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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

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

Order Number
11904577
Test Number
11904577.04

Test Date

2017-08-10

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:	480.1 Lumens
Luminaire Efficacy:	59.5 lm/w
Maximum Candela:	4255 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.1 VAC
Current:	0.1097 A
Power:	8.069 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

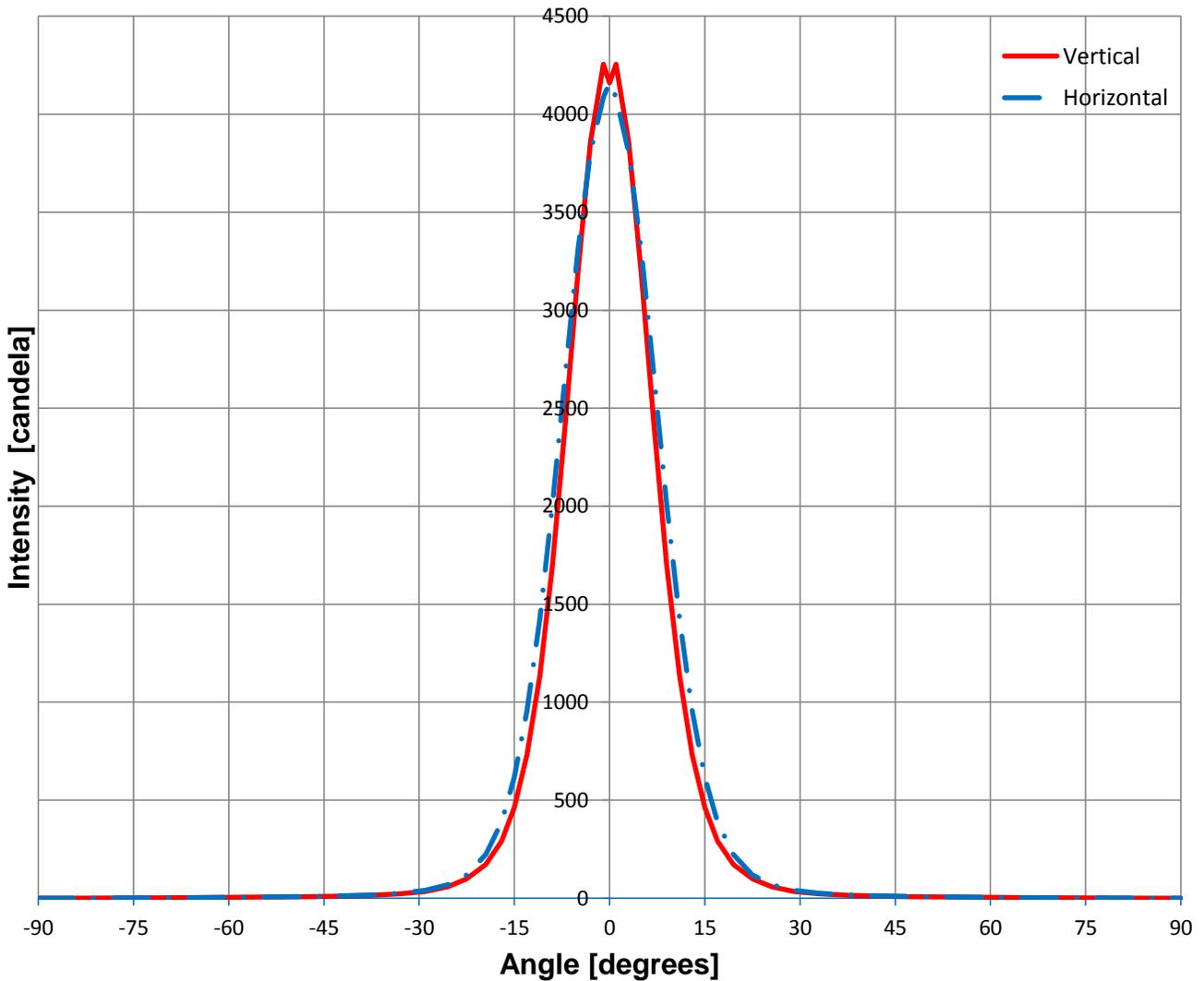
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.1 VAC	0.1097 A	8.069 W	0.612	60 Hz	128 %

Summary of Results

Total Lumen Output:	480.1 Lumens	Maximum Candela:	4254.8 Candela
Luminaire Efficacy:	59.5 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	378.8 Lumens	Field Angle :	33.3 H X 30.9 V
Beam Lumens:	192.2 Lumens	Beam Angle :	17.1 H X 15.6 V
Spill Light Lumens:	101.3 Lumens	IESNA Type:	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	2	2	2	2	2	2	2	2	2	2	2
55.0	5	5	5	5	5	5	5	5	5	5	4
47.5	8	8	8	8	8	8	7	7	7	7	7
42.5	10	10	10	10	10	10	10	10	9	9	9
37.5	15	15	15	15	14	14	14	13	13	12	11
33.0	22	22	22	22	21	20	19	18	17	16	15
29.0	35	35	35	34	32	31	29	26	24	22	20
25.5	58	58	57	55	52	48	44	39	35	31	27
22.5	98	98	95	89	83	75	66	58	50	43	35
19.5	172	173	168	157	142	124	106	89	74	61	48
17.0	293	295	286	264	233	198	163	133	106	84	63
15.0	462	466	449	408	355	293	236	185	141	109	78
13.0	732	735	703	630	537	435	340	258	191	141	97
11.0	1135	1139	1080	958	798	639	487	354	256	180	119
9.0	1702	1694	1594	1399	1162	906	671	480	333	228	144
7.0	2413	2377	2224	1941	1584	1223	888	623	422	281	169
5.0	3183	3105	2887	2502	2036	1552	1114	763	505	329	192
3.0	3857	3732	3450	2983	2416	1831	1304	879	573	366	210
1.0	4255	4060	3764	3260	2630	1983	1405	941	609	386	220
0.0	4160	4087	3806	3300	2664	2011	1425	955	617	390	222
-1.0	4255	4060	3764	3260	2630	1983	1405	941	609	386	220
-3.0	3857	3732	3450	2983	2416	1831	1304	879	573	366	210
-5.0	3183	3105	2887	2502	2036	1552	1114	763	505	329	192
-7.0	2413	2377	2224	1941	1584	1223	888	623	422	281	169
-9.0	1702	1694	1594	1399	1162	906	671	480	333	228	144
-11.0	1135	1139	1080	958	798	639	487	354	256	180	119
-13.0	732	735	703	630	537	435	340	258	191	141	97
-15.0	462	466	449	408	355	293	236	185	141	109	78
-17.0	293	295	286	264	233	198	163	133	106	84	63
-19.5	172	173	168	157	142	124	106	89	74	61	48
-22.5	98	98	95	89	83	75	66	58	50	43	35
-25.5	58	58	57	55	52	48	44	39	35	31	27
-29.0	35	35	35	34	32	31	29	26	24	22	20
-33.0	22	22	22	22	21	20	19	18	17	16	15
-37.5	15	15	15	15	14	14	14	13	13	12	11
-42.5	10	10	10	10	10	10	10	10	9	9	9
-47.5	8	8	8	8	8	8	7	7	7	7	7
-55.0	5	5	5	5	5	5	5	5	5	5	4
-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)



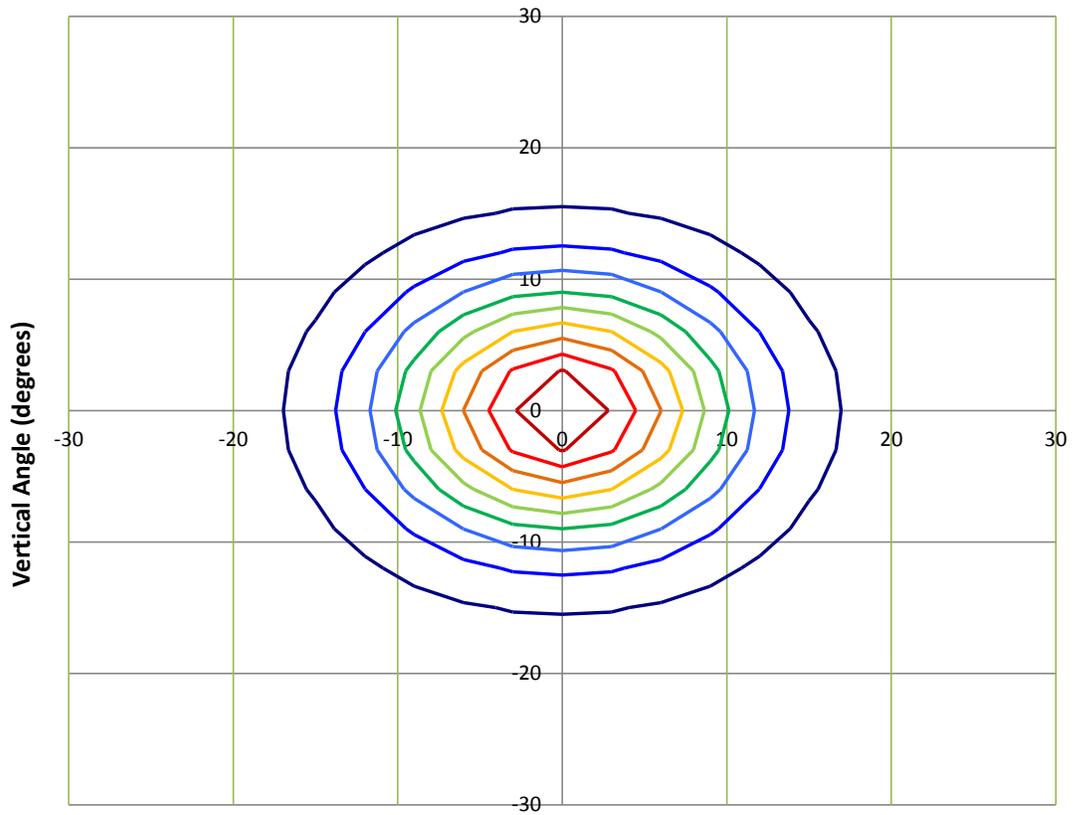
Candela Tabulation
Lateral Angle (Degrees)

	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	1	0	0	0
65.0	2	2	2	2	2	1	1	1	1	0	0
55.0	4	4	4	3	3	2	2	1	1	1	0
47.5	6	6	6	5	4	4	3	2	1	1	0
42.5	8	8	7	6	5	4	4	2	1	1	0
37.5	10	10	9	8	7	5	4	3	2	1	0
33.0	13	12	11	9	8	6	5	3	2	1	0
29.0	17	15	13	11	9	7	6	4	2	1	0
25.5	22	18	15	12	10	8	6	4	2	1	0
22.5	28	22	18	14	11	8	7	4	2	1	0
19.5	36	27	21	16	12	9	7	4	2	1	0
17.0	45	33	24	17	13	9	7	5	2	1	0
15.0	53	37	26	18	13	10	7	5	2	1	0
13.0	63	43	29	20	14	10	8	5	2	1	0
11.0	74	48	31	21	14	10	8	5	2	1	0
9.0	85	54	34	22	15	11	8	5	2	1	0
7.0	97	59	36	23	15	11	8	5	2	1	0
5.0	106	64	38	24	16	11	8	5	2	1	0
3.0	114	67	39	24	16	11	8	5	2	1	0
1.0	118	69	40	25	16	11	8	5	2	1	0
0.0	119	69	40	25	16	11	8	5	2	1	0
-1.0	118	69	40	25	16	11	8	5	2	1	0
-3.0	114	67	39	24	16	11	8	5	2	1	0
-5.0	106	64	38	24	16	11	8	5	2	1	0
-7.0	97	59	36	23	15	11	8	5	2	1	0
-9.0	85	54	34	22	15	11	8	5	2	1	0
-11.0	74	48	31	21	14	10	8	5	2	1	0
-13.0	63	43	29	20	14	10	8	5	2	1	0
-15.0	53	37	26	18	13	10	7	5	2	1	0
-17.0	45	33	24	17	13	9	7	5	2	1	0
-19.5	36	27	21	16	12	9	7	4	2	1	0
-22.5	28	22	18	14	11	8	7	4	2	1	0
-25.5	22	18	15	12	10	8	6	4	2	1	0
-29.0	17	15	13	11	9	7	6	4	2	1	0
-33.0	13	12	11	9	8	6	5	3	2	1	0
-37.5	10	10	9	8	7	5	4	3	2	1	0
42.5	8	8	7	6	5	4	4	2	1	1	0
-47.5	6	6	6	5	4	4	3	2	1	1	0
-55.0	4	4	4	3	3	2	2	1	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)



- 3829 cd (90%)
- 3403 cd (80%)
- 2978 cd (70%)
- 2552 cd (60%)
- 2127 cd (50%)
- 1701 cd (40%)
- 1276 cd (30%)
- 850 cd (20%)
- 425 cd (10%)