



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

## Photometric Indoor Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
Starfire Lighting Inc  
Craig Newman  
7 Donna Drive  
Wood-Ridge, New Jersey 07075

Catalog Number  
KE100-LED-60-1  
Project Number  
10286515  
Test Number  
594104

Test Date

2014-04-22

Prepared By

A handwritten signature in black ink, reading 'Derek Smarr'.

Derek Smarr, Technician

Approved By

A handwritten signature in black ink, reading 'Zachary Mooney'.

Zachary Mooney, Engineer Project Associate

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

Luminaire Description: White aluminum housing, white reflector, no enclosure  
Catalog Number: KE100-LED-60-1  
Lamp: 90 White LEDs  
Mounting: Cove Light  
Ballast/Driver: One Philips Advance X1075C200V054XPT1

Luminaire

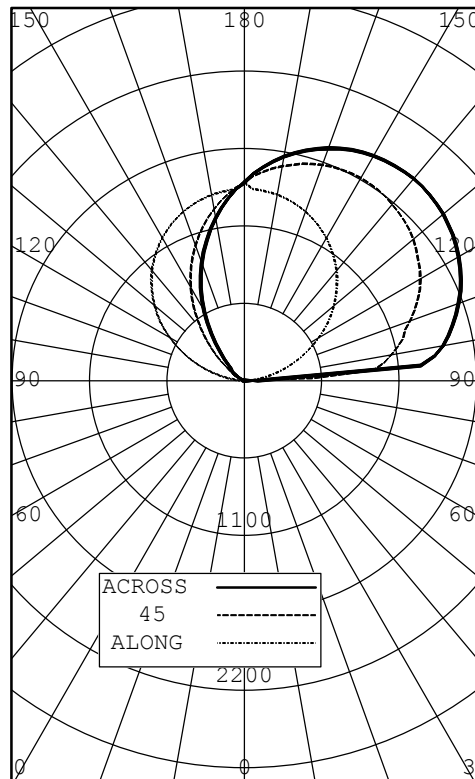


#### Test Conditions

Test Temperature:	25.0 °C
Voltage:	277.0 VAC
Current:	0.1824 A
Power:	48.36 W
Power Factor:	0.957
Frequency:	60 Hz
Current THD:	17.9 %



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300



INTENSITY (CANDLEPOWER)					SUMMARY		OUTPUT LUMENS
ANGLE	ALONG	BEAM SIDE		ACROSS			
		67.5	45	22.5			
180	1408	1408	1408	1408	1408		
175	1360	1451	1491	1514	1524	72	
170	1344	1474	1548	1598	1616		
165	1317	1487	1596	1669	1694	222	
160	1278	1488	1633	1720	1759		
155	1230	1478	1654	1758	1809	370	
150	1171	1456	1663	1794	1845		
145	1101	1423	1660	1810	1865	499	
140	1023	1378	1638	1814	1875		
135	932	1321	1610	1804	1867	592	
130	833	1252	1569	1778	1846		
125	728	1170	1511	1737	1809	636	
120	613	1077	1447	1684	1761		
115	493	975	1362	1619	1699	624	
110	370	862	1257	1540	1624		
105	250	743	1172	1449	1536	560	
100	140	616	1062	1347	1434		
95	50	487	929	1182	1260	335	
90	1	14	17	6	4		

BOTH SIDES  
ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
180-150	1102	22.34
180-140	1811	36.72
180-120	3316	67.25
180-90	4931	100.00
140-90	3120	63.28
120-90	1615	32.75
0-90	0	0.00
0-180	4931	100.00

EFFICACY (LUMENS PER WATT): 101.9

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 4.500 INS  
WIDTH: 57.000 INS

TESTED IN ACCORDANCE WITH IES PROCEDURES.



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

BEAM SIDE  
INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	ALONG	67.5	45	PLANE 22.5	ACROSS	AVERAGE	OUTPUT LUMENS
180.0	1408	1408	1408	1408	1408	1408	
177.5	1364	1435	1456	1468	1474	1444	
175.0	1360	1451	1491	1514	1524	1474	72
172.5	1353	1464	1521	1557	1571	1501	
170.0	1344	1474	1548	1598	1616	1525	
167.5	1331	1481	1573	1634	1658	1546	
165.0	1317	1487	1596	1669	1694	1564	222
162.5	1299	1489	1616	1696	1728	1578	
160.0	1278	1488	1633	1720	1759	1590	
157.5	1255	1484	1646	1740	1785	1597	
155.0	1230	1478	1654	1758	1809	1602	370
152.5	1202	1468	1660	1781	1829	1606	
150.0	1171	1456	1663	1794	1845	1605	
147.5	1138	1440	1663	1805	1856	1601	
145.0	1101	1423	1660	1810	1865	1594	499
142.5	1063	1403	1651	1813	1872	1583	
140.0	1023	1378	1638	1814	1875	1570	
137.5	978	1351	1624	1811	1873	1553	
135.0	932	1321	1610	1804	1867	1533	592
132.5	883	1288	1591	1792	1858	1511	
130.0	833	1252	1569	1778	1846	1484	
127.5	781	1213	1542	1760	1830	1455	
125.0	728	1170	1511	1737	1809	1422	636
122.5	671	1125	1480	1712	1788	1387	
120.0	613	1077	1447	1684	1761	1349	
117.5	554	1027	1407	1653	1732	1308	
115.0	493	975	1362	1619	1699	1263	624
112.5	432	920	1311	1581	1664	1215	
110.0	370	862	1257	1540	1624	1164	
107.5	310	803	1198	1496	1582	1111	
105.0	250	743	1172	1449	1536	1064	560
102.5	193	680	1118	1400	1488	1010	
100.0	140	616	1062	1347	1434	953	
97.5	91	551	1003	1283	1367	892	
95.0	50	487	929	1182	1260	813	335
92.5	17	405	490	169	98	280	
90.0	1	14	17	6	4	10	

LUMINOUS LENGTH: 4.500 INS  
WIDTH: 57.000 INS



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

OPPOSITE SIDE TO BEAM  
INTENSITY (CANDLEPOWER) DATA  
IN 2.5 DEGREE STEPS

ANGLE	ALONG	112.5	135	157.5	ACROSS	AVERAGE	OUTPUT LUMENS
180.0	1408	1408	1408	1408	1408	1408	
177.5	1364	1393	1378	1368	1364	1376	
175.0	1360	1369	1336	1314	1305	1338	63
172.5	1353	1341	1290	1255	1242	1296	
170.0	1344	1310	1243	1194	1176	1252	
167.5	1331	1277	1192	1130	1107	1205	
165.0	1317	1241	1137	1065	1036	1155	161
162.5	1299	1203	1080	996	962	1102	
160.0	1278	1161	1021	924	887	1047	
157.5	1255	1117	959	850	813	990	
155.0	1230	1070	896	774	734	930	213
152.5	1202	1022	829	696	652	869	
150.0	1171	971	761	618	570	805	
147.5	1138	918	691	539	491	741	
145.0	1101	863	620	462	413	675	210
142.5	1063	805	549	388	339	611	
140.0	1023	746	478	318	270	547	
137.5	978	685	407	253	211	485	
135.0	932	623	340	196	164	427	165
132.5	883	559	277	153	134	374	
130.0	833	494	220	127	121	329	
127.5	781	430	170	114	110	290	
125.0	728	367	130	103	90	252	113
122.5	671	304	107	80	64	215	
120.0	613	245	95	58	48	182	
117.5	554	190	82	43	37	152	
115.0	493	142	57	33	29	123	62
112.5	432	101	40	26	23	98	
110.0	370	73	29	20	19	79	
107.5	310	59	21	16	15	65	
105.0	250	43	16	13	13	51	27
102.5	193	25	12	11	10	37	
100.0	140	15	10	9	9	27	
97.5	91	9	7	8	7	18	
95.0	50	6	6	2	1	10	6
92.5	17	3	2	2	2	4	
90.0	1	1	2	2	2	2	

LUMINOUS LENGTH: 4.500 INS  
WIDTH: 57.000 INS



7036 Snowdrift Road Suite 200  
Allentown, PA 18106  
610-774-1300

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.091	1.091	1.091	1.09	0.950	0.950	0.950	0.95	0.810	0.810	0.810	0.81	0.560	0.560	0.56	0.320	0.320	0.32	0.100	0.100	0.10	0.00			
1	0.990	0.950	0.900	0.87	0.870	0.830	0.790	0.76	0.740	0.710	0.680	0.64	0.480	0.470	0.45	0.280	0.270	0.26	0.090	0.090	0.09	0.00			
2	0.900	0.820	0.750	0.70	0.790	0.720	0.660	0.61	0.670	0.620	0.570	0.53	0.420	0.390	0.37	0.240	0.230	0.22	0.080	0.070	0.07	0.00			
3	0.820	0.720	0.640	0.58	0.720	0.630	0.570	0.51	0.610	0.540	0.490	0.44	0.370	0.340	0.31	0.220	0.200	0.18	0.070	0.060	0.06	0.00			
4	0.750	0.630	0.550	0.49	0.650	0.560	0.480	0.43	0.560	0.480	0.420	0.37	0.330	0.290	0.26	0.190	0.170	0.16	0.060	0.060	0.05	0.00			
5	0.690	0.540	0.470	0.41	0.600	0.480	0.420	0.36	0.510	0.420	0.360	0.32	0.290	0.250	0.22	0.170	0.150	0.13	0.050	0.050	0.04	0.00			
6	0.630	0.500	0.410	0.35	0.550	0.440	0.360	0.31	0.470	0.380	0.310	0.27	0.260	0.220	0.19	0.150	0.130	0.11	0.050	0.040	0.04	0.00			
7	0.580	0.450	0.360	0.30	0.500	0.390	0.320	0.27	0.430	0.340	0.280	0.23	0.230	0.190	0.17	0.140	0.110	0.10	0.040	0.040	0.03	0.00			
8	0.530	0.400	0.320	0.26	0.460	0.350	0.280	0.23	0.400	0.300	0.240	0.20	0.210	0.170	0.14	0.120	0.100	0.09	0.040	0.030	0.03	0.00			
9	0.490	0.360	0.280	0.23	0.430	0.320	0.250	0.20	0.370	0.270	0.220	0.18	0.190	0.150	0.12	0.110	0.090	0.08	0.040	0.030	0.03	0.00			
10	0.460	0.330	0.250	0.20	0.400	0.290	0.220	0.18	0.340	0.250	0.190	0.16	0.170	0.140	0.11	0.100	0.080	0.07	0.030	0.030	0.02	0.00			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
LUMINOUS OPENING OF LUMINAIRE.