

**LUMINAIRE:** KXL-18L-X-5K-5M  
 KxL Kemlux III Led, Extreme Environment  
 Kemlux III LED fixture  
**BALLAST:** LED40W54C0700D  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 4322  
**WATTS:** 43.30  
**MOUNTING:** Pendant  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 3.78 90° = 3.78  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 1.00  
 WIDTH: 1.00  
 HEIGHT: 0.00

TEST #7088  
 DATE: 6/12/2013

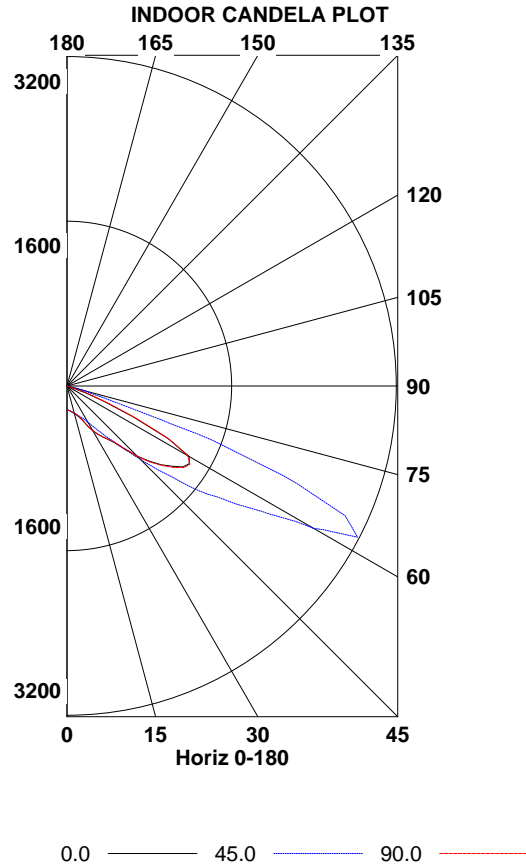
**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 100**  
**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.38**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	274	6.3	6.3
0-40	647	15.0	15.0
0-60	2895	67.0	67.0
0-90	4322	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	4322	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	40.0	60.0	80.0	90.0
0	3207	3207	3207	3207	3207	3207
30	7928	7612	6536	6947	7802	7928
40	12899	13812	12828	13293	12971	12684
45	18665	20428	19421	19537	19169	18684
50	25372	28698	30468	28165	26396	25586
55	32759	38708	46044	38780	34551	33045
60	37524	48297	72746	54711	39196	37086
65	23122	36677	95990	53767	26008	23543
70	7774	8375	29332	7774	6932	7533
75	1059	1536	5295	1694	1112	900
80	631	710	1105	789	631	552
85	472	472	629	629	472	472



**COEFFICIENTS OF UTILIZATION (%)**

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%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	108	102	98	93	105	100	96	92	96	92	89	92	89	86	88	86	83	81	
2	95	85	77	71	92	83	76	70	80	74	68	76	71	67	73	69	65	63	
3	84	71	62	54	81	70	61	53	66	59	52	64	57	51	61	55	50	48	
R	4	74	60	49	41	72	59	49	41	56	47	40	53	46	40	51	44	39	36
C	5	67	51	40	32	64	50	40	32	47	38	32	45	37	31	43	36	31	28
R	6	60	44	33	26	58	43	33	25	41	32	25	39	31	25	37	30	24	22
	7	54	38	28	21	52	37	28	21	36	27	20	34	26	20	33	25	20	18
	8	50	34	24	17	48	33	24	17	32	23	17	30	22	17	29	22	16	14
	9	46	30	21	14	44	30	20	14	28	20	14	27	19	14	26	19	14	12
	10	43	27	18	12	41	27	18	12	26	18	12	25	17	12	24	17	12	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-18L-X-5K-5M  
KxL Kemlux III Led, Extreme Environment  
Kemlux III LED fixture  
CANDELA VALUES

TEST #7088  
DATE: 6/12/2013

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	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
2.5	235	236	235	236	235	233	235	234	235	235	235	235	236	235	236	235	235
5.0	238	239	239	239	238	237	238	238	239	239	240	239	239	240	240	239	239
7.5	244	244	244	245	244	244	244	244	245	244	246	245	245	246	246	245	244
10.0	253	253	253	253	252	253	253	253	254	254	255	254	253	255	254	254	253
12.5	264	263	264	263	262	263	263	264	264	265	265	264	263	264	263	263	262
15.0	276	276	277	276	275	274	274	276	276	276	276	276	273	275	274	274	273
17.5	291	291	291	290	289	287	287	288	288	287	288	287	285	287	286	286	285
20.0	310	310	310	308	307	305	302	303	302	302	301	300	299	301	302	303	302
22.5	338	338	337	333	331	327	322	321	319	318	317	316	317	322	325	327	328
25.0	381	381	378	371	367	359	350	345	340	338	337	339	343	351	358	366	369
27.5	439	439	434	426	419	406	391	378	369	366	366	373	383	398	411	424	429
30.0	501	501	497	487	481	467	446	424	413	408	409	421	439	461	478	488	493
32.5	555	556	554	549	546	534	509	485	469	461	465	484	505	527	543	549	550
35.0	604	606	606	611	613	604	583	558	539	527	533	556	577	597	608	609	604
37.5	655	657	662	674	687	682	662	638	622	611	615	632	656	674	677	670	656
40.0	721	723	736	753	772	773	753	730	717	711	711	726	743	762	759	747	725
42.5	834	834	852	877	894	891	874	848	836	837	832	842	856	875	878	869	840
45.0	963	969	992	1025	1054	1046	1023	996	1002	1000	996	988	1008	1037	1047	1027	989
47.5	1079	1088	1116	1163	1202	1203	1183	1168	1198	1214	1195	1166	1169	1198	1195	1168	1119
50.0	1190	1200	1232	1302	1346	1350	1334	1362	1429	1462	1430	1354	1321	1336	1337	1301	1238
52.5	1279	1296	1341	1429	1490	1490	1490	1560	1684	1728	1674	1549	1475	1474	1481	1426	1348
55.0	1371	1384	1447	1552	1620	1615	1649	1775	1927	1991	1919	1757	1623	1600	1603	1542	1446
57.5	1407	1423	1505	1651	1755	1760	1842	2034	2207	2296	2219	2010	1800	1733	1733	1639	1498
60.0	1369	1378	1461	1620	1762	1833	2046	2388	2654	2763	2679	2387	1996	1799	1732	1594	1430
62.5	1111	1124	1191	1383	1580	1694	2118	2819	3152	<b>3180*</b>	3077	2763	2054	1625	1522	1384	1205
65.0	713	728	805	951	1131	1251	1737	2588	2960	2982	2892	2485	1658	1213	1131	947	802
67.5	397	394	429	485	544	599	791	1332	2002	2269	2006	1250	766	598	576	489	407
70.0	194	188	204	222	209	183	203	353	732	1079	764	344	194	183	212	212	173
72.5	46	46	49	61	61	57	69	118	220	350	230	113	63	57	57	52	45
75.0	20	21	22	26	29	31	35	53	100	159	93	48	32	28	26	24	21
77.5	11	11	13	14	15	17	18	23	42	73	39	19	18	17	14	14	12
80.0	8	8	8	8	9	10	10	11	14	19	13	10	10	9	8	8	8
82.5	6	5	5	5	5	6	6	6	8	7	8	6	7	6	5	5	5
85.0	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	3	3
87.5	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1
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