



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## 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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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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40429 Brickyard Dr.  
Madera, CA 93636-9515  
United States

**Represented Catalog Numbers**

**SCP-12-LED-e66-12-MFL, CAF-12-LED-e66-12-MFL, CTF-12-LED-e66-12-MFL**

**Tested Catalog Number**  
**RGP-12-LED-e66-12-MFL**

Order Number

11904577

Test Number

11904577.07B

Revised Date:

2017-08-28

Test Date

2017-08-28

Prepared By

Tony Rubio, 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 LEDs with optic below each  
**Mounting:** Surface  
**Ballast/Driver:** TRE20

### Luminaire



### Luminaire Characteristics

Luminous Diameter: 2.25 in.

### Summary of Results

Total Luminaire Output:	486.7 Lumens
Luminaire Efficacy:	60.3 lm/w
Maximum Candela:	2585 Candela

### Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.1093 A
Power:	8.066 W
Power Factor:	0.615
Frequency:	60 Hz
Current THD:	127 %

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



## Distribution - Goniophotometer

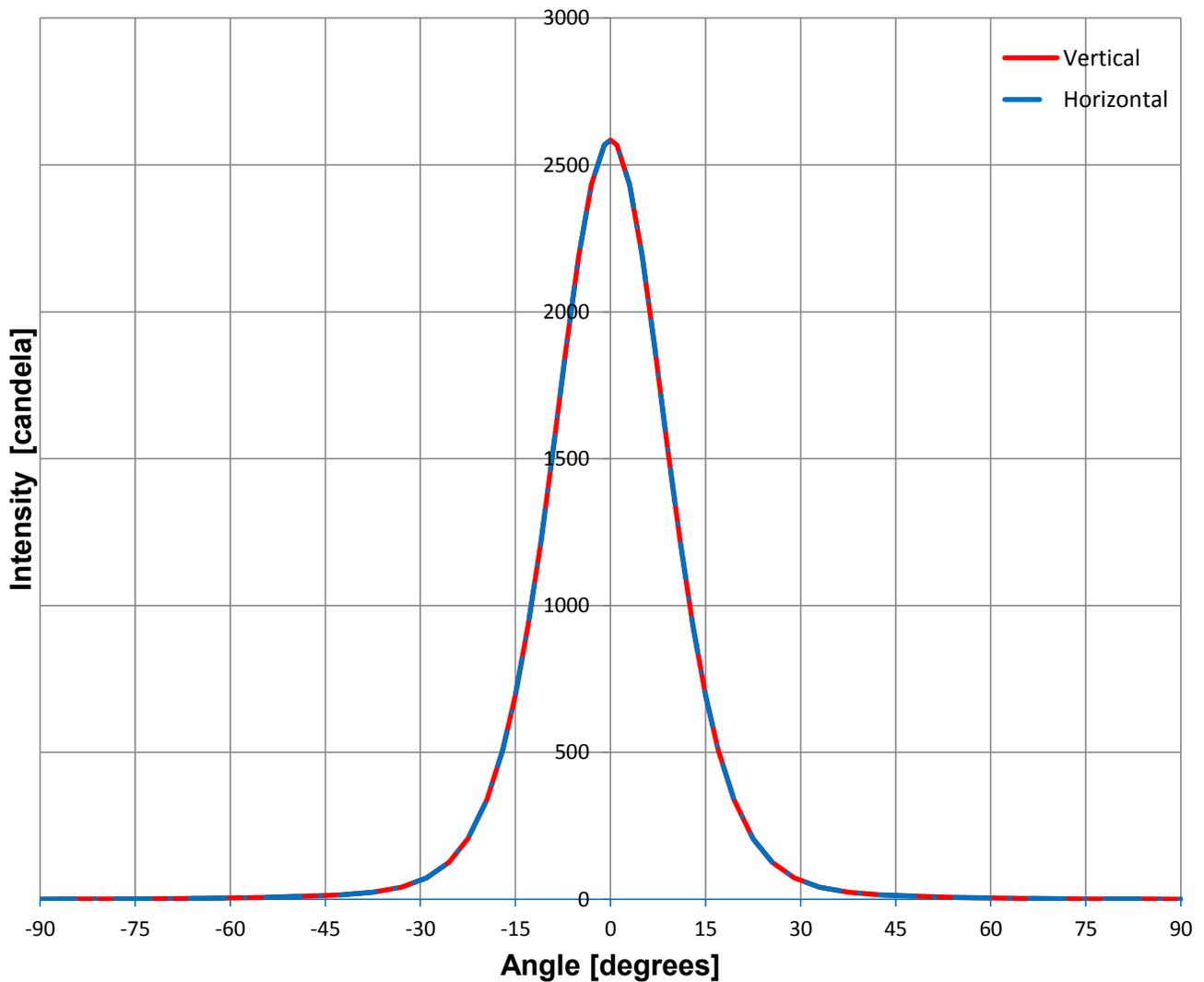
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.1093 A	8.066 W	0.615	60 Hz	127 %

### Summary of Results

<b>Total Lumen Output:</b>	486.7 Lumens	<b>Maximum Candela:</b>	2584.6 Candela
<b>Luminaire Efficacy:</b>	60.3 Lumens/Watt	<b>Maximum Angle:</b>	0 H      0 V
<b>Field Lumens:</b>	390.1 Lumens	<b>Field Angle :</b>	42.6 H   X   42.6 V
<b>Beam Lumens:</b>	196.9 Lumens	<b>Beam Angle :</b>	21.0 H   X   21.0 V
<b>Spill Light Lumens:</b>	96.6 Lumens	<b>IESNA Type:</b>	3 H    X    3 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	5	5
47.5	11	11	11	10	10	10	10	10	9	9	9
42.5	15	15	15	15	15	14	14	13	13	12	12
37.5	24	24	24	23	23	22	21	20	19	18	16
33.0	41	41	41	40	38	36	34	31	29	26	24
29.0	73	72	71	69	65	60	55	50	45	40	34
25.5	126	125	122	116	109	100	90	79	69	60	49
22.5	205	205	199	188	174	156	138	119	102	85	68
19.5	339	337	326	305	279	247	213	180	150	123	94
17.0	508	506	489	455	410	357	303	251	205	164	123
15.0	694	691	665	615	550	475	398	324	259	205	150
13.0	929	925	888	816	723	618	511	412	324	251	180
11.0	1214	1208	1156	1057	928	785	644	511	398	303	213
9.0	1539	1530	1458	1327	1157	970	785	618	475	357	247
7.0	1876	1864	1773	1607	1391	1157	928	723	550	410	279
5.0	2190	2175	2065	1865	1607	1327	1057	816	615	455	305
3.0	2433	2415	2291	2065	1773	1458	1156	888	665	489	326
1.0	2568	2546	2415	2175	1864	1530	1208	925	691	506	337
0.0	2585	2568	2433	2190	1876	1539	1214	929	694	508	339
-1.0	2568	2546	2415	2175	1864	1530	1208	925	691	506	337
-3.0	2433	2415	2291	2065	1773	1458	1156	888	665	489	326
-5.0	2190	2175	2065	1865	1607	1327	1057	816	615	455	305
-7.0	1876	1864	1773	1607	1391	1157	928	723	550	410	279
-9.0	1539	1530	1458	1327	1157	970	785	618	475	357	247
-11.0	1214	1208	1156	1057	928	785	644	511	398	303	213
-13.0	929	925	888	816	723	618	511	412	324	251	180
-15.0	694	691	665	615	550	475	398	324	259	205	150
-17.0	508	506	489	455	410	357	303	251	205	164	123
-19.5	339	337	326	305	279	247	213	180	150	123	94
-22.5	205	205	199	188	174	156	138	119	102	85	68
-25.5	126	125	122	116	109	100	90	79	69	60	49
-29.0	73	72	71	69	65	60	55	50	45	40	34
-33.0	41	41	41	40	38	36	34	31	29	26	24
-37.5	24	24	24	23	23	22	21	20	19	18	16
-42.5	15	15	15	15	15	14	14	13	13	12	12
-47.5	11	11	11	10	10	10	10	10	9	9	9
-55.0	6	6	6	6	6	6	6	6	6	5	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)



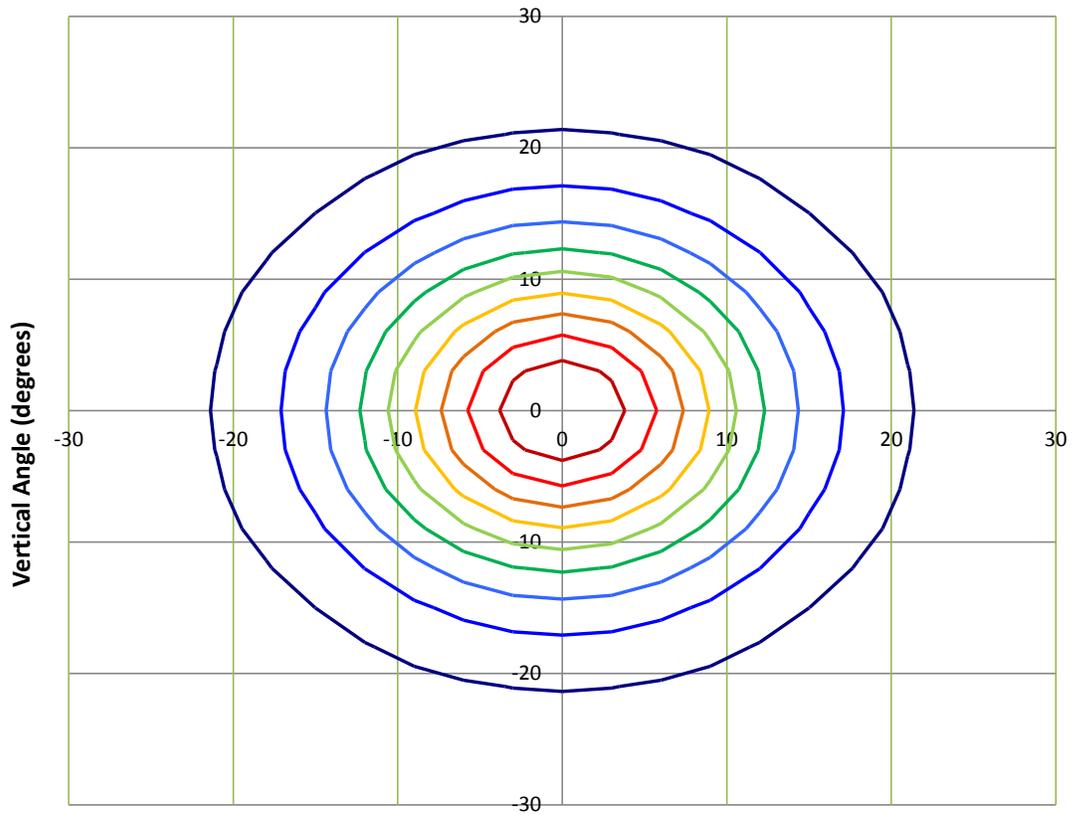
**Candela Tabulation**  
Lateral Angle (Degrees)

	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	2	1	1	1	0	0
55.0	5	5	4	4	3	3	2	2	1	1	0
47.5	8	7	7	6	5	4	3	2	1	1	0
42.5	11	10	9	8	7	5	4	3	2	1	0
37.5	15	13	12	10	8	7	5	3	2	1	0
33.0	20	18	15	12	10	8	6	4	2	1	0
29.0	28	23	19	15	12	9	7	4	2	1	0
25.5	39	30	23	18	13	10	7	5	2	1	0
22.5	51	39	28	20	15	11	8	5	2	1	0
19.5	68	49	34	24	16	12	9	5	2	1	0
17.0	85	60	40	26	18	12	9	5	2	1	0
15.0	102	69	45	29	19	13	9	6	2	1	0
13.0	119	79	50	31	20	13	10	6	3	1	0
11.0	138	90	55	34	21	14	10	6	3	1	0
9.0	156	100	60	36	22	14	10	6	3	1	0
7.0	174	109	65	38	23	15	10	6	3	1	0
5.0	188	116	69	40	23	15	10	6	3	1	0
3.0	199	122	71	41	24	15	11	6	3	1	0
1.0	205	125	72	41	24	15	11	6	3	1	0
0.0	205	126	73	41	24	15	11	6	3	1	0
-1.0	205	125	72	41	24	15	11	6	3	1	0
-3.0	199	122	71	41	24	15	11	6	3	1	0
-5.0	188	116	69	40	23	15	10	6	3	1	0
-7.0	174	109	65	38	23	15	10	6	3	1	0
-9.0	156	100	60	36	22	14	10	6	3	1	0
-11.0	138	90	55	34	21	14	10	6	3	1	0
-13.0	119	79	50	31	20	13	10	6	3	1	0
-15.0	102	69	45	29	19	13	9	6	2	1	0
-17.0	85	60	40	26	18	12	9	5	2	1	0
-19.5	68	49	34	24	16	12	9	5	2	1	0
-22.5	51	39	28	20	15	11	8	5	2	1	0
-25.5	39	30	23	18	13	10	7	5	2	1	0
-29.0	28	23	19	15	12	9	7	4	2	1	0
-33.0	20	18	15	12	10	8	6	4	2	1	0
-37.5	15	13	12	10	8	7	5	3	2	1	0
42.5	11	10	9	8	7	5	4	3	2	1	0
-47.5	8	7	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	2	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)

- 2326 cd (90%)
- 2067 cd (80%)
- 1809 cd (70%)
- 1550 cd (60%)
- 1292 cd (50%)
- 1033 cd (40%)
- 775 cd (30%)
- 516 cd (20%)
- 258 cd (10%)