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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
DE-LED-C22-SP-13(40°x1°)-4000K
Order Number
12408683
Test Number
12408683.06C

Revised:
2018-09-07
Test Date

2018-09-06

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, plastic prismatic reflector, inner patterned glass lens, and outer clear lens
Lamp: LED array
Mounting: Pendant
Ballast/Driver: One (1) EFORE Strato RSLP035-24

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.75 in.

Summary of Results

Total Luminaire Output:	572.7 Lumens
Luminaire Efficacy:	27.7 lm/w
Maximum Candela:	1323 Candela

Test Conditions

Test Temperature:	24.0 °C
Voltage:	120.0 VAC
Current:	0.1775 A
Power:	20.68 W
Power Factor:	0.971
Frequency:	60 Hz
Current THD:	33.5 %

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



Distribution - Goniophotometer

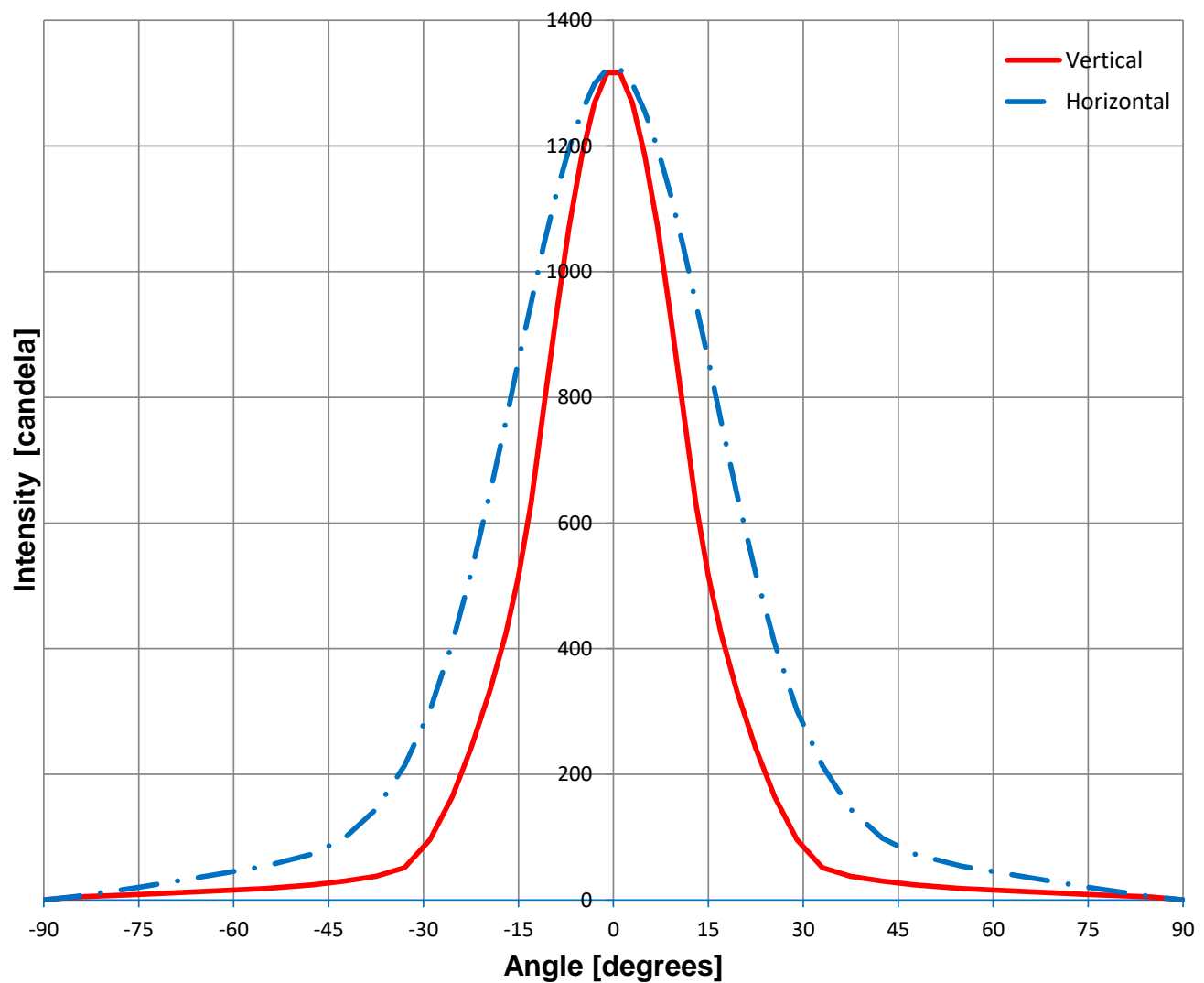
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.0 °C	120.0 VAC	0.1775 A	20.68 W	0.971	60 Hz	33.5 %

Summary of Results

Total Lumen Output:	572.7 Lumens	Maximum Candela:	1322.7 Candela
Luminaire Efficacy:	27.7 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	443.7 Lumens	Field Angle :	77.6 H X 54.2 V
Beam Lumens:	218.8 Lumens	Beam Angle :	38.4 H X 25.2 V
Spill Light Lumens:	129.0 Lumens	IESNA Type:	5 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	5	5	5	5	5	5	5	4	4	4	4
75.0	9	9	9	9	9	9	9	8	8	8	8
65.0	13	13	13	13	13	13	13	13	13	12	12
55.0	18	18	18	18	18	18	18	18	17	17	17
47.5	24	24	24	24	24	24	24	23	23	23	22
42.5	30	30	30	30	30	29	29	28	28	27	27
37.5	38	38	37	37	37	36	36	35	34	33	32
33.0	52	52	51	51	51	50	49	49	47	47	45
29.0	96	96	95	93	92	90	87	83	80	76	71
25.5	164	163	161	158	154	148	141	134	126	118	107
22.5	242	241	237	232	225	215	204	192	178	164	147
19.5	333	332	328	321	309	295	279	260	240	220	195
17.0	424	423	416	408	392	374	352	327	302	276	243
15.0	515	512	507	494	475	453	425	396	364	331	291
13.0	633	631	624	608	586	554	520	482	443	402	350
11.0	782	779	770	747	718	681	634	586	535	481	416
9.0	932	931	920	893	854	806	751	689	625	561	483
7.0	1071	1069	1051	1020	976	920	854	782	709	633	542
5.0	1184	1183	1163	1129	1075	1011	943	862	777	692	589
3.0	1268	1266	1244	1204	1148	1080	1001	916	826	736	627
1.0	1317	1307	1288	1246	1187	1116	1033	943	852	757	644
0.0	1316	1323	1299	1255	1196	1124	1042	950	859	761	647
-1.0	1317	1307	1288	1246	1187	1116	1033	943	852	757	644
-3.0	1268	1266	1244	1204	1148	1080	1001	916	826	736	627
-5.0	1184	1183	1163	1129	1075	1011	943	862	777	692	589
-7.0	1071	1069	1051	1020	976	920	854	782	709	633	542
-9.0	932	931	920	893	854	806	751	689	625	561	483
-11.0	782	779	770	747	718	681	634	586	535	481	416
-13.0	633	631	624	608	586	554	520	482	443	402	350
-15.0	515	512	507	494	475	453	425	396	364	331	291
-17.0	424	423	416	408	392	374	352	327	302	276	243
-19.5	333	332	328	321	309	295	279	260	240	220	195
-22.5	242	241	237	232	225	215	204	192	178	164	147
-25.5	164	163	161	158	154	148	141	134	126	118	107
-29.0	96	96	95	93	92	90	87	83	80	76	71
-33.0	52	52	51	51	51	50	49	49	47	47	45
-37.5	38	38	37	37	37	36	36	35	34	33	32
-42.5	30	30	30	30	30	29	29	28	28	27	27
-47.5	24	24	24	24	24	24	24	23	23	23	22
-55.0	18	18	18	18	18	18	18	18	17	17	17
-65.0	13	13	13	13	13	13	13	13	13	12	12
-75.0	9	9	9	9	9	9	9	8	8	8	8
-85.0	5	5	5	5	5	5	5	4	4	4	4



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	4	4	4	4	4	4	3	3	2	1	0
75.0	8	8	7	7	7	7	7	6	5	4	1
65.0	12	11	11	11	10	10	9	8	7	6	2
55.0	16	16	16	15	14	13	12	11	10	8	3
47.5	21	21	20	19	18	16	15	15	13	10	3
42.5	25	24	23	22	20	19	18	17	16	11	4
37.5	31	30	28	27	25	23	22	21	18	13	4
33.0	43	41	38	35	32	29	27	24	21	14	4
29.0	65	59	53	46	40	35	32	28	23	15	5
25.5	95	83	71	59	49	41	36	32	26	16	5
22.5	127	109	90	73	58	48	41	35	28	17	5
19.5	166	140	113	89	70	55	46	38	30	18	5
17.0	205	171	137	106	80	62	51	41	31	18	5
15.0	244	202	160	122	90	68	55	44	32	19	5
13.0	291	239	186	139	101	74	59	46	34	19	5
11.0	345	278	213	156	111	81	63	48	35	19	5
9.0	394	315	240	173	121	86	66	50	35	19	5
7.0	439	350	264	189	130	91	69	51	36	20	5
5.0	477	379	283	200	137	95	71	52	36	20	5
3.0	503	398	297	209	142	97	72	53	37	20	5
1.0	517	406	301	213	144	98	73	54	37	20	5
0.0	520	408	301	214	144	98	73	54	37	20	5
-1.0	517	406	301	213	144	98	73	54	37	20	5
-3.0	503	398	297	209	142	97	72	53	37	20	5
-5.0	477	379	283	200	137	95	71	52	36	20	5
-7.0	439	350	264	189	130	91	69	51	36	20	5
-9.0	394	315	240	173	121	86	66	50	35	19	5
-11.0	345	278	213	156	111	81	63	48	35	19	5
-13.0	291	239	186	139	101	74	59	46	34	19	5
-15.0	244	202	160	122	90	68	55	44	32	19	5
-17.0	205	171	137	106	80	62	51	41	31	18	5
-19.5	166	140	113	89	70	55	46	38	30	18	5
-22.5	127	109	90	73	58	48	41	35	28	17	5
-25.5	95	83	71	59	49	41	36	32	26	16	5
-29.0	65	59	53	46	40	35	32	28	23	15	5
-33.0	43	41	38	35	32	29	27	24	21	14	4
-37.5	31	30	28	27	25	23	22	21	18	13	4
-42.5	25	24	23	22	20	19	18	17	16	11	4
-47.5	21	21	20	19	18	16	15	15	13	10	3
-55.0	16	16	16	15	14	13	12	11	10	8	3
-65.0	12	11	11	11	10	10	9	8	7	6	2
-75.0	8	8	7	7	7	7	7	6	5	4	1
-85.0	4	4	4	4	4	4	3	3	2	1	0



Isocandela Diagram (Percent of Maximum Intensity)

