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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-SP-9-4000K
Order Number
12408683
Test Number
12408683.08B
Revised:
2020-01-24
Test Date

2018-08-09

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, 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:	648.5 Lumens
Luminaire Efficacy:	31.4 lm/w
Maximum Candela:	2483 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.1773 A
Power:	20.67 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

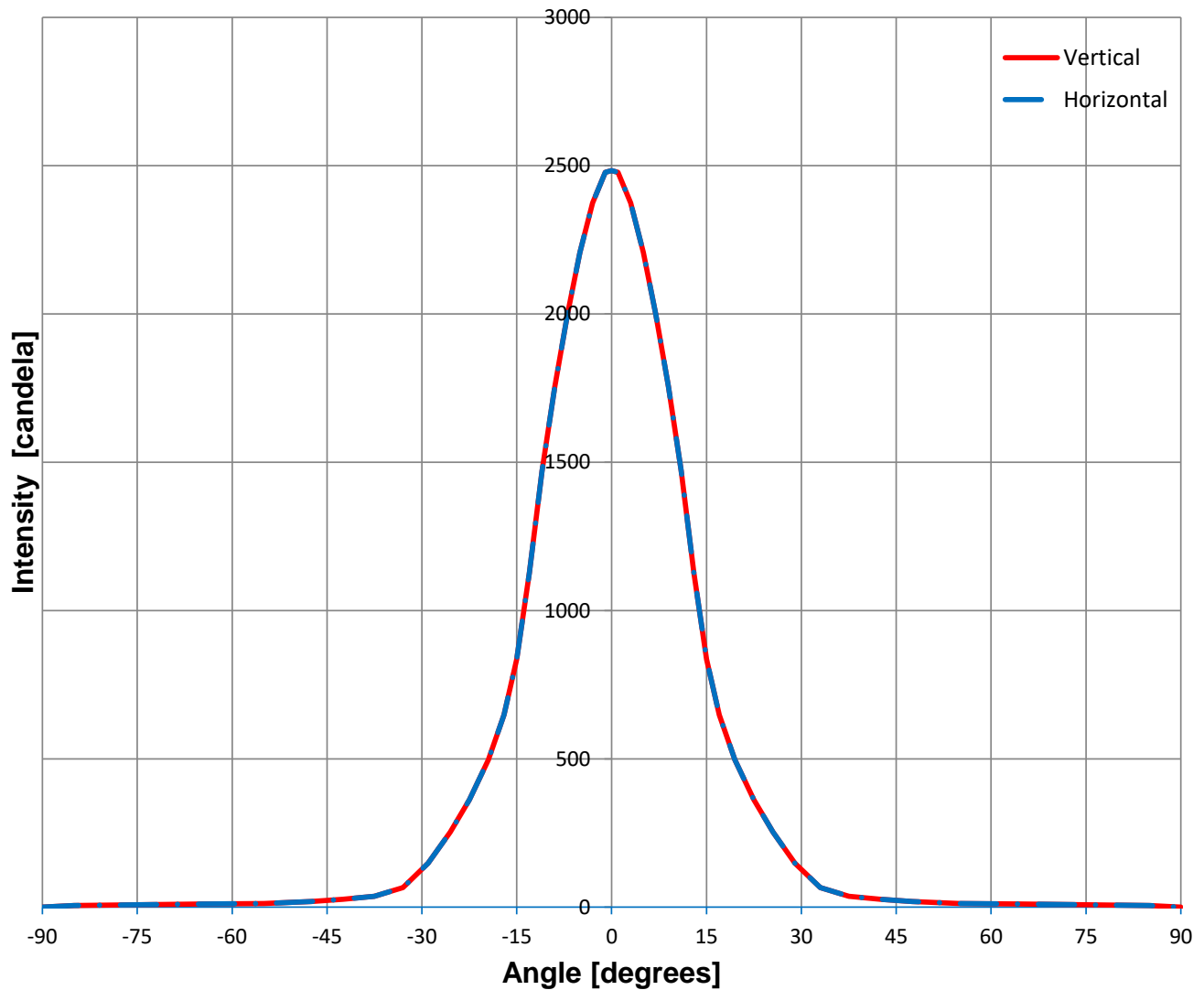
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.1773 A	20.67 W	0.971	60 Hz	19.1 %

Summary of Results

Total Lumen Output:	648.5 Lumens	Maximum Candela:	2483.3 Candela
Luminaire Efficacy:	31.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	515.0 Lumens	Field Angle :	51.3 H X 51.3 V
Beam Lumens:	263.5 Lumens	Beam Angle :	24.7 H X 24.7 V
Spill Light Lumens:	133.5 Lumens	IESNA Type:	4 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	5	5	5	5
75.0	8	8	8	8	8	8	8	8	8	8	8
65.0	11	11	11	11	11	11	11	11	11	10	10
55.0	12	12	12	12	12	12	12	12	12	11	11
47.5	19	19	19	19	18	18	18	17	17	16	15
42.5	26	26	26	26	26	25	24	24	23	22	21
37.5	36	36	36	35	35	34	33	32	31	29	28
33.0	66	66	65	62	58	53	49	45	41	38	36
29.0	148	148	145	139	129	118	105	91	76	63	50
25.5	253	252	248	238	224	207	187	164	140	116	88
22.5	362	361	354	341	323	300	273	243	211	178	138
19.5	496	495	484	465	439	407	370	331	290	248	196
17.0	649	647	631	601	560	513	463	412	361	310	248
15.0	835	832	805	753	689	618	549	483	420	361	290
13.0	1127	1121	1073	980	870	756	651	562	483	412	331
11.0	1471	1463	1403	1286	1125	943	783	651	549	463	370
9.0	1754	1747	1690	1578	1405	1178	943	756	618	513	407
7.0	1998	1990	1926	1806	1636	1405	1125	870	689	560	439
5.0	2207	2198	2126	1991	1806	1578	1286	980	753	601	465
3.0	2374	2361	2274	2126	1926	1690	1403	1073	805	631	484
1.0	2477	2458	2361	2198	1990	1747	1463	1121	832	647	495
0.0	2483	2477	2374	2207	1998	1754	1471	1127	835	649	496
-1.0	2477	2458	2361	2198	1990	1747	1463	1121	832	647	495
-3.0	2374	2361	2274	2126	1926	1690	1403	1073	805	631	484
-5.0	2207	2198	2126	1991	1806	1578	1286	980	753	601	465
-7.0	1998	1990	1926	1806	1636	1405	1125	870	689	560	439
-9.0	1754	1747	1690	1578	1405	1178	943	756	618	513	407
-11.0	1471	1463	1403	1286	1125	943	783	651	549	463	370
-13.0	1127	1121	1073	980	870	756	651	562	483	412	331
-15.0	835	832	805	753	689	618	549	483	420	361	290
-17.0	649	647	631	601	560	513	463	412	361	310	248
-19.5	496	495	484	465	439	407	370	331	290	248	196
-22.5	362	361	354	341	323	300	273	243	211	178	138
-25.5	253	252	248	238	224	207	187	164	140	116	88
-29.0	148	148	145	139	129	118	105	91	76	63	50
-33.0	66	66	65	62	58	53	49	45	41	38	36
-37.5	36	36	36	35	35	34	33	32	31	29	28
-42.5	26	26	26	26	26	25	24	24	23	22	21
-47.5	19	19	19	19	18	18	18	17	17	16	15
-55.0	12	12	12	12	12	12	12	12	12	11	11
-65.0	11	11	11	11	11	11	11	11	11	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	5	5	5	5	5	4	4	3	2	2	1
75.0	8	8	8	8	7	7	7	7	6	4	2
65.0	10	10	11	11	10	10	9	8	7	6	2
55.0	11	11	11	11	11	11	10	10	8	7	3
47.5	15	14	13	12	11	11	11	10	9	7	4
42.5	19	18	16	14	13	11	11	11	10	7	4
37.5	26	23	21	18	15	13	11	11	10	7	5
33.0	32	29	26	22	18	14	12	11	11	8	5
29.0	40	35	31	26	21	16	13	11	11	8	5
25.5	60	43	35	29	23	18	14	11	10	8	5
22.5	94	60	40	32	26	19	15	11	10	8	5
19.5	138	88	50	36	28	21	15	11	10	8	5
17.0	178	116	63	38	29	22	16	11	10	8	5
15.0	211	140	76	41	31	23	17	12	11	8	5
13.0	243	164	91	45	32	24	17	12	11	8	5
11.0	273	187	105	49	33	24	18	12	11	8	5
9.0	300	207	118	53	34	25	18	12	11	8	5
7.0	323	224	129	58	35	26	18	12	11	8	5
5.0	341	238	139	62	35	26	19	12	11	8	5
3.0	354	248	145	65	36	26	19	12	11	8	5
1.0	361	252	148	66	36	26	19	12	11	8	5
0.0	362	253	148	66	36	26	19	12	11	8	5
-1.0	361	252	148	66	36	26	19	12	11	8	5
-3.0	354	248	145	65	36	26	19	12	11	8	5
-5.0	341	238	139	62	35	26	19	12	11	8	5
-7.0	323	224	129	58	35	26	18	12	11	8	5
-9.0	300	207	118	53	34	25	18	12	11	8	5
-11.0	273	187	105	49	33	24	18	12	11	8	5
-13.0	243	164	91	45	32	24	17	12	11	8	5
-15.0	211	140	76	41	31	23	17	12	11	8	5
-17.0	178	116	63	38	29	22	16	11	10	8	5
-19.5	138	88	50	36	28	21	15	11	10	8	5
-22.5	94	60	40	32	26	19	15	11	10	8	5
-25.5	60	43	35	29	23	18	14	11	10	8	5
-29.0	40	35	31	26	21	16	13	11	11	8	5
-33.0	32	29	26	22	18	14	12	11	11	8	5
-37.5	26	23	21	18	15	13	11	11	10	7	5
-42.5	19	18	16	14	13	11	11	11	10	7	4
-47.5	15	14	13	12	11	11	11	10	9	7	4
-55.0	11	11	11	11	11	11	10	10	8	7	3
-65.0	10	10	11	11	10	10	9	8	7	6	2
-75.0	8	8	8	8	7	7	7	7	6	4	2
-85.0	5	5	5	5	5	4	4	3	2	2	1



Isocandela Diagram (Percent of Maximum Intensity)

