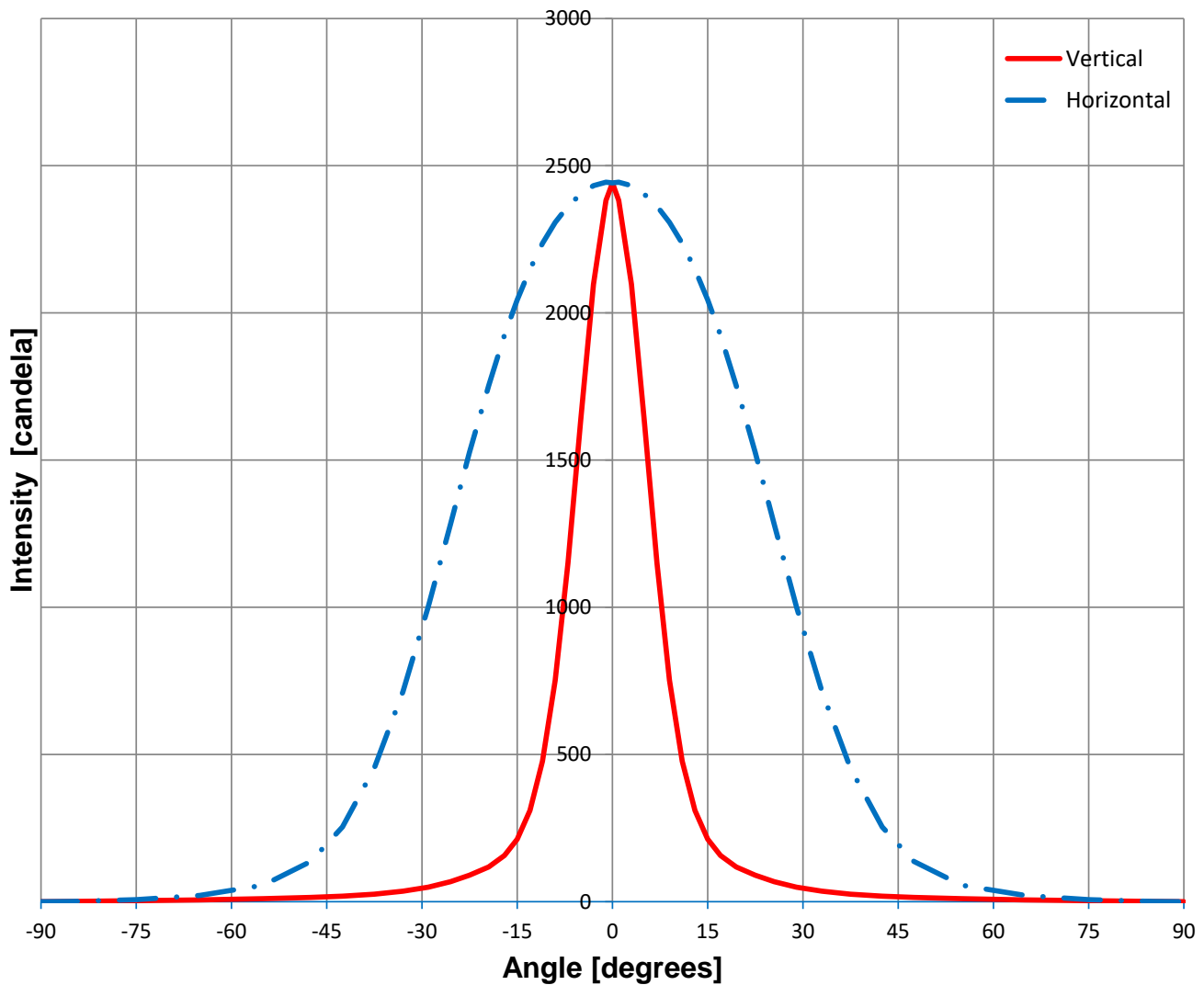
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.1114 A	13.14 W	0.983	60 Hz	12.2 %

Summary of Results

Total Lumen Output:	699.9 Lumens	Maximum Candela:	2444.1 Candela
Luminaire Efficacy:	53.2 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	552.3 Lumens	Field Angle :	85.8 H X 28.6 V
Beam Lumens:	305.9 Lumens	Beam Angle :	52.5 H X 13.4 V
Spill Light Lumens:	147.6 Lumens	IESNA Type:	5 H X 2 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	3	3	3	3	3	3	3	3	3	3	3
65.0	6	6	6	6	6	6	6	6	6	6	6
55.0	10	10	10	10	10	10	10	10	10	10	10
47.5	14	14	14	14	14	14	14	14	14	14	14
42.5	19	19	19	19	19	19	19	19	19	19	18
37.5	26	26	25	25	25	25	25	25	25	25	25
33.0	35	35	35	35	35	35	35	34	34	34	34
29.0	49	49	49	49	48	48	48	48	48	47	47
25.5	68	68	67	67	67	67	66	66	65	64	63
22.5	90	89	88	88	88	87	86	85	83	82	80
19.5	118	117	117	116	116	114	113	112	110	108	105
17.0	157	156	156	156	155	154	152	150	148	145	141
15.0	213	211	212	211	210	209	207	204	201	196	191
13.0	309	308	310	307	307	303	300	296	290	286	277
11.0	477	476	479	472	472	465	462	452	442	433	414
9.0	752	751	754	745	739	730	719	702	680	660	622
7.0	1150	1147	1147	1136	1122	1106	1081	1052	1014	972	905
5.0	1636	1636	1632	1616	1592	1560	1522	1470	1410	1339	1232
3.0	2097	2103	2093	2073	2042	1996	1942	1864	1781	1685	1534
1.0	2383	2393	2390	2364	2322	2268	2203	2113	2006	1884	1713
0.0	2441	2444	2432	2403	2363	2308	2236	2148	2045	1924	1753
-1.0	2383	2393	2390	2364	2322	2268	2203	2113	2006	1884	1713
-3.0	2097	2103	2093	2073	2042	1996	1942	1864	1781	1685	1534
-5.0	1636	1636	1632	1616	1592	1560	1522	1470	1410	1339	1232
-7.0	1150	1147	1147	1136	1122	1106	1081	1052	1014	972	905
-9.0	752	751	754	745	739	730	719	702	680	660	622
-11.0	477	476	479	472	472	465	462	452	442	433	414
-13.0	309	308	310	307	307	303	300	296	290	286	277
-15.0	213	211	212	211	210	209	207	204	201	196	191
-17.0	157	156	156	156	155	154	152	150	148	145	141
-19.5	118	117	117	116	116	114	113	112	110	108	105
-22.5	90	89	88	88	88	87	86	85	83	82	80
-25.5	68	68	67	67	67	67	66	66	65	64	63
-29.0	49	49	49	49	48	48	48	48	48	47	47
-33.0	35	35	35	35	35	35	35	34	34	34	34
-37.5	26	26	25	25	25	25	25	25	25	25	25
-42.5	19	19	19	19	19	19	19	19	19	19	18
-47.5	14	14	14	14	14	14	14	14	14	14	14
-55.0	10	10	10	10	10	10	10	10	10	10	10
-65.0	6	6	6	6	6	6	6	6	6	6	6
-75.0	3	3	3	3	3	3	3	3	3	3	3
-85.0	1	1	1	1	1	1	1	1	1	1	1



Candela Tabulation

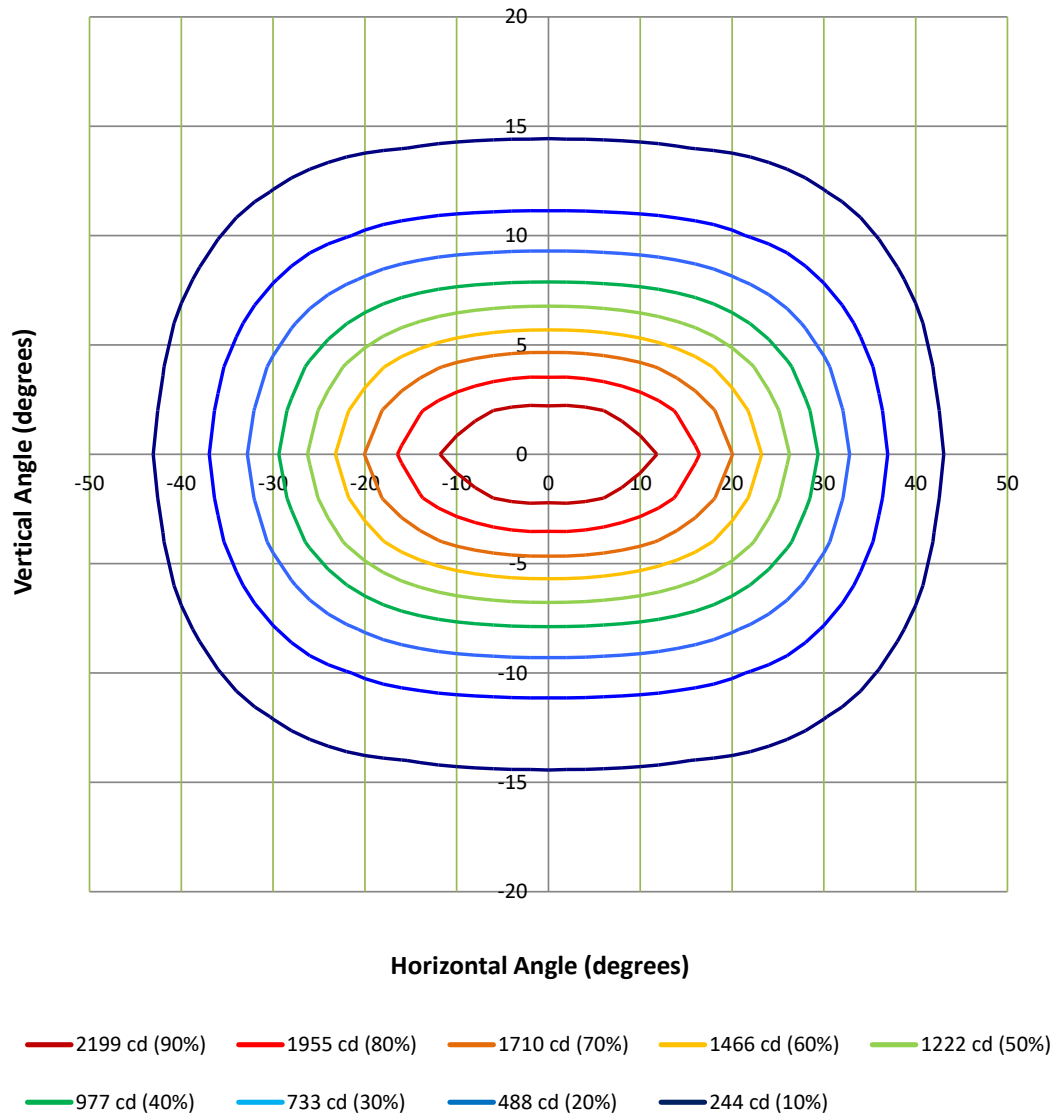
Lateral Angle (Degrees)

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	0	0	0	0
75.0	3	3	3	2	2	2	2	2	1	1	0
65.0	6	5	5	5	5	4	4	3	2	1	0
55.0	10	9	9	9	8	8	7	6	4	2	0
47.5	14	14	14	13	12	12	10	8	5	2	1
42.5	18	18	18	17	16	15	13	10	6	3	1
37.5	25	24	24	23	21	19	17	13	8	3	1
33.0	33	33	32	30	28	25	21	16	9	4	1
29.0	46	45	43	40	36	31	26	19	11	4	1
25.5	61	58	55	50	45	38	31	22	12	5	1
22.5	77	74	68	62	55	46	36	24	13	5	1
19.5	101	95	89	81	70	56	44	28	14	6	1
17.0	134	128	119	105	88	70	51	32	16	6	1
15.0	183	172	154	136	111	83	61	35	17	6	1
13.0	261	238	217	181	143	103	71	38	17	6	1
11.0	380	351	303	247	185	127	82	42	18	6	1
9.0	566	508	426	335	240	153	95	46	19	6	1
7.0	816	710	584	442	300	184	108	49	20	7	1
5.0	1092	940	750	550	363	215	120	52	20	7	1
3.0	1341	1137	904	649	413	234	127	54	20	7	1
1.0	1488	1248	975	694	441	248	134	55	21	7	1
0.0	1526	1282	1002	714	453	254	137	56	21	7	1
-1.0	1488	1248	975	694	441	248	134	55	21	7	1
-3.0	1341	1137	904	649	413	234	127	54	20	7	1
-5.0	1092	940	750	550	363	215	120	52	20	7	1
-7.0	816	710	584	442	300	184	108	49	20	7	1
-9.0	566	508	426	335	240	153	95	46	19	6	1
-11.0	380	351	303	247	185	127	82	42	18	6	1
-13.0	261	238	217	181	143	103	71	38	17	6	1
-15.0	183	172	154	136	111	83	61	35	17	6	1
-17.0	134	128	119	105	88	70	51	32	16	6	1
-19.5	101	95	89	81	70	56	44	28	14	6	1
-22.5	77	74	68	62	55	46	36	24	13	5	1
-25.5	61	58	55	50	45	38	31	22	12	5	1
-29.0	46	45	43	40	36	31	26	19	11	4	1
-33.0	33	33	32	30	28	25	21	16	9	4	1
-37.5	25	24	24	23	21	19	17	13	8	3	1
42.5	18	18	18	17	16	15	13	10	6	3	1
-47.5	14	14	14	13	12	12	10	8	5	2	1
-55.0	10	9	9	9	8	8	7	6	4	2	0
-65.0	6	5	5	5	5	4	4	3	2	1	0
-75.0	3	3	3	2	2	2	2	2	1	1	0
-85.0	1	1	1	1	1	1	1	0	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)





Attachment A

Amended Report Documentation

[illegible]