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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-FL-9-4000K
Order Number
12408683
Test Number
12408683.04C
Revised:
2020-01-24
Test Date
2018-08-10

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:	731.6 Lumens
Luminaire Efficacy:	35.2 lm/w
Maximum Candela:	1416 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.1781 A
Power:	20.78 W
Power Factor:	0.971
Frequency:	60 Hz
Current THD:	19.0 %

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



Distribution - Goniophotometer

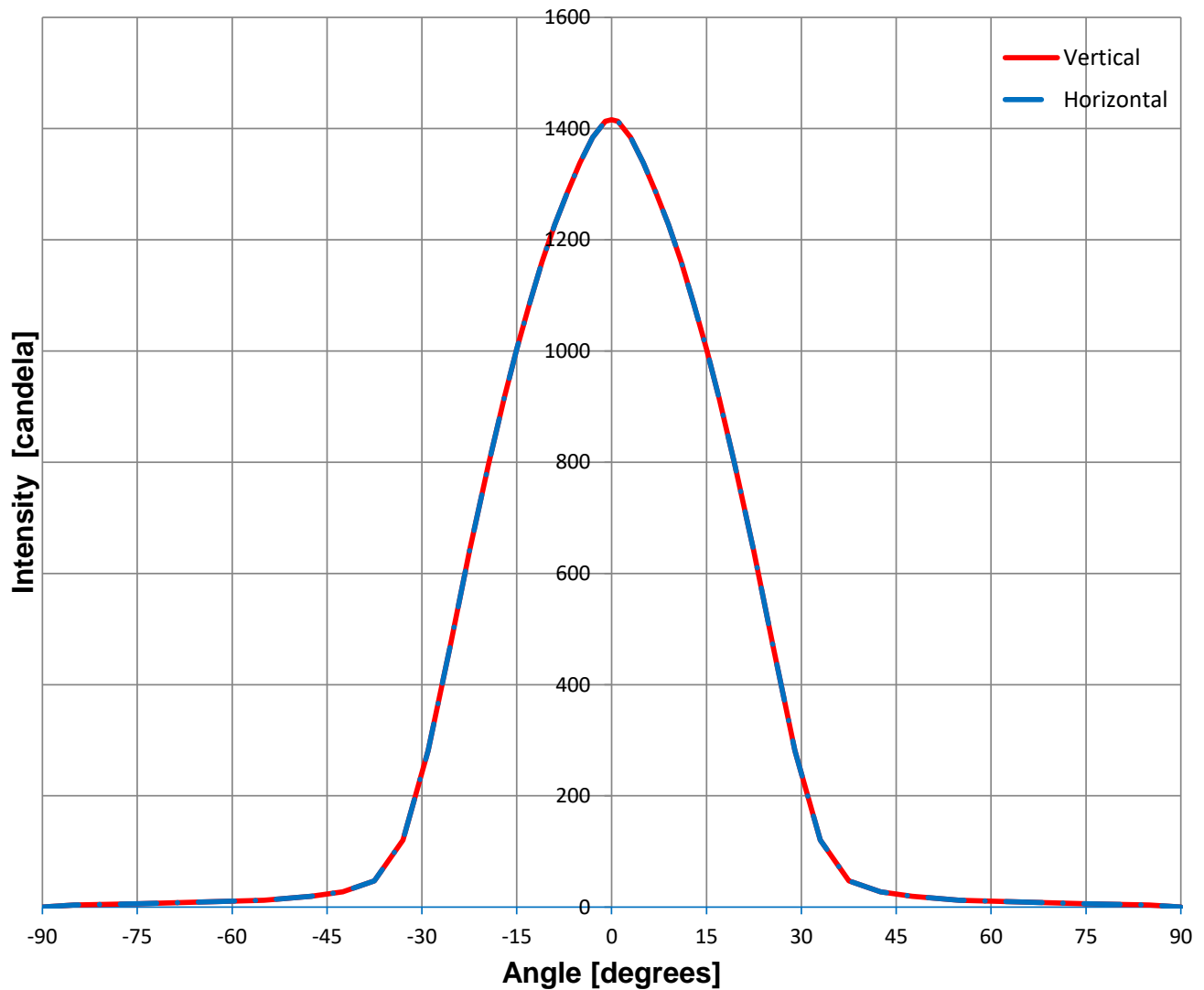
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.1781 A	20.78 W	0.971	60 Hz	19.0 %

Summary of Results

Total Lumen Output:	731.6 Lumens	Maximum Candela:	1415.9 Candela
Luminaire Efficacy:	35.2 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	649.0 Lumens	Field Angle :	64.9 H X 64.9 V
Beam Lumens:	432.8 Lumens	Beam Angle :	42.4 H X 42.4 V
Spill Light Lumens:	82.6 Lumens	IESNA Type:	4 H X 4 V

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	4	4	4	4	4	4	4	4	4	4	4
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	11	11
47.5	20	20	20	19	19	19	18	18	17	17	16
42.5	28	28	27	27	27	26	25	25	24	23	22
37.5	47	47	47	46	44	43	41	39	36	33	30
33.0	120	120	117	112	103	92	81	69	59	52	46
29.0	281	281	275	263	246	224	199	171	142	114	84
25.5	470	469	460	444	420	388	352	310	266	221	165
22.5	640	639	629	611	584	548	503	452	395	335	261
19.5	794	793	784	764	735	698	651	596	532	461	369
17.0	914	913	902	881	851	811	762	704	638	564	461
15.0	1003	1002	990	968	936	893	842	782	714	638	532
13.0	1084	1083	1071	1048	1014	970	916	852	782	704	596
11.0	1161	1159	1146	1120	1083	1037	981	916	842	762	651
9.0	1227	1226	1212	1185	1146	1096	1037	970	893	811	698
7.0	1285	1283	1267	1239	1198	1146	1083	1014	936	851	735
5.0	1339	1336	1317	1283	1239	1185	1120	1048	968	881	764
3.0	1384	1380	1356	1317	1267	1212	1146	1071	990	902	784
1.0	1413	1409	1380	1336	1283	1226	1159	1083	1002	913	793
0.0	1416	1413	1384	1339	1285	1227	1161	1084	1003	914	794
-1.0	1413	1409	1380	1336	1283	1226	1159	1083	1002	913	793
-3.0	1384	1380	1356	1317	1267	1212	1146	1071	990	902	784
-5.0	1339	1336	1317	1283	1239	1185	1120	1048	968	881	764
-7.0	1285	1283	1267	1239	1198	1146	1083	1014	936	851	735
-9.0	1227	1226	1212	1185	1146	1096	1037	970	893	811	698
-11.0	1161	1159	1146	1120	1083	1037	981	916	842	762	651
-13.0	1084	1083	1071	1048	1014	970	916	852	782	704	596
-15.0	1003	1002	990	968	936	893	842	782	714	638	532
-17.0	914	913	902	881	851	811	762	704	638	564	461
-19.5	794	793	784	764	735	698	651	596	532	461	369
-22.5	640	639	629	611	584	548	503	452	395	335	261
-25.5	470	469	460	444	420	388	352	310	266	221	165
-29.0	281	281	275	263	246	224	199	171	142	114	84
-33.0	120	120	117	112	103	92	81	69	59	52	46
-37.5	47	47	47	46	44	43	41	39	36	33	30
-42.5	28	28	27	27	27	26	25	25	24	23	22
-47.5	20	20	20	19	19	19	18	18	17	17	16
-55.0	12	12	12	12	12	12	12	12	12	11	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	4	4	4	4	4	4	4	4	4	4	4

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	4	4	3	3	3	3	3	2	1	1	0
75.0	6	6	6	6	5	5	5	5	4	3	1
65.0	8	8	8	8	8	7	7	6	5	4	1
55.0	11	11	11	10	10	9	8	7	6	5	2
47.5	15	14	13	12	11	11	10	8	7	5	3
42.5	20	19	17	15	13	11	11	9	7	5	3
37.5	27	24	22	19	16	13	11	10	8	5	3
33.0	39	33	27	23	19	15	12	10	8	6	3
29.0	57	45	36	27	22	17	13	11	8	6	3
25.5	107	65	45	33	24	19	14	11	8	6	4
22.5	177	107	57	39	27	20	15	11	8	6	4
19.5	261	165	84	46	30	22	16	11	9	6	4
17.0	335	221	114	52	33	23	17	11	9	6	4
15.0	395	266	142	59	36	24	17	12	9	6	4
13.0	452	310	171	69	39	25	18	12	9	6	4
11.0	503	352	199	81	41	25	18	12	9	6	4
9.0	548	388	224	92	43	26	19	12	9	6	4
7.0	584	420	246	103	44	27	19	12	9	6	4
5.0	611	444	263	112	46	27	19	12	9	6	4
3.0	629	460	275	117	47	27	20	12	9	6	4
1.0	639	469	281	120	47	28	20	12	9	6	4
0.0	640	470	281	120	47	28	20	12	9	6	4
-1.0	639	469	281	120	47	28	20	12	9	6	4
-3.0	629	460	275	117	47	27	20	12	9	6	4
-5.0	611	444	263	112	46	27	19	12	9	6	4
-7.0	584	420	246	103	44	27	19	12	9	6	4
-9.0	548	388	224	92	43	26	19	12	9	6	4
-11.0	503	352	199	81	41	25	18	12	9	6	4
-13.0	452	310	171	69	39	25	18	12	9	6	4
-15.0	395	266	142	59	36	24	17	12	9	6	4
-17.0	335	221	114	52	33	23	17	11	9	6	4
-19.5	261	165	84	46	30	22	16	11	9	6	4
-22.5	177	107	57	39	27	20	15	11	8	6	4
-25.5	107	65	45	33	24	19	14	11	8	6	4
-29.0	57	45	36	27	22	17	13	11	8	6	3
-33.0	39	33	27	23	19	15	12	10	8	6	3
-37.5	27	24	22	19	16	13	11	10	8	5	3
-42.5	20	19	17	15	13	11	11	9	7	5	3
-47.5	15	14	13	12	11	11	10	8	7	5	3
-55.0	11	11	11	10	10	9	8	7	6	5	2
-65.0	8	8	8	8	8	7	7	6	5	4	1
-75.0	6	6	6	6	5	5	5	5	4	3	1
-85.0	4	4	3	3	3	3	3	2	1	1	0



Isocandela Diagram (Percent of Maximum Intensity)

