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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

DI-LED-TR-e153-10°-NSP-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.19

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

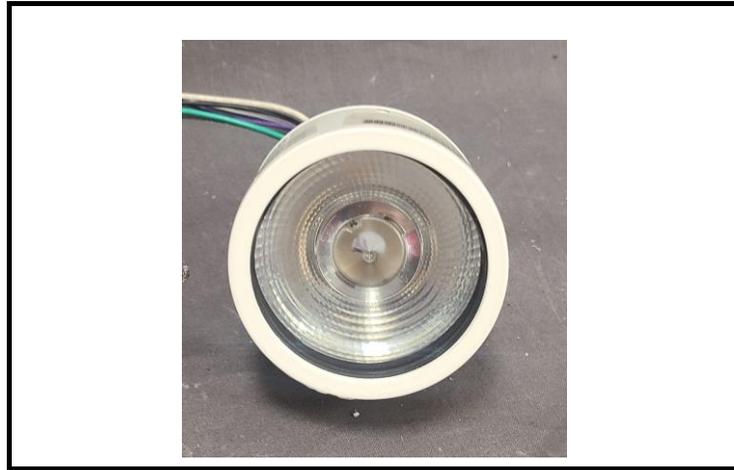
Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular white metal housing with glass lens
Lamp: One (1) LED
Mounting: Pendant
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics
 Luminous Diameter: 2.50 in.

Summary of Results

Total Luminaire Output:	498.8 Lumens
Luminaire Efficacy:	53.4 lm/w
Maximum Candela:	7067 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.08000 A
Power:	9.347 W
Power Factor:	0.973
Frequency:	60 Hz
Current THD:	19.4 %

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

Distribution - Goniophotometer

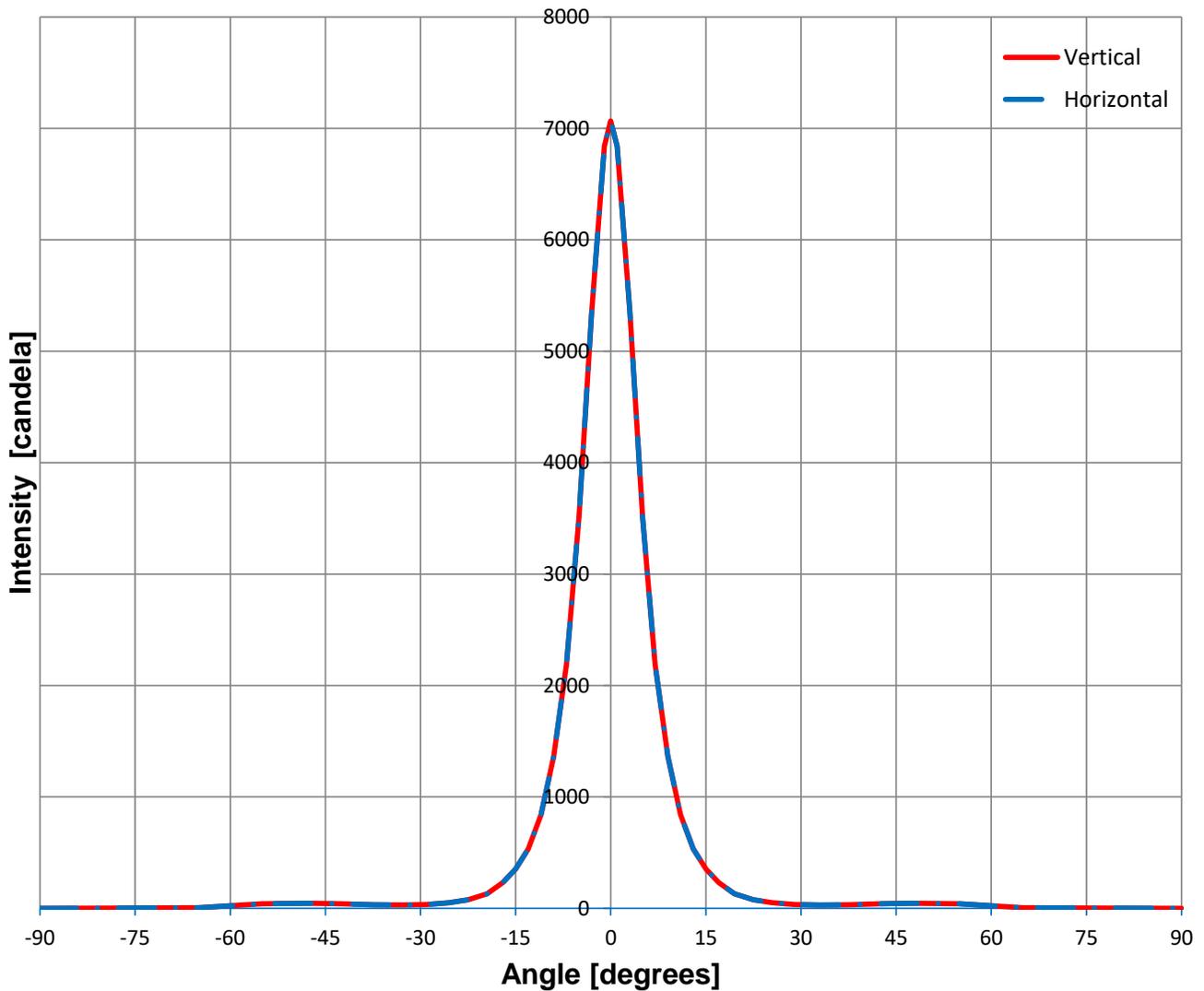
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.08000 A	9.347 W	0.973	60 Hz	19.4 %

Summary of Results

Total Lumen Output:	498.8 Lumens	Maximum Candela:	7067.0 Candela
Luminaire Efficacy:	53.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	293.5 Lumens	Field Angle :	23.7 H X 23.7 V
Beam Lumens:	104.1 Lumens	Beam Angle :	9.9 H X 9.9 V
Spill Light Lumens:	205.3 Lumens	IESNA Type:	2 H X 2 V

Maximum Candlepower Plot



Candela Tabulation
Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	2	2	2	2	2	1	1	1	1	1	1
75.0	2	2	2	2	2	2	2	2	2	2	2
65.0	6	6	6	6	6	6	5	5	5	5	5
55.0	42	42	42	42	42	41	41	40	39	39	37
47.5	47	47	47	47	47	47	47	47	47	47	47
42.5	41	41	41	42	42	42	43	44	44	45	46
37.5	32	32	33	33	33	34	35	36	37	38	40
33.0	29	29	29	29	29	29	29	30	30	31	33
29.0	35	35	35	34	33	32	31	30	30	29	29
25.5	51	51	50	48	45	42	40	37	34	32	30
22.5	78	78	76	72	67	61	55	49	43	38	34
19.5	131	130	125	116	105	93	81	69	59	50	41
17.0	230	229	218	196	169	140	115	94	78	64	50
15.0	353	350	333	300	257	209	162	124	97	78	59
13.0	534	530	500	441	374	302	232	170	124	94	69
11.0	839	831	770	656	532	418	319	232	162	115	81
9.0	1367	1350	1223	1004	772	573	418	302	209	140	93
7.0	2190	2158	1911	1516	1103	772	532	374	257	169	105
5.0	3507	3434	2892	2160	1516	1004	656	441	300	196	116
3.0	5352	5197	4184	2892	1911	1223	770	500	333	218	125
1.0	6841	6584	5197	3434	2158	1350	831	530	350	229	130
0.0	7067	6841	5352	3507	2190	1367	839	534	353	230	131
-1.0	6841	6584	5197	3434	2158	1350	831	530	350	229	130
-3.0	5352	5197	4184	2892	1911	1223	770	500	333	218	125
-5.0	3507	3434	2892	2160	1516	1004	656	441	300	196	116
-7.0	2190	2158	1911	1516	1103	772	532	374	257	169	105
-9.0	1367	1350	1223	1004	772	573	418	302	209	140	93
-11.0	839	831	770	656	532	418	319	232	162	115	81
-13.0	534	530	500	441	374	302	232	170	124	94	69
-15.0	353	350	333	300	257	209	162	124	97	78	59
-17.0	230	229	218	196	169	140	115	94	78	64	50
-19.5	131	130	125	116	105	93	81	69	59	50	41
-22.5	78	78	76	72	67	61	55	49	43	38	34
-25.5	51	51	50	48	45	42	40	37	34	32	30
-29.0	35	35	35	34	33	32	31	30	30	29	29
-33.0	29	29	29	29	29	29	29	30	30	31	33
-37.5	32	32	33	33	33	34	35	36	37	38	40
-42.5	41	41	41	42	42	42	43	44	44	45	46
-47.5	47	47	47	47	47	47	47	47	47	47	47
-55.0	42	42	42	42	42	41	41	40	39	39	37
-65.0	6	6	6	6	6	6	5	5	5	5	5
-75.0	2	2	2	2	2	2	2	2	2	2	2
-85.0	2	2	2	2	2	1	1	1	1	1	1

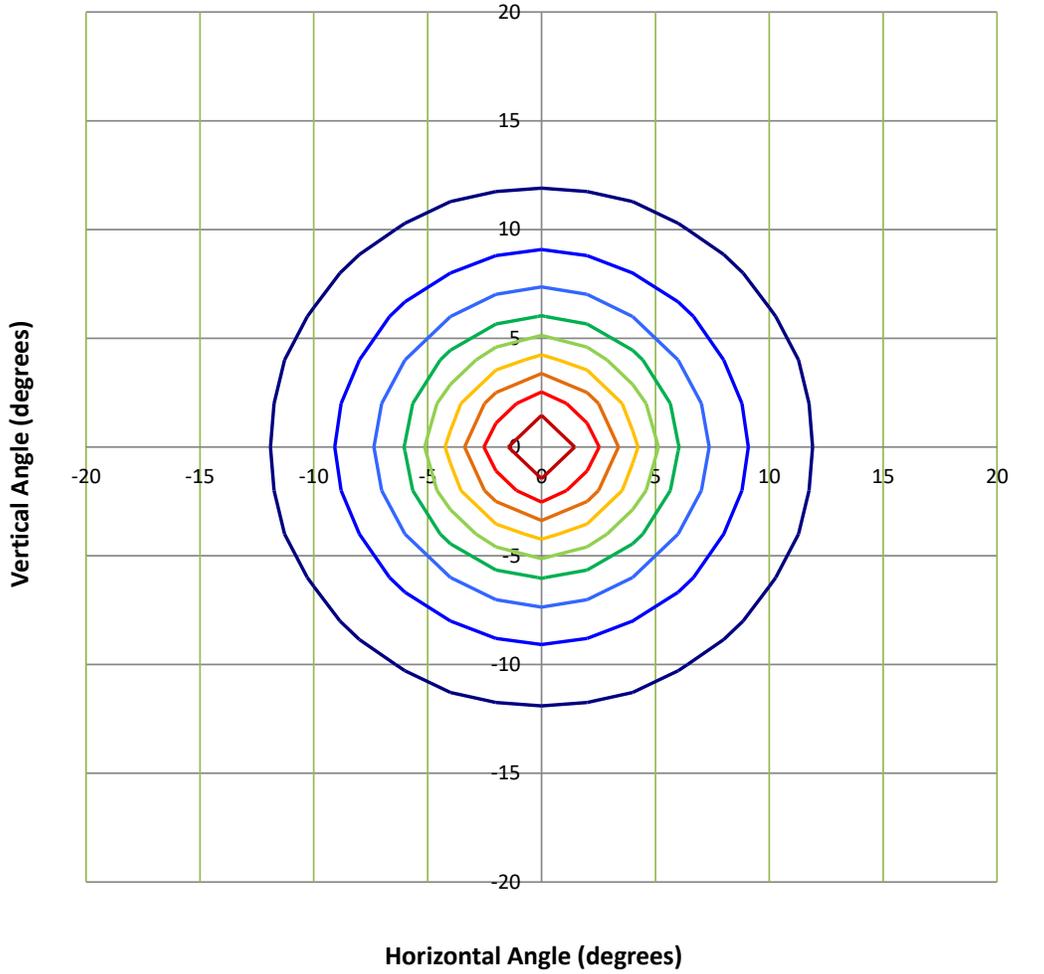
Vertical Angle (Degrees)

Candela Tabulation
Lateral 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	1	0	0
75.0	2	2	2	2	2	2	2	2	2	1	0
65.0	4	4	4	3	3	3	3	2	2	2	1
55.0	36	33	30	25	15	6	4	3	2	2	1
47.5	47	46	44	41	37	30	15	4	3	2	1
42.5	46	47	47	46	44	38	30	6	3	2	1
37.5	42	44	46	47	47	44	37	15	3	2	1
33.0	35	38	42	45	47	46	41	25	3	2	1
29.0	31	33	37	42	46	47	44	30	4	2	1
25.5	29	30	33	38	44	47	46	33	4	2	1
22.5	31	29	31	35	42	46	47	36	4	2	1
19.5	34	30	29	33	40	46	47	37	5	2	1
17.0	38	32	29	31	38	45	47	39	5	2	1
15.0	43	34	30	30	37	44	47	39	5	2	1
13.0	49	37	30	30	36	44	47	40	5	2	1
11.0	55	40	31	29	35	43	47	41	5	2	1
9.0	61	42	32	29	34	42	47	41	6	2	1
7.0	67	45	33	29	33	42	47	42	6	2	2
5.0	72	48	34	29	33	42	47	42	6	2	2
3.0	76	50	35	29	33	41	47	42	6	2	2
1.0	78	51	35	29	32	41	47	42	6	2	2
0.0	78	51	35	29	32	41	47	42	6	2	2
-1.0	78	51	35	29	32	41	47	42	6	2	2
-3.0	76	50	35	29	33	41	47	42	6	2	2
-5.0	72	48	34	29	33	42	47	42	6	2	2
-7.0	67	45	33	29	33	42	47	42	6	2	2
-9.0	61	42	32	29	34	42	47	41	6	2	1
-11.0	55	40	31	29	35	43	47	41	5	2	1
-13.0	49	37	30	30	36	44	47	40	5	2	1
-15.0	43	34	30	30	37	44	47	39	5	2	1
-17.0	38	32	29	31	38	45	47	39	5	2	1
-19.5	34	30	29	33	40	46	47	37	5	2	1
-22.5	31	29	31	35	42	46	47	36	4	2	1
-25.5	29	30	33	38	44	47	46	33	4	2	1
-29.0	31	33	37	42	46	47	44	30	4	2	1
-33.0	35	38	42	45	47	46	41	25	3	2	1
-37.5	42	44	46	47	47	44	37	15	3	2	1
-42.5	46	47	47	46	44	38	30	6	3	2	1
-47.5	47	46	44	41	37	30	15	4	3	2	1
-55.0	36	33	30	25	15	6	4	3	2	2	1
-65.0	4	4	4	3	3	3	3	2	2	2	1
-75.0	2	2	2	2	2	2	2	2	2	1	0
-85.0	1	1	1	1	1	1	1	1	1	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| — 6360 cd (90%) | — 5653 cd (80%) | — 4946 cd (70%) | — 4240 cd (60%) | — 3533 cd (50%) |
| — 2826 cd (40%) | — 2120 cd (30%) | — 1413 cd (20%) | — 706 cd (10%) | |