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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

Represented Catalog Numbers

SCP-12-LED-e66-12-WFL, CAF-12-LED-e66-12-WFL, CTF-12-LED-e66-12-WFL

Tested Catalog Number
RGP-12-LED-e66-12-WFL

Order Number

11904577

Test Number

11904577.08

Test Date

2017-08-15

Prepared By

Austin Duff, Technician

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:	442.5 Lumens
Luminaire Efficacy:	54.9 lm/w
Maximum Candela:	989 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.1 VAC
Current:	0.1095 A
Power:	8.058 W
Power Factor:	0.613
Frequency:	60 Hz
Current THD:	128 %

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



Distribution - Goniophotometer

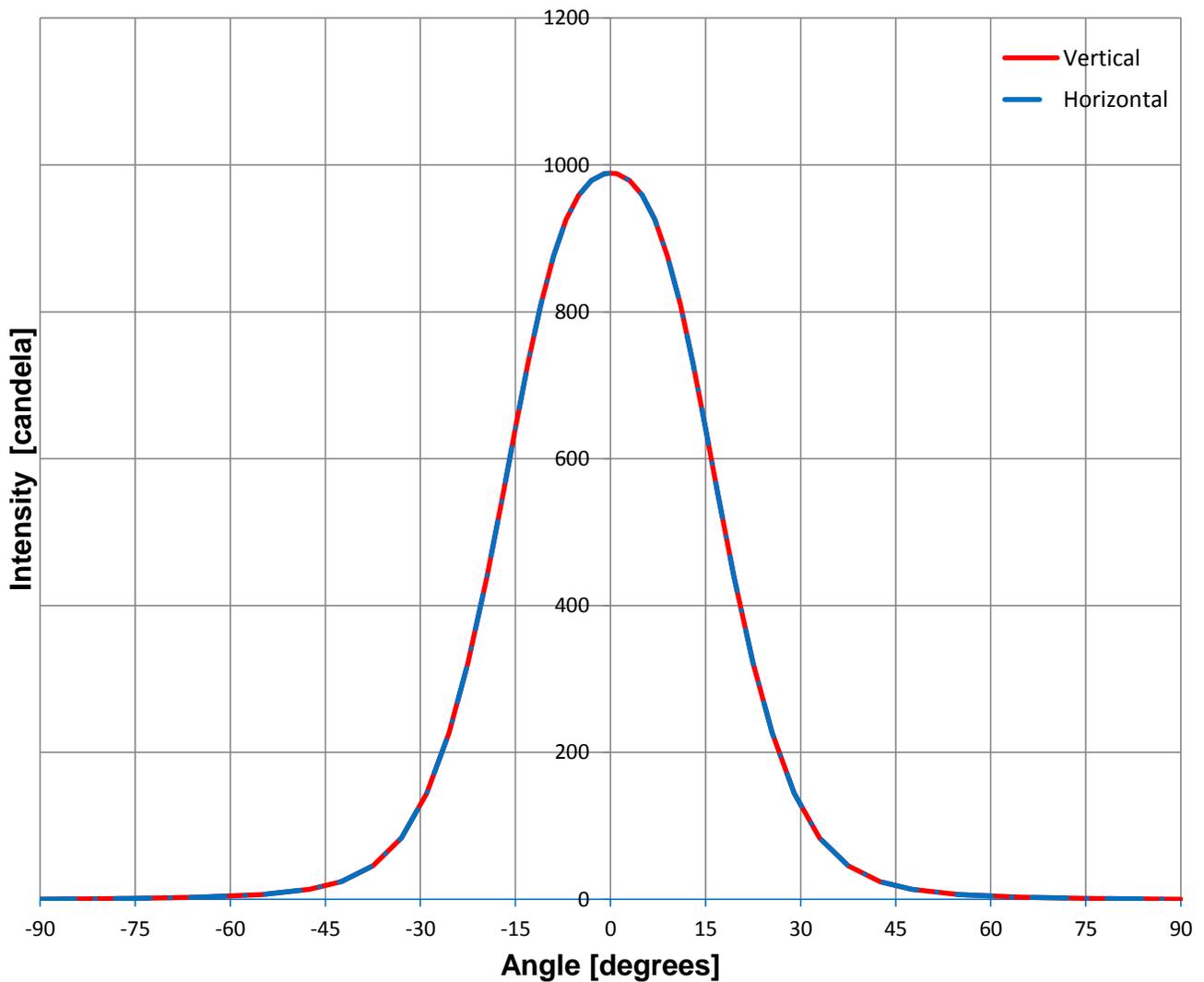
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.1095 A	8.058 W	0.613	60 Hz	128 %

Summary of Results

Total Lumen Output:	442.5 Lumens	Maximum Candela:	988.9 Candela
Luminaire Efficacy:	54.9 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	387.9 Lumens	Field Angle :	64.0 H X 64.0 V
Beam Lumens:	231.5 Lumens	Beam Angle :	36.5 H X 36.5 V
Spill Light Lumens:	54.6 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	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	3	3	3	3	3	3	3	3	2	2	2
55.0	6	6	6	6	6	6	6	6	6	6	5
47.5	13	13	13	13	13	13	12	12	11	11	10
42.5	24	24	24	23	23	22	21	20	19	18	16
37.5	45	45	45	44	42	40	38	36	33	30	27
33.0	83	83	82	80	77	72	67	62	56	51	44
29.0	144	144	141	137	130	122	112	102	91	81	68
25.5	226	226	222	214	203	189	173	156	138	121	100
22.5	321	320	314	303	287	266	243	218	192	166	136
19.5	438	437	429	413	390	362	329	294	258	222	180
17.0	549	548	538	517	488	452	411	366	320	275	222
15.0	641	640	628	605	571	529	481	428	373	320	258
13.0	730	728	715	690	653	606	551	490	428	366	294
11.0	810	809	795	769	729	678	618	551	481	411	329
9.0	876	874	861	835	795	743	678	606	529	452	362
7.0	925	924	911	887	848	795	729	653	571	488	390
5.0	959	957	947	924	887	835	769	690	605	517	413
3.0	979	978	968	947	911	861	795	715	628	538	429
1.0	988	987	978	957	924	874	809	728	640	548	437
0.0	989	988	979	959	925	876	810	730	641	549	438
-1.0	988	987	978	957	924	874	809	728	640	548	437
-3.0	979	978	968	947	911	861	795	715	628	538	429
-5.0	959	957	947	924	887	835	769	690	605	517	413
-7.0	925	924	911	887	848	795	729	653	571	488	390
-9.0	876	874	861	835	795	743	678	606	529	452	362
-11.0	810	809	795	769	729	678	618	551	481	411	329
-13.0	730	728	715	690	653	606	551	490	428	366	294
-15.0	641	640	628	605	571	529	481	428	373	320	258
-17.0	549	548	538	517	488	452	411	366	320	275	222
-19.5	438	437	429	413	390	362	329	294	258	222	180
-22.5	321	320	314	303	287	266	243	218	192	166	136
-25.5	226	226	222	214	203	189	173	156	138	121	100
-29.0	144	144	141	137	130	122	112	102	91	81	68
-33.0	83	83	82	80	77	72	67	62	56	51	44
-37.5	45	45	45	44	42	40	38	36	33	30	27
-42.5	24	24	24	23	23	22	21	20	19	18	16
-47.5	13	13	13	13	13	13	12	12	11	11	10
-55.0	6	6	6	6	6	6	6	6	6	6	5
-65.0	3	3	3	3	3	3	3	3	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)



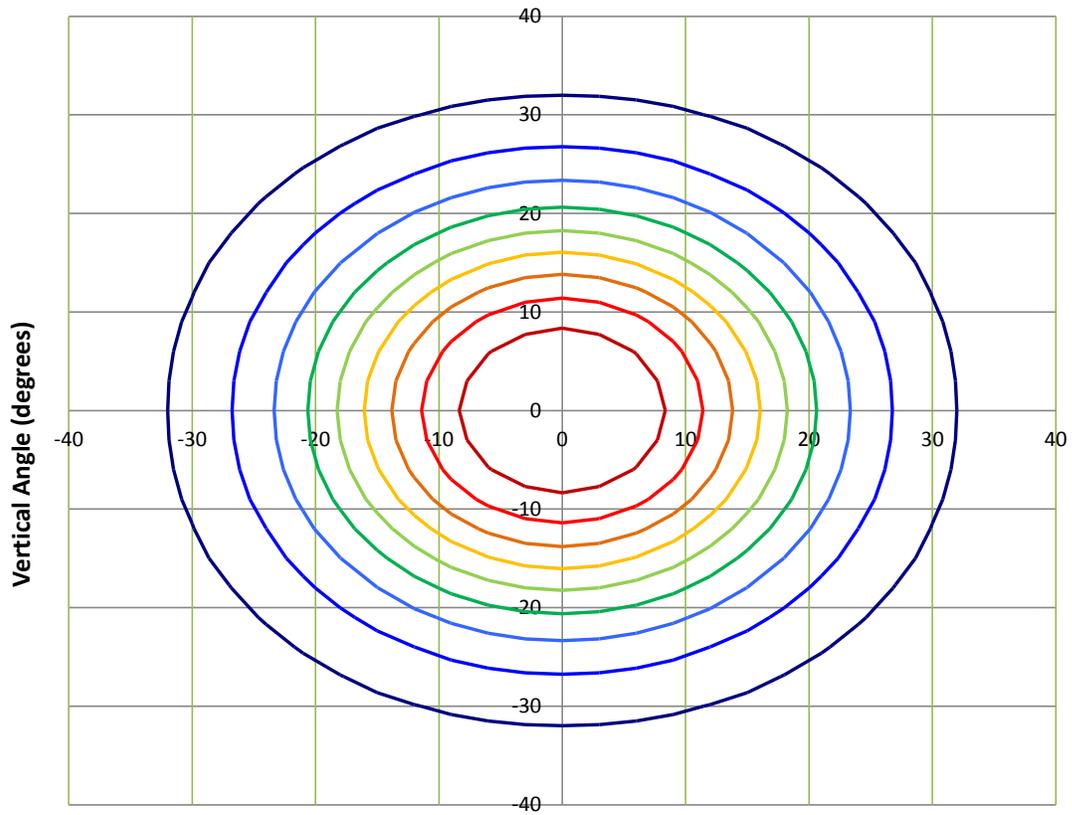
Candela Tabulation
Lateral Angle (Degrees)

	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	1	0	0	0
65.0	2	2	2	2	2	1	1	1	1	0	0
55.0	5	5	4	4	3	3	2	2	1	1	0
47.5	9	8	7	6	5	4	3	2	1	1	0
42.5	14	12	10	9	7	5	4	3	1	1	0
37.5	23	19	16	12	9	7	5	3	2	1	0
33.0	36	30	23	17	12	9	6	4	2	1	0
29.0	55	43	32	23	16	10	7	4	2	1	0
25.5	78	60	43	30	19	12	8	5	2	1	0
22.5	104	78	55	36	23	14	9	5	2	1	0
19.5	136	100	68	44	27	16	10	5	2	1	0
17.0	166	121	81	51	30	18	11	6	2	1	0
15.0	192	138	91	56	33	19	11	6	2	1	0
13.0	218	156	102	62	36	20	12	6	3	1	0
11.0	243	173	112	67	38	21	12	6	3	1	0
9.0	266	189	122	72	40	22	13	6	3	1	0
7.0	287	203	130	77	42	23	13	6	3	1	0
5.0	303	214	137	80	44	23	13	6	3	1	0
3.0	314	222	141	82	45	24	13	6	3	1	0
1.0	320	226	144	83	45	24	13	6	3	1	0
0.0	321	226	144	83	45	24	13	6	3	1	0
-1.0	320	226	144	83	45	24	13	6	3	1	0
-3.0	314	222	141	82	45	24	13	6	3	1	0
-5.0	303	214	137	80	44	23	13	6	3	1	0
-7.0	287	203	130	77	42	23	13	6	3	1	0
-9.0	266	189	122	72	40	22	13	6	3	1	0
-11.0	243	173	112	67	38	21	12	6	3	1	0
-13.0	218	156	102	62	36	20	12	6	3	1	0
-15.0	192	138	91	56	33	19	11	6	2	1	0
-17.0	166	121	81	51	30	18	11	6	2	1	0
-19.5	136	100	68	44	27	16	10	5	2	1	0
-22.5	104	78	55	36	23	14	9	5	2	1	0
-25.5	78	60	43	30	19	12	8	5	2	1	0
-29.0	55	43	32	23	16	10	7	4	2	1	0
-33.0	36	30	23	17	12	9	6	4	2	1	0
-37.5	23	19	16	12	9	7	5	3	2	1	0
42.5	14	12	10	9	7	5	4	3	1	1	0
-47.5	9	8	7	6	5	4	3	2	1	1	0
-55.0	5	5	4	4	3	3	2	2	1	1	0
-65.0	2	2	2	2	2	1	1	1	1	0	0
-75.0	1	1	1	1	1	1	1	1	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)

- 890 cd (90%)
- 791 cd (80%)
- 692 cd (70%)
- 593 cd (60%)
- 494 cd (50%)
- 395 cd (40%)
- 296 cd (30%)
- 197 cd (20%)
- 98 cd (10%)