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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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-e66-13-MFL, CAF-12-LED-e66-13-MFL, CTF-12-LED-e66-13-MFL

Tested Catalog Number
RGP-12-LED-e66-13-MFL

Order Number

11904577

Test Number

11904577.09A

Revised Date:

2017-08-28

Test Date

2017-08-28

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 linear 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:	420.3 Lumens
Luminaire Efficacy:	50.7 lm/w
Maximum Candela:	999 Candela

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.1 VAC
Current:	0.1120 A
Power:	8.289 W
Power Factor:	0.616
Frequency:	60 Hz
Current THD:	127 %

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



Distribution - Goniophotometer

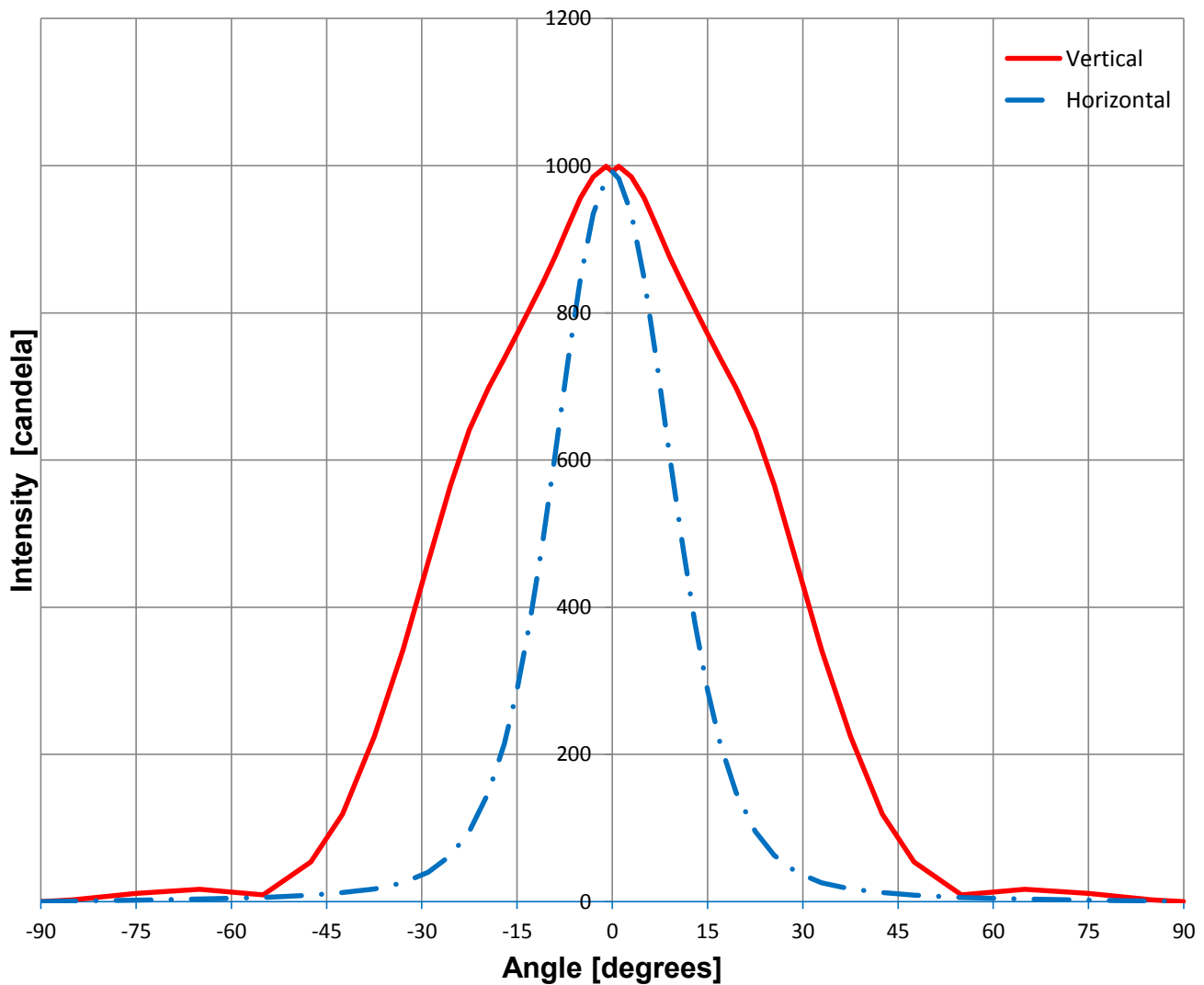
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.1120 A	8.289 W	0.616	60 Hz	127 %

Summary of Results

Total Lumen Output:	420.3 Lumens	Maximum Candela:	999.3 Candela
Luminaire Efficacy:	50.7 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	357.5 Lumens	Field Angle :	44.5 H X 87.9 V
Beam Lumens:	191.4 Lumens	Beam Angle :	21.6 H X 55.4 V
Spill Light Lumens:	62.8 Lumens	IESNA Type:	3 H X 5 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	2	2	2	2	2	2	2	2	2	2	1
75.0	11	11	10	10	9	8	7	7	6	5	5
65.0	17	16	16	15	14	13	11	10	9	8	7
55.0	9	9	9	9	9	8	8	7	7	6	6
47.5	54	53	52	48	44	38	33	28	24	20	17
42.5	119	118	114	105	94	80	67	55	44	35	27
37.5	224	221	212	191	168	142	116	92	72	56	40
33.0	342	338	325	294	256	215	173	136	105	80	57
29.0	462	456	437	397	344	286	230	179	137	104	72
25.5	566	558	530	481	417	346	277	216	165	123	86
22.5	641	632	600	543	471	391	313	244	185	140	98
19.5	698	691	657	596	515	428	344	268	206	155	108
17.0	738	732	697	631	547	456	366	287	220	166	115
15.0	771	765	728	660	573	478	385	301	230	174	121
13.0	805	800	760	690	599	500	402	315	241	182	127
11.0	840	834	794	720	625	521	419	328	251	189	132
9.0	877	871	828	752	652	542	437	342	261	197	137
7.0	917	911	866	785	680	566	455	355	271	204	142
5.0	957	949	902	816	705	587	471	367	280	210	145
3.0	985	975	924	835	723	601	482	375	286	214	148
1.0	999	984	932	845	733	609	486	378	287	215	148
0.0	992	982	934	847	734	609	487	378	287	215	148
-1.0	999	984	932	845	733	609	486	378	287	215	148
-3.0	985	975	924	835	723	601	482	375	286	214	148
-5.0	957	949	902	816	705	587	471	367	280	210	145
-7.0	917	911	866	785	680	566	455	355	271	204	142
-9.0	877	871	828	752	652	542	437	342	261	197	137
-11.0	840	834	794	720	625	521	419	328	251	189	132
-13.0	805	800	760	690	599	500	402	315	241	182	127
-15.0	771	765	728	660	573	478	385	301	230	174	121
-17.0	738	732	697	631	547	456	366	287	220	166	115
-19.5	698	691	657	596	515	428	344	268	206	155	108
-22.5	641	632	600	543	471	391	313	244	185	140	98
-25.5	566	558	530	481	417	346	277	216	165	123	86
-29.0	462	456	437	397	344	286	230	179	137	104	72
-33.0	342	338	325	294	256	215	173	136	105	80	57
-37.5	224	221	212	191	168	142	116	92	72	56	40
-42.5	119	118	114	105	94	80	67	55	44	35	27
-47.5	54	53	52	48	44	38	33	28	24	20	17
-55.0	9	9	9	9	9	8	8	7	7	6	6
-65.0	17	16	16	15	14	13	11	10	9	8	7
-75.0	11	11	10	10	9	8	7	7	6	5	5
-85.0	2	2	2	2	2	2	2	2	2	2	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	4	4	3	3	2	2	2	1	1	0	0
65.0	6	5	5	4	4	3	2	2	1	1	0
55.0	5	5	5	4	4	3	3	3	2	1	0
47.5	13	11	9	8	6	5	4	3	2	1	0
42.5	20	15	11	9	7	6	5	3	2	1	0
37.5	28	20	14	10	7	6	5	3	2	1	0
33.0	39	27	18	12	9	6	5	4	2	1	0
29.0	48	33	22	15	11	7	6	4	2	1	0
25.5	57	38	26	17	12	9	6	4	3	2	0
22.5	64	43	28	19	13	9	7	4	3	2	0
19.5	71	47	31	21	14	10	8	5	3	2	0
17.0	76	51	34	22	15	11	8	5	3	2	1
15.0	79	53	35	23	16	11	8	5	3	2	1
13.0	83	55	36	24	16	11	8	6	3	2	1
11.0	86	58	37	24	17	12	9	6	3	2	1
9.0	89	59	38	25	17	12	9	6	3	2	1
7.0	92	61	39	25	17	12	9	6	3	2	1
5.0	94	62	40	26	17	12	9	6	3	2	1
3.0	95	62	40	26	17	12	9	6	3	2	1
1.0	95	63	40	26	17	12	9	6	4	2	1
0.0	95	63	40	26	17	12	9	6	4	2	1
-1.0	95	63	40	26	17	12	9	6	4	2	1
-3.0	95	62	40	26	17	12	9	6	3	2	1
-5.0	94	62	40	26	17	12	9	6	3	2	1
-7.0	92	61	39	25	17	12	9	6	3	2	1
-9.0	89	59	38	25	17	12	9	6	3	2	1
-11.0	86	58	37	24	17	12	9	6	3	2	1
-13.0	83	55	36	24	16	11	8	6	3	2	1
-15.0	79	53	35	23	16	11	8	5	3	2	1
-17.0	76	51	34	22	15	11	8	5	3	2	1
-19.5	71	47	31	21	14	10	8	5	3	2	0
-22.5	64	43	28	19	13	9	7	4	3	2	0
-25.5	57	38	26	17	12	9	6	4	3	2	0
-29.0	48	33	22	15	11	7	6	4	2	1	0
-33.0	39	27	18	12	9	6	5	4	2	1	0
-37.5	28	20	14	10	7	6	5	3	2	1	0
-42.5	20	15	11	9	7	6	5	3	2	1	0
-47.5	13	11	9	8	6	5	4	3	2	1	0
-55.0	5	5	5	4	4	3	3	3	2	1	0
-65.0	6	5	5	4	4	3	2	2	1	1	0
-75.0	4	4	3	3	2	2	2	1	1	0	0
-85.0	1	1	1	1	1	1	1	0	0	0	0



Isocandela Diagram (Percent of Maximum Intensity)

