



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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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
Mandera, CA 93636-9515
United States

Catalog Number
RI-LED-TR-E133-VNSP-WHP-9-C-INC-MT-PROTO(4000K)

Order Number
13843341
Test Number
13843341.01

Test Date

2021-07-01

Prepared By

Austin Duff, Technician

Approved By

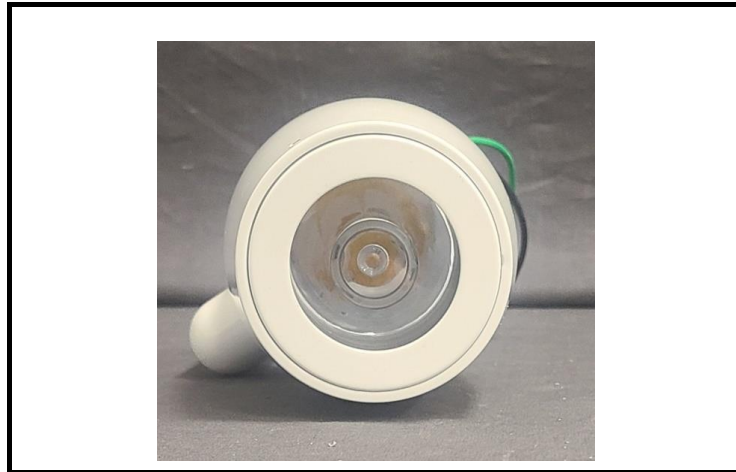
Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with clear glass lens
Lamp: One (1) White LEDs with optic below
Mounting: Pendant
Ballast/Driver: PS60U1000C14R

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	807.9 Lumens
Luminaire Efficacy:	55.4 lm/w
Maximum Candela:	39163 Candela

Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.1 VAC
Current:	0.1236 A
Power:	14.58 W
Power Factor:	0.982
Frequency:	60 Hz
Current THD:	14.0 %

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



Distribution - Goniophotometer

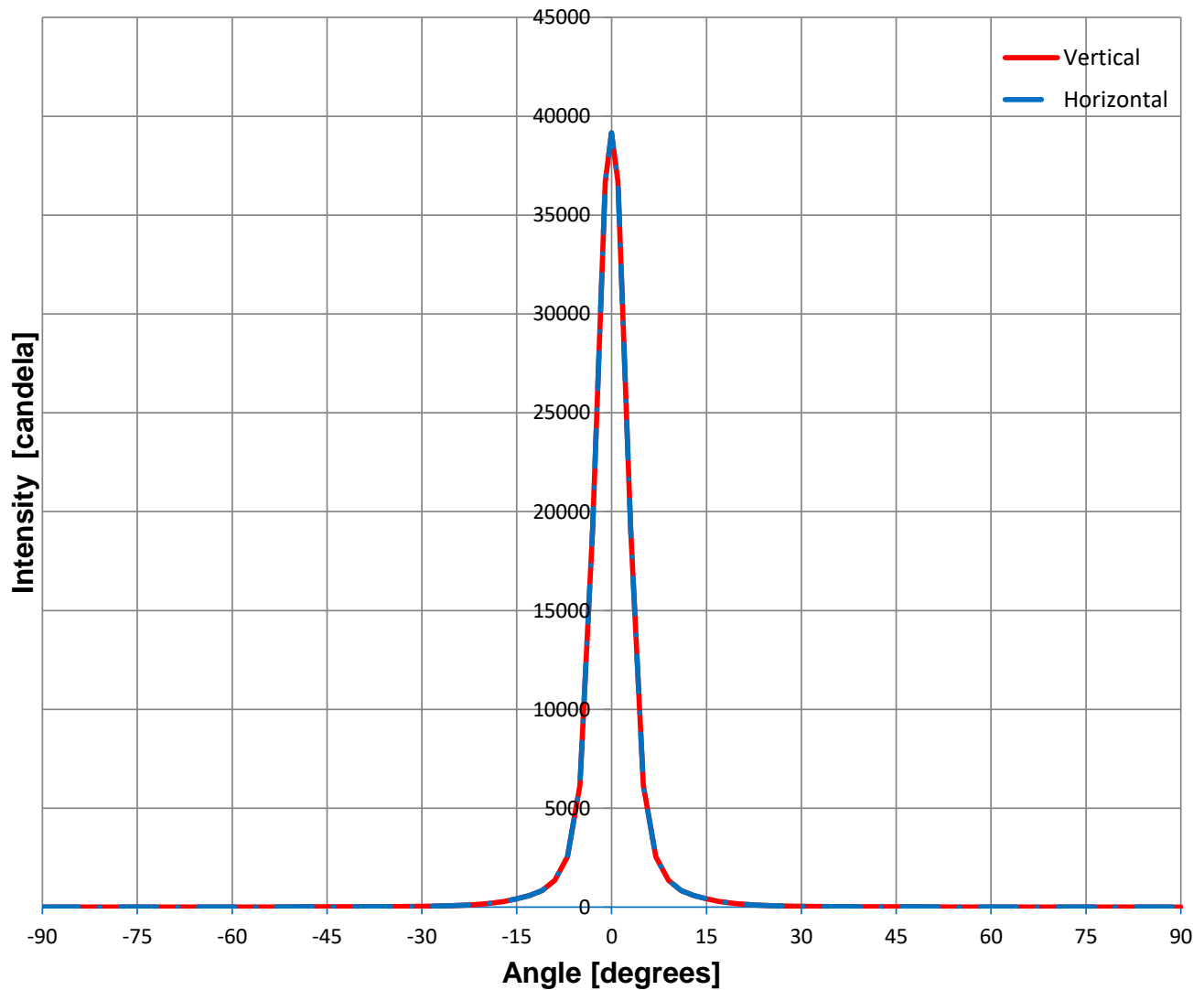
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.1 VAC	0.1236 A	14.58 W	0.982	60 Hz	14.0 %

Summary of Results

Total Lumen Output:	807.9 Lumens	Maximum Candela:	39162.8 Candela
Luminaire Efficacy:	55.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	493.0 Lumens	Field Angle :	12.5 H X 12.5 V
Beam Lumens:	170.3 Lumens	Beam Angle :	5.9 H X 5.9 V
Spill Light Lumens:	314.9 Lumens	IESNA Type:	1 H X 1 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	8	8	8	8	8	8	8	8	8	7	7
65.0	10	10	10	10	10	10	10	10	9	9	9
55.0	10	10	10	10	10	10	10	10	10	10	10
47.5	12	12	12	12	12	12	12	12	11	11	11
42.5	14	14	13	13	13	13	13	13	13	13	12
37.5	23	23	23	22	20	19	17	16	15	14	14
33.0	31	31	31	31	31	31	31	31	32	28	22
29.0	39	39	38	38	36	35	34	33	32	31	31
25.5	67	67	66	63	59	54	48	42	38	35	32
22.5	109	109	106	101	93	83	73	64	55	45	37
19.5	176	176	170	159	145	129	113	96	80	66	50
17.0	284	282	270	247	217	186	157	132	109	87	66
15.0	426	423	404	367	316	260	210	169	135	109	80
13.0	581	578	554	507	445	369	286	219	169	132	96
11.0	835	829	777	681	580	486	388	286	210	157	113
9.0	1348	1331	1201	984	779	613	486	369	260	186	129
7.0	2545	2493	2095	1535	1077	779	580	445	316	217	145
5.0	6146	5913	4196	2496	1535	984	681	507	367	247	159
3.0	19103	17773	9749	4196	2095	1201	777	554	404	270	170
1.0	36679	33337	17773	5913	2493	1331	829	578	423	282	176
0.0	39163	36679	19103	6146	2545	1348	835	581	426	284	176
-1.0	36679	33337	17773	5913	2493	1331	829	578	423	282	176
-3.0	19103	17773	9749	4196	2095	1201	777	554	404	270	170
-5.0	6146	5913	4196	2496	1535	984	681	507	367	247	159
-7.0	2545	2493	2095	1535	1077	779	580	445	316	217	145
-9.0	1348	1331	1201	984	779	613	486	369	260	186	129
-11.0	835	829	777	681	580	486	388	286	210	157	113
-13.0	581	578	554	507	445	369	286	219	169	132	96
-15.0	426	423	404	367	316	260	210	169	135	109	80
-17.0	284	282	270	247	217	186	157	132	109	87	66
-19.5	176	176	170	159	145	129	113	96	80	66	50
-22.5	109	109	106	101	93	83	73	64	55	45	37
-25.5	67	67	66	63	59	54	48	42	38	35	32
-29.0	39	39	38	38	36	35	34	33	32	31	31
-33.0	31	31	31	31	31	31	31	31	32	28	22
-37.5	23	23	23	22	20	19	17	16	15	14	14
-42.5	14	14	13	13	13	13	13	13	13	13	12
-47.5	12	12	12	12	12	12	12	12	11	11	11
-55.0	10	10	10	10	10	10	10	10	10	10	10
-65.0	10	10	10	10	10	10	10	10	9	9	9
-75.0	8	8	8	8	8	8	8	8	8	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)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	5	5	4	4	4	4	4	3	3	3	1
75.0	7	7	7	7	7	7	7	6	6	4	3
65.0	9	9	9	9	9	8	8	7	7	6	3
55.0	10	10	10	11	11	10	9	9	7	6	3
47.5	10	10	10	10	10	11	11	9	8	7	4
42.5	12	12	11	10	10	10	11	10	8	7	4
37.5	13	13	12	12	11	10	10	11	9	7	4
33.0	16	14	13	13	12	10	10	11	9	7	4
29.0	32	21	15	13	12	11	10	10	9	7	4
25.5	31	32	21	14	13	12	10	10	9	7	5
22.5	33	31	32	16	13	12	10	10	9	7	5
19.5	37	32	31	22	14	12	11	10	9	7	5
17.0	45	35	31	28	14	13	11	10	9	7	5
15.0	55	38	32	32	15	13	11	10	9	8	5
13.0	64	42	33	31	16	13	12	10	10	8	5
11.0	73	48	34	31	17	13	12	10	10	8	5
9.0	83	54	35	31	19	13	12	10	10	8	5
7.0	93	59	36	31	20	13	12	10	10	8	5
5.0	101	63	38	31	22	13	12	10	10	8	5
3.0	106	66	38	31	23	13	12	10	10	8	5
1.0	109	67	39	31	23	14	12	10	10	8	5
0.0	109	67	39	31	23	14	12	10	10	8	5
-1.0	109	67	39	31	23	14	12	10	10	8	5
-3.0	106	66	38	31	23	13	12	10	10	8	5
-5.0	101	63	38	31	22	13	12	10	10	8	5
-7.0	93	59	36	31	20	13	12	10	10	8	5
-9.0	83	54	35	31	19	13	12	10	10	8	5
-11.0	73	48	34	31	17	13	12	10	10	8	5
-13.0	64	42	33	31	16	13	12	10	10	8	5
-15.0	55	38	32	32	15	13	11	10	9	8	5
-17.0	45	35	31	28	14	13	11	10	9	7	5
-19.5	37	32	31	22	14	12	11	10	9	7	5
-22.5	33	31	32	16	13	12	10	10	9	7	5
-25.5	31	32	21	14	13	12	10	10	9	7	5
-29.0	32	21	15	13	12	11	10	10	9	7	4
-33.0	16	14	13	13	12	10	10	11	9	7	4
-37.5	13	13	12	12	11	10	10	11	9	7	4
-42.5	12	12	11	10	10	10	11	10	8	7	4
-47.5	10	10	10	10	10	11	11	9	8	7	4
-55.0	10	10	10	11	11	10	9	9	7	6	3
-65.0	9	9	9	9	9	8	8	7	7	6	3
-75.0	7	7	7	7	7	7	7	6	6	4	3
-85.0	5	5	4	4	4	4	4	3	3	3	1



Isocandela Diagram (Percent of Maximum Intensity)

