



UL LLC
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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

Catalog Number
DE-LED-x66-WFL-9 SN-DE-LED-x66-WFL-9 ST-DE-LED-x66-WFL-9 SM-DE-LED-x66-WFL-9 UL-DE-LED-x66-WFL-9
Order Number
11353040
Test Number
11353040.28A
Revised:
2018-06-28
Test Date
2016-09-12

Prepared By

Khang Nguyen, Technician

Approved By

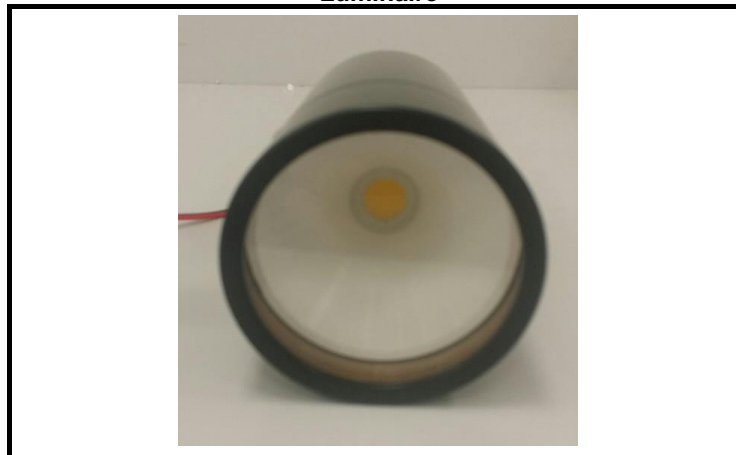
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Circular black aluminum housing white stepped reflector and glass lens
Lamp: One (1) White LED
Mounting: VBU
Ballast/Driver: Thomas Research Products LED25W-36-C0700-LE

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.75 in.

Summary of Results

Total Luminaire Output:	1506 Lumens
Luminaire Efficacy:	54.4 lm/w
Maximum Candela:	1649 Candela

Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.2351 A
Power:	27.68 W
Power Factor:	0.981
Frequency:	60 Hz
Current THD:	16.6 %

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



Distribution - Goniophotometer

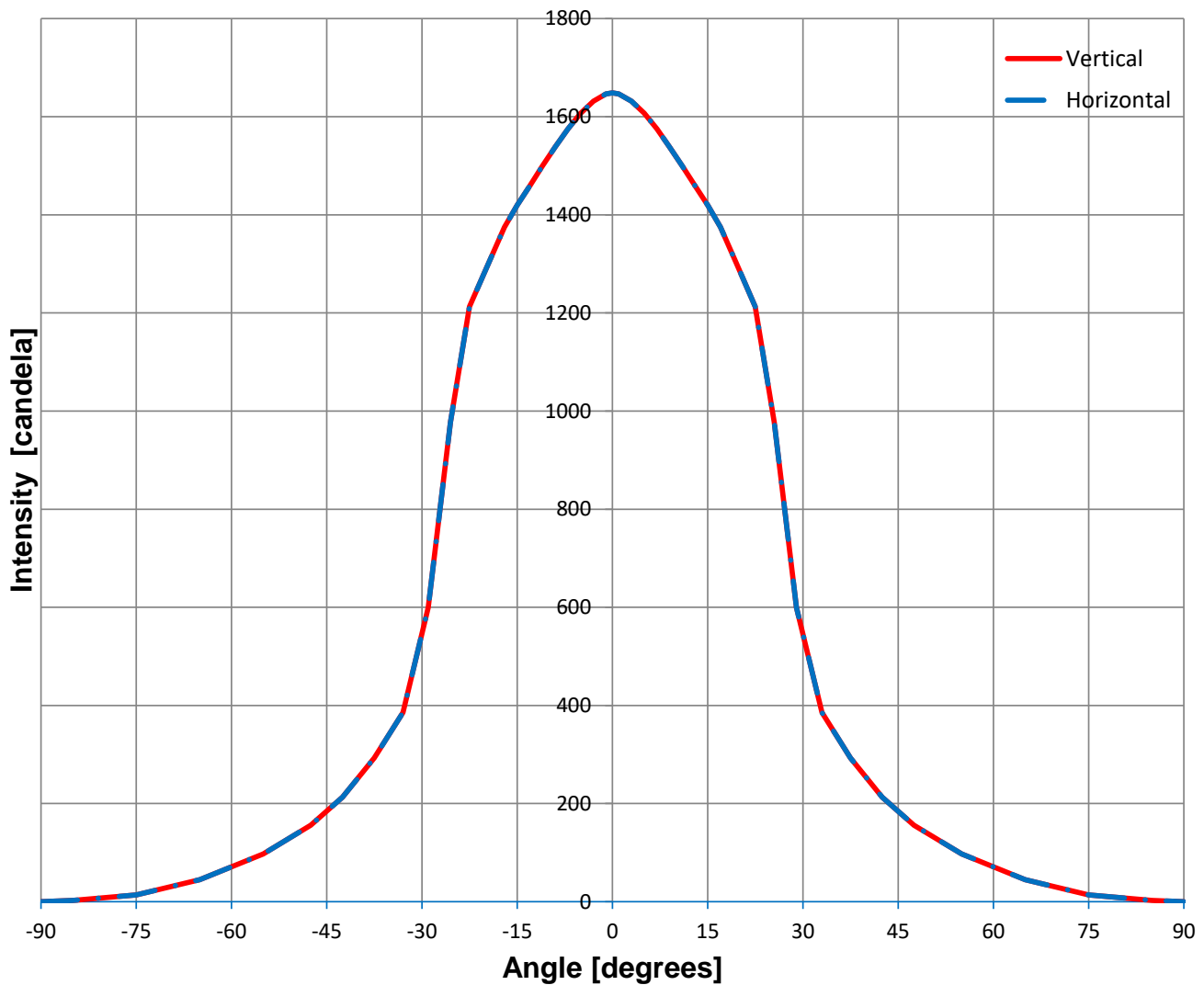
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.0 VAC	0.2351 A	27.68 W	0.981	60 Hz	16.6 %

Summary of Results

Total Lumen Output:	1505.8 Lumens	Maximum Candela:	1648.6 Candela
Luminaire Efficacy:	54.4 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1308.6 Lumens	Field Angle :	93.5 H X 93.5 V
Beam Lumens:	890.5 Lumens	Beam Angle :	53.8 H X 53.8 V
Spill Light Lumens:	197.2 Lumens	IESNA Type:	5 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	2
75.0	14	14	14	14	14	14	13	13	13	13	12
65.0	45	45	45	44	44	43	43	42	41	40	39
55.0	97	97	97	96	95	94	93	91	89	86	83
47.5	156	156	155	154	152	150	147	144	140	136	130
42.5	213	213	212	210	207	203	198	193	187	180	171
37.5	293	293	291	287	282	276	268	259	249	239	225
33.0	386	385	383	379	374	366	356	343	328	310	288
29.0	600	598	587	565	533	495	456	425	400	381	358
25.5	978	976	960	930	882	819	744	659	571	490	419
22.5	1213	1212	1205	1191	1157	1110	1038	944	832	710	561
19.5	1302	1301	1295	1284	1269	1250	1222	1172	1084	962	779
17.0	1375	1374	1368	1355	1336	1311	1283	1253	1212	1133	962
15.0	1420	1419	1414	1403	1386	1363	1331	1294	1258	1212	1084
13.0	1460	1459	1453	1441	1425	1404	1376	1338	1294	1253	1172
11.0	1500	1499	1492	1478	1459	1436	1409	1376	1331	1283	1222
9.0	1539	1537	1529	1514	1492	1466	1436	1404	1363	1311	1250
7.0	1575	1574	1564	1546	1521	1492	1459	1425	1386	1336	1269
5.0	1607	1605	1594	1574	1546	1514	1478	1441	1403	1355	1284
3.0	1632	1630	1617	1594	1564	1529	1492	1453	1414	1368	1295
1.0	1646	1644	1630	1605	1574	1537	1499	1459	1419	1374	1301
0.0	1649	1646	1632	1607	1575	1539	1500	1460	1420	1375	1302
-1.0	1646	1644	1630	1605	1574	1537	1499	1459	1419	1374	1301
-3.0	1632	1630	1617	1594	1564	1529	1492	1453	1414	1368	1295
-5.0	1607	1605	1594	1574	1546	1514	1478	1441	1403	1355	1284
-7.0	1575	1574	1564	1546	1521	1492	1459	1425	1386	1336	1269
-9.0	1539	1537	1529	1514	1492	1466	1436	1404	1363	1311	1250
-11.0	1500	1499	1492	1478	1459	1436	1409	1376	1331	1283	1222
-13.0	1460	1459	1453	1441	1425	1404	1376	1338	1294	1253	1172
-15.0	1420	1419	1414	1403	1386	1363	1331	1294	1258	1212	1084
-17.0	1375	1374	1368	1355	1336	1311	1283	1253	1212	1133	962
-19.5	1302	1301	1295	1284	1269	1250	1222	1172	1084	962	779
-22.5	1213	1212	1205	1191	1157	1110	1038	944	832	710	561
-25.5	978	976	960	930	882	819	744	659	571	490	419
-29.0	600	598	587	565	533	495	456	425	400	381	358
-33.0	386	385	383	379	374	366	356	343	328	310	288
-37.5	293	293	291	287	282	276	268	259	249	239	225
-42.5	213	213	212	210	207	203	198	193	187	180	171
-47.5	156	156	155	154	152	150	147	144	140	136	130
-55.0	97	97	97	96	95	94	93	91	89	86	83
-65.0	45	45	45	44	44	43	43	42	41	40	39
-75.0	14	14	14	14	14	14	13	13	13	13	12
-85.0	2	2	2	2	2	2	2	2	2	2	2



Candela Tabulation

Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	2	2	2	2	2	2	1	1	0	0	0
75.0	12	11	11	10	9	7	6	5	3	2	0
65.0	37	35	32	29	25	21	17	12	7	3	0
55.0	79	74	69	62	54	45	36	24	12	5	1
47.5	123	115	105	94	81	67	54	36	17	6	1
42.5	160	149	135	119	102	84	67	45	21	7	2
37.5	208	190	170	149	125	102	81	54	25	9	2
33.0	262	237	209	179	149	119	94	62	29	10	2
29.0	323	286	247	209	170	135	105	69	32	11	2
25.5	376	337	286	237	190	149	115	74	35	11	2
22.5	431	376	323	262	208	160	123	79	37	12	2
19.5	561	419	358	288	225	171	130	83	39	12	2
17.0	710	490	381	310	239	180	136	86	40	13	2
15.0	832	571	400	328	249	187	140	89	41	13	2
13.0	944	659	425	343	259	193	144	91	42	13	2
11.0	1038	744	456	356	268	198	147	93	43	13	2
9.0	1110	819	495	366	276	203	150	94	43	14	2
7.0	1157	882	533	374	282	207	152	95	44	14	2
5.0	1191	930	565	379	287	210	154	96	44	14	2
3.0	1205	960	587	383	291	212	155	97	45	14	2
1.0	1212	976	598	385	293	213	156	97	45	14	2
0.0	1213	978	600	386	293	213	156	97	45	14	2
-1.0	1212	976	598	385	293	213	156	97	45	14	2
-3.0	1205	960	587	383	291	212	155	97	45	14	2
-5.0	1191	930	565	379	287	210	154	96	44	14	2
-7.0	1157	882	533	374	282	207	152	95	44	14	2
-9.0	1110	819	495	366	276	203	150	94	43	14	2
-11.0	1038	744	456	356	268	198	147	93	43	13	2
-13.0	944	659	425	343	259	193	144	91	42	13	2
-15.0	832	571	400	328	249	187	140	89	41	13	2
-17.0	710	490	381	310	239	180	136	86	40	13	2
-19.5	561	419	358	288	225	171	130	83	39	12	2
-22.5	431	376	323	262	208	160	123	79	37	12	2
-25.5	376	337	286	237	190	149	115	74	35	11	2
-29.0	323	286	247	209	170	135	105	69	32	11	2
-33.0	262	237	209	179	149	119	94	62	29	10	2
-37.5	208	190	170	149	125	102	81	54	25	9	2
-42.5	160	149	135	119	102	84	67	45	21	7	2
-47.5	123	115	105	94	81	67	54	36	17	6	1
-55.0	79	74	69	62	54	45	36	24	12	5	1
-65.0	37	35	32	29	25	21	17	12	7	3	0
-75.0	12	11	11	10	9	7	6	5	3	2	0
-85.0	2	2	2	2	2	2	1	1	0	0	0

Vertical Angle (Degrees)



Isocandela Diagram (Percent of Maximum Intensity)

