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Floodlight Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

Prepared For
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United States

Catalog Number
DE-LED-C22-WFL-90-4000K
Order Number
12408683
Test Number
12408683.05C
Revised:
2020-01-24
Test Date

2018-08-10

Prepared By

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Approved By

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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, and clear glass 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:	675.4 Lumens
Luminaire Efficacy:	32.5 lm/w
Maximum Candela:	977 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.1 VAC
Current:	0.1780 A
Power:	20.76 W
Power Factor:	0.971
Frequency:	60 Hz
Current THD:	19.1 %

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



Distribution - Goniophotometer

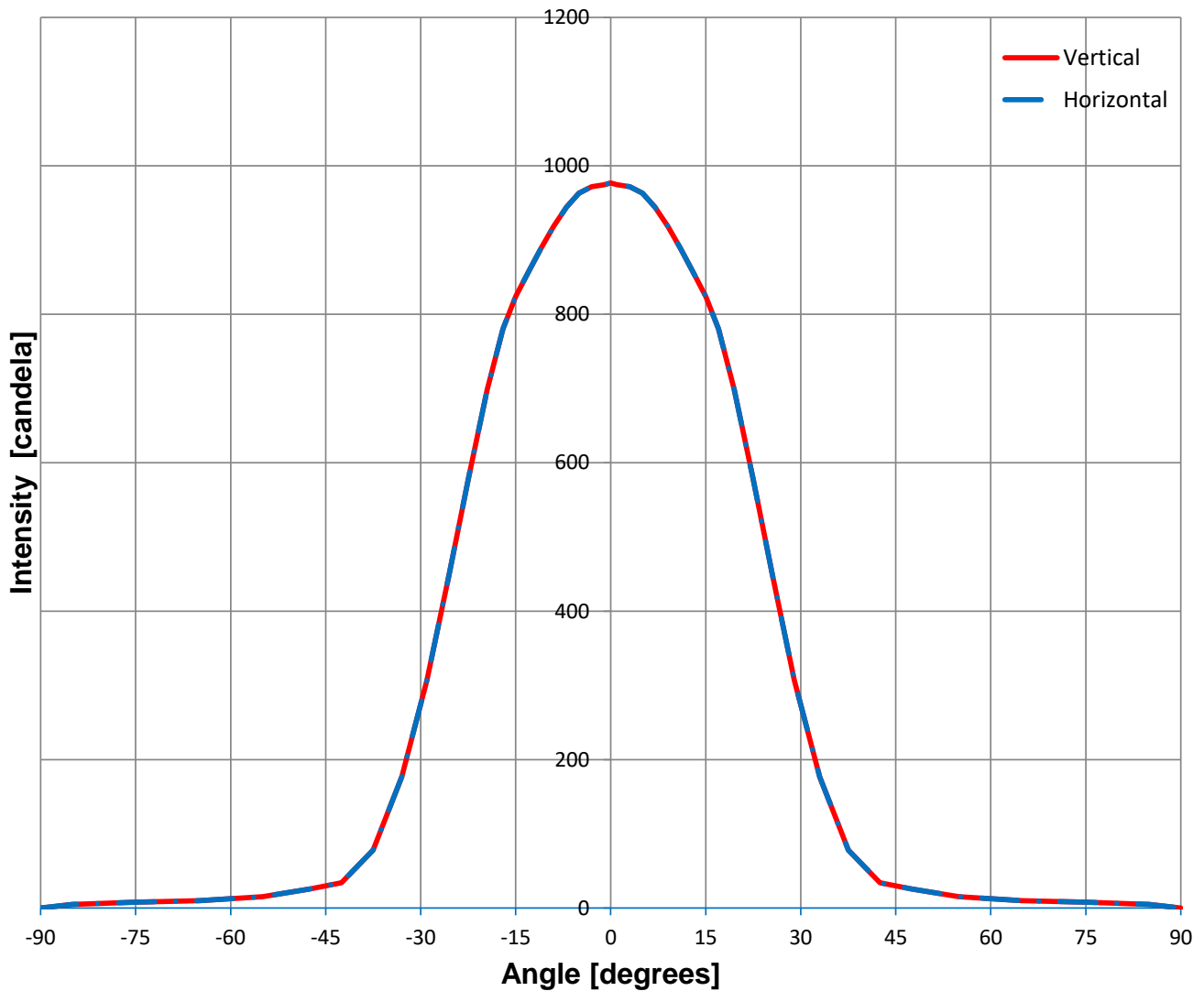
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.1 VAC	0.1780 A	20.76 W	0.971	60 Hz	19.1 %

Summary of Results

Total Lumen Output:	675.4 Lumens	Maximum Candela:	977.0 Candela
Luminaire Efficacy:	32.5 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	598.6 Lumens	Field Angle :	73.2 H X 73.2 V
Beam Lumens:	430.3 Lumens	Beam Angle :	49.2 H X 49.2 V
Spill Light Lumens:	76.7 Lumens	IESNA Type:	5 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	5	5	5	5	5	5	5	5	5	5	5
75.0	8	8	8	8	8	8	8	8	8	8	8
65.0	10	10	10	10	10	10	10	10	10	10	10
55.0	15	15	15	15	15	15	14	14	14	14	13
47.5	26	26	26	25	25	25	24	24	23	23	22
42.5	34	34	34	34	33	33	32	31	30	29	28
37.5	78	78	76	72	67	61	54	48	42	38	36
33.0	177	176	174	168	160	150	139	125	111	95	73
29.0	307	306	302	293	279	262	241	219	195	171	141
25.5	449	448	442	430	412	389	361	329	295	259	214
22.5	578	577	570	556	535	507	474	436	394	348	291
19.5	699	698	690	675	653	623	587	544	495	443	374
17.0	780	779	773	760	740	711	673	628	577	519	443
15.0	824	823	818	808	791	768	734	689	636	577	495
13.0	857	856	851	842	828	808	781	741	689	628	544
11.0	889	888	883	872	856	838	813	781	734	673	587
9.0	919	918	912	900	883	862	838	808	768	711	623
7.0	944	943	937	924	906	883	856	828	791	740	653
5.0	963	962	956	944	924	900	872	842	808	760	675
3.0	972	971	967	956	937	912	883	851	818	773	690
1.0	975	975	971	962	943	918	888	856	823	779	698
0.0	977	975	972	963	944	919	889	857	824	780	699
-1.0	975	975	971	962	943	918	888	856	823	779	698
-3.0	972	971	967	956	937	912	883	851	818	773	690
-5.0	963	962	956	944	924	900	872	842	808	760	675
-7.0	944	943	937	924	906	883	856	828	791	740	653
-9.0	919	918	912	900	883	862	838	808	768	711	623
-11.0	889	888	883	872	856	838	813	781	734	673	587
-13.0	857	856	851	842	828	808	781	741	689	628	544
-15.0	824	823	818	808	791	768	734	689	636	577	495
-17.0	780	779	773	760	740	711	673	628	577	519	443
-19.5	699	698	690	675	653	623	587	544	495	443	374
-22.5	578	577	570	556	535	507	474	436	394	348	291
-25.5	449	448	442	430	412	389	361	329	295	259	214
-29.0	307	306	302	293	279	262	241	219	195	171	141
-33.0	177	176	174	168	160	150	139	125	111	95	73
-37.5	78	78	76	72	67	61	54	48	42	38	36
-42.5	34	34	34	34	33	33	32	31	30	29	28
-47.5	26	26	26	25	25	25	24	24	23	23	22
-55.0	15	15	15	15	15	15	14	14	14	14	13
-65.0	10	10	10	10	10	10	10	10	10	10	10
-75.0	8	8	8	8	8	8	8	8	8	8	8
-85.0	5	5	5	5	5	5	5	5	5	5	5



Candela Tabulation

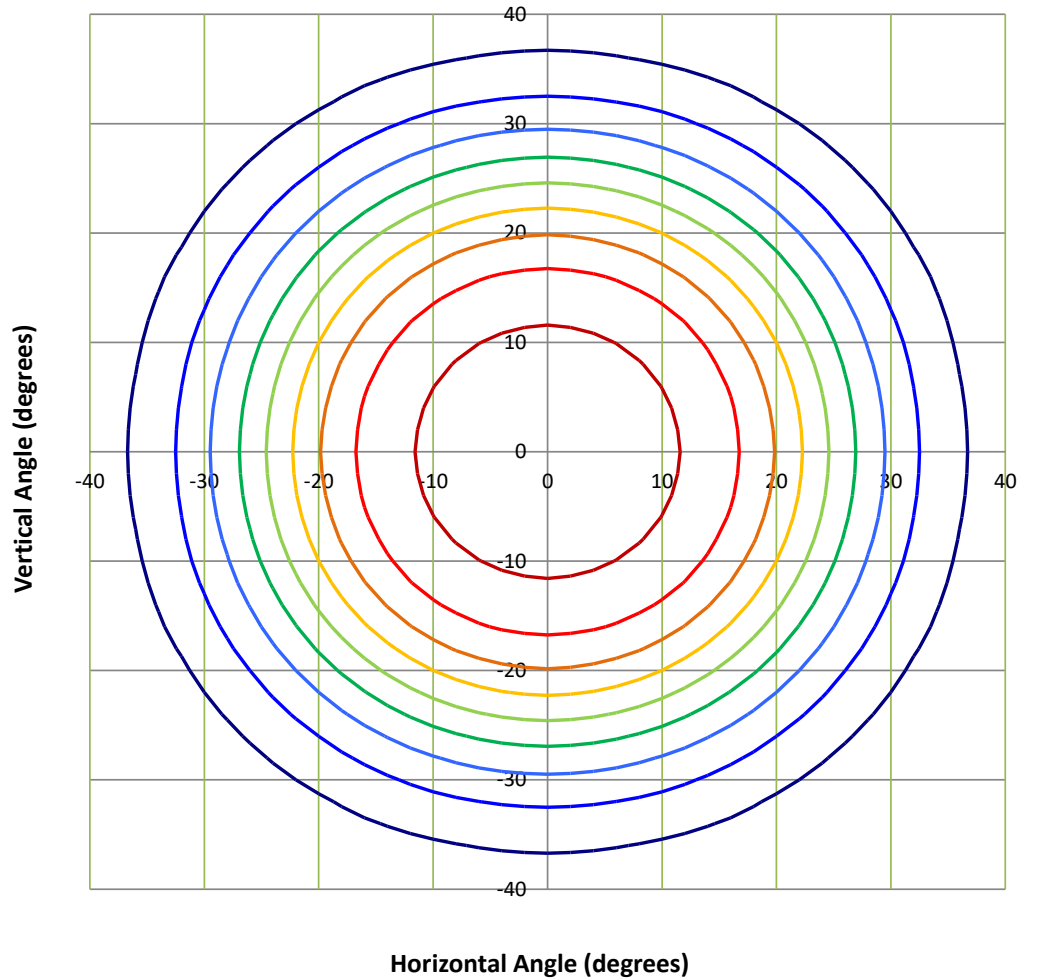
Lateral Angle (Degrees)

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	7	7	7	7	7	7	6	6	5	4	1
65.0	10	10	10	10	10	10	9	7	6	5	2
55.0	12	12	11	10	10	10	10	10	7	6	3
47.5	20	18	17	15	13	11	10	10	9	6	3
42.5	26	25	23	19	16	13	11	10	10	7	4
37.5	33	31	28	25	21	16	13	10	10	7	4
33.0	50	38	34	29	25	19	15	10	10	7	4
29.0	106	71	41	34	28	23	17	11	10	7	4
25.5	164	120	71	38	31	25	18	12	10	7	4
22.5	224	164	106	50	33	26	20	12	10	7	4
19.5	291	214	141	73	36	28	22	13	10	8	5
17.0	348	259	171	95	38	29	23	14	10	8	5
15.0	394	295	195	111	42	30	23	14	10	8	5
13.0	436	329	219	125	48	31	24	14	10	8	5
11.0	474	361	241	139	54	32	24	14	10	8	5
9.0	507	389	262	150	61	33	25	15	10	8	5
7.0	535	412	279	160	67	33	25	15	10	8	5
5.0	556	430	293	168	72	34	25	15	10	8	5
3.0	570	442	302	174	76	34	26	15	10	8	5
1.0	577	448	306	176	78	34	26	15	10	8	5
0.0	578	449	307	177	78	34	26	15	10	8	5
-1.0	577	448	306	176	78	34	26	15	10	8	5
-3.0	570	442	302	174	76	34	26	15	10	8	5
-5.0	556	430	293	168	72	34	25	15	10	8	5
-7.0	535	412	279	160	67	33	25	15	10	8	5
-9.0	507	389	262	150	61	33	25	15	10	8	5
-11.0	474	361	241	139	54	32	24	14	10	8	5
-13.0	436	329	219	125	48	31	24	14	10	8	5
-15.0	394	295	195	111	42	30	23	14	10	8	5
-17.0	348	259	171	95	38	29	23	14	10	8	5
-19.5	291	214	141	73	36	28	22	13	10	8	5
-22.5	224	164	106	50	33	26	20	12	10	7	4
-25.5	164	120	71	38	31	25	18	12	10	7	4
-29.0	106	71	41	34	28	23	17	11	10	7	4
-33.0	50	38	34	29	25	19	15	10	10	7	4
-37.5	33	31	28	25	21	16	13	10	10	7	4
-42.5	26	25	23	19	16	13	11	10	10	7	4
-47.5	20	18	17	15	13	11	10	10	9	6	3
-55.0	12	12	11	10	10	10	10	10	7	6	3
-65.0	10	10	10	10	10	10	9	7	6	5	2
-75.0	7	7	7	7	7	7	6	6	5	4	1
-85.0	4	4	4	4	4	4	3	3	2	1	0



Isocandela Diagram (Percent of Maximum Intensity)



879 cd (90%) 781 cd (80%) 683 cd (70%) 586 cd (60%) 488 cd (50%)
390 cd (40%) 293 cd (30%) 195 cd (20%) 97 cd (10%)