

**LUMINAIRE:** KXL-36L-X-5K-5M  
 KxL Kemlux III Led, Extreme Environment  
 Kemlux III LED fixture  
**BALLAST:** LED40W54C0700D  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 8470  
**WATTS:** 85.30  
**MOUNTING:** Pendant  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 3.75 90° = 3.75  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 1.00  
 WIDTH: 1.00  
 HEIGHT: 0.00

TEST #7093

DATE: 6/7/2013

**TOTAL LUMINAIRE EFFICIENCY = 100.0**

**TOTAL LUMENS PER WATT = 99**

**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**

**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.40**

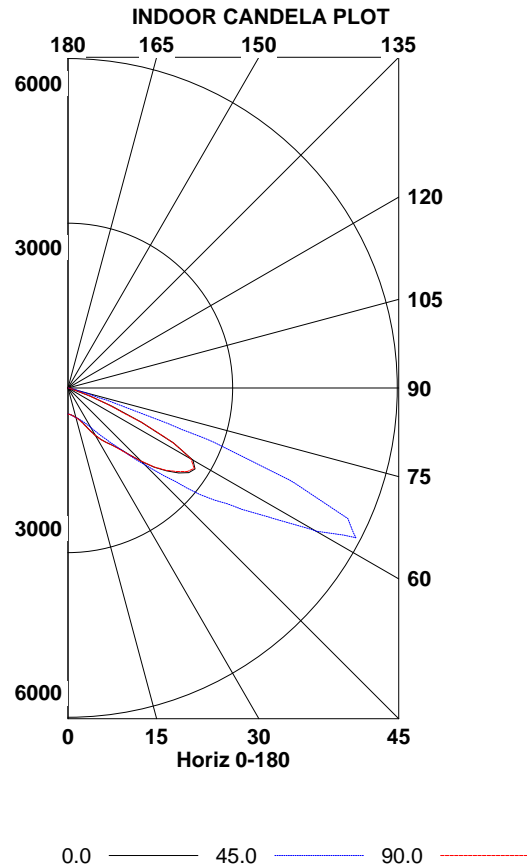
**BASED ON 3000 HRS. AND \$.08 PER KWH**

**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	557	6.6	6.6
0-40	1307	15.4	15.4
0-60	5683	67.1	67.1
0-90	8470	100.0	100.0
90-120	0	0.0	0.0
90-130	0	0.0	0.0
90-150	0	0.0	0.0
90-180	0	0.0	0.0
0-180	8470	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	40.0	60.0	80.0	90.0
0	6510	6510	6510	6510	6510	6510
30	15762	15066	13262	14369	15619	15873
40	25691	27230	25584	27158	26532	26085
45	36748	39810	38279	39171	37504	36535
50	50041	55776	59252	55798	51448	49700
55	64203	74215	88766	76819	66808	63343
60	72006	90344	138092	106105	75981	70910
65	47638	69787	179851	109059	51595	47833
70	17030	19114	64114	20036	17150	16910
75	2542	3548	11120	4660	2965	2648
80	1500	1894	2920	2131	1736	1736
85	1258	1258	1730	1573	1258	1415



**COEFFICIENTS OF UTILIZATION (%)**

**ZONAL CAVITY METHOD**

**EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%**

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																						
	80%				70%				50%				30%				10%				0%		
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100		
1	108	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	83	86	83	81	81		
2	95	85	77	71	92	84	76	70	80	74	68	76	71	67	73	69	65	69	65	63	63		
3	84	71	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	61	55	48	48		
R	4	75	60	50	41	72	59	49	41	56	47	40	53	46	40	51	45	45	39	37	37		
C	5	67	51	40	32	64	50	40	32	48	39	32	45	38	31	43	36	31	31	28	28		
R	6	60	44	33	26	58	43	33	26	41	32	25	39	31	25	37	30	25	22	22	22		
	7	55	39	28	21	53	38	28	21	36	27	21	34	26	20	33	26	20	18	18	18		
	8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14	14	14		
	9	46	30	21	14	44	30	21	14	29	20	14	27	20	14	26	19	14	12	12	12		
	10	43	27	18	12	41	27	18	12	26	18	12	25	17	12	24	17	12	10	10	10		

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.  
 ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.  
 THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: \_\_\_\_\_

**LUMINAIRE:** KXL-36L-X-5K-5M  
KxL Kemlux III Led, Extreme Environment  
Kemlux III LED fixture  
**CANDELA VALUES**

**TEST #7093**  
**DATE:** 6/7/2013

ANGLE	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
0.0	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475	475
2.5	478	477	478	478	478	478	478	478	478	478	477	476	477	477	476	479	479
5.0	486	485	487	486	487	487	487	486	488	487	486	485	486	486	485	487	487
7.5	497	497	500	499	500	500	501	500	502	500	500	499	500	499	498	500	499
10.0	512	514	516	515	518	517	519	518	519	517	517	516	517	516	515	517	516
12.5	531	532	534	533	536	536	538	537	539	537	537	535	535	535	534	535	536
15.0	551	553	555	554	557	556	558	558	561	559	559	557	557	557	557	558	559
17.5	578	579	581	581	581	580	581	580	583	583	583	583	583	582	584	587	589
20.0	617	616	617	616	614	610	608	608	610	609	611	613	615	618	623	626	630
22.5	672	672	671	669	660	652	646	644	643	643	645	651	657	664	677	684	688
25.0	760	759	754	745	732	717	701	691	688	687	691	704	717	732	752	765	771
27.5	878	875	867	853	832	808	782	761	751	749	755	778	801	823	848	866	874
30.0	996	996	990	978	952	922	888	860	838	831	847	876	908	936	964	982	987
32.5	1110	1107	1108	1101	1082	1052	1014	978	949	939	959	993	1033	1067	1089	1100	1098
35.0	1205	1209	1214	1217	1214	1191	1157	1114	1079	1073	1090	1130	1170	1203	1218	1218	1210
37.5	1303	1309	1325	1344	1353	1342	1313	1281	1246	1232	1251	1291	1334	1359	1372	1353	1324
40.0	1436	1435	1469	1500	1522	1516	1488	1460	1430	1422	1443	1473	1518	1546	1545	1520	1483
42.5	1636	1645	1685	1726	1752	1742	1706	1681	1659	1669	1674	1697	1741	1778	1779	1741	1694
45.0	1896	1905	1952	2006	2054	2036	1998	1971	1975	1974	1974	1980	2021	2062	2062	2010	1935
47.5	2141	2155	2212	2289	2344	2338	2306	2308	2342	2361	2353	2306	2319	2359	2347	2282	2186
50.0	2347	2378	2436	2540	2616	2620	2603	2661	2779	2845	2776	2664	2617	2631	2615	2532	2413
52.5	2542	2564	2648	2783	2874	2878	2903	3043	3250	3346	3241	3037	2918	2894	2875	2765	2613
55.0	2687	2713	2824	2984	3106	3116	3202	3437	3715	3842	3729	3437	3215	3140	3113	2986	2796
57.5	2742	2774	2910	3134	3306	3332	3514	3891	4260	4422	4265	3906	3542	3374	3310	3141	2899
60.0	2627	2644	2785	3053	3296	3435	3842	4508	5038	5217	5016	4521	3871	3486	3333	3083	2772
62.5	2168	2179	2352	2622	2901	3144	3919	5159	5767	<b>5910*</b>	5814	5185	3983	3250	2976	2607	2300
65.0	1469	1444	1594	1862	2152	2360	3155	4768	5546	5625	5557	4765	3363	2460	2222	1860	1591
67.5	860	814	852	1007	1163	1229	1617	2639	3977	4337	3712	2675	1756	1260	1149	1025	869
70.0	425	388	393	456	477	443	470	769	1600	2229	1583	803	500	416	434	449	428
72.5	99	97	107	133	145	144	163	261	501	751	528	274	176	141	149	140	122
75.0	48	50	56	62	67	74	86	123	210	336	218	129	88	75	70	63	56
77.5	30	31	33	37	39	43	50	54	94	153	102	60	50	45	40	37	34
80.0	19	21	21	21	24	26	29	28	37	47	37	30	27	26	23	22	22
82.5	13	13	14	13	16	16	19	17	21	20	20	17	17	16	15	13	15
85.0	8	6	6	7	8	9	11	10	11	10	9	9	10	8	7	7	8
87.5	2	2	2	2	3	4	4	5	5	5	4	4	3	3	3	3	3
90.0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*MAXIMUM CANDELA VALUE