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Floodlight Distribution Test Report

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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For
B-K LIGHTING INC

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Madera, CA 93636-9515
United States

Catalog Number
RGP-12-LED-e66-12-NSP

Order Number
11904577
Test Number
11904577.06

Test Date

2017-08-11

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White metal circular housing with glass prismatic lens
Lamp: Three (3) White LED with optic below each
Mounting: Surface
Ballast/Driver: TRE20

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.25 in.

Summary of Results

Total Luminaire Output:	515.0 Lumens
Luminaire Efficacy:	63.8 lm/w
Maximum Candela:	7246 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.1 VAC
Current:	0.1097 A
Power:	8.066 W
Power Factor:	0.612
Frequency:	60 Hz
Current THD:	128 %

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



Distribution - Goniophotometer

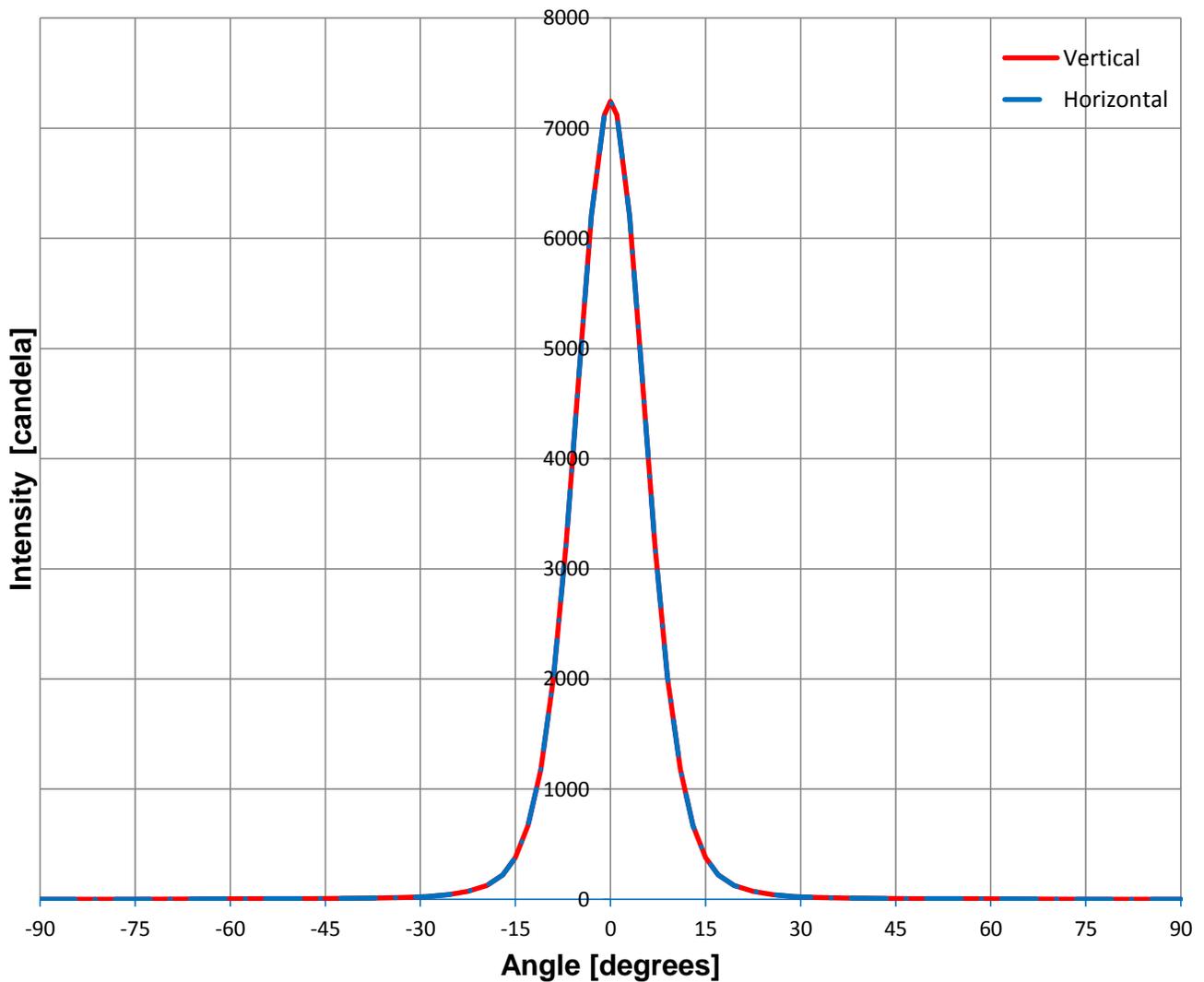
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.1 VAC	0.1097 A	8.066 W	0.612	60 Hz	128 %

Summary of Results

Total Lumen Output:	515.0 Lumens	Maximum Candela:	7245.5 Candela
Luminaire Efficacy:	63.8 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	402.9 Lumens	Field Angle :	25.6 H X 25.6 V
Beam Lumens:	205.1 Lumens	Beam Angle :	12.9 H X 12.9 V
Spill Light Lumens:	112.0 Lumens	IESNA Type:	2 H X 2 V

Maximum Candlepower Plot





Candela Tabulation
Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	0	0	0	0	0	0	0	0	0	0	0
75.0	1	1	1	1	1	1	1	1	1	1	1
65.0	2	2	2	2	2	2	2	2	2	2	2
55.0	4	4	4	4	4	4	3	3	3	3	3
47.5	5	5	5	5	5	5	5	5	5	5	5
42.5	7	7	7	7	7	7	7	7	6	6	6
37.5	11	11	11	11	10	10	10	9	9	8	8
33.0	16	16	15	15	15	14	14	13	12	12	11
29.0	24	24	24	23	22	21	19	18	17	15	14
25.5	41	41	40	38	36	32	29	26	23	20	18
22.5	71	70	68	64	59	52	45	39	33	28	23
19.5	126	125	120	111	99	87	73	61	50	40	31
17.0	221	220	209	188	162	134	110	88	70	55	40
15.0	378	375	352	306	253	201	155	119	91	70	50
13.0	668	662	612	516	411	309	224	163	119	88	61
11.0	1180	1167	1065	875	666	480	332	224	155	110	73
9.0	2014	1988	1790	1445	1069	735	480	309	201	134	87
7.0	3226	3180	2825	2240	1603	1069	666	411	253	162	99
5.0	4736	4659	4091	3182	2240	1445	875	516	306	188	111
3.0	6207	6093	5321	4091	2825	1790	1065	612	352	209	120
1.0	7121	6972	6093	4659	3180	1988	1167	662	375	220	125
0.0	7246	7121	6207	4736	3226	2014	1180	668	378	221	126
-1.0	7121	6972	6093	4659	3180	1988	1167	662	375	220	125
-3.0	6207	6093	5321	4091	2825	1790	1065	612	352	209	120
-5.0	4736	4659	4091	3182	2240	1445	875	516	306	188	111
-7.0	3226	3180	2825	2240	1603	1069	666	411	253	162	99
-9.0	2014	1988	1790	1445	1069	735	480	309	201	134	87
-11.0	1180	1167	1065	875	666	480	332	224	155	110	73
-13.0	668	662	612	516	411	309	224	163	119	88	61
-15.0	378	375	352	306	253	201	155	119	91	70	50
-17.0	221	220	209	188	162	134	110	88	70	55	40
-19.5	126	125	120	111	99	87	73	61	50	40	31
-22.5	71	70	68	64	59	52	45	39	33	28	23
-25.5	41	41	40	38	36	32	29	26	23	20	18
-29.0	24	24	24	23	22	21	19	18	17	15	14
-33.0	16	16	15	15	15	14	14	13	12	12	11
-37.5	11	11	11	11	10	10	10	9	9	8	8
-42.5	7	7	7	7	7	7	7	7	6	6	6
-47.5	5	5	5	5	5	5	5	5	5	5	5
-55.0	4	4	4	4	4	4	3	3	3	3	3
-65.0	2	2	2	2	2	2	2	2	2	2	2
-75.0	1	1	1	1	1	1	1	1	1	1	1
-85.0	0	0	0	0	0	0	0	0	0	0	0

Vertical Angle (Degrees)



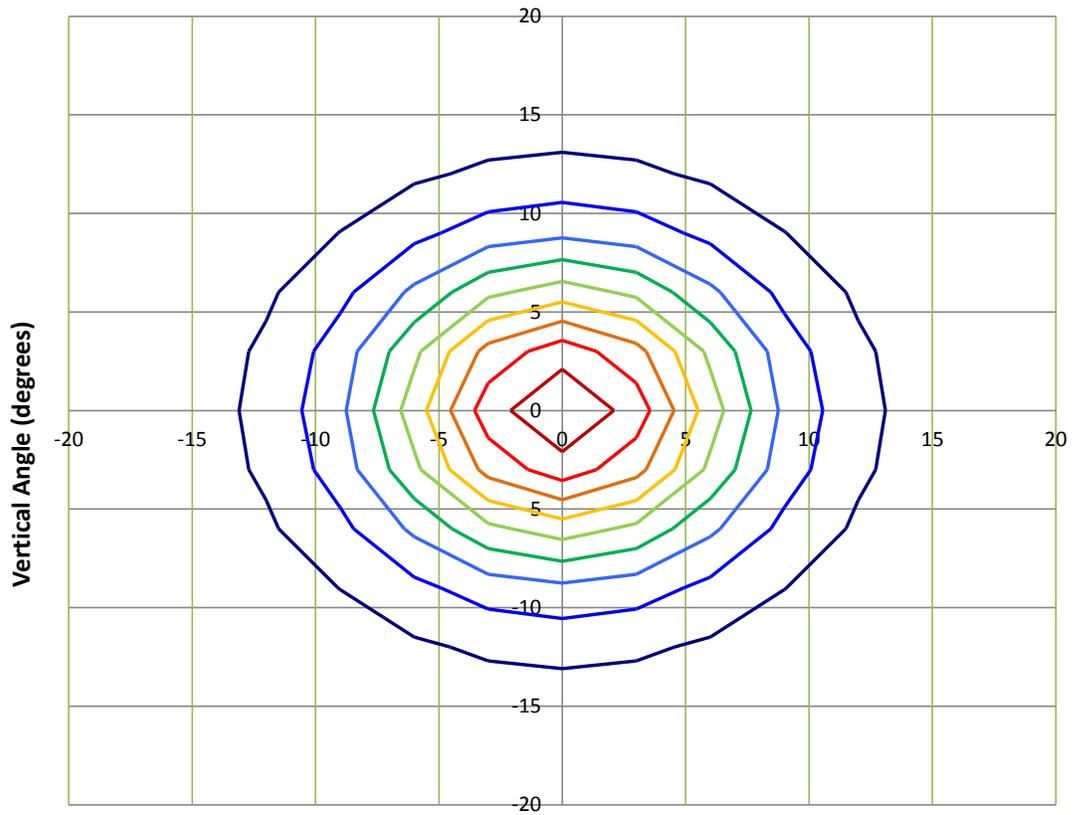
Candela Tabulation
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	0	0	0	0	0	0	0	0	0	0	0
75.0	1	1	1	1	1	1	1	0	0	0	0
65.0	2	2	1	1	1	1	1	1	1	0	0
55.0	3	3	3	3	2	2	2	1	1	0	0
47.5	4	4	4	4	3	3	2	2	1	1	0
42.5	5	5	5	4	4	3	3	2	1	1	0
37.5	7	7	6	5	4	4	3	2	1	1	0
33.0	9	8	7	6	5	4	4	3	1	1	0
29.0	12	11	9	7	6	5	4	3	1	1	0
25.5	15	13	11	8	7	5	4	3	2	1	0
22.5	18	15	12	9	7	5	4	3	2	1	0
19.5	23	18	14	11	8	6	5	3	2	1	0
17.0	28	20	15	12	8	6	5	3	2	1	0
15.0	33	23	17	12	9	6	5	3	2	1	0
13.0	39	26	18	13	9	7	5	3	2	1	0
11.0	45	29	19	14	10	7	5	3	2	1	0
9.0	52	32	21	14	10	7	5	4	2	1	0
7.0	59	36	22	15	10	7	5	4	2	1	0
5.0	64	38	23	15	11	7	5	4	2	1	0
3.0	68	40	24	15	11	7	5	4	2	1	0
1.0	70	41	24	16	11	7	5	4	2	1	0
0.0	71	41	24	16	11	7	5	4	2	1	0
-1.0	70	41	24	16	11	7	5	4	2	1	0
-3.0	68	40	24	15	11	7	5	4	2	1	0
-5.0	64	38	23	15	11	7	5	4	2	1	0
-7.0	59	36	22	15	10	7	5	4	2	1	0
-9.0	52	32	21	14	10	7	5	4	2	1	0
-11.0	45	29	19	14	10	7	5	3	2	1	0
-13.0	39	26	18	13	9	7	5	3	2	1	0
-15.0	33	23	17	12	9	6	5	3	2	1	0
-17.0	28	20	15	12	8	6	5	3	2	1	0
-19.5	23	18	14	11	8	6	5	3	2	1	0
-22.5	18	15	12	9	7	5	4	3	2	1	0
-25.5	15	13	11	8	7	5	4	3	2	1	0
-29.0	12	11	9	7	6	5	4	3	1	1	0
-33.0	9	8	7	6	5	4	4	3	1	1	0
-37.5	7	7	6	5	4	4	3	2	1	1	0
42.5	5	5	5	4	4	3	3	2	1	1	0
-47.5	4	4	4	4	3	3	2	2	1	1	0
-55.0	3	3	3	3	2	2	2	1	1	0	0
-65.0	2	2	1	1	1	1	1	1	1	0	0
-75.0	1	1	1	1	1	1	1	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0

Vertical Angle (Degrees)



Isocandela Diagram (Percent of Maximum Intensity)



Horizontal Angle (degrees)

- 6520 cd (90%)
- 5796 cd (80%)
- 5071 cd (70%)
- 4347 cd (60%)
- 3622 cd (50%)
- 2898 cd (40%)
- 2173 cd (30%)
- 1449 cd (20%)
- 724 cd (10%)