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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

OR-LED-e117-VNSP-WHP-9-EL-YM-MT(5000K)

Order Number
14151565
Test Number
14151565.11

Test Date

2022-01-05

Prepared By

Austin Duff, Technician

Approved By

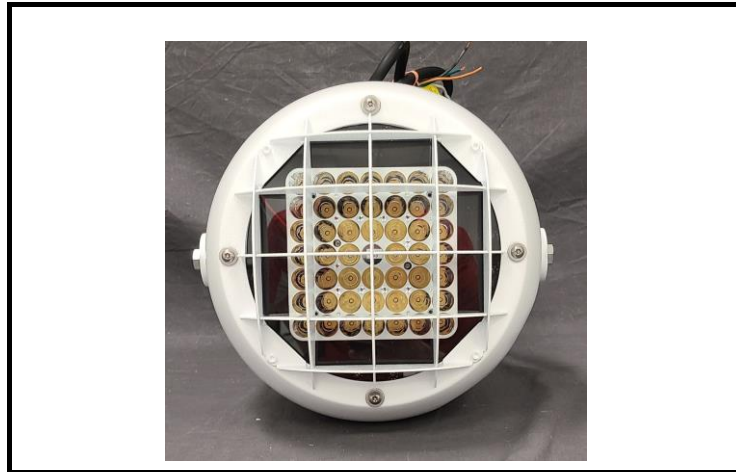
Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white metal housing with eggcrate louver and glass lens
Lamp: 49 White LED with optic below
Mounting: Pole/Arm
Ballast/Driver: DELTA USCI-200140GA

Luminaire



Luminaire Characteristics

Luminous Diameter: 9.00 in.
Luminous Height: 2.500 in.

Summary of Results

Total Luminaire Output:	8320 Lumens
Luminaire Efficacy:	92.6 lm/w
Maximum Candela:	161869 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.7703 A
Power:	89.88 W
Power Factor:	0.972
Frequency:	60 Hz
Current THD:	21.9 %

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



Distribution - Goniophotometer

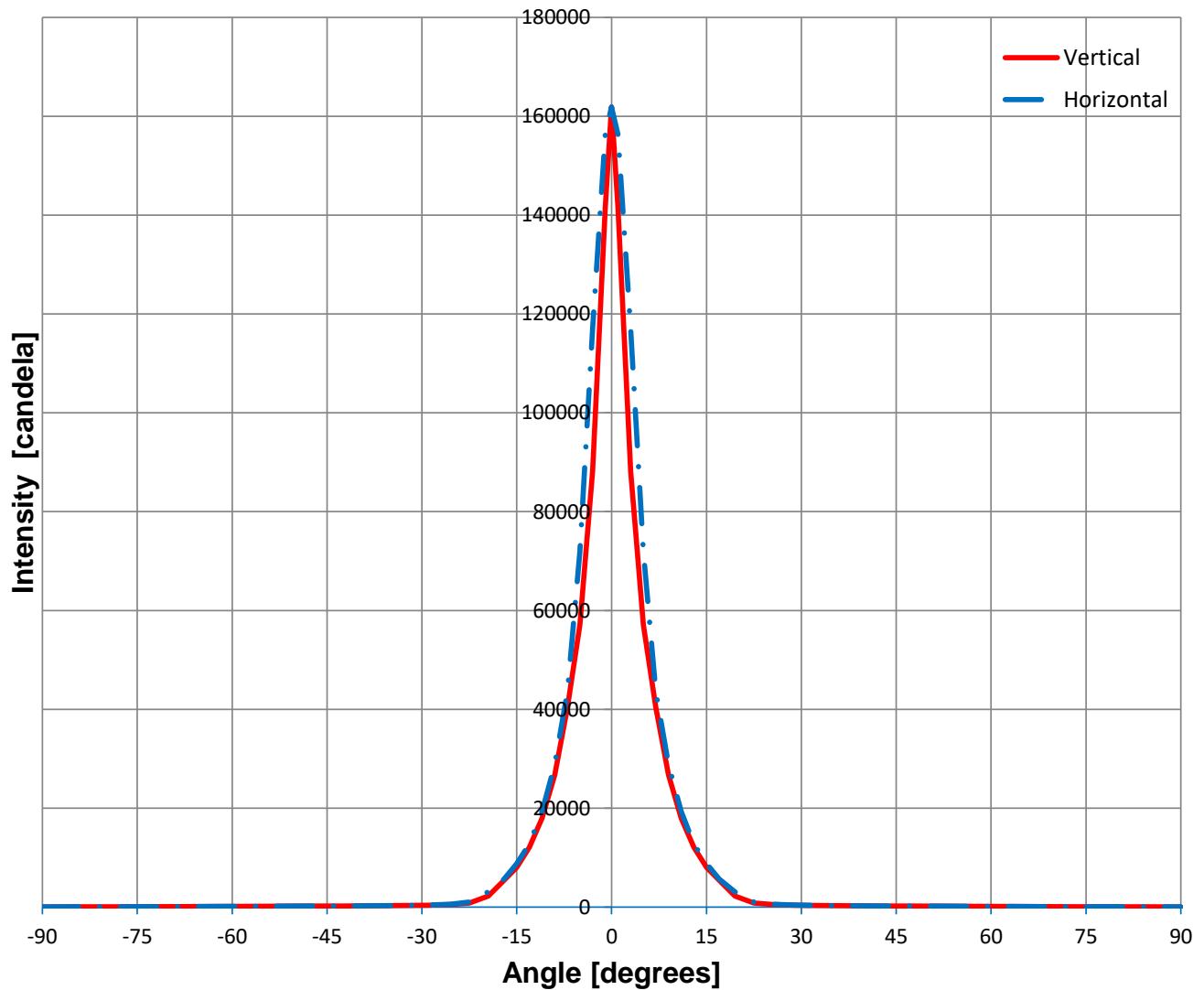
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.7703 A	89.88 W	0.972	60 Hz	21.9 %

Summary of Results

Total Lumen Output:	8319.7 Lumens	Maximum Candela:	161868.9 Candela
Luminaire Efficacy:	92.6 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	5625.0 Lumens	Field Angle :	23.9 H X 23.2 V
Beam Lumens:	1712.2 Lumens	Beam Angle :	9.2 H X 6.9 V
Spill Light Lumens:	2694.7 Lumens	IESNA Type:	2 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	44	44	45	45	45	44	44	44	43	43	42
75.0	72	73	73	74	73	73	73	73	73	72	72
65.0	108	108	109	109	108	108	107	107	106	106	104
55.0	156	156	156	155	154	153	151	150	149	147	145
47.5	200	199	199	197	195	193	190	187	185	183	180
42.5	233	232	231	227	223	219	215	211	208	205	201
37.5	276	275	271	263	254	246	238	232	227	223	218
33.0	321	320	318	308	296	284	274	266	260	251	240
29.0	391	388	381	366	349	331	314	299	287	275	262
25.5	515	511	493	460	424	386	356	332	314	299	286
22.5	810	804	752	653	580	502	440	392	354	327	304
19.5	2231	2224	2041	1688	1336	992	713	543	442	386	339
17.0	5405	5376	4982	4186	3203	2225	1471	967	660	483	393
15.0	8000	7978	7526	6569	5285	3869	2616	1658	1007	686	460
13.0	12079	12041	11150	9450	7540	5663	4047	2721	1701	1024	604
11.0	18010	18009	16661	14070	10998	8098	5823	4041	2710	1634	841
9.0	26730	26700	24433	20336	15792	11435	8129	5686	3884	2516	1187
7.0	40380	40480	36142	28950	21804	15686	10901	7731	5293	3543	1717
5.0	57107	57379	51934	41855	29981	20815	14449	9973	6843	4580	2375
3.0	88151	92515	76690	52836	38737	25588	17472	11787	8113	5353	2856
1.0	141562	145633	110614	68257	43079	28236	18953	12609	8702	5651	3059
0.0	161869	156329	116942	71969	43620	28877	19333	12754	8772	5662	3076
-1.0	141562	145633	110614	68257	43079	28236	18953	12609	8702	5651	3059
-3.0	88151	92515	76690	52836	38737	25588	17472	11787	8113	5353	2856
-5.0	57107	57379	51934	41855	29981	20815	14449	9973	6843	4580	2375
-7.0	40380	40480	36142	28950	21804	15686	10901	7731	5293	3543	1717
-9.0	26730	26700	24433	20336	15792	11435	8129	5686	3884	2516	1187
-11.0	18010	18009	16661	14070	10998	8098	5823	4041	2710	1634	841
-13.0	12079	12041	11150	9450	7540	5663	4047	2721	1701	1024	604
-15.0	8000	7978	7526	6569	5285	3869	2616	1658	1007	686	460
-17.0	5405	5376	4982	4186	3203	2225	1471	967	660	483	393
-19.5	2231	2224	2041	1688	1336	992	713	543	442	386	339
-22.5	810	804	752	653	580	502	440	392	354	327	304
-25.5	515	511	493	460	424	386	356	332	314	299	286
-29.0	391	388	381	366	349	331	314	299	287	275	262
-33.0	321	320	318	308	296	284	274	266	260	251	240
-37.5	276	275	271	263	254	246	238	232	227	223	218
-42.5	233	232	231	227	223	219	215	211	208	205	201
-47.5	200	199	199	197	195	193	190	187	185	183	180
-55.0	156	156	156	155	154	153	151	150	149	147	145
-65.0	108	108	109	109	108	108	107	107	106	106	104
-75.0	72	73	73	74	73	73	73	73	73	72	72
-85.0	44	44	45	45	45	44	44	44	43	43	42



Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	Lateral Angle (Degrees)										
	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	42	41	41	40	40	39	38	37	37	35	34
75.0	71	71	69	68	66	64	62	57	50	42	37
65.0	103	101	99	95	91	86	80	74	63	49	38
55.0	143	140	136	130	122	113	104	91	75	56	41
47.5	177	172	167	161	150	137	124	105	82	60	42
42.5	196	192	185	177	167	151	136	113	88	63	43
37.5	212	206	199	191	180	164	147	122	93	66	43
33.0	228	219	211	202	191	176	156	128	96	69	44
29.0	252	239	222	212	201	184	163	134	99	71	45
25.5	269	256	241	221	209	191	169	138	102	73	46
22.5	287	272	253	232	215	197	174	142	104	74	47
19.5	308	289	269	246	221	202	179	146	106	74	47
17.0	334	308	284	255	227	206	183	148	108	75	48
15.0	370	328	297	262	233	210	186	150	109	75	48
13.0	416	354	314	275	240	214	189	152	109	76	48
11.0	474	386	334	288	248	218	192	153	110	76	49
9.0	555	424	355	302	258	222	195	155	111	76	49
7.0	702	470	379	316	267	226	197	156	111	77	49
5.0	862	515	402	329	274	230	199	157	111	77	49
3.0	984	550	421	339	279	232	200	158	112	77	49
1.0	1039	569	429	344	281	234	201	158	112	77	49
0.0	1048	574	431	346	282	234	201	158	112	77	49
-1.0	1039	569	429	344	281	234	201	158	112	77	49
-3.0	984	550	421	339	279	232	200	158	112	77	49
-5.0	862	515	402	329	274	230	199	157	111	77	49
-7.0	702	470	379	316	267	226	197	156	111	77	49
-9.0	555	424	355	302	258	222	195	155	111	76	49
-11.0	474	386	334	288	248	218	192	153	110	76	49
-13.0	416	354	314	275	240	214	189	152	109	76	48
-15.0	370	328	297	262	233	210	186	150	109	75	48
-17.0	334	308	284	255	227	206	183	148	108	75	48
-19.5	308	289	269	246	221	202	179	146	106	74	47
-22.5	287	272	253	232	215	197	174	142	104	74	47
-25.5	269	256	241	221	209	191	169	138	102	73	46
-29.0	252	239	222	212	201	184	163	134	99	71	45
-33.0	228	219	211	202	191	176	156	128	96	69	44
-37.5	212	206	199	191	180	164	147	122	93	66	43
-42.5	196	192	185	177	167	151	136	113	88	63	43
-47.5	177	172	167	161	150	137	124	105	82	60	42
-55.0	143	140	136	130	122	113	104	91	75	56	41
-65.0	103	101	99	95	91	86	80	74	63	49	38
-75.0	71	71	69	68	66	64	62	57	50	42	37
-85.0	42	41	41	40	40	39	38	37	37	35	34



Isocandela Diagram (Percent of Maximum Intensity)

