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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-e153-30°-NFL-WHP-C-INC-MT

Order Number
14327079
Test Number
14327079.21

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

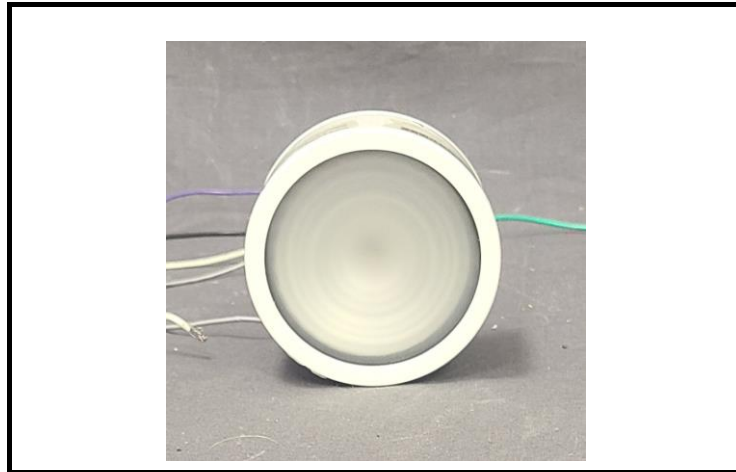
Approved By

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:	451.7 Lumens
Luminaire Efficacy:	48.5 lm/w
Maximum Candela:	916 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.07977 A
Power:	9.320 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

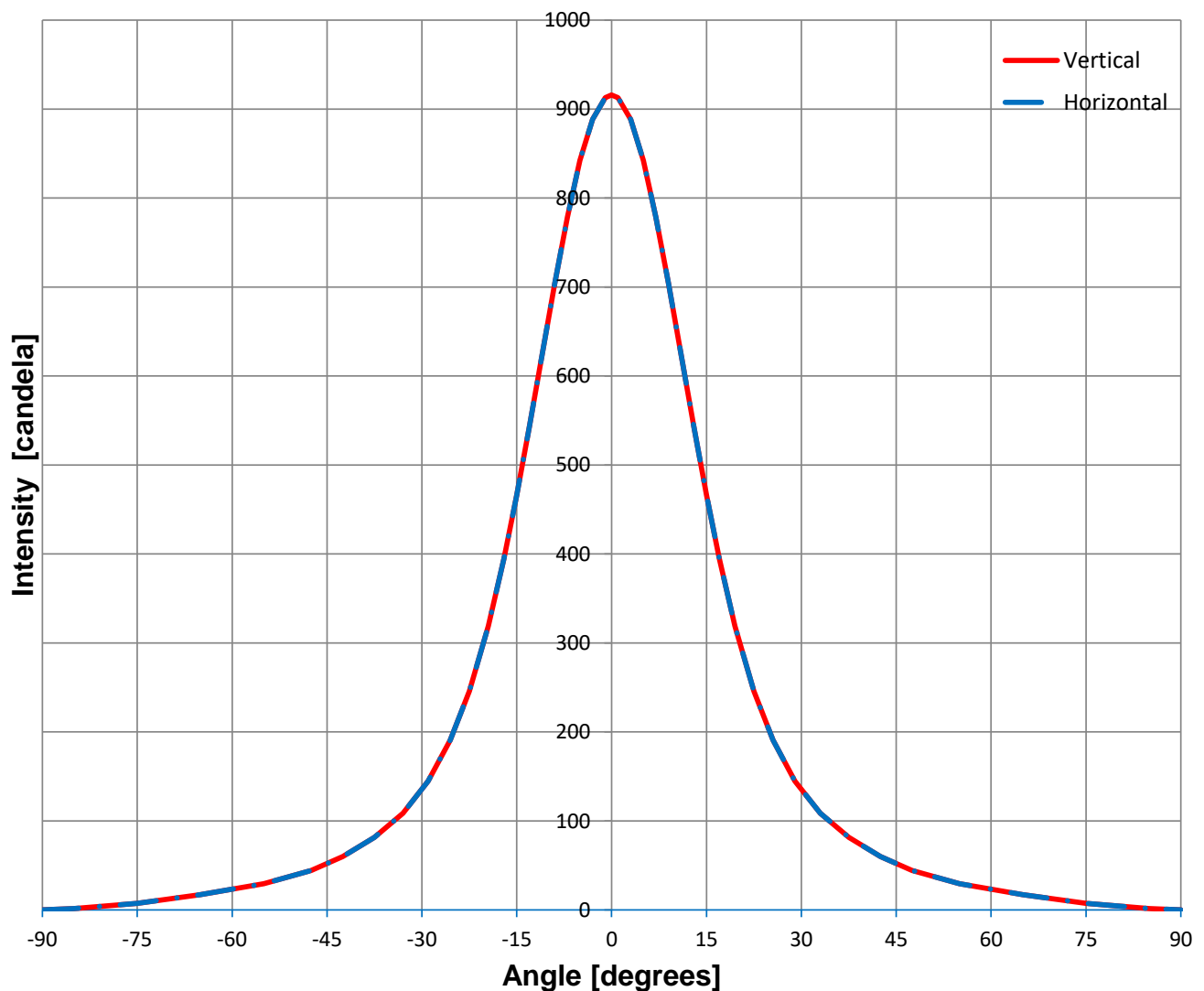
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.07977 A	9.320 W	0.973	60 Hz	19.4 %

Summary of Results

Total Lumen Output:	451.7 Lumens	Maximum Candela:	915.9 Candela
Luminaire Efficacy:	48.5 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	334.1 Lumens	Field Angle :	71.7 H X 71.7 V
Beam Lumens:	142.2 Lumens	Beam Angle :	30.4 H X 30.4 V
Spill Light Lumens:	117.6 Lumens	IESNA Type:	5 H X 5 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	7	7	7	7	7	7	7	7	7	7	7
65.0	17	17	17	17	17	17	17	17	16	16	16
55.0	30	30	29	29	29	29	28	28	28	27	26
47.5	44	44	44	44	43	43	42	41	40	39	38
42.5	60	60	60	59	58	57	56	54	53	51	48
37.5	82	82	81	80	79	77	75	73	70	67	63
33.0	109	109	108	106	104	101	98	94	90	86	80
29.0	145	144	143	141	137	132	126	120	114	107	99
25.5	191	191	188	184	178	170	161	151	141	131	119
22.5	246	246	242	235	226	214	200	186	171	157	140
19.5	319	318	313	302	288	270	251	230	209	189	165
17.0	395	394	387	373	352	328	301	273	245	219	189
15.0	466	465	455	437	412	381	347	312	278	245	209
13.0	543	541	530	507	476	438	396	354	312	273	230
11.0	624	622	608	580	542	497	447	396	347	301	251
9.0	704	702	685	653	608	555	497	438	381	328	270
7.0	779	776	757	720	669	608	542	476	412	352	288
5.0	842	839	818	776	720	653	580	507	437	373	302
3.0	888	885	862	818	757	685	608	530	455	387	313
1.0	913	909	885	839	776	702	622	541	465	394	318
0.0	916	913	888	842	779	704	624	543	466	395	319
-1.0	913	909	885	839	776	702	622	541	465	394	318
-3.0	888	885	862	818	757	685	608	530	455	387	313
-5.0	842	839	818	776	720	653	580	507	437	373	302
-7.0	779	776	757	720	669	608	542	476	412	352	288
-9.0	704	702	685	653	608	555	497	438	381	328	270
-11.0	624	622	608	580	542	497	447	396	347	301	251
-13.0	543	541	530	507	476	438	396	354	312	273	230
-15.0	466	465	455	437	412	381	347	312	278	245	209
-17.0	395	394	387	373	352	328	301	273	245	219	189
-19.5	319	318	313	302	288	270	251	230	209	189	165
-22.5	246	246	242	235	226	214	200	186	171	157	140
-25.5	191	191	188	184	178	170	161	151	141	131	119
-29.0	145	144	143	141	137	132	126	120	114	107	99
-33.0	109	109	108	106	104	101	98	94	90	86	80
-37.5	82	82	81	80	79	77	75	73	70	67	63
-42.5	60	60	60	59	58	57	56	54	53	51	48
-47.5	44	44	44	44	43	43	42	41	40	39	38
-55.0	30	30	29	29	29	29	28	28	28	27	26
-65.0	17	17	17	17	17	17	17	17	16	16	16
-75.0	7	7	7	7	7	7	7	7	7	7	7
-85.0	1	1	1	1	1	1	1	1	1	1	1

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	6	6	6	5	5	4	4	3	2	1	0
65.0	15	15	14	13	12	10	9	7	4	2	1
55.0	25	24	23	21	20	17	15	11	7	3	1
47.5	36	34	31	29	26	23	20	15	9	4	1
42.5	45	42	39	35	31	27	23	17	10	4	1
37.5	59	54	48	42	36	31	26	20	12	5	1
33.0	73	66	59	50	42	35	29	21	13	5	1
29.0	89	80	69	59	48	39	31	23	14	6	1
25.5	105	93	80	66	54	42	34	24	15	6	1
22.5	122	105	89	73	59	45	36	25	15	6	1
19.5	140	119	99	80	63	48	38	26	16	7	1
17.0	157	131	107	86	67	51	39	27	16	7	1
15.0	171	141	114	90	70	53	40	28	16	7	1
13.0	186	151	120	94	73	54	41	28	17	7	1
11.0	200	161	126	98	75	56	42	28	17	7	1
9.0	214	170	132	101	77	57	43	29	17	7	1
7.0	226	178	137	104	79	58	43	29	17	7	1
5.0	235	184	141	106	80	59	44	29	17	7	1
3.0	242	188	143	108	81	60	44	29	17	7	1
1.0	246	191	144	109	82	60	44	30	17	7	1
0.0	246	191	145	109	82	60	44	30	17	7	1
-1.0	246	191	144	109	82	60	44	30	17	7	1
-3.0	242	188	143	108	81	60	44	29	17	7	1
-5.0	235	184	141	106	80	59	44	29	17	7	1
-7.0	226	178	137	104	79	58	43	29	17	7	1
-9.0	214	170	132	101	77	57	43	29	17	7	1
-11.0	200	161	126	98	75	56	42	28	17	7	1
-13.0	186	151	120	94	73	54	41	28	17	7	1
-15.0	171	141	114	90	70	53	40	28	16	7	1
-17.0	157	131	107	86	67	51	39	27	16	7	1
-19.5	140	119	99	80	63	48	38	26	16	7	1
-22.5	122	105	89	73	59	45	36	25	15	6	1
-25.5	105	93	80	66	54	42	34	24	15	6	1
-29.0	89	80	69	59	48	39	31	23	14	6	1
-33.0	73	66	59	50	42	35	29	21	13	5	1
-37.5	59	54	48	42	36	31	26	20	12	5	1
-42.5	45	42	39	35	31	27	23	17	10	4	1
-47.5	36	34	31	29	26	23	20	15	9	4	1
-55.0	25	24	23	21	20	17	15	11	7	3	1
-65.0	15	15	14	13	12	10	9	7	4	2	1
-75.0	6	6	6	5	5	4	4	3	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)

