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Floodlight Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For
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Madera, CA 93636-9515
United States

Catalog Number
PNF-12-LED-e66-WHP-13-SP-C
Order Number
11913931
Test Number
11913931.10

Test Date

2017-08-21

Prepared By

William Escobar, Technician

Approved By

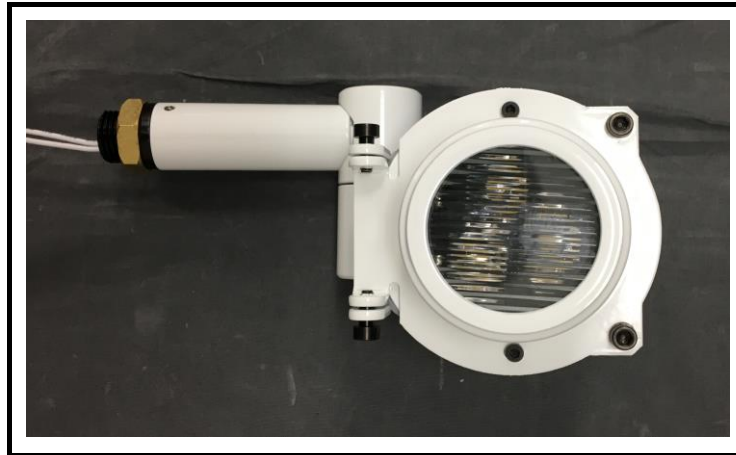
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white metal housing with linear prismatic lens
Lamp: Three (3) white LEDs with optics
Mounting: Pole/Arm
Ballast/Driver: TRE20

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	265.5 Lumens
Luminaire Efficacy:	32.5 lm/w
Maximum Candela:	942 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.1 VAC
Current:	0.1120 A
Power:	8.180 W
Power Factor:	0.609
Frequency:	60 Hz
Current THD:	129 %

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



Distribution - Goniophotometer

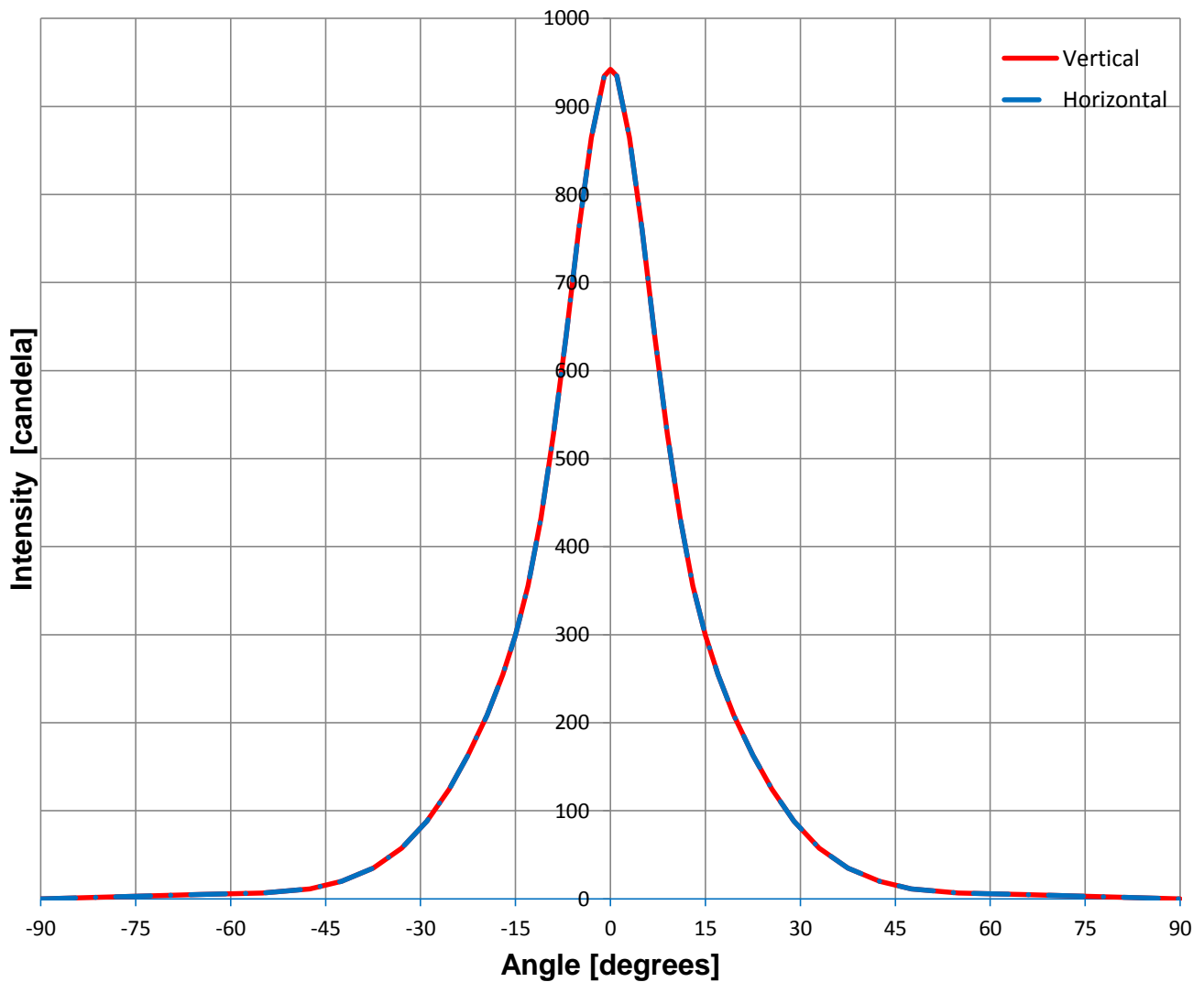
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.1120 A	8.180 W	0.609	60 Hz	129 %

Summary of Results

Total Lumen Output:	265.5 Lumens	Maximum Candela:	942.4 Candela
Luminaire Efficacy:	32.5 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	199.3 Lumens	Field Angle :	56.8 H X 56.8 V
Beam Lumens:	63.8 Lumens	Beam Angle :	20.4 H X 20.4 V
Spill Light Lumens:	66.3 Lumens	IESNA Type:	4 H X 4 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	5	5	5	5	5	5	5	5	5	5	5
55.0	7	7	7	7	7	7	6	6	6	6	6
47.5	11	11	11	11	11	10	10	10	10	9	8
42.5	20	20	20	19	19	18	18	17	16	15	13
37.5	35	35	35	34	33	32	30	28	26	24	22
33.0	58	58	57	56	54	51	49	45	42	38	34
29.0	88	88	87	85	82	77	73	67	62	56	49
25.5	124	124	122	119	115	109	102	94	85	77	66
22.5	163	163	161	156	149	141	131	121	110	98	84
19.5	208	208	205	198	189	179	166	152	137	123	105
17.0	255	254	250	241	229	214	197	180	163	145	123
15.0	299	298	292	280	265	246	225	204	183	163	137
13.0	356	355	346	328	306	281	255	230	204	180	152
11.0	432	430	416	389	355	321	287	255	225	197	166
9.0	528	526	504	465	416	366	321	281	246	214	179
7.0	639	635	604	550	483	416	355	306	265	229	189
5.0	760	754	710	636	550	465	389	328	280	241	198
3.0	865	857	803	710	604	504	416	346	292	250	205
1.0	934	923	857	754	635	526	430	355	298	254	208
0.0	942	934	865	760	639	528	432	356	299	255	208
-1.0	934	923	857	754	635	526	430	355	298	254	208
-3.0	865	857	803	710	604	504	416	346	292	250	205
-5.0	760	754	710	636	550	465	389	328	280	241	198
-7.0	639	635	604	550	483	416	355	306	265	229	189
-9.0	528	526	504	465	416	366	321	281	246	214	179
-11.0	432	430	416	389	355	321	287	255	225	197	166
-13.0	356	355	346	328	306	281	255	230	204	180	152
-15.0	299	298	292	280	265	246	225	204	183	163	137
-17.0	255	254	250	241	229	214	197	180	163	145	123
-19.5	208	208	205	198	189	179	166	152	137	123	105
-22.5	163	163	161	156	149	141	131	121	110	98	84
-25.5	124	124	122	119	115	109	102	94	85	77	66
-29.0	88	88	87	85	82	77	73	67	62	56	49
-33.0	58	58	57	56	54	51	49	45	42	38	34
-37.5	35	35	35	34	33	32	30	28	26	24	22
-42.5	20	20	20	19	19	18	18	17	16	15	13
-47.5	11	11	11	11	11	10	10	10	10	9	8
-55.0	7	7	7	7	7	7	6	6	6	6	6
-65.0	5	5	5	5	5	5	5	5	5	5	5
-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	5	4	4	4	4	4	3	3	2	1	0
55.0	6	6	6	6	5	5	5	4	3	2	0
47.5	8	7	7	7	6	6	5	5	3	2	1
42.5	12	10	9	8	7	6	6	5	4	2	1
37.5	19	16	13	10	8	7	6	5	4	2	1
33.0	29	24	19	15	10	8	7	6	4	2	1
29.0	41	34	26	19	13	9	7	6	4	3	1
25.5	55	44	34	24	16	10	7	6	4	3	1
22.5	68	55	41	29	19	12	8	6	5	3	1
19.5	84	66	49	34	22	13	8	6	5	3	1
17.0	98	77	56	38	24	15	9	6	5	3	1
15.0	110	85	62	42	26	16	10	6	5	3	1
13.0	121	94	67	45	28	17	10	6	5	3	1
11.0	131	102	73	49	30	18	10	6	5	3	1
9.0	141	109	77	51	32	18	10	7	5	3	1
7.0	149	115	82	54	33	19	11	7	5	3	1
5.0	156	119	85	56	34	19	11	7	5	3	1
3.0	161	122	87	57	35	20	11	7	5	3	1
1.0	163	124	88	58	35	20	11	7	5	3	1
0.0	163	124	88	58	35	20	11	7	5	3	1
-1.0	163	124	88	58	35	20	11	7	5	3	1
-3.0	161	122	87	57	35	20	11	7	5	3	1
-5.0	156	119	85	56	34	19	11	7	5	3	1
-7.0	149	115	82	54	33	19	11	7	5	3	1
-9.0	141	109	77	51	32	18	10	7	5	3	1
-11.0	131	102	73	49	30	18	10	6	5	3	1
-13.0	121	94	67	45	28	17	10	6	5	3	1
-15.0	110	85	62	42	26	16	10	6	5	3	1
-17.0	98	77	56	38	24	15	9	6	5	3	1
-19.5	84	66	49	34	22	13	8	6	5	3	1
-22.5	68	55	41	29	19	12	8	6	5	3	1
-25.5	55	44	34	24	16	10	7	6	4	3	1
-29.0	41	34	26	19	13	9	7	6	4	3	1
-33.0	29	24	19	15	10	8	7	6	4	2	1
-37.5	19	16	13	10	8	7	6	5	4	2	1
-42.5	12	10	9	8	7	6	6	5	4	2	1
-47.5	8	7	7	7	6	6	5	5	3	2	1
-55.0	6	6	6	6	5	5	5	4	3	2	0
-65.0	5	4	4	4	4	4	3	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)

