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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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
B-K Lighting INC

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Madera, CA 93636
United States

Catalog Number

AT-LED-e162-ASY-WHP-9-0-YM-MT(5000K)

Order Number
14201776
Test Number
14201776.05

Test Date

2022-02-10

Prepared By

William Escobar, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Square white metal housing and glass lens
Lamp: White LED array
Mounting: Pendant
Ballast/Driver: DELTA USCI-200140GA

Luminaire



Luminaire Characteristics

Luminous Length: 7.50 in.
Luminous Width: 7.500 in.

Summary of Results

Total Luminaire Output: 14730 Lumens
Luminaire Efficacy: 101 lm/w
Maximum Candela: 9935 Candela

Test Conditions

Test Temperature: 25.5 °C
Voltage: 120.0 VAC
Current: 1.239 A
Power: 146.1 W
Power Factor: 0.982
Frequency: 60 Hz
Current THD: 17.6 %

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



Distribution - Goniophotometer

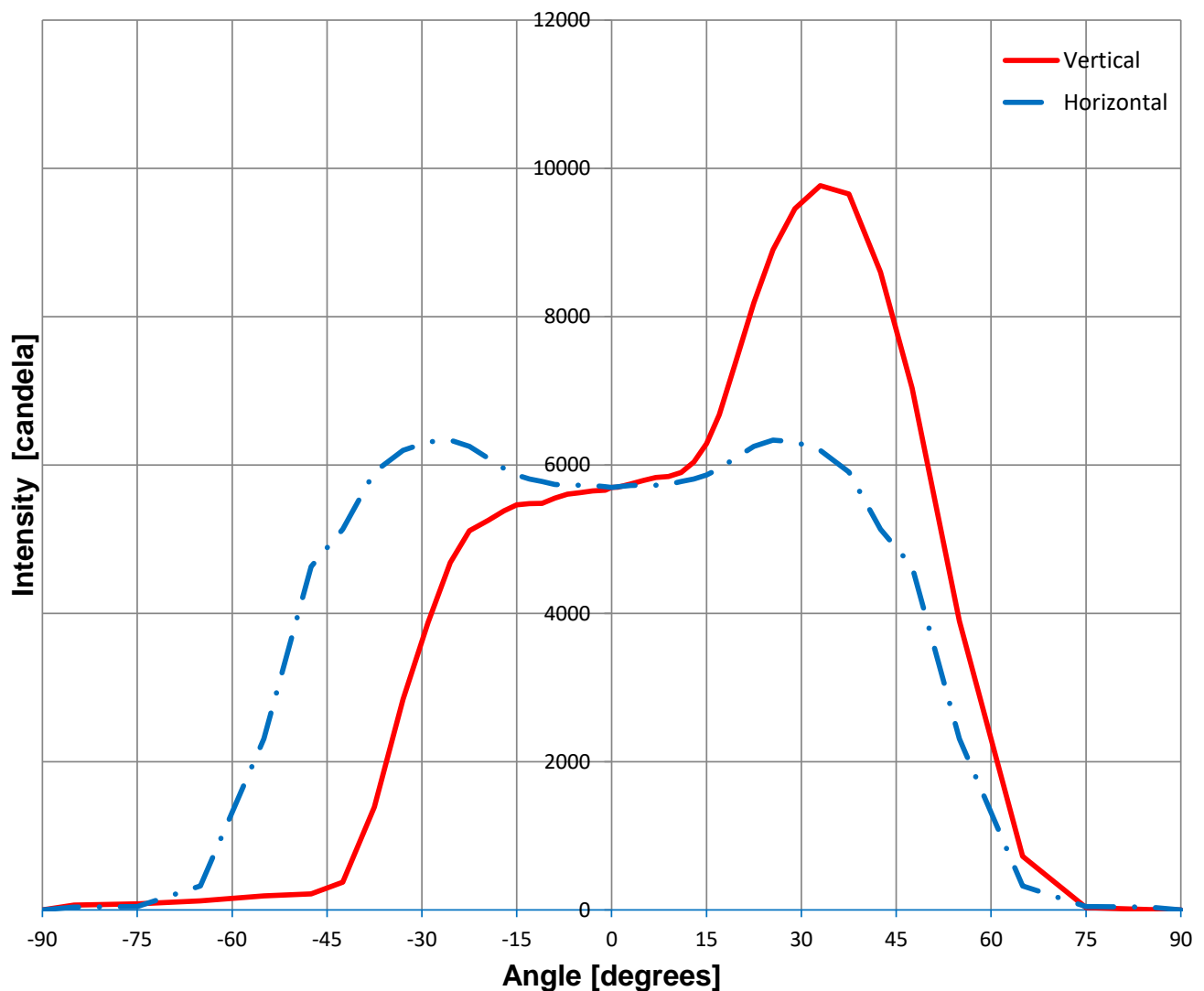
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	1.239 A	146.1 W	0.982	60 Hz	17.6 %

Summary of Results

Total Lumen Output:	14731.9 Lumens	Maximum Candela:	9935.4 Candela
Luminaire Efficacy:	100.8 Lumens/Watt	Maximum Angle:	-9 H 33 V
Field Lumens:	14198.3 Lumens	Field Angle :	121.0 H X 103.0 V
Beam Lumens:	11013.1 Lumens	Beam Angle :	83.7 H X 74.5 V
Spill Light Lumens:	533.6 Lumens	IESNA Type:	6 H X 6 V

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	6	6	6	6	6	7	7	8	9	9	10
75.0	32	32	30	29	30	30	31	32	32	32	32
65.0	723	715	696	678	674	665	649	628	604	577	521
55.0	3896	3843	3728	3659	3647	3651	3670	3654	3635	3587	3455
47.5	7036	6983	6858	6813	6803	6750	6662	6522	6360	6149	5831
42.5	8600	8549	8427	8358	8283	8255	8209	8156	8056	7908	7704
37.5	9656	9646	9617	9634	9622	9583	9505	9414	9308	9209	9077
33.0	9768	9783	9818	9892	9934	9935	9868	9776	9669	9568	9467
29.0	9458	9494	9578	9673	9755	9787	9809	9810	9803	9763	9670
25.5	8904	8948	9040	9132	9210	9276	9375	9504	9611	9682	9697
22.5	8189	8285	8412	8480	8545	8639	8786	8978	9171	9326	9471
19.5	7355	7473	7607	7700	7802	7944	8145	8345	8581	8811	9029
17.0	6676	6804	6941	7047	7184	7377	7578	7817	8085	8345	8606
15.0	6288	6394	6510	6623	6762	6949	7159	7422	7694	7964	8265
13.0	6040	6123	6203	6298	6433	6589	6794	7058	7333	7603	7945
11.0	5901	5953	6005	6078	6179	6305	6500	6726	7014	7294	7630
9.0	5845	5870	5909	5950	6003	6129	6274	6481	6733	6988	7283
7.0	5830	5840	5857	5876	5923	5996	6097	6262	6460	6684	6958
5.0	5792	5809	5817	5828	5855	5897	5977	6087	6241	6439	6675
3.0	5744	5776	5774	5792	5796	5815	5877	5958	6076	6236	6440
1.0	5700	5724	5738	5740	5742	5751	5800	5844	5939	6053	6209
0.0	5698	5709	5724	5729	5727	5738	5778	5811	5865	5953	6089
-1.0	5662	5681	5695	5716	5724	5736	5746	5769	5804	5869	5969
-3.0	5651	5646	5661	5671	5665	5665	5663	5671	5691	5730	5765
-5.0	5627	5623	5606	5615	5630	5619	5604	5591	5600	5607	5597
-7.0	5606	5593	5568	5567	5580	5576	5556	5530	5523	5510	5464
-9.0	5554	5572	5538	5530	5534	5543	5523	5480	5463	5437	5355
-11.0	5484	5508	5494	5486	5493	5488	5481	5463	5418	5381	5282
-13.0	5479	5472	5451	5433	5433	5430	5417	5376	5316	5277	5158
-15.0	5462	5453	5413	5389	5373	5371	5354	5311	5237	5148	4965
-17.0	5381	5380	5351	5333	5319	5301	5283	5232	5149	5032	4773
-19.5	5255	5273	5262	5251	5256	5221	5166	5096	4982	4798	4458
-22.5	5114	5133	5133	5099	5041	4997	4930	4793	4613	4314	3889
-25.5	4685	4729	4760	4705	4602	4477	4369	4185	3929	3614	3163
-29.0	3878	3942	4019	4000	3856	3695	3515	3309	3027	2731	2346
-33.0	2839	2896	2966	2868	2764	2624	2436	2234	1997	1763	1481
-37.5	1389	1448	1544	1484	1391	1270	1143	1011	888	768	620
-42.5	373	403	457	455	432	387	341	317	315	323	304
-47.5	217	225	239	238	228	206	183	203	226	245	246
-55.0	189	178	158	144	139	139	147	152	150	150	146
-65.0	121	119	116	112	111	111	115	119	125	131	124
-75.0	82	83	85	86	84	82	81	80	80	79	79
-85.0	67	67	67	67	68	68	68	68	68	67	67

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	11	12	13	14	15	16	17	18	16	12	5
75.0	32	32	31	31	31	31	31	32	32	29	13
65.0	426	370	304	216	132	67	53	44	38	36	21
55.0	3251	2906	2406	1949	1268	686	355	118	48	38	27
47.5	5351	4900	4301	3501	3058	2284	1288	354	65	39	29
42.5	7304	6757	6076	4838	3906	3295	2263	637	83	40	30
37.5	8917	8625	8137	6972	5195	4111	3043	1349	116	42	31
33.0	9350	9219	8910	8150	6391	4762	3679	2032	152	43	32
29.0	9499	9304	9128	8616	7248	5520	4191	2413	179	43	33
25.5	9576	9386	9163	8854	7771	6161	4582	2586	189	44	34
22.5	9484	9371	9165	8946	8107	6529	4894	2666	186	45	35
19.5	9170	9208	9122	8891	8254	6747	5155	2672	209	45	35
17.0	8821	8963	8969	8785	8252	6822	5352	2672	225	45	36
15.0	8545	8712	8798	8631	8182	6796	5437	2665	239	46	36
13.0	8242	8436	8525	8446	8028	6749	5490	2653	257	46	36
11.0	7923	8123	8245	8211	7848	6672	5512	2639	272	46	36
9.0	7582	7816	7963	7939	7605	6532	5459	2613	290	46	37
7.0	7267	7517	7659	7651	7332	6310	5360	2575	305	46	37
5.0	6968	7204	7335	7303	7006	6085	5211	2514	316	46	37
3.0	6683	6875	6979	6921	6614	5728	4993	2439	323	46	37
1.0	6398	6519	6537	6440	6143	5334	4755	2354	326	46	37
0.0	6253	6336	6311	6198	5904	5133	4630	2308	325	46	37
-1.0	6100	6161	6095	5936	5637	4890	4456	2239	320	46	37
-3.0	5825	5820	5659	5406	5097	4399	4099	2094	308	46	37
-5.0	5595	5495	5250	4910	4544	3909	3734	1944	291	46	37
-7.0	5385	5216	4876	4412	3972	3436	3352	1790	272	46	37
-9.0	5199	4929	4492	3947	3432	2976	2963	1635	249	46	37
-11.0	5025	4627	4096	3466	2918	2564	2573	1475	225	46	37
-13.0	4816	4307	3693	2988	2415	2145	2173	1312	200	45	37
-15.0	4564	3997	3250	2490	1927	1739	1769	1145	173	45	37
-17.0	4305	3655	2842	1998	1472	1340	1365	945	154	45	36
-19.5	3913	3161	2301	1494	981	816	923	709	134	44	36
-22.5	3271	2553	1734	978	535	453	457	448	109	44	36
-25.5	2567	1936	1263	684	326	209	255	315	88	43	35
-29.0	1877	1362	853	441	251	183	165	182	70	43	35
-33.0	1191	888	523	297	240	183	128	115	60	43	34
-37.5	491	378	261	238	232	155	106	105	56	42	33
-42.5	264	191	186	190	175	124	117	98	56	42	32
-47.5	195	170	159	155	142	121	122	94	52	42	31
-55.0	145	149	140	125	105	84	76	63	51	42	29
-65.0	105	99	103	110	106	92	75	62	49	43	24
-75.0	78	78	79	72	68	65	61	56	49	38	15
-85.0	66	65	63	61	58	54	49	41	31	17	5



Isocandela Diagram (Percent of Maximum Intensity)

