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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
K2-LED-C26-SP-12-4000K
Order Number
12622476
Test Number
12622476.01

Test Date

2018-11-27

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with specular reflector and glass prismatic lens
Lamp: One (1) Lumenetix CTM1C19 16-80K 2000L 35W 24V Module with diffuse lens and specular reflector
Mounting: Pendant
Ballast/Driver: One (1) EFORE RSLP070-24

Luminaire



Luminaire Characteristics

Luminous Diameter: 4.50 in.

Summary of Results

Total Luminaire Output:	1488 Lumens
Luminaire Efficacy:	36.3 lm/w
Maximum Candela:	9017 Candela

Test Conditions

Test Temperature:	24.1 °C
Voltage:	120.1 VAC
Current:	0.3484 A
Power:	40.97 W
Power Factor:	0.979
Frequency:	60 Hz
Current THD:	15.0 %

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



Distribution - Goniophotometer

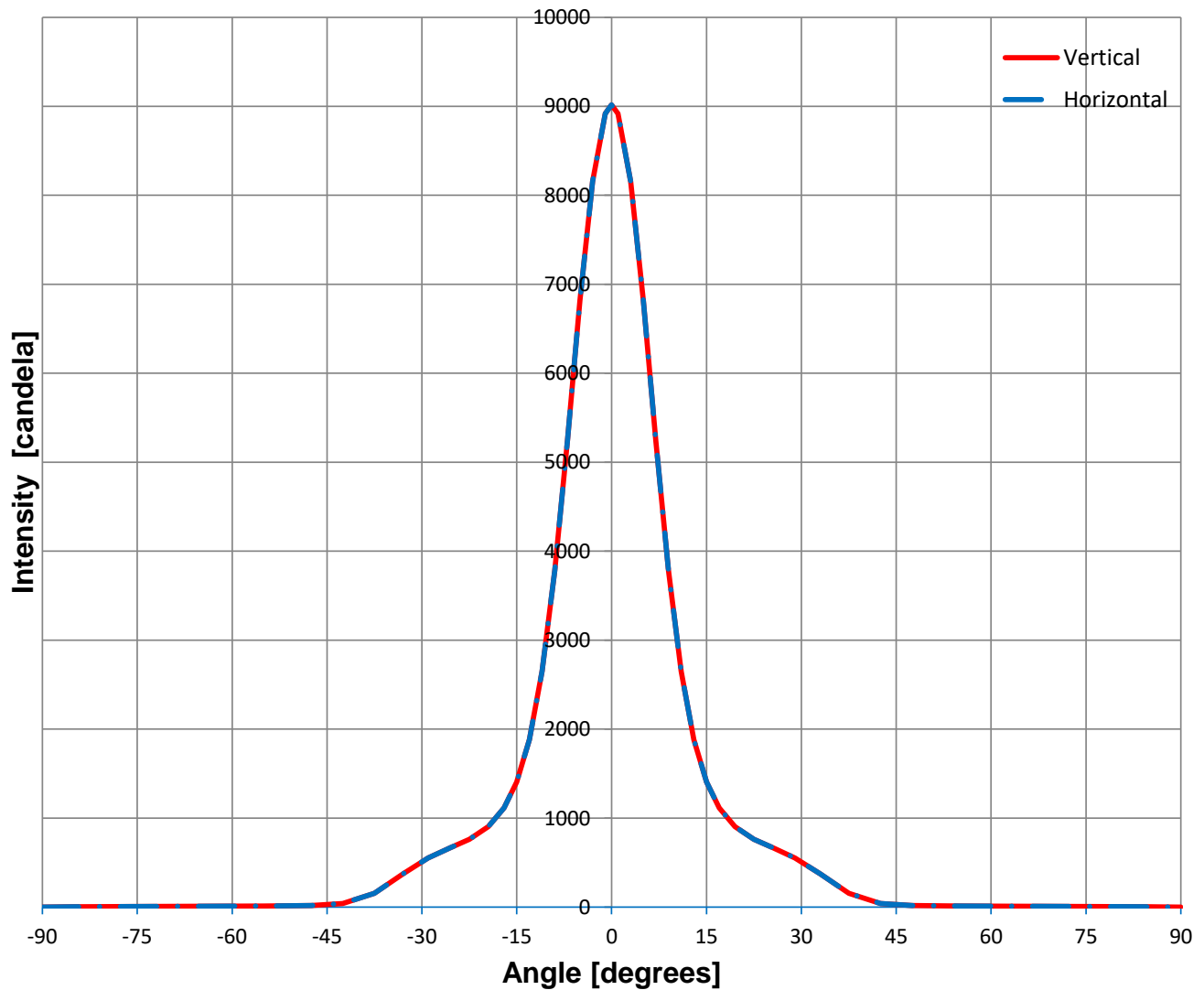
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.1 °C	120.1 VAC	0.3484 A	40.97 W	0.979	60 Hz	15.0 %

Summary of Results

Total Lumen Output:	1487.6 Lumens	Maximum Candela:	9016.8 Candela
Luminaire Efficacy:	36.3 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	932.4 Lumens	Field Angle :	39.1 H X 39.1 V
Beam Lumens:	405.5 Lumens	Beam Angle :	16.0 H X 16.0 V
Spill Light Lumens:	555.2 Lumens	IESNA Type:	3 H X 3 V

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	5	5	5	5	5	5	5	5	5	5	5
75.0	6	6	6	6	6	6	6	6	6	6	6
65.0	9	9	9	9	9	9	9	9	9	9	9
55.0	12	12	12	12	12	12	12	12	12	12	11
47.5	16	16	16	16	16	16	15	15	15	14	14
42.5	40	40	39	38	35	33	30	27	25	22	19
37.5	156	155	152	145	135	124	110	95	80	67	51
33.0	372	371	366	354	338	316	289	258	224	189	146
29.0	553	553	548	538	524	503	477	445	405	359	295
25.5	666	665	661	653	640	623	601	574	540	500	437
22.5	761	761	755	743	727	706	683	657	626	591	536
19.5	905	904	891	868	839	805	769	734	698	661	611
17.0	1115	1112	1089	1045	988	926	865	810	761	715	661
15.0	1406	1400	1358	1276	1176	1071	974	889	818	761	698
13.0	1882	1872	1792	1637	1460	1280	1119	991	889	810	734
11.0	2650	2631	2481	2200	1878	1576	1322	1119	974	865	769
9.0	3782	3749	3486	3021	2486	1984	1576	1280	1071	926	805
7.0	5244	5190	4775	4064	3238	2486	1878	1460	1176	988	839
5.0	6814	6738	6169	5193	4064	3021	2200	1637	1276	1045	868
3.0	8155	8055	7364	6169	4775	3486	2481	1792	1358	1089	891
1.0	8918	8796	8055	6738	5190	3749	2631	1872	1400	1112	904
0.0	9017	8918	8155	6814	5244	3782	2650	1882	1406	1115	905
-1.0	8918	8796	8055	6738	5190	3749	2631	1872	1400	1112	904
-3.0	8155	8055	7364	6169	4775	3486	2481	1792	1358	1089	891
-5.0	6814	6738	6169	5193	4064	3021	2200	1637	1276	1045	868
-7.0	5244	5190	4775	4064	3238	2486	1878	1460	1176	988	839
-9.0	3782	3749	3486	3021	2486	1984	1576	1280	1071	926	805
-11.0	2650	2631	2481	2200	1878	1576	1322	1119	974	865	769
-13.0	1882	1872	1792	1637	1460	1280	1119	991	889	810	734
-15.0	1406	1400	1358	1276	1176	1071	974	889	818	761	698
-17.0	1115	1112	1089	1045	988	926	865	810	761	715	661
-19.5	905	904	891	868	839	805	769	734	698	661	611
-22.5	761	761	755	743	727	706	683	657	626	591	536
-25.5	666	665	661	653	640	623	601	574	540	500	437
-29.0	553	553	548	538	524	503	477	445	405	359	295
-33.0	372	371	366	354	338	316	289	258	224	189	146
-37.5	156	155	152	145	135	124	110	95	80	67	51
-42.5	40	40	39	38	35	33	30	27	25	22	19
-47.5	16	16	16	16	16	16	15	15	15	14	14
-55.0	12	12	12	12	12	12	12	12	12	12	11
-65.0	9	9	9	9	9	9	9	9	9	9	9
-75.0	6	6	6	6	6	6	6	6	6	6	6
-85.0	5	5	5	5	5	5	5	5	5	5	5

Vertical Angle (Degrees)



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	5	5	5	4	4	4	4	4	3	2	1
75.0	6	6	6	6	6	6	5	5	5	4	2
65.0	9	8	8	8	8	7	7	6	5	5	3
55.0	11	11	11	10	10	9	8	8	6	5	4
47.5	13	13	12	12	11	11	10	8	7	5	4
42.5	17	15	14	13	12	11	11	9	7	6	4
37.5	36	26	19	15	13	12	11	10	8	6	4
33.0	99	64	37	22	15	13	12	10	8	6	4
29.0	215	142	78	37	19	14	12	11	8	6	5
25.5	346	246	142	64	26	15	13	11	8	6	5
22.5	452	346	215	99	36	17	13	11	9	6	5
19.5	536	437	295	146	51	19	14	11	9	6	5
17.0	591	500	359	189	67	22	14	12	9	6	5
15.0	626	540	405	224	80	25	15	12	9	6	5
13.0	657	574	445	258	95	27	15	12	9	6	5
11.0	683	601	477	289	110	30	15	12	9	6	5
9.0	706	623	503	316	124	33	16	12	9	6	5
7.0	727	640	524	338	135	35	16	12	9	6	5
5.0	743	653	538	354	145	38	16	12	9	6	5
3.0	755	661	548	366	152	39	16	12	9	6	5
1.0	761	665	553	371	155	40	16	12	9	6	5
0.0	761	666	553	372	156	40	16	12	9	6	5
-1.0	761	665	553	371	155	40	16	12	9	6	5
-3.0	755	661	548	366	152	39	16	12	9	6	5
-5.0	743	653	538	354	145	38	16	12	9	6	5
-7.0	727	640	524	338	135	35	16	12	9	6	5
-9.0	706	623	503	316	124	33	16	12	9	6	5
-11.0	683	601	477	289	110	30	15	12	9	6	5
-13.0	657	574	445	258	95	27	15	12	9	6	5
-15.0	626	540	405	224	80	25	15	12	9	6	5
-17.0	591	500	359	189	67	22	14	12	9	6	5
-19.5	536	437	295	146	51	19	14	11	9	6	5
-22.5	452	346	215	99	36	17	13	11	9	6	5
-25.5	346	246	142	64	26	15	13	11	8	6	5
-29.0	215	142	78	37	19	14	12	11	8	6	5
-33.0	99	64	37	22	15	13	12	10	8	6	4
-37.5	36	26	19	15	13	12	11	10	8	6	4
-42.5	17	15	14	13	12	11	11	9	7	6	4
-47.5	13	13	12	12	11	11	10	8	7	5	4
-55.0	11	11	11	10	10	9	8	8	6	5	4
-65.0	9	8	8	8	8	7	7	6	5	5	3
-75.0	6	6	6	6	6	6	5	5	5	4	2
-85.0	5	5	5	4	4	4	4	4	3	2	1



Isocandela Diagram (Percent of Maximum Intensity)

