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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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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United States

Catalog Number
PNF-12-LED-e66-WHP-12-NSP-C
Order Number
11913931
Test Number
11913931.07A
Revised Date:
2017-08-28
Test Date

2017-08-25

Prepared By

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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 patterned lens
Lamp: Three (3) white LEDs with optics
Mounting: Pole/Arm
Ballast/Driver: TRE

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	478.5 Lumens
Luminaire Efficacy:	57.9 lm/w
Maximum Candela:	5174 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.1122 A
Power:	8.266 W
Power Factor:	0.614
Frequency:	60 Hz
Current THD:	127 %

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



Distribution - Goniophotometer

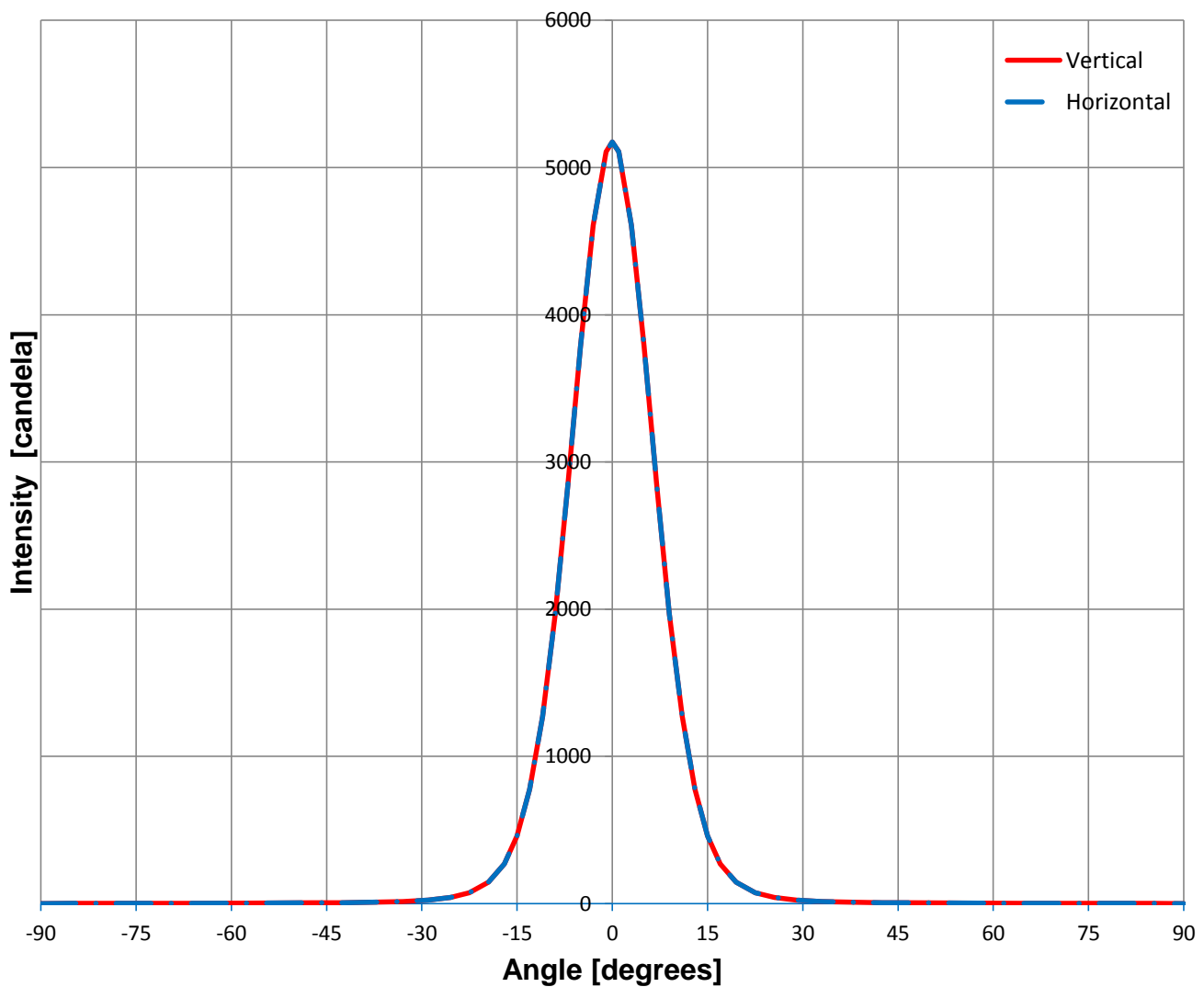
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.1122 A	8.266 W	0.614	60 Hz	127 %

Summary of Results

Total Lumen Output:	478.5 Lumens	Maximum Candela:	5174.1 Candela
Luminaire Efficacy:	57.9 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	385.2 Lumens	Field Angle :	29.3 H X 29.3 V
Beam Lumens:	199.7 Lumens	Beam Angle :	15.2 H X 15.2 V
Spill Light Lumens:	93.2 Lumens	IESNA Type:	3 H X 3 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	2	2	2	2	2	2	2	2	2	2	2
65.0	2	2	2	2	2	2	2	2	2	2	2
55.0	4	4	4	4	4	3	3	3	3	3	3
47.5	5	5	5	5	5	5	5	5	4	4	4
42.5	6	6	6	6	6	6	6	6	6	5	5
37.5	9	9	9	9	9	8	8	8	8	7	7
33.0	14	14	14	14	13	13	12	11	10	10	9
29.0	23	23	23	22	21	20	18	17	15	14	12
25.5	41	41	40	38	35	32	29	25	22	19	16
22.5	74	74	71	66	60	53	46	39	33	27	22
19.5	145	144	137	125	110	93	77	63	50	40	30
17.0	270	268	254	227	192	156	123	96	74	56	40
15.0	459	455	428	374	309	243	184	136	100	74	50
13.0	776	769	716	614	496	376	272	194	136	96	63
11.0	1270	1257	1162	983	773	574	404	272	184	123	77
9.0	1966	1945	1785	1500	1166	843	574	376	243	156	93
7.0	2844	2811	2564	2136	1634	1166	773	496	309	192	110
5.0	3787	3741	3399	2813	2136	1500	983	614	374	227	125
3.0	4607	4545	4118	3399	2564	1785	1162	716	428	254	137
1.0	5107	5026	4545	3741	2811	1945	1257	769	455	268	144
0.0	5174	5107	4607	3787	2844	1966	1270	776	459	270	145
-1.0	5107	5026	4545	3741	2811	1945	1257	769	455	268	144
-3.0	4607	4545	4118	3399	2564	1785	1162	716	428	254	137
-5.0	3787	3741	3399	2813	2136	1500	983	614	374	227	125
-7.0	2844	2811	2564	2136	1634	1166	773	496	309	192	110
-9.0	1966	1945	1785	1500	1166	843	574	376	243	156	93
-11.0	1270	1257	1162	983	773	574	404	272	184	123	77
-13.0	776	769	716	614	496	376	272	194	136	96	63
-15.0	459	455	428	374	309	243	184	136	100	74	50
-17.0	270	268	254	227	192	156	123	96	74	56	40
-19.5	145	144	137	125	110	93	77	63	50	40	30
-22.5	74	74	71	66	60	53	46	39	33	27	22
-25.5	41	41	40	38	35	32	29	25	22	19	16
-29.0	23	23	23	22	21	20	18	17	15	14	12
-33.0	14	14	14	14	13	13	12	11	10	10	9
-37.5	9	9	9	9	9	8	8	8	8	7	7
-42.5	6	6	6	6	6	6	6	6	6	5	5
-47.5	5	5	5	5	5	5	5	5	4	4	4
-55.0	4	4	4	4	4	3	3	3	3	3	3
-65.0	2	2	2	2	2	2	2	2	2	2	2
-75.0	2	2	2	2	2	2	2	2	2	2	2
-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	1	1	1	0
75.0	2	1	1	1	1	1	1	1	1	1	1
65.0	2	2	2	2	2	2	2	2	1	1	1
55.0	3	3	3	3	3	2	2	2	2	1	1
47.5	4	4	4	3	3	3	3	2	2	1	1
42.5	5	5	4	4	4	3	3	2	2	1	1
37.5	6	6	5	5	4	4	3	3	2	1	1
33.0	8	7	6	5	5	4	3	3	2	1	1
29.0	10	9	7	6	5	4	4	3	2	1	1
25.5	13	11	9	7	6	5	4	3	2	1	1
22.5	17	13	10	8	6	5	4	3	2	2	1
19.5	22	16	12	9	7	5	4	3	2	2	1
17.0	27	19	14	10	7	5	4	3	2	2	1
15.0	33	22	15	10	8	6	4	3	2	2	1
13.0	39	25	17	11	8	6	5	3	2	2	1
11.0	46	29	18	12	8	6	5	3	2	2	1
9.0	53	32	20	13	8	6	5	3	2	2	1
7.0	60	35	21	13	9	6	5	4	2	2	1
5.0	66	38	22	14	9	6	5	4	2	2	1
3.0	71	40	23	14	9	6	5	4	2	2	1
1.0	74	41	23	14	9	6	5	4	2	2	1
0.0	74	41	23	14	9	6	5	4	2	2	1
-1.0	74	41	23	14	9	6	5	4	2	2	1
-3.0	71	40	23	14	9	6	5	4	2	2	1
-5.0	66	38	22	14	9	6	5	4	2	2	1
-7.0	60	35	21	13	9	6	5	4	2	2	1
-9.0	53	32	20	13	8	6	5	3	2	2	1
-11.0	46	29	18	12	8	6	5	3	2	2	1
-13.0	39	25	17	11	8	6	5	3	2	2	1
-15.0	33	22	15	10	8	6	4	3	2	2	1
-17.0	27	19	14	10	7	5	4	3	2	2	1
-19.5	22	16	12	9	7	5	4	3	2	2	1
-22.5	17	13	10	8	6	5	4	3	2	2	1
-25.5	13	11	9	7	6	5	4	3	2	1	1
-29.0	10	9	7	6	5	4	4	3	2	1	1
-33.0	8	7	6	5	5	4	3	3	2	1	1
-37.5	6	6	5	5	4	4	3	3	2	1	1
42.5	5	5	4	4	4	3	3	2	2	1	1
-47.5	4	4	4	3	3	3	3	2	2	1	1
-55.0	3	3	3	3	3	2	2	2	2	1	1
-65.0	2	2	2	2	2	2	2	2	1	1	1
-75.0	2	1	1	1	1	1	1	1	1	1	1
-85.0	1	1	1	1	1	1	1	1	1	1	0



Isocandela Diagram (Percent of Maximum Intensity)

