



UL LLC
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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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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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United States

Catalog Number
RI-LED-TR-E133-NSP-WHP-13-C-INC-MT-PROTO-(4000K w/ 40x1 Film)

Order Number
13742921
Test Number
13742921.05

Test Date

2021-04-02

Prepared By

Khang Nguyen, Technician

Approved By

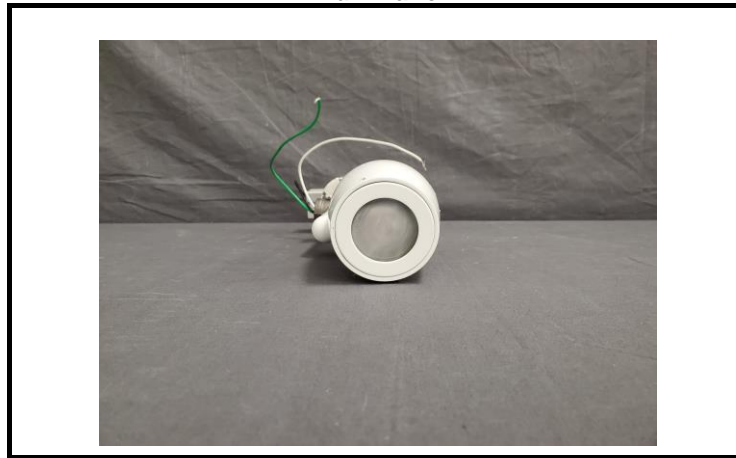
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White formed metal housing and clear glass lens
Lamp: One (1) White LED with optic attached
Mounting: Pole/Arm
Ballast/Driver: One (1) PowerSelect PS60U100C14R

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output:	700.1 Lumens
Luminaire Efficacy:	53.3 lm/w
Maximum Candela:	2441 Candela

Test Conditions

Test Temperature:	25.3 °C
Voltage:	120.1 VAC
Current:	0.1114 A
Power:	13.14 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.2 %

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



Distribution - Goniophotometer

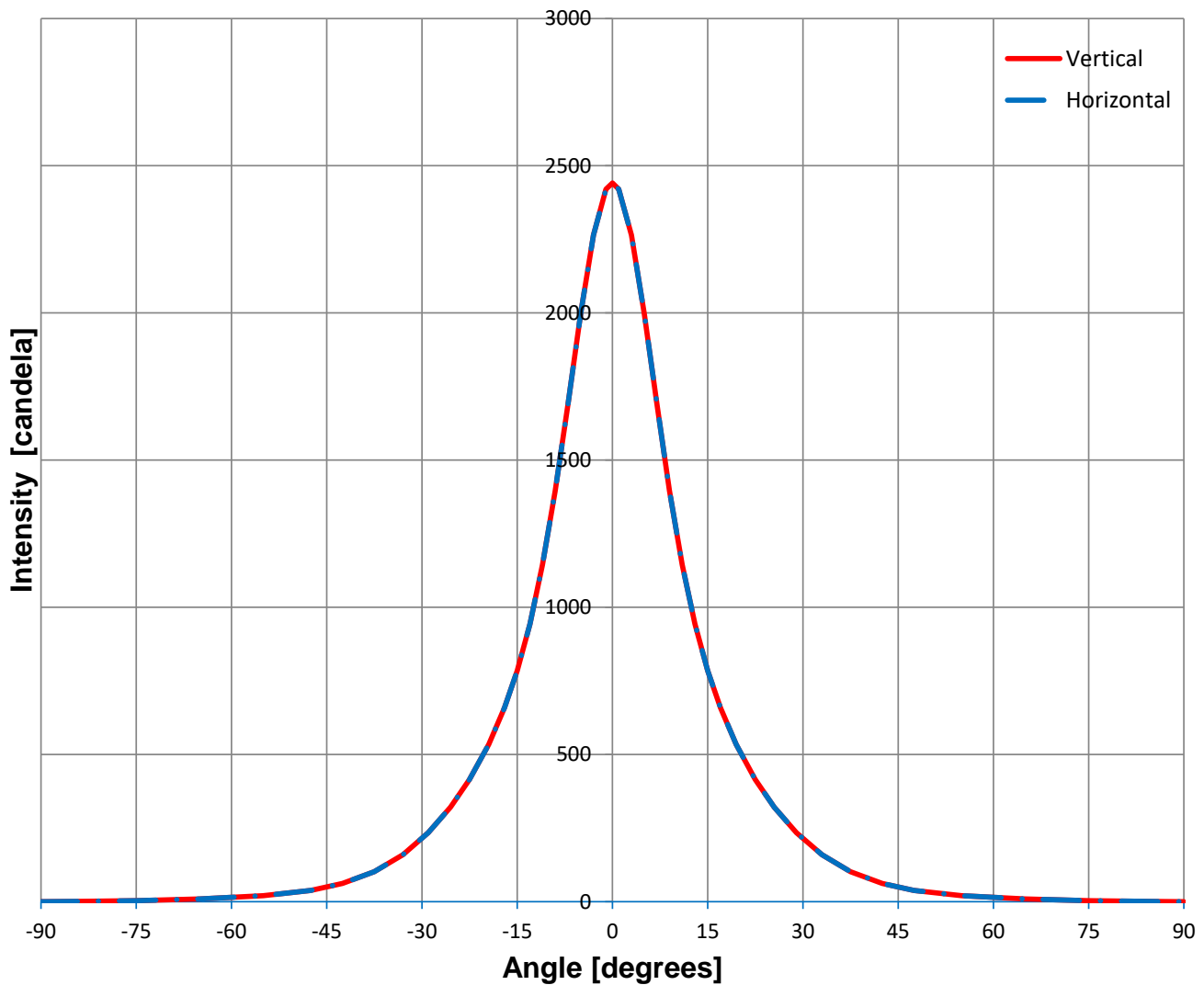
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.1 VAC	0.1114 A	13.14 W	0.983	60 Hz	12.2 %

Summary of Results

Total Lumen Output:	700.1 Lumens	Maximum Candela:	2441.4 Candela
Luminaire Efficacy:	53.3 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	523.7 Lumens	Field Angle :	57.2 H X 57.2 V
Beam Lumens:	179.9 Lumens	Beam Angle :	20.8 H X 20.8 V
Spill Light Lumens:	176.4 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	1	1	1	1	1	1	1	1	1	1	1
75.0	4	4	4	4	4	4	4	4	4	3	3
65.0	9	9	9	9	9	9	9	9	9	9	8
55.0	20	20	20	20	20	19	19	19	18	18	17
47.5	38	38	38	37	37	36	35	34	33	31	29
42.5	62	62	61	60	59	57	55	53	50	48	44
37.5	102	102	101	99	96	93	89	84	79	74	68
33.0	160	160	158	155	150	144	137	129	120	111	99
29.0	234	234	231	226	218	208	197	184	170	156	138
25.5	321	321	317	308	297	283	266	247	227	207	182
22.5	416	415	409	397	382	361	338	312	286	258	225
19.5	534	533	524	507	484	455	423	389	353	317	274
17.0	659	657	645	621	588	548	505	460	415	370	317
15.0	785	783	766	732	687	635	579	523	467	415	353
13.0	944	940	915	867	804	734	661	590	523	460	389
11.0	1145	1140	1102	1032	942	846	751	661	579	505	423
9.0	1395	1388	1332	1229	1104	972	846	734	635	548	455
7.0	1690	1679	1597	1453	1278	1104	942	804	687	588	484
5.0	1999	1984	1872	1680	1453	1229	1032	867	732	621	507
3.0	2264	2244	2107	1872	1597	1332	1102	915	766	645	524
1.0	2421	2395	2244	1984	1679	1388	1140	940	783	657	533
0.0	2441	2421	2264	1999	1690	1395	1145	944	785	659	534
-1.0	2421	2395	2244	1984	1679	1388	1140	940	783	657	533
-3.0	2264	2244	2107	1872	1597	1332	1102	915	766	645	524
-5.0	1999	1984	1872	1680	1453	1229	1032	867	732	621	507
-7.0	1690	1679	1597	1453	1278	1104	942	804	687	588	484
-9.0	1395	1388	1332	1229	1104	972	846	734	635	548	455
-11.0	1145	1140	1102	1032	942	846	751	661	579	505	423
-13.0	944	940	915	867	804	734	661	590	523	460	389
-15.0	785	783	766	732	687	635	579	523	467	415	353
-17.0	659	657	645	621	588	548	505	460	415	370	317
-19.5	534	533	524	507	484	455	423	389	353	317	274
-22.5	416	415	409	397	382	361	338	312	286	258	225
-25.5	321	321	317	308	297	283	266	247	227	207	182
-29.0	234	234	231	226	218	208	197	184	170	156	138
-33.0	160	160	158	155	150	144	137	129	120	111	99
-37.5	102	102	101	99	96	93	89	84	79	74	68
-42.5	62	62	61	60	59	57	55	53	50	48	44
-47.5	38	38	38	37	37	36	35	34	33	31	29
-55.0	20	20	20	20	20	19	19	19	18	18	17
-65.0	9	9	9	9	9	9	9	9	9	9	8
-75.0	4	4	4	4	4	4	4	4	4	3	3
-85.0	1	1	1	1	1	1	1	1	1	1	1



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	1	1	1	1	1	1	1	0	0	0	0
75.0	3	3	3	3	3	2	2	2	1	1	0
65.0	8	8	7	7	6	5	4	3	2	1	0
55.0	16	15	14	13	11	9	8	6	3	2	0
47.5	27	25	22	19	16	14	11	8	4	2	1
42.5	40	36	31	26	21	17	14	9	5	2	1
37.5	60	52	44	36	28	21	16	11	6	3	1
33.0	86	73	60	47	36	26	19	13	7	3	1
29.0	118	98	78	60	44	31	22	14	7	3	1
25.5	152	126	98	73	52	36	25	15	8	3	1
22.5	187	152	118	86	60	40	27	16	8	3	1
19.5	225	182	138	99	68	44	29	17	8	3	1
17.0	258	207	156	111	74	48	31	18	9	3	1
15.0	286	227	170	120	79	50	33	18	9	4	1
13.0	312	247	184	129	84	53	34	19	9	4	1
11.0	338	266	197	137	89	55	35	19	9	4	1
9.0	361	283	208	144	93	57	36	19	9	4	1
7.0	382	297	218	150	96	59	37	20	9	4	1
5.0	397	308	226	155	99	60	37	20	9	4	1
3.0	409	317	231	158	101	61	38	20	9	4	1
1.0	415	321	234	160	102	62	38	20	9	4	1
0.0	416	321	234	160	102	62	38	20	9	4	1
-1.0	415	321	234	160	102	62	38	20	9	4	1
-3.0	409	317	231	158	101	61	38	20	9	4	1
-5.0	397	308	226	155	99	60	37	20	9	4	1
-7.0	382	297	218	150	96	59	37	20	9	4	1
-9.0	361	283	208	144	93	57	36	19	9	4	1
-11.0	338	266	197	137	89	55	35	19	9	4	1
-13.0	312	247	184	129	84	53	34	19	9	4	1
-15.0	286	227	170	120	79	50	33	18	9	4	1
-17.0	258	207	156	111	74	48	31	18	9	3	1
-19.5	225	182	138	99	68	44	29	17	8	3	1
-22.5	187	152	118	86	60	40	27	16	8	3	1
-25.5	152	126	98	73	52	36	25	15	8	3	1
-29.0	118	98	78	60	44	31	22	14	7	3	1
-33.0	86	73	60	47	36	26	19	13	7	3	1
-37.5	60	52	44	36	28	21	16	11	6	3	1
-42.5	40	36	31	26	21	17	14	9	5	2	1
-47.5	27	25	22	19	16	14	11	8	4	2	1
-55.0	16	15	14	13	11	9	8	6	3	2	0
-65.0	8	8	7	7	6	5	4	3	2	1	0
-75.0	3	3	3	3	3	2	2	2	1	1	0
-85.0	1	1	1	1	1	1	1	0	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)

