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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
SA-LED-X54-FL-9-4000K
Order Number
12406698
Test Number
12406698.04

Test Date

2018-08-31

Prepared By

William Escobar, Technician

Approved By

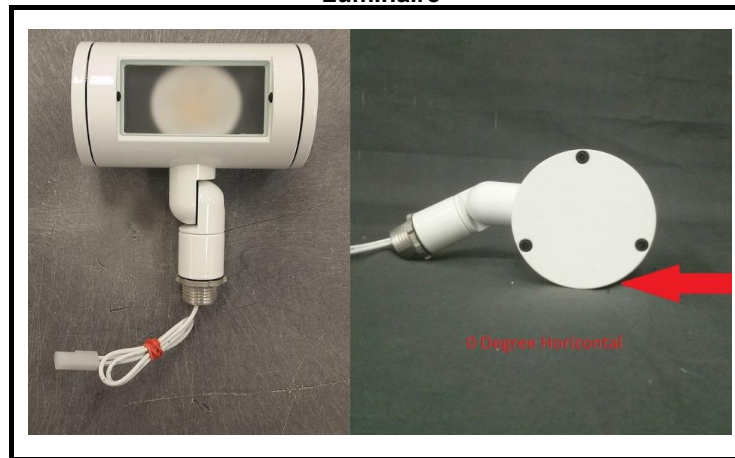
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal cylindrical housing with clear outer glass lens, inner plastic diffuse lens and semi specular stepped reflector.
Lamp: One (1) white LED
Mounting: Surface - Ground
Ballast/Driver: ERP ESS015W-0350-42

Luminaire



Luminaire Characteristics

Luminous Length: 1.50 in.
Luminous Width: 3.000 in.

Summary of Results

Total Luminaire Output: 1468 Lumens
Luminaire Efficacy: 141 lm/w
Maximum Candela: 980 Candela

Test Conditions

Test Temperature: 25.1 °C
Voltage: 120.0 VAC
Current: 0.08827 A
Power: 10.42 W
Power Factor: 0.983
Frequency: 60 Hz
Current THD: 15.9 %

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



Distribution - Goniophotometer

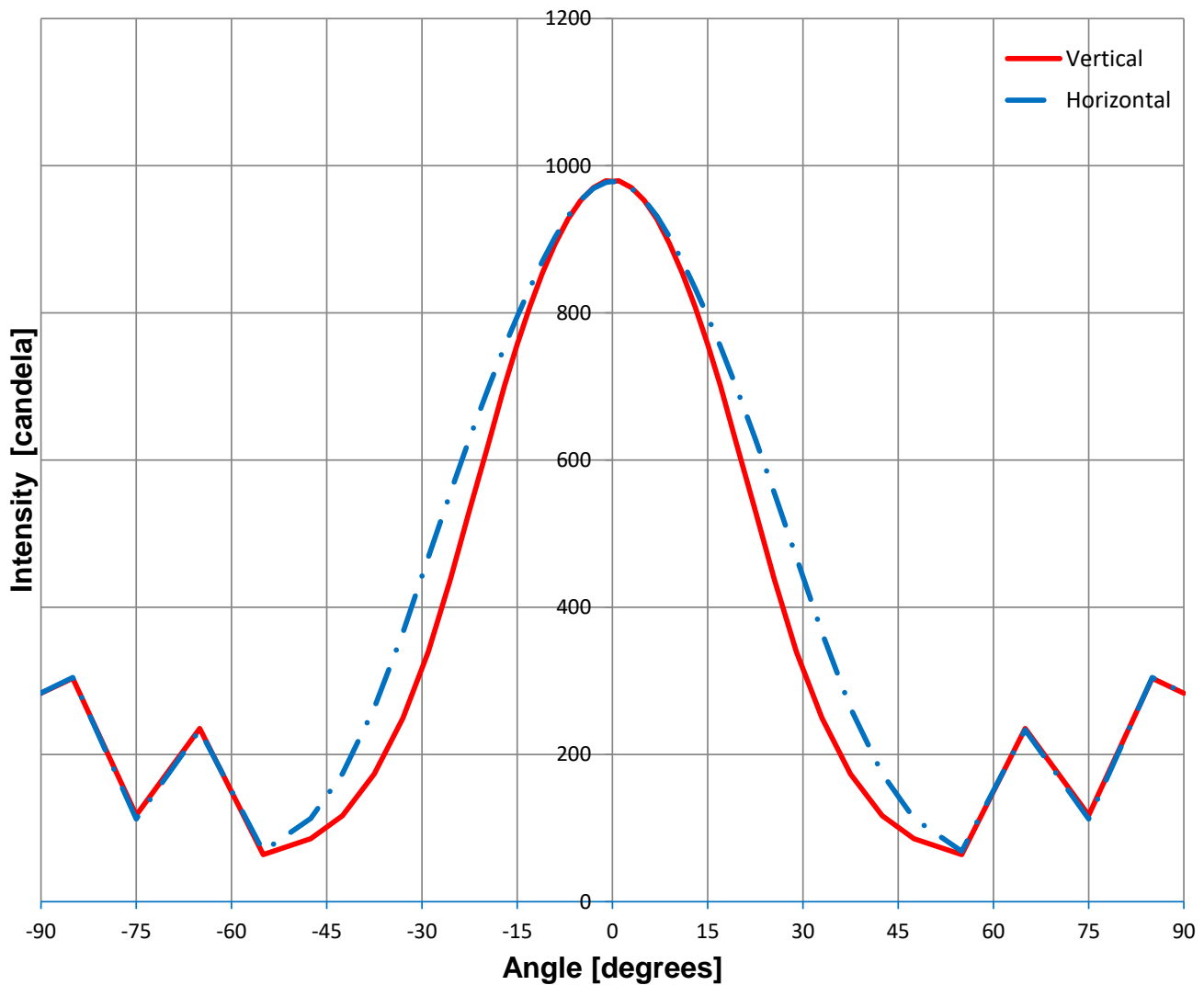
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.08827 A	10.42 W	0.983	60 Hz	15.9 %

Summary of Results

Total Lumen Output:	1467.5 Lumens	Maximum Candela:	979.6 Candela
Luminaire Efficacy:	140.9 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	1362.7 Lumens	Field Angle :	100.1 H X 91.1 V
Beam Lumens:	459.0 Lumens	Beam Angle :	56.2 H X 47.7 V
Spill Light Lumens:	104.8 Lumens	IESNA Type:	6 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	304	304	304	304	304	304	305	305	305	305	305
75.0	118	118	118	119	120	122	124	127	129	132	136
65.0	235	235	235	232	229	224	218	209	200	184	156
55.0	64	64	64	64	64	64	64	65	66	68	71
47.5	86	86	86	85	85	84	83	82	81	80	78
42.5	117	117	116	116	115	113	112	109	107	105	101
37.5	174	173	171	170	168	165	161	157	153	148	141
33.0	250	250	249	246	243	237	231	224	216	208	196
29.0	339	339	338	334	329	321	312	302	290	278	261
25.5	439	437	433	428	420	410	398	384	369	352	328
22.5	532	529	524	518	508	495	480	463	443	421	392
19.5	623	623	618	611	599	584	565	544	520	494	459
17.0	701	699	694	685	672	654	634	609	582	552	512
15.0	757	755	750	740	725	706	684	657	628	596	552
13.0	809	806	801	790	774	753	729	701	669	635	588
11.0	855	852	846	834	817	794	768	738	705	669	620
9.0	894	891	885	871	853	829	801	769	735	697	646
7.0	927	924	917	903	883	858	828	795	758	719	667
5.0	953	950	942	927	906	880	849	814	776	736	683
3.0	970	967	959	944	922	894	862	826	788	747	693
1.0	980	976	968	952	930	902	869	833	794	753	698
0.0	979	977	969	954	931	903	871	834	795	754	699
-1.0	980	976	968	952	930	902	869	833	794	753	698
-3.0	970	967	959	944	922	894	862	826	788	747	693
-5.0	953	950	942	927	906	880	849	814	776	736	683
-7.0	927	924	917	903	883	858	828	795	758	719	667
-9.0	894	891	885	871	853	829	801	769	735	697	646
-11.0	855	852	846	834	817	794	768	738	705	669	620
-13.0	809	806	801	790	774	753	729	701	669	635	588
-15.0	757	755	750	740	725	706	684	657	628	596	552
-17.0	701	699	694	685	672	654	634	609	582	552	512
-19.5	623	623	618	611	599	584	565	544	520	494	459
-22.5	532	529	524	518	508	495	480	463	443	421	392
-25.5	439	437	433	428	420	410	398	384	369	352	328
-29.0	339	339	338	334	329	321	312	302	290	278	261
-33.0	250	250	249	246	243	237	231	224	216	208	196
-37.5	174	173	171	170	168	165	161	157	153	148	141
-42.5	117	117	116	116	115	113	112	109	107	105	101
-47.5	86	86	86	85	85	84	83	82	81	80	78
-55.0	64	64	64	64	64	64	64	65	66	68	71
-65.0	235	235	235	232	229	224	218	209	200	184	156
-75.0	118	118	118	119	120	122	124	127	129	132	136
-85.0	304	304	304	304	304	304	305	305	305	305	305



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	305	304	304	304	303	302	301	298	293	288	285
75.0	142	148	156	167	181	197	215	245	289	303	287
65.0	119	99	77	57	39	48	88	136	209	288	292
55.0	76	86	104	135	184	239	112	35	134	243	298
47.5	76	74	71	70	77	110	182	111	85	212	300
42.5	97	93	87	81	74	74	110	237	44	192	301
37.5	133	124	113	101	88	75	77	182	35	175	303
33.0	181	165	147	127	106	86	72	134	52	161	303
29.0	238	215	187	157	126	98	77	103	72	150	303
25.5	298	266	229	188	147	109	83	86	94	141	304
22.5	355	315	269	217	166	120	88	77	114	135	304
19.5	414	367	310	247	185	131	93	72	152	129	304
17.0	461	408	343	272	202	140	97	70	180	125	304
15.0	497	438	368	291	214	147	101	69	197	122	304
13.0	529	466	392	309	226	153	104	68	206	120	304
11.0	557	491	413	324	236	159	106	68	214	118	305
9.0	581	513	431	338	245	164	109	68	221	116	305
7.0	600	530	445	349	252	168	110	69	226	115	305
5.0	615	543	456	357	258	171	112	69	230	113	305
3.0	624	551	463	363	261	173	113	69	232	113	305
1.0	629	555	467	365	263	174	113	69	233	112	305
0.0	629	556	468	366	263	174	113	69	233	112	305
-1.0	629	555	467	365	263	174	113	69	233	112	305
-3.0	624	551	463	363	261	173	113	69	232	113	305
-5.0	615	543	456	357	258	171	112	69	230	113	305
-7.0	600	530	445	349	252	168	110	69	226	115	305
-9.0	581	513	431	338	245	164	109	68	221	116	305
-11.0	557	491	413	324	236	159	106	68	214	118	305
-13.0	529	466	392	309	226	153	104	68	206	120	304
-15.0	497	438	368	291	214	147	101	69	197	122	304
-17.0	461	408	343	272	202	140	97	70	180	125	304
-19.5	414	367	310	247	185	131	93	72	152	129	304
-22.5	355	315	269	217	166	120	88	77	114	135	304
-25.5	298	266	229	188	147	109	83	86	94	141	304
-29.0	238	215	187	157	126	98	77	103	72	150	303
-33.0	181	165	147	127	106	86	72	134	52	161	303
-37.5	133	124	113	101	88	75	77	182	35	175	303
-42.5	97	93	87	81	74	74	110	237	44	192	301
-47.5	76	74	71	70	77	110	182	111	85	212	300
-55.0	76	86	104	135	184	239	112	35	134	243	298
-65.0	119	99	77	57	39	48	88	136	209	288	292
-75.0	142	148	156	167	181	197	215	245	289	303	287
-85.0	305	304	304	304	303	302	301	298	293	288	285



Isocandela Diagram (Percent of Maximum Intensity)

